



REPORT OF ANALYSIS
MANATEE COUNTY UTILITIES DEPARTMENT
CENTRAL LABORATORY
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BRADENTON, FL 34210

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FDOHLAB ID: E54560

USEPA LAB CODE: FL00031

Laboratory Contact: Jeff Goodwin

PREPARED FOR: Mr. Mike Gore
MCUD Solid Waste Division
3333 Lena Road
Bradenton, FL 34211

SAMPLE RECEIPT DATE: 09/19/2011

REPORT DATE: 12/13/2011

PROJECT NAME: Lena Road Semi-Annual
Surface Water Monitoring
Report

Data Release Authorization:

The Methods of analysis in this report are in accordance with MCUD Central Laboratory's Quality Assurance Manual and meet all NELAC standards except where noted. Results pertain only to items tested and to the samples specified. This report may not be reproduced, except in full, without the written approval of this laboratory.



Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
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Sample ID: AE39933 Collection Date / Time: 09/19/2011 09:10

Sample Point: Lena Road Surface Water 1

Sample Comment:

Analysis Department: **ANIONS**

Nitrate as N by Ion Chromatography	EPA 300.0	0.185	mg/L		09/19/2011 18:05	0.0046	0.025	KMH
Nitrite as N by Ion Chromatography	EPA 300.0	0.023	mg/L	I	09/19/2011 18:05	0.0023	0.025	KMH

Analysis Department: **CONTRACT**

258 Appendix 1 Volatiles -Contract Lab

1,2-Dibromo-3-chloropropane	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW
1,2-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.1		JRW
1,4-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW
Acetone	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	2.0		JRW
Acrylonitrile	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	1.3		JRW
Benzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.1		JRW
Bromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.1		JRW
Bromodichloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW
Bromoform	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW
Carbon disulfide	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.4		JRW
Carbon tetrachloride	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW
Chlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.1		JRW
Chloroethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.4		JRW
Chloroform	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW
Dibromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.1		JRW
Ethylbenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.8		JRW
Ethylene dibromide	EPA 8260	<MDL	ug/L	C,U	09/22/2011 15:40	0.2		JRW

258 Pesticides -Contract Lab

Dibromochloropropane	EPA 8011	<0.0053	ug/L	C,U	09/27/2011 13:43	0.0053		BTJ
Ethylene dibromide	EPA 8011	<0.0053	ug/L	C,U	09/27/2011 13:43	0.0053		BTJ

Chlorophyll A - Contract Lab	SM 10200H	<0.50	mg/m3	C,U	09/26/2011 11:39	0.50		ARP
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Mercury Contract Lab 1631	EPA 1631	0.0023	ng/L	C	09/28/2011 07:19	0.500	2.00	AWS
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Analysis Department: **DEMANDS**

Carbonaceous BOD (5 day)	SM 5210 B	<2.00	mg/L	U	09/19/2011 13:20	2.00	2.00	EMM/ IR
Chemical Oxygen Demand	EPA 410.4	76.8	mg/L		09/30/2011 14:10	6.03	20.0	AC
Total Organic Carbon	SM 5310C	33.7	mg/L		09/28/2011 18:12	0.072	0.500	EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
<u>Analysis Department:</u>		<u>FIELD</u>							
Field pH	FIELD	7.07	Std. units		09/19/2011	09:10	0.010		PMITCHELL
Field Temperature	FIELD	24.8	Degrees C		09/19/2011	09:10	0.01		PMITCHELL
<u>Analysis Department:</u>		<u>METALS</u>							
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/01/2011	12:15	0.0039	0.005	KMH
Arsenic	EPA 200.7	0.024	mg/L		11/01/2011	12:15	0.0038	0.005	KMH
Barium	EPA 200.7	0.013	mg/L		11/01/2011	12:15	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/01/2011	12:15	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.034	mg/L		11/01/2011	12:15	0.0004	0.005	KMH
Calcium	EPA 200.7	39.4	mg/L		11/01/2011	12:15	0.017	1.00	KMH
Chromium	EPA 200.7	0.0014	mg/L	I	11/01/2011	12:15	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/01/2011	12:15	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/01/2011	12:15	0.0009	0.005	KMH
Iron	EPA 200.7	3.30	mg/L		11/01/2011	12:15	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/01/2011	12:15	0.0017	0.005	KMH
Magnesium	EPA 200.7	10.9	mg/L		11/01/2011	12:15	0.028	1.00	KMH
Nickel	EPA 200.7	0.0020	mg/L	I	11/01/2011	12:15	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/01/2011	12:15	0.0046	0.005	KMH
Silver	EPA 200.7	<0.0007	mg/L	U	11/01/2011	12:15	0.0007	0.005	KMH
Thallium	EPA 200.7	0.019	mg/L		11/01/2011	12:15	0.0016	0.005	KMH
Vanadium	EPA 200.7	0.0019	mg/L	I	11/01/2011	12:15	0.0005	0.005	KMH
Zinc	EPA 200.7	0.011	mg/L		11/01/2011	12:15	0.0029	0.005	KMH
Total Hardness	SM 2340 B	143	mg/L		11/07/2011	15:35			JAG
<u>Analysis Department:</u>		<u>MICROBIOLOGY</u>							
Fecal Coliforms	SM 9222D	3700	cfu/100 ml		09/19/2011	12:28	1		EMM/AC
<u>Analysis Department:</u>		<u>NUTRIENTS</u>							
Ammonia	EPA 350.1	0.292	mg/L		09/26/2011	15:16	0.018	0.050	AC
Total Kjeldahl Nitrogen	EPA 351.2	1.65	mg/L		09/27/2011	14:24	0.044	0.100	AC
Total Nitrogen	Calculation	1.86	mg/L		09/29/2011	15:24			JAG
Total Phosphate as P	EPA 365.3	0.582	mg/L		09/20/2011	13:09	0.003	0.010	EMM
Unionized Ammonia	DEP SOP 10/3/83	0.00232	mg/L		09/27/2011	16:15			JAG
<u>Analysis Department:</u>		<u>SOLIDS</u>							
Total Dissolved Solids	SM 2540 C	297	mg/L		09/20/2011	11:38	10.0	10.0	KEB/ IR

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Total Suspended Solids	SM 2540 D	8.40	mg/L		09/20/2011	08:00	1.00	5.00	KEB

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
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Sample ID: AE39934 Collection Date / Time: 09/12/2011 08:45

Sample Point: Lena Road Surface Water 2

Sample Comment:

Analysis Department: **ANIONS**

Nitrate as N by Ion Chromatography	EPA 300.0	<0.0046	mg/L	U	09/13/2011	17:30	0.0046	0.025	KMH
Nitrite as N by Ion Chromatography	EPA 300.0	<0.0023	mg/L	U	09/13/2011	17:30	0.0023	0.025	KMH

Analysis Department: **CONTRACT**

258 Appendix 1 Volatiles -Contract Lab

1,2-Dibromo-3-chloropropane	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW
1,2-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.1		JRW
1,4-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW
Acetone	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	2.0		JRW
Acrylonitrile	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	1.3		JRW
Benzene	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.1		JRW
Bromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.1		JRW
Bromodichloromethane	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW
Bromoform	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW
Carbon disulfide	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.4		JRW
Carbon tetrachloride	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW
Chlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.1		JRW
Chloroethane	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.4		JRW
Chloroform	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW
Dibromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.1		JRW
Ethylene dibromide	EPA 8260	<MDL	ug/L	C,U	09/16/2011	14:36	0.2		JRW

258 Pesticides -Contract Lab

Dibromochloropropane	EPA 8011	<0.0053	ug/L	C,U	09/13/2011	15:43	0.0053		BTJ
Ethylene dibromide	EPA 8011	<0.0053	ug/L	C,U	09/13/2011	15:43	0.0053		BTJ

Chlorophyll A - Contract Lab	SM 10200H	<0.50	mg/m3	C,U	09/19/2011	15:41	0.50		ARP
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Mercury Contract Lab 1631	EPA 1631	0.00024	ng/L	C,I	09/15/2011	15:57	0.500	2.00	AWS
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Analysis Department: **DEMANDS**

Carbonaceous BOD (5 day)	SM 5210 B	<2.00	mg/L	U,J	09/13/2011	09:30	2.00	2.00	KEB/EMM
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Analysis Comments: J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.

Chemical Oxygen Demand	EPA 410.4	79.5	mg/L		09/29/2011	14:12	6.03	20.0	AC
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Total Organic Carbon	SM 5310C	30.7	mg/L		09/28/2011	19:55	0.072	0.500	EMM
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Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
<u>Analysis Department:</u>	<u>FIELD</u>								
Field pH	FIELD	6.84	Std. units		09/12/2011	08:45	0.010		PMITCHELL
Field Temperature	FIELD	25.5	Degrees C		09/12/2011	08:45	0.01		PMITCHELL
<u>Analysis Department:</u>	<u>METALS</u>								
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/01/2011	12:19	0.0039	0.005	KMH
Arsenic	EPA 200.7	0.042	mg/L		11/01/2011	12:19	0.0038	0.005	KMH
Barium	EPA 200.7	0.018	mg/L		11/01/2011	12:19	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/01/2011	12:19	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.022	mg/L		11/01/2011	12:19	0.0004	0.005	KMH
Calcium	EPA 200.7	27.1	mg/L		11/01/2011	12:19	0.017	1.00	KMH
Chromium	EPA 200.7	0.0016	mg/L	I	11/01/2011	12:19	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/01/2011	12:19	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/01/2011	12:19	0.0009	0.005	KMH
Iron	EPA 200.7	8.09	mg/L		11/01/2011	12:19	0.046	0.125	KMH
Lead	EPA 200.7	0.0036	mg/L	I	11/01/2011	12:19	0.0017	0.005	KMH
Magnesium	EPA 200.7	9.32	mg/L		11/01/2011	12:19	0.028	1.00	KMH
Nickel	EPA 200.7	0.0004	mg/L	I	11/01/2011	12:19	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/01/2011	12:19	0.0046	0.005	KMH
Silver	EPA 200.7	<0.0007	mg/L	U	11/01/2011	12:19	0.0007	0.005	KMH
Thallium	EPA 200.7	0.017	mg/L		11/01/2011	12:19	0.0016	0.005	KMH
Vanadium	EPA 200.7	0.0015	mg/L	I	11/01/2011	12:19	0.0005	0.005	KMH
Zinc	EPA 200.7	0.0036	mg/L	I	11/01/2011	12:19	0.0029	0.005	KMH
Total Hardness	SM 2340 B	106	mg/L		11/07/2011	15:35			JAG
<u>Analysis Department:</u>	<u>MICROBIOLOGY</u>								
Fecal Coliforms	SM 9222D	150	cfu/100 ml		09/12/2011	10:34	1		AC/EMM
<u>Analysis Department:</u>	<u>NUTRIENTS</u>								
Ammonia	EPA 350.1	0.116	mg/L		09/13/2011	14:17	0.018	0.050	AC
Total Kjeldahl Nitrogen	EPA 351.2	1.13	mg/L		09/14/2011	13:13	0.044	0.100	AC
Total Nitrogen	Calculation	1.13	mg/L		09/14/2011	15:33			JAG
Total Phosphate as P	EPA 365.3	0.326	mg/L		09/20/2011	13:01	0.003	0.010	EMM
Unionized Ammonia	DEP SOP 10/3/83	0.00057	mg/L		09/14/2011	15:33			JAG

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Total Dissolved Solids	SM 2540 C	229	mg/L		09/14/2011	11:30	10.0	10.0	EMM/KEB
Total Suspended Solids	SM 2540 D	8.40	mg/L		09/13/2011	08:00	1.00	5.00	KEB

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
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Sample ID: AE39935 Collection Date / Time: 09/19/2011 09:10

Sample Point: Lena Road Surface Water Field Blank

Sample Comment:

Analysis Department: **ANIONS**

Nitrate as N by Ion Chromatography	EPA 300.0	<0.0046	mg/L	U	09/19/2011	18:31	0.0046	0.025	KMH
Nitrite as N by Ion Chromatography	EPA 300.0	<0.0023	mg/L	U	09/19/2011	18:31	0.0023	0.025	KMH

Analysis Department: **CONTRACT**

258 Appendix 1 Volatiles -Contract Lab

1,2-Dibromo-3-chloropropane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.2		JRW
1,2-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.4		JRW
1,4-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.2		JRW
Acetone	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	2.0		JRW
Acrylonitrile	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	1.3		JRW
Benzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.1		JRW
Bromochloromethane	EPA 8260	0.5	ug/L	C,I	09/22/2011	16:45	01		JRW
Bromodichloromethane	EPA 8260	0.3	ug/L	C,I	09/22/2011	16:45	0.2		JRW
Bromoform	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.2		JRW
Carbon disulfide	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.4		JRW
Carbon tetrachloride	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.2		JRW
Chlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.1		JRW
Chloroethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.4		JRW
Chloroform	EPA 8260	3.7	ug/L	C	09/22/2011	16:45	0.2		JRW
Dibromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.1		JRW
Ethylbenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.8		JRW
Ethylene dibromide	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:45	0.2		JRW

258 Pesticides -Contract Lab

Dibromochloropropane	EPA 8011	<0.0052	ug/L	C,U	09/27/2011	13:43	0.0052		BTJ
Ethylene dibromide	EPA 8011	<0.0052	ug/L	C,U	09/27/2011	13:43	0.0052		BTJ

Chlorophyll A - Contract Lab	SM 10200H	<0.50	mg/m3	C,U	09/26/2011	11:39	0.50		ARP
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Mercury Contract Lab 1631	EPA 1631	0.00048	ng/L	C,U	09/19/2011	07:19	0.500	2.00	AWS
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Analysis Department: **DEMANDS**

Carbonaceous BOD (5 day)	SM 5210 B	<2.00	mg/L	U	09/19/2011	13:20	2.00	2.00	EMM/ IR
Chemical Oxygen Demand	EPA 410.4	<6.03	mg/L	U	09/30/2011	14:10	6.03	20.0	AC
Total Organic Carbon	SM 5310C	<0.072	mg/L	U	09/28/2011	19:19	0.072	0.500	EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
<u>Analysis Department:</u>		<u>METALS</u>							
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/01/2011	12:24	0.0039	0.005	KMH
Arsenic	EPA 200.7	0.0038	mg/L	I	11/01/2011	12:24	0.0038	0.005	KMH
Barium	EPA 200.7	<0.0002	mg/L	U	11/01/2011	12:24	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/01/2011	12:24	0.00004	0.005	KMH
Cadmium	EPA 200.7	<0.0004	mg/L	U	11/01/2011	12:24	0.0004	0.005	KMH
Calcium	EPA 200.7	0.021	mg/L	I	11/01/2011	12:24	0.017	1.00	KMH
Chromium	EPA 200.7	<0.0007	mg/L	U	11/01/2011	12:24	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/01/2011	12:24	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/01/2011	12:24	0.0009	0.005	KMH
Iron	EPA 200.7	<0.046	mg/L	U	11/01/2011	12:24	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/01/2011	12:24	0.0017	0.005	KMH
Magnesium	EPA 200.7	<0.028	mg/L	U	11/01/2011	12:24	0.028	1.00	KMH
Nickel	EPA 200.7	0.0005	mg/L	I	11/01/2011	12:24	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/01/2011	12:24	0.0046	0.005	KMH
Silver	EPA 200.7	<0.0007	mg/L	U	11/01/2011	12:24	0.0007	0.005	KMH
Thallium	EPA 200.7	<0.0016	mg/L	U	11/01/2011	12:24	0.0016	0.005	KMH
Vanadium	EPA 200.7	<0.0005	mg/L	U	11/01/2011	12:24	0.0005	0.005	KMH
Zinc	EPA 200.7	<0.0029	mg/L	U	11/01/2011	12:24	0.0029	0.005	KMH

<u>Analysis Department:</u>		<u>MICROBIOLOGY</u>							
Fecal Coliforms	SM 9222D	<1	cfu/100 ml	U	09/19/2011	12:28	1		EMM/AC

<u>Analysis Department:</u>		<u>NUTRIENTS</u>							
Ammonia	EPA 350.1	0.108	mg/L		09/26/2011	15:16	0.018	0.050	AC
Total Kjeldahl Nitrogen	EPA 351.2	0.247	mg/L		09/27/2011	14:24	0.044	0.100	AC
Total Nitrogen	Calculation	0.247	mg/L		09/29/2011	15:24			JAG
Total Phosphate as P	EPA 365.3	<0.003	mg/L	U	09/20/2011	13:01	0.003	0.010	EMM

<u>Analysis Department:</u>		<u>SOLIDS</u>							
Total Dissolved Solids	SM 2540 C	<10.0	mg/L	U	09/20/2011	11:38	10.0	10.0	KEB/ IR
Total Suspended Solids	SM 2540 D	<1.00	mg/L	U	09/20/2011	08:00	1.00	5.00	KEB

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Sample ID:	AE39936	Collection Date / Time:	09/19/2011	09:10				
Sample Point:	Lena Road Surface Water Field Duplicate							
Sample Comment:								

Analysis Department: **ANIONS**

Nitrate as N by Ion Chromatography	EPA 300.0	0.182	mg/L		09/19/2011	18:56	0.0046	0.025	KMH
Nitrite as N by Ion Chromatography	EPA 300.0	0.023	mg/L	I	09/19/2011	18:56	0.0023	0.025	KMH

Analysis Department: **CONTRACT**

258 Appendix 1 Volatiles -Contract Lab

1,2-Dibromo-3-chloropropane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW
1,2-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.1		JRW
1,4-Dichlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW
Acetone	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	2.0		JRW
Acrylonitrile	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	1.3		JRW
Benzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.1		JRW
Bromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.1		JRW
Bromodichloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW
Bromoform	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW
Carbon disulfide	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.4		JRW
Carbon tetrachloride	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW
Chlorobenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.1		JRW
Chloroethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.4		JRW
Chloroform	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW
Dibromochloromethane	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.1		JRW
Ethylbenzene	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.8		JRW
Ethylene dibromide	EPA 8260	<MDL	ug/L	C,U	09/22/2011	16:13	0.2		JRW

258 Pesticides -Contract Lab

Dibromochloropropane	EPA 8011	<0.0053	ug/L	C,U	09/27/2011	09:57	0.0053		BTJ
Ethylene dibromide	EPA 8011	<0.0053	ug/L	C,U	09/27/2011	09:57	0.0053		BTJ

Chlorophyll A - Contract Lab	SM 10200H	<0.50	mg/m3	C,U	09/26/2011	11:39	0.50		ARP
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Mercury Contract Lab 1631	EPA 1631	0.0022	ng/L	C	09/26/2011	07:19	0.500	2.00	AWS
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Analysis Department: **DEMANDS**

Carbonaceous BOD (5 day)	SM 5210 B	<2.00	mg/L	U	09/19/2011	13:20	2.00	2.00	EMM/ IR
Chemical Oxygen Demand	EPA 410.4	77.0	mg/L		09/30/2011	14:13	6.03	20.0	AC
Total Organic Carbon	SM 5310C	30.8	mg/L		09/28/2011	20:14	0.072	0.500	EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
<u>Analysis Department:</u>		<u>FIELD</u>							
Field pH	FIELD	7.07	Std. units		09/19/2011	09:10	0.010		PMITCHELL
Field Temperature	FIELD	24.8	Degrees C		09/19/2011	09:10	0.01		PMITCHELL
<u>Analysis Department:</u>		<u>METALS</u>							
Metals by 200.7									
Antimony	EPA 200.7	<0.0039	mg/L	U	11/01/2011	12:28	0.0039	0.005	KMH
Arsenic	EPA 200.7	0.021	mg/L		11/01/2011	12:28	0.0038	0.005	KMH
Barium	EPA 200.7	0.013	mg/L		11/01/2011	12:28	0.0002	0.005	KMH
Beryllium	EPA 200.7	<0.00004	mg/L	U	11/01/2011	12:28	0.00004	0.005	KMH
Cadmium	EPA 200.7	0.034	mg/L		11/01/2011	12:28	0.0004	0.005	KMH
Calcium	EPA 200.7	39.6	mg/L		11/01/2011	12:28	0.017	1.00	KMH
Chromium	EPA 200.7	0.0015	mg/L	I	11/01/2011	12:28	0.0007	0.005	KMH
Cobalt	EPA 200.7	<0.0003	mg/L	U	11/01/2011	12:28	0.0003	0.005	KMH
Copper	EPA 200.7	<0.0009	mg/L	U	11/01/2011	12:28	0.0009	0.005	KMH
Iron	EPA 200.7	3.32	mg/L		11/01/2011	12:28	0.046	0.125	KMH
Lead	EPA 200.7	<0.0017	mg/L	U	11/01/2011	12:28	0.0017	0.005	KMH
Magnesium	EPA 200.7	10.8	mg/L		11/01/2011	12:28	0.028	1.00	KMH
Nickel	EPA 200.7	0.0019	mg/L	I	11/01/2011	12:28	0.0002	0.005	KMH
Selenium	EPA 200.7	<0.0046	mg/L	U	11/01/2011	12:28	0.0046	0.005	KMH
Silver	EPA 200.7	<0.0007	mg/L	U	11/01/2011	12:28	0.0007	0.005	KMH
Thallium	EPA 200.7	0.019	mg/L		11/01/2011	12:28	0.0016	0.005	KMH
Vanadium	EPA 200.7	0.0021	mg/L	I	11/01/2011	12:28	0.0005	0.005	KMH
Zinc	EPA 200.7	0.0030	mg/L	I	11/01/2011	12:28	0.0029	0.005	KMH
Total Hardness	SM 2340 B	143	mg/L		11/07/2011	15:35			JAG
<u>Analysis Department:</u>		<u>MICROBIOLOGY</u>							
Fecal Coliforms	SM 9222D	3200	cfu/100 ml		09/19/2011	12:28	1		EMM/AC
<u>Analysis Department:</u>		<u>NUTRIENTS</u>							
Ammonia	EPA 350.1	0.362	mg/L		09/26/2011	15:16	0.018	0.050	AC
Total Kjeldahl Nitrogen	EPA 351.2	1.80	mg/L		09/27/2011	14:24	0.044	0.100	AC
Total Nitrogen	Calculation	2.00	mg/L		09/29/2011	15:24			JAG
Total Phosphate as P	EPA 365.3	0.601	mg/L		09/20/2011	13:09	0.003	0.010	EMM
Unionized Ammonia	DEP SOP 10/3/83	0.00288	mg/L		09/27/2011	16:15			JAG
<u>Analysis Department:</u>		<u>SOLIDS</u>							
Total Dissolved Solids	SM 2540 C	306	mg/L		09/20/2011	11:38	10.0	10.0	KEB/ IR

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Total Suspended Solids	SM 2540 D	9.20	mg/L	U	09/20/2011	08:00	1.00	5.00	KEB

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
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Batch Name: SICPWATER-22926

QA Sample ID: AE41115

Samples AE39933 AE39934 AE39935 AE39936

Method Blank for Metals by 200.7

Aluminum		<0.039	mg/L	U	11/01/2011 11:10			KMH
Antimony		<0.0039	mg/L	U	11/01/2011 11:10			KMH
Arsenic		<0.0038	mg/L	U	11/01/2011 11:10			KMH
Barium		<0.0002	mg/L	U	11/01/2011 11:10			KMH
Beryllium		<0.00004	mg/L	U	11/01/2011 11:10			KMH
Cadmium		<0.0004	mg/L	U	11/01/2011 11:10			KMH
Calcium		<0.017	mg/L	U	11/01/2011 11:10			KMH
Chromium		<0.0007	mg/L	U	11/01/2011 11:10			KMH
Cobalt		<0.0003	mg/L	U	11/01/2011 11:10			KMH
Copper		<0.0009	mg/L	U	11/01/2011 11:10			KMH
Iron		<0.046	mg/L	U	11/01/2011 11:10			KMH
Lead		<0.0017	mg/L	U	11/01/2011 11:10			KMH
Magnesium		<0.028	mg/L	U	11/01/2011 11:10			KMH
Manganese		<0.0004	mg/L	U	11/01/2011 11:10			KMH
Molybdenum		<0.0006	mg/L	U	11/01/2011 11:10			KMH
Nickel		0.0005	mg/L	I	11/01/2011 11:10			KMH
Potassium		<0.071	mg/L	U	11/01/2011 11:10			KMH
Selenium		<0.0046	mg/L	U	11/01/2011 11:10			KMH
Silver		<0.0007	mg/L	U	11/01/2011 11:10			KMH
Sodium		0.026	mg/L	I	11/01/2011 11:10			KMH
Thallium		<0.0016	mg/L	U	11/01/2011 11:10			KMH
Tin		<0.0017	mg/L	U	11/01/2011 11:10			KMH
Titanium		<0.0001	mg/L	U	11/01/2011 11:10			KMH
Vanadium		<0.0005	mg/L	U	11/01/2011 11:10			KMH
Zinc		<0.0029	mg/L	U	11/01/2011 11:10			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
Int Calb Rec for Metals by 200.7									
Aluminum		105	%		11/01/2011	10:19			KMH
Antimony		99.1	%		11/01/2011	10:19			KMH
Arsenic		98.2	%		11/01/2011	10:19			KMH
Barium		105	%		11/01/2011	10:19			KMH
Beryllium		105	%		11/01/2011	10:19			KMH
Cadmium		104	%		11/01/2011	10:19			KMH
Calcium		99.4	%		11/01/2011	10:19			KMH
Chromium		104	%		11/01/2011	10:19			KMH
Cobalt		105	%		11/01/2011	10:19			KMH
Copper		104	%		11/01/2011	10:19			KMH
Iron		103	%		11/01/2011	10:19			KMH
Lead		105	%		11/01/2011	10:19			KMH
Magnesium		101	%		11/01/2011	10:19			KMH
Manganese		105	%		11/01/2011	10:19			KMH
Molybdenum		101	%		11/01/2011	10:19			KMH
Nickel		105	%		11/01/2011	10:19			KMH
Potassium		102	%		11/01/2011	10:19			KMH
Selenium		105	%		11/01/2011	10:19			KMH
Silver		101	%		11/01/2011	10:19			KMH
Sodium		101	%		11/01/2011	10:19			KMH
Thallium		105	%		11/01/2011	10:19			KMH
Tin		104	%		11/01/2011	10:19			KMH
Titanium		104	%		11/01/2011	10:19			KMH
Vanadium		102	%		11/01/2011	10:19			KMH
Zinc		105	%		11/01/2011	10:19			KMH

LCS Recovery for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
LCS Recovery for Metals by 200.7									
Aluminum		101	%		11/01/2011	11:23			KMH
Antimony		96.0	%		11/01/2011	11:23			KMH
Arsenic		97.4	%		11/01/2011	11:23			KMH
Barium		99.4	%		11/01/2011	11:23			KMH
Beryllium		100	%		11/01/2011	11:23			KMH
Cadmium		101	%		11/01/2011	11:23			KMH
Calcium		103	%		11/01/2011	11:23			KMH
Chromium		99.0	%		11/01/2011	11:23			KMH
Cobalt		99.2	%		11/01/2011	11:23			KMH
Copper		99.6	%		11/01/2011	11:23			KMH
Iron		101	%		11/01/2011	11:23			KMH
Lead		100	%		11/01/2011	11:23			KMH
Magnesium		102	%		11/01/2011	11:23			KMH
Manganese		104	%		11/01/2011	11:23			KMH
Molybdenum		105	%		11/01/2011	11:23			KMH
Nickel		99.2	%		11/01/2011	11:23			KMH
Potassium		101	%		11/01/2011	11:23			KMH
Selenium		95.6	%		11/01/2011	11:23			KMH
Silver		98.8	%		11/01/2011	11:23			KMH
Sodium		102	%		11/01/2011	11:23			KMH
Thallium		101	%		11/01/2011	11:23			KMH
Tin		103	%		11/01/2011	11:23			KMH
Titanium		91.4	%		11/01/2011	11:23			KMH
Vanadium		99.8	%		11/01/2011	11:23			KMH
Zinc		101	%		11/01/2011	11:23			KMH

MS Result for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
MS Result for Metals by 200.7									
Aluminum		10.1	mg/L		11/01/2011	11:46			KMH
Antimony		0.470	mg/L		11/01/2011	11:46			KMH
Arsenic		0.532	mg/L		11/01/2011	11:46			KMH
Barium		0.486	mg/L		11/01/2011	11:46			KMH
Beryllium		0.501	mg/L		11/01/2011	11:46			KMH
Cadmium		0.793	mg/L		11/01/2011	11:46			KMH
Calcium		127	mg/L		11/01/2011	11:46			KMH
Chromium		0.483	mg/L		11/01/2011	11:46			KMH
Cobalt		0.494	mg/L		11/01/2011	11:46			KMH
Copper		0.499	mg/L		11/01/2011	11:46			KMH
Iron		6.68	mg/L		11/01/2011	11:46			KMH
Lead		0.460	mg/L		11/01/2011	11:46			KMH
Magnesium		81.9	mg/L		11/01/2011	11:46			KMH
Manganese		0.530	mg/L		11/01/2011	11:46			KMH
Molybdenum		0.519	mg/L		11/01/2011	11:46			KMH
Nickel		0.496	mg/L		11/01/2011	11:46			KMH
Potassium		29.0	mg/L		11/01/2011	11:46			KMH
Selenium		0.502	mg/L		11/01/2011	11:46			KMH
Silver		0.493	mg/L		11/01/2011	11:46			KMH
Sodium		285	mg/L		11/01/2011	11:46			KMH
Thallium		0.533	mg/L		11/01/2011	11:46			KMH
Tin		0.706	mg/L		11/01/2011	11:46			KMH
Titanium		0.462	mg/L		11/01/2011	11:46			KMH
Vanadium		0.506	mg/L		11/01/2011	11:46			KMH
Zinc		0.512	mg/L		11/01/2011	11:46			KMH

MS Recovery for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
MS Recovery for Metals by 200.7									
Aluminum		96.2	%		11/01/2011	11:37			KMH
Antimony		94.0	%		11/01/2011	11:37			KMH
Arsenic		100	%		11/01/2011	11:37			KMH
Barium		95.4	%		11/01/2011	11:37			KMH
Beryllium		100	%		11/01/2011	11:37			KMH
Cadmium		121	%		11/01/2011	11:37			KMH
Calcium		98.0	%		11/01/2011	11:37			KMH
Chromium		95.9	%		11/01/2011	11:37			KMH
Cobalt		98.8	%		11/01/2011	11:37			KMH
Copper		99.5	%		11/01/2011	11:37			KMH
Iron		98.0	%		11/01/2011	11:37			KMH
Lead		92.0	%		11/01/2011	11:37			KMH
Magnesium		98.2	%		11/01/2011	11:37			KMH
Manganese		101	%		11/01/2011	11:37			KMH
Molybdenum		101	%		11/01/2011	11:37			KMH
Nickel		98.7	%		11/01/2011	11:37			KMH
Potassium		100	%		11/01/2011	11:37			KMH
Selenium		100	%		11/01/2011	11:37			KMH
Silver		98.4	%		11/01/2011	11:37			KMH
Sodium		93.5	%		11/01/2011	11:37			KMH
Thallium		99.0	%		11/01/2011	11:37			KMH
Tin		114	%		11/01/2011	11:37			KMH
Titanium		92.4	%		11/01/2011	11:37			KMH
Vanadium		100	%		11/01/2011	11:37			KMH
Zinc		100	%		11/01/2011	11:37			KMH

MS/MSD Precision for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
MS/MSD Precision for Metals by 200.7									
Aluminum		0.00	%		11/01/2011	11:46			KMH
Antimony		1.72	%		11/01/2011	11:46			KMH
Arsenic		0.749	%		11/01/2011	11:46			KMH
Barium		0.615	%		11/01/2011	11:46			KMH
Beryllium		0.199	%		11/01/2011	11:46			KMH
Cadmium		0.879	%		11/01/2011	11:46			KMH
Calcium		0.790	%		11/01/2011	11:46			KMH
Chromium		0.413	%		11/01/2011	11:46			KMH
Cobalt		0.00	%		11/01/2011	11:46			KMH
Copper		0.599	%		11/01/2011	11:46			KMH
Iron		0.150	%		11/01/2011	11:46			KMH
Lead		0.436	%		11/01/2011	11:46			KMH
Magnesium		0.122	%		11/01/2011	11:46			KMH
Manganese		0.188	%		11/01/2011	11:46			KMH
Molybdenum		0.386	%		11/01/2011	11:46			KMH
Nickel		3.70	%		11/01/2011	11:46			KMH
Potassium		0.345	%		11/01/2011	11:46			KMH
Selenium		4.69	%		11/01/2011	11:46			KMH
Silver		0.203	%		11/01/2011	11:46			KMH
Sodium		0.00	%		11/01/2011	11:46			KMH
Thallium		1.51	%		11/01/2011	11:46			KMH
Tin		0.568	%		11/01/2011	11:46			KMH
Titanium		1.29	%		11/01/2011	11:46			KMH
Vanadium		0.197	%		11/01/2011	11:46			KMH
Zinc		0.391	%		11/01/2011	11:46			KMH

CCV Rec for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
CCV Rec for Metals by 200.7									
Aluminum		102	%		11/01/2011	12:40			KMH
Antimony		93.9	%		11/01/2011	12:40			KMH
Arsenic		97.4	%		11/01/2011	12:40			KMH
Barium		99.6	%		11/01/2011	12:40			KMH
Beryllium		103	%		11/01/2011	12:40			KMH
Cadmium		102	%		11/01/2011	12:40			KMH
Calcium		101	%		11/01/2011	12:40			KMH
Chromium		99.5	%		11/01/2011	12:40			KMH
Cobalt		98.4	%		11/01/2011	12:40			KMH
Copper		100	%		11/01/2011	12:40			KMH
Iron		100	%		11/01/2011	12:40			KMH
Lead		98.5	%		11/01/2011	12:40			KMH
Magnesium		101	%		11/01/2011	12:40			KMH
Manganese		99.2	%		11/01/2011	12:40			KMH
Molybdenum		104	%		11/01/2011	12:40			KMH
Nickel		98.4	%		11/01/2011	12:40			KMH
Potassium		103	%		11/01/2011	12:40			KMH
Selenium		94.8	%		11/01/2011	12:40			KMH
Silver		98.6	%		11/01/2011	12:40			KMH
Sodium		100	%		11/01/2011	12:40			KMH
Thallium		99.3	%		11/01/2011	12:40			KMH
Tin		101	%		11/01/2011	12:40			KMH
Titanium		107	%		11/01/2011	12:40			KMH
Vanadium		101	%		11/01/2011	12:40			KMH
Zinc		98.8	%		11/01/2011	12:40			KMH

Cont Blank for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples AE39933 AE39934 AE39935 AE39936									
Cont Blank for Metals by 200.7									
Aluminum		<0.039	mg/L	U	11/01/2011	12:58			KMH
Antimony		<0.0039	mg/L	U	11/01/2011	12:58			KMH
Arsenic		<0.0038	mg/L	U	11/01/2011	12:58			KMH
Barium		<0.0002	mg/L	U	11/01/2011	12:58			KMH
Beryllium		<0.00004	mg/L	U	11/01/2011	12:58			KMH
Cadmium		<0.0004	mg/L	U	11/01/2011	12:58			KMH
Calcium		<0.017	mg/L	U	11/01/2011	12:58			KMH
Chromium		<0.0007	mg/L	U	11/01/2011	12:58			KMH
Cobalt		<0.0003	mg/L	U	11/01/2011	12:58			KMH
Copper		<0.0009	mg/L	U	11/01/2011	12:58			KMH
Iron		<0.046	mg/L	U	11/01/2011	12:58			KMH
Lead		<0.0017	mg/L	U	11/01/2011	12:58			KMH
Magnesium		<0.028	mg/L	U	11/01/2011	12:58			KMH
Manganese		<0.0004	mg/L	U	11/01/2011	12:58			KMH
Molybdenum		<0.0006	mg/L	U	11/01/2011	12:58			KMH
Nickel		0.0003	mg/L	I	11/01/2011	12:58			KMH
Potassium		<0.071	mg/L	U	11/01/2011	12:58			KMH
Selenium		<0.0046	mg/L	U	11/01/2011	12:58			KMH
Silver		<0.0007	mg/L	U	11/01/2011	12:58			KMH
Sodium		0.047	mg/L	I	11/01/2011	12:58			KMH
Thallium		<0.0016	mg/L	U	11/01/2011	12:58			KMH
Tin		<0.0017	mg/L	U	11/01/2011	12:58			KMH
Titanium		<0.0001	mg/L	U	11/01/2011	12:58			KMH
Vanadium		<0.0005	mg/L	U	11/01/2011	12:58			KMH
Zinc		<0.0029	mg/L	U	11/01/2011	12:58			KMH

CCV for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
CCV for Metals by 200.7									
Aluminum		21.4	mg/L		11/01/2011	12:40			KMH
Antimony		0.939	mg/L		11/01/2011	12:40			KMH
Arsenic		0.974	mg/L		11/01/2011	12:40			KMH
Barium		0.996	mg/L		11/01/2011	12:40			KMH
Beryllium		1.03	mg/L		11/01/2011	12:40			KMH
Cadmium		1.02	mg/L		11/01/2011	12:40			KMH
Calcium		101	mg/L		11/01/2011	12:40			KMH
Chromium		0.995	mg/L		11/01/2011	12:40			KMH
Cobalt		0.984	mg/L		11/01/2011	12:40			KMH
Copper		1.00	mg/L		11/01/2011	12:40			KMH
Iron		12.5	mg/L		11/01/2011	12:40			KMH
Lead		0.985	mg/L		11/01/2011	12:40			KMH
Magnesium		101	mg/L		11/01/2011	12:40			KMH
Manganese		0.496	mg/L		11/01/2011	12:40			KMH
Molybdenum		1.04	mg/L		11/01/2011	12:40			KMH
Nickel		0.984	mg/L		11/01/2011	12:40			KMH
Potassium		25.8	mg/L		11/01/2011	12:40			KMH
Selenium		0.948	mg/L		11/01/2011	12:40			KMH
Silver		0.493	mg/L		11/01/2011	12:40			KMH
Sodium		200	mg/L		11/01/2011	12:40			KMH
Thallium		0.993	mg/L		11/01/2011	12:40			KMH
Tin		1.01	mg/L		11/01/2011	12:40			KMH
Titanium		1.07	mg/L		11/01/2011	12:40			KMH
Vanadium		1.01	mg/L		11/01/2011	12:40			KMH
Zinc		0.988	mg/L		11/01/2011	12:40			KMH

Initial Calibration for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
Initial Calibration for Metals by 200.7									
Aluminum		1.05	mg/L		11/01/2011	10:19			KMH
Antimony		0.991	mg/L		11/01/2011	10:19			KMH
Arsenic		0.982	mg/L		11/01/2011	10:19			KMH
Barium		1.05	mg/L		11/01/2011	10:19			KMH
Beryllium		1.05	mg/L		11/01/2011	10:19			KMH
Cadmium		1.04	mg/L		11/01/2011	10:19			KMH
Calcium		49.7	mg/L		11/01/2011	10:19			KMH
Chromium		1.04	mg/L		11/01/2011	10:19			KMH
Cobalt		1.05	mg/L		11/01/2011	10:19			KMH
Copper		1.04	mg/L		11/01/2011	10:19			KMH
Iron		12.9	mg/L		11/01/2011	10:19			KMH
Lead		1.05	mg/L		11/01/2011	10:19			KMH
Magnesium		50.5	mg/L		11/01/2011	10:19			KMH
Manganese		1.05	mg/L		11/01/2011	10:19			KMH
Molybdenum		1.01	mg/L		11/01/2011	10:19			KMH
Nickel		1.05	mg/L		11/01/2011	10:19			KMH
Potassium		25.4	mg/L		11/01/2011	10:19			KMH
Selenium		1.05	mg/L		11/01/2011	10:19			KMH
Silver		0.252	mg/L		11/01/2011	10:19			KMH
Sodium		101	mg/L		11/01/2011	10:19			KMH
Thallium		1.05	mg/L		11/01/2011	10:19			KMH
Tin		1.04	mg/L		11/01/2011	10:19			KMH
Titanium		1.04	mg/L		11/01/2011	10:19			KMH
Vanadium		1.02	mg/L		11/01/2011	10:19			KMH
Zinc		1.05	mg/L		11/01/2011	10:19			KMH

Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
Metals by 200.7									
Aluminum		<0.039	mg/L	U	11/01/2011	11:37			KMH
Antimony		<0.0038	mg/L	U	11/01/2011	11:37			KMH
Arsenic		0.031	mg/L		11/01/2011	11:37			KMH
Barium		0.009	mg/L		11/01/2011	11:37			KMH
Beryllium		<0.00004	mg/L	U	11/01/2011	11:37			KMH
Cadmium		0.190	mg/L		11/01/2011	11:37			KMH
Calcium		77.5	mg/L		11/01/2011	11:37			KMH
Chromium		0.0034	mg/L	I	11/01/2011	11:37			KMH
Cobalt		<0.0003	mg/L	U	11/01/2011	11:37			KMH
Copper		0.0014	mg/L	I	11/01/2011	11:37			KMH
Iron		0.068	mg/L		11/01/2011	11:37			KMH
Lead		<0.0017	mg/L	U	11/01/2011	11:37			KMH
Magnesium		32.3	mg/L		11/01/2011	11:37			KMH
Manganese		0.026	mg/L		11/01/2011	11:37			KMH
Molybdenum		0.012	mg/L		11/01/2011	11:37			KMH
Nickel		0.0025	mg/L	I	11/01/2011	11:37			KMH
Potassium		16.0	mg/L		11/01/2011	11:37			KMH
Selenium		<0.0046	mg/L	U	11/01/2011	11:37			KMH
Silver		0.0011	mg/L	I	11/01/2011	11:37			KMH
Sodium		191	mg/L		11/01/2011	11:37			KMH
Thallium		0.038	mg/L		11/01/2011	11:37			KMH
Tin		0.134	mg/L		11/01/2011	11:37			KMH
Titanium		<0.0001	mg/L	U	11/01/2011	11:37			KMH
Vanadium		0.0038	mg/L	I	11/01/2011	11:37			KMH
Zinc		0.012	mg/L		11/01/2011	11:37			KMH

LCS for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
LCS for Metals by 200.7									
Aluminum		10.6	mg/L		11/01/2011	11:23			KMH
Antimony		0.480	mg/L		11/01/2011	11:23			KMH
Arsenic		0.487	mg/L		11/01/2011	11:23			KMH
Barium		0.497	mg/L		11/01/2011	11:23			KMH
Beryllium		0.501	mg/L		11/01/2011	11:23			KMH
Cadmium		0.507	mg/L		11/01/2011	11:23			KMH
Calcium		10.8	mg/L		11/01/2011	11:23			KMH
Chromium		0.495	mg/L		11/01/2011	11:23			KMH
Cobalt		0.496	mg/L		11/01/2011	11:23			KMH
Copper		0.498	mg/L		11/01/2011	11:23			KMH
Iron		10.6	mg/L		11/01/2011	11:23			KMH
Lead		0.500	mg/L		11/01/2011	11:23			KMH
Magnesium		10.7	mg/L		11/01/2011	11:23			KMH
Manganese		0.522	mg/L		11/01/2011	11:23			KMH
Molybdenum		0.523	mg/L		11/01/2011	11:23			KMH
Nickel		0.496	mg/L		11/01/2011	11:23			KMH
Potassium		10.6	mg/L		11/01/2011	11:23			KMH
Selenium		0.478	mg/L		11/01/2011	11:23			KMH
Silver		0.494	mg/L		11/01/2011	11:23			KMH
Sodium		10.7	mg/L		11/01/2011	11:23			KMH
Thallium		0.505	mg/L		11/01/2011	11:23			KMH
Tin		0.515	mg/L		11/01/2011	11:23			KMH
Titanium		0.457	mg/L		11/01/2011	11:23			KMH
Vanadium		0.499	mg/L		11/01/2011	11:23			KMH
Zinc		0.503	mg/L		11/01/2011	11:23			KMH

RB for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
RB for Metals by 200.7									
Aluminum		<0.039	mg/L	U	11/01/2011	11:14			KMH
Antimony		<0.0039	mg/L	U	11/01/2011	11:14			KMH
Arsenic		<0.0038	mg/L	U	11/01/2011	11:14			KMH
Barium		<0.0002	mg/L	U	11/01/2011	11:14			KMH
Beryllium		<0.00004	mg/L	U	11/01/2011	11:14			KMH
Cadmium		<0.0004	mg/L	U	11/01/2011	11:14			KMH
Calcium		<0.017	mg/L	U	11/01/2011	11:14			KMH
Chromium		<0.0007	mg/L	U	11/01/2011	11:14			KMH
Cobalt		<0.0003	mg/L	U	11/01/2011	11:14			KMH
Copper		<0.0009	mg/L	U	11/01/2011	11:14			KMH
Iron		<0.046	mg/L	U	11/01/2011	11:14			KMH
Lead		<0.0017	mg/L	U	11/01/2011	11:14			KMH
Magnesium		<0.028	mg/L	U	11/01/2011	11:14			KMH
Manganese		<0.0004	mg/L	U	11/01/2011	11:14			KMH
Molybdenum		<0.0006	mg/L	U	11/01/2011	11:14			KMH
Nickel		<0.0002	mg/L	U	11/01/2011	11:14			KMH
Potassium		<0.071	mg/L	U	11/01/2011	11:14			KMH
Selenium		<0.0046	mg/L	U	11/01/2011	11:14			KMH
Silver		<0.0007	mg/L	U	11/01/2011	11:14			KMH
Sodium		0.022	mg/L	I	11/01/2011	11:14			KMH
Thallium		0.0038	mg/L	I	11/01/2011	11:14			KMH
Tin		0.0019	mg/L	I	11/01/2011	11:14			KMH
Titanium		<0.0001	mg/L	U	11/01/2011	11:14			KMH
Vanadium		<0.0005	mg/L	U	11/01/2011	11:14			KMH
Zinc		<0.0029	mg/L	U	11/01/2011	11:14			KMH

MSD Recovery for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples AE39933 AE39934 AE39935 AE39936									
MSD Recovery for Metals by 200.7									
Aluminum		96.2	%		11/01/2011	11:37			KMH
Antimony		92.4	%		11/01/2011	11:37			KMH
Arsenic		101	%		11/01/2011	11:37			KMH
Barium		96.0	%		11/01/2011	11:37			KMH
Beryllium		100	%		11/01/2011	11:37			KMH
Cadmium		122	%		11/01/2011	11:37			KMH
Calcium		96.0	%		11/01/2011	11:37			KMH
Chromium		96.3	%		11/01/2011	11:37			KMH
Cobalt		98.8	%		11/01/2011	11:37			KMH
Copper		100	%		11/01/2011	11:37			KMH
Iron		97.8	%		11/01/2011	11:37			KMH
Lead		91.6	%		11/01/2011	11:37			KMH
Magnesium		98.4	%		11/01/2011	11:37			KMH
Manganese		101	%		11/01/2011	11:37			KMH
Molybdenum		101	%		11/01/2011	11:37			KMH
Nickel		95.1	%		11/01/2011	11:37			KMH
Potassium		99.2	%		11/01/2011	11:37			KMH
Selenium		95.8	%		11/01/2011	11:37			KMH
Silver		98.6	%		11/01/2011	11:37			KMH
Sodium		93.5	%		11/01/2011	11:37			KMH
Thallium		97.4	%		11/01/2011	11:37			KMH
Tin		114	%		11/01/2011	11:37			KMH
Titanium		93.6	%		11/01/2011	11:37			KMH
Vanadium		101	%		11/01/2011	11:37			KMH
Zinc		99.6	%		11/01/2011	11:37			KMH

MSD Result for Metals by 200.7

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: SICPWATER-22926		QA Sample ID: AE41115							
Samples	AE39933 AE39934 AE39935 AE39936								
MSD Result for Metals by 200.7									
Aluminum		10.1	mg/L		11/01/2011	11:51			KMH
Antimony		0.462	mg/L		11/01/2011	11:51			KMH
Arsenic		0.536	mg/L		11/01/2011	11:51			KMH
Barium		0.489	mg/L		11/01/2011	11:51			KMH
Beryllium		0.502	mg/L		11/01/2011	11:51			KMH
Cadmium		0.800	mg/L		11/01/2011	11:51			KMH
Calcium		126	mg/L		11/01/2011	11:51			KMH
Chromium		0.485	mg/L		11/01/2011	11:51			KMH
Cobalt		0.494	mg/L		11/01/2011	11:51			KMH
Copper		0.502	mg/L		11/01/2011	11:51			KMH
Iron		6.67	mg/L		11/01/2011	11:51			KMH
Lead		0.458	mg/L		11/01/2011	11:51			KMH
Magnesium		82.0	mg/L		11/01/2011	11:51			KMH
Manganese		0.531	mg/L		11/01/2011	11:51			KMH
Molybdenum		0.517	mg/L		11/01/2011	11:51			KMH
Nickel		0.478	mg/L		11/01/2011	11:51			KMH
Potassium		28.9	mg/L		11/01/2011	11:51			KMH
Selenium		0.479	mg/L		11/01/2011	11:51			KMH
Silver		0.494	mg/L		11/01/2011	11:51			KMH
Sodium		285	mg/L		11/01/2011	11:51			KMH
Thallium		0.525	mg/L		11/01/2011	11:51			KMH
Tin		0.702	mg/L		11/01/2011	11:51			KMH
Titanium		0.468	mg/L		11/01/2011	11:51			KMH
Vanadium		0.507	mg/L		11/01/2011	11:51			KMH
Zinc		0.510	mg/L		11/01/2011	11:51			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: AMM-22703		QA Sample ID: AE41104							
Samples AE39934									
Ammonia		31.7	mg/L		09/14/2011	12:40			AC
Sample Dup for Ammonia		30.8	mg/L		09/14/2011	12:40			AC
Dup Precision for Ammonia		2.88	%		09/14/2011	12:40			AC
Amt Spiked for Ammonia		50.0	mg/L		09/14/2011	12:40			AC
MS Result for Ammonia		80.4	mg/L		09/14/2011	12:40			AC
MS Recovery for Ammonia		97.4	%		09/14/2011	12:40			AC
Cont Calb Rec for Ammonia		97.2	%		09/14/2011	12:40			AC
Continuing Cal. Blank for Ammonia		<0.018	mg/L	U	09/14/2011	12:40			AC
Method Blank for Ammonia		<0.018	mg/L	U	09/14/2011	12:40			AC
Continuous Calibration for Ammonia		0.972	mg/L		09/14/2011	12:40			AC
ICV for Ammonia		0.510	mg/L		09/14/2011	12:40			AC
ICV Rec for Ammonia		102	%		09/14/2011	12:40			AC
Batch Name: AMM-22805		QA Sample ID: AE41239							
Samples AE39933									
Ammonia		25.1	mg/L		09/27/2011	12:35			AC
Sample Dup for Ammonia		25.2	mg/L		09/27/2011	12:35			AC
Dup Precision for Ammonia		0.398	%		09/27/2011	12:35			AC
Amt Spiked for Ammonia		50.0	mg/L		09/27/2011	12:35			AC
MS Result for Ammonia		75.5	mg/L		09/27/2011	12:35			AC
MS Recovery for Ammonia		101	%		09/27/2011	12:35			AC
Cont Calb Rec for Ammonia		101	%		09/27/2011	12:35			AC
Continuing Cal. Blank for Ammonia		<0.018	mg/L	U	09/27/2011	12:35			AC
Method Blank for Ammonia		<0.018	mg/L	U	09/27/2011	12:35			AC
Continuous Calibration for Ammonia		1.01	mg/L		09/27/2011	12:35			AC
ICV for Ammonia		0.501	mg/L		09/27/2011	12:35			AC
ICV Rec for Ammonia		100	%		09/27/2011	12:35			AC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: AMM-22806		QA Sample ID: AE41249							
Samples AE39935 AE39936									
Ammonia		34.2	mg/L		09/27/2011	12:35			AC
Sample Dup for Ammonia		33.9	mg/L		09/27/2011	12:35			AC
Dup Precision for Ammonia		0.881	%		09/27/2011	12:35			AC
Amt Spiked for Ammonia		50.0	mg/L		09/27/2011	12:35			AC
MS Result for Ammonia		85.9	mg/L		09/27/2011	12:35			AC
MS Recovery for Ammonia		103	%		09/27/2011	12:35			AC
Cont Calb Rec for Ammonia		100	%		09/27/2011	12:35			AC
Continuing Cal. Blank for Ammonia		<0.018	mg/L	U	09/27/2011	12:35			AC
Continuous Calibration for Ammonia		1.00	mg/L		09/27/2011	12:35			AC

Batch Name: CBOD-22710

QA Sample ID: AE39934

Samples AE39934

Method Blank for Carbonaceous BOD (5 day)		<0.200	mg/L	U	09/18/2011	10:10			KEB/EMM
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.								
Carbonaceous BOD (5 day)		<2.00	mg/L	U,J	09/18/2011	10:10			KEB/EMM
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.								
Sample Dup for CBOD		<2.00	mg/L	U	09/18/2011	10:10			KEB/EMM
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.								
Initial Calibration for CBOD		209	mg/L		09/18/2011	10:10			KEB/EMM
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.								
Int Calb Rec for CBOD		106	%		09/18/2011	10:10			KEB/EMM
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.								
Samp Dup Precision for CBOD		PASSED	%		09/18/2011	10:10			KEB/EMM
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.								

Batch Name: CBOD-22754

QA Sample ID: AE41221

Samples AE39933 AE39935 AE39936

Method Blank for Carbonaceous BOD (5 day)		<0.200	mg/L	U	09/24/2011	11:46			EMM/ IR
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Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name: CBOD-22754		QA Sample ID: AE41221						
Samples	AE39933 AE39935 AE39936							
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.							
Carbonaceous BOD (5 day)		76.0	mg/L		09/24/2011 11:46			EMM/ IR
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.							
Sample Dup for CBOD		82.7	mg/L		09/24/2011 11:46			EMM/ IR
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.							
Initial Calibration for CBOD		200	mg/L		09/24/2011 11:46			EMM/ IR
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.							
Int Calb Rec for CBOD		101	%		09/24/2011 11:46			EMM/ IR
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.							
Samp Dup Precision for CBOD		8.44	%		09/24/2011 11:46			EMM/ IR
Analysis Comments:	J Qualifier:data is questionable due to improper laboratory protocol (temperature of the DO meter initial calibration out of acceptable range/22.22 degree C) .Initial pH of the dilution water out of acceptable range.							

Batch Name: COD-22838

QA Sample ID: AE41111

Samples AE39934

Amt Spiked for COD	500	mg/L			09/29/2011 14:57			AC
Method Blank for COD	<6.03	mg/L		U	09/29/2011 14:57			AC
CCB for COD	<6.03	mg/L		U	09/29/2011 14:57			AC
CCVfor COD	993	mg/L			09/29/2011 14:57			AC
CCV Conc for COD	1000	mg/L			09/29/2011 14:57			AC
CCV Rec for COD	99.3	%			09/29/2011 14:57			AC
Chemical Oxygen Demand	280	mg/L			09/29/2011 14:57			AC
Sample Dup for COD	273	mg/L			09/29/2011 14:57			AC
ICV for COD	312	mg/L			09/29/2011 14:57			AC
ICV Conc for COD	295	mg/L			09/29/2011 14:57			AC
ICV Rec for COD	106	%			09/29/2011 14:57			AC
Samp Dup Precision for COD	2.53	%			09/29/2011 14:57			AC
MS Recovery for COD	94.4	%			09/29/2011 14:57			AC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: COD-22838		QA Sample ID: AE41111							
Samples AE39934									
MS Result for COD		752	mg/L		09/29/2011	14:57			AC
Batch Name: COD-22845		QA Sample ID: AE41188							
Samples AE39933 AE39935 AE39936									
Amt Spiked for COD		500	mg/L		10/04/2011	08:02			AC
Method Blank for COD		<6.03	mg/L	U	10/04/2011	08:02			AC
CCB for COD		<6.03	mg/L	U	10/04/2011	08:02			AC
CCVfor COD		1040	mg/L		10/04/2011	08:02			AC
CCV Conc for COD		1000	mg/L		10/04/2011	08:02			AC
CCV Rec for COD		104	%		10/04/2011	08:02			AC
Chemical Oxygen Demand		336	mg/L		10/04/2011	08:02			AC
Sample Dup for COD		341	mg/L		10/04/2011	08:02			AC
ICV for COD		323	mg/L		10/04/2011	08:02			AC
ICV Conc for COD		295	mg/L		10/04/2011	08:02			AC
ICV Rec for COD		109	%		10/04/2011	08:02			AC
Samp Dup Precision for COD		1.48	%		10/04/2011	08:02			AC
MS Recovery for COD		98.2	%		10/04/2011	08:02			AC
MS Result for COD		827	mg/L		10/04/2011	08:02			AC
Batch Name: FC-22693		QA Sample ID: AE39934							
Samples AE39934									
Method Blank for Fecal Coliforms		<1	cfu/100 ml	U	09/13/2011	10:00			AC/EMM
Cont. Cal. Blank for Fecal Coliforms		<1	cfu/100 ml	U	09/13/2011	10:00			AC/EMM
Sample Dup for Fecal Coliforms		180	cfu/100 ml		09/15/2011	10:00			AC/EMM
Fecal Coliforms		150	cfu/100 ml		09/15/2011	10:00			AC/EMM
Samp Dup Precision for Fecal Coliforms		Pass	%		09/15/2011	10:00			AC/EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: FC-22767		QA Sample ID: AE39933							
Samples	AE39933 AE39935 AE39936								
Method Blank for Fecal Coliforms		<1	cfu/100 ml	U	09/20/2011	12:35			EMM/AC
Cont. Cal. Blank for Fecal Coliforms		<1	cfu/100 ml	U	09/20/2011	12:35			EMM/AC
Sample Dup for Fecal Coliforms		3200	cfu/100 ml		09/22/2011	15:38			EMM/AC
Fecal Coliforms		3700	cfu/100 ml		09/22/2011	15:38			EMM/AC
Samp Dup Precision for Fecal Coliforms		Pass	%		09/22/2011	15:38			EMM/AC
Batch Name: NO2IC-22704		QA Sample ID: AE41092							
Samples	AE39934								
Amt Spiked for Nitrite		2.50	mg/L		09/13/2011	16:39			KMH
Method Blank for Nitrite		<0.0023	mg/L	U	09/13/2011	14:06			KMH
CCB for Nitrite		<0.0023	mg/L	U	09/13/2011	20:54			KMH
CCV for Nitrite		4.96	mg/L		09/13/2011	20:03			KMH
Cont Calb Rec for Nitrite		99.2	%		09/13/2011	20:03			KMH
Sample Dup for Nitrite		<0.0023	mg/L	I	09/13/2011	15:48			KMH
ICV for NO2IC		1.05	mg/L		09/13/2011	12:24			KMH
ICV Rec. for NO2IC		105	%		09/13/2011	12:24			KMH
Nitrite as N by Ion Chromatography		<0.0023	mg/L	U	09/13/2011	15:22			KMH
Samp Dup Prec. for Nitrite		No Result	%		09/13/2011	15:22			KMH
MS Recovery for Nitrite		92.0	%		09/13/2011	15:22			KMH
MS Result for Nitrite		2.30	mg/L		09/13/2011	16:39			KMH
Batch Name: NO2IC-22765		QA Sample ID: AE41210							
Samples	AE39933 AE39935 AE39936								
Amt Spiked for Nitrite		2.50	mg/L		09/19/2011	17:14			KMH
Method Blank for Nitrite		<0.0023	mg/L	U	09/19/2011	14:41			KMH
CCB for Nitrite		<0.0023	mg/L	U	09/19/2011	20:13			KMH
CCV for Nitrite		4.93	mg/L		09/19/2011	19:22			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: NO2IC-22765		QA Sample ID: AE41210							
Samples AE39933 AE39935 AE39936									
Cont Calb Rec for Nitrite		98.6	%		09/19/2011	19:22			KMH
Sample Dup for Nitrite		<0.0023	mg/L	U	09/19/2011	16:23			KMH
ICV for NO2IC		1.03	mg/L		09/19/2011	12:59			KMH
ICV Rec. for NO2IC		103	%		09/19/2011	12:59			KMH
Nitrite as N by Ion Chromatography		<0.0023	mg/L	U,J	09/19/2011	15:58			KMH
Samp Dup Prec. for Nitrite		PASS	%		09/20/2011	11:30			KMH
MS Recovery for Nitrite		89.2	%		09/19/2011	15:58			KMH
MS Result for Nitrite		2.23	mg/L		09/19/2011	17:14			KMH
Batch Name: NO3IC-22705		QA Sample ID: AE41092							
Samples AE39934									
Amt Spiked for Nitrate		25.0	mg/L		09/13/2011	16:39			KMH
Method Blank for Nitrate		<0.0046	mg/L	U	09/13/2011	14:06			KMH
CCB for Nitrate		<0.0046	mg/L	U	09/13/2011	20:54			KMH
CCV for Nitrate		9.84	mg/L		09/13/2011	20:03			KMH
Cont Calb Rec for Nitrate		98.4	%		09/13/2011	20:03			KMH
Sample Dup for Nitrate		11.6	mg/L		09/13/2011	15:48			KMH
ICV for Nitrate		22.2	mg/L		09/13/2011	12:49			KMH
ICV Conc for Nitrate		22.6	mg/L		09/14/2011	09:44			KMH
Int Calb Rec for Nitrate		98.2	%		09/13/2011	12:49			KMH
Nitrate as N by Ion Chromatography		11.6	mg/L		09/13/2011	15:22			KMH
Samp Dup Prec. for Nitrate		0.00	%		09/13/2011	15:22			KMH
MS Recovery for Nitrate		103	%		09/13/2011	15:22			KMH
MS Result for Nitrate		37.4	mg/L		09/13/2011	16:39			KMH
Batch Name: NO3IC-22766		QA Sample ID: AE41210							
Samples AE39933 AE39935 AE39936									

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: NO3IC-22766		QA Sample ID: AE41210							
Samples	AE39933 AE39935 AE39936								
Amt Spiked for Nitrate		25.0	mg/L		09/19/2011	17:14			KMH
Method Blank for Nitrate		<0.0046	mg/L	U	09/19/2011	14:41			KMH
CCB for Nitrate		<0.0046	mg/L	U	09/19/2011	20:13			KMH
CCV for Nitrate		9.64	mg/L		09/19/2011	19:22			KMH
Cont Calb Rec for Nitrate		96.4	%		09/19/2011	19:22			KMH
Sample Dup for Nitrate		10.3	mg/L		09/19/2011	16:23			KMH
ICV for Nitrate		21.9	mg/L		09/19/2011	13:25			KMH
ICV Conc for Nitrate		22.6	mg/L		09/20/2011	11:30			KMH
Int Calb Rec for Nitrate		96.9	%		09/19/2011	13:25			KMH
Nitrate as N by Ion Chromatography		10.3	mg/L		09/19/2011	15:58			KMH
Samp Dup Prec. for Nitrate		0.00	%		09/19/2011	15:58			KMH
MS Recovery for Nitrate		100	%		09/19/2011	15:58			KMH
MS Result for Nitrate		35.3	mg/L		09/19/2011	17:14			KMH
Batch Name: TDS-22716		QA Sample ID: AE39934							
Samples	AE39934								
Method Blank for TDS		<10.0	mg/L	U	09/18/2011	10:49			EMM/KEB
Sample Dup for TDS		226	mg/L		09/18/2011	10:49			EMM/KEB
Initial Calibration for TDS		972	mg/L		09/18/2011	10:49			EMM/KEB
Int Calb Conc for TDS		970	mg/L		09/18/2011	10:49			EMM/KEB
Int Calb Rec for TDS		100	%		09/18/2011	10:49			EMM/KEB
Samp Dup Precision for TDS		Pass	%		09/18/2011	10:50			EMM/KEB
Total Dissolved Solids		229	mg/L		09/18/2011	10:49			EMM/KEB
Batch Name: TDS-22775		QA Sample ID: AE39795							
Samples	AE39933 AE39935 AE39936								
Method Blank for TDS		<10.0	mg/L	U	09/23/2011	14:18			KEB/IR

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: TDS-22775		QA Sample ID: AE39795							
Samples	AE39933 AE39935 AE39936								
Sample Dup for TDS		826	mg/L		09/23/2011	14:18			KEB/ IR
Initial Calibration for TDS		985	mg/L		09/23/2011	14:18			KEB/ IR
Int Calb Conc for TDS		970	mg/L		09/23/2011	14:18			KEB/ IR
Int Calb Rec for TDS		102	%		09/23/2011	14:18			KEB/ IR
Samp Dup Precision for TDS		Pass	%		09/23/2011	14:19			IR
Total Dissolved Solids		777	mg/L		09/23/2011	14:18			KEB/ IR
Batch Name: TKN-22701		QA Sample ID: AE41096							
Samples	AE39934								
Amt Spiked for TKN		75.0	mg/L		09/14/2011	14:51			AC
Method Blank for TKN		<0.004	mg/L	U	09/14/2011	14:51			AC
CCB for TKN		<0.044	mg/L	U	09/14/2011	14:51			AC
CCV for TKN		2.88	mg/L		09/14/2011	14:51			AC
CCV Recovery for TKN		96.0	%		09/14/2011	14:51			AC
Sample Dup for TKN		27.2	mg/L		09/14/2011	14:51			AC
ICV for TKN		1.47	mg/L		09/14/2011	14:51			AC
ICV Recovery for TKN		98.0	%		09/14/2011	14:51			AC
Dup Precision for TKN		2.90	%		09/14/2011	14:21			AC
MS Recovery for TKN		92.7	%		09/14/2011	14:21			AC
MS Result for TKN		97.5	mg/L		09/14/2011	14:51			AC
Total Kjeldahl Nitrogen		28.0	mg/L		09/14/2011	14:21			AC
Batch Name: TKN-22824		QA Sample ID: AE41239							
Samples	AE39933 AE39935 AE39936								
Amt Spiked for TKN		75.0	mg/L		09/28/2011	08:02			AC
Method Blank for TKN		<0.044	mg/L	U	09/28/2011	08:02			AC
CCB for TKN		<0.044	mg/L	U	09/28/2011	08:02			AC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: TKN-22824		QA Sample ID: AE41239							
Samples	AE39933 AE39935 AE39936								
CCV for TKN		2.84	mg/L		09/28/2011	08:02			AC
CCV Recovery for TKN		94.7	%		09/28/2011	08:02			AC
Sample Dup for TKN		31.3	mg/L		09/28/2011	08:02			AC
ICV for TKN		1.42	mg/L		09/28/2011	08:02			AC
ICV Recovery for TKN		94.7	%		09/28/2011	08:02			AC
Dup Precision for TKN		3.58	%		09/28/2011	08:02			AC
MS Recovery for TKN		98.4	%		09/28/2011	08:02			AC
MS Result for TKN		104	mg/L		09/28/2011	08:02			AC
Total Kjeldahl Nitrogen		30.2	mg/L		09/28/2011	08:02			AC
Batch Name: TOC-22831		QA Sample ID: AE39933							
Samples	AE39933 AE39934 AE39935 AE39936								
Method Blank for TOC		<0.072	mg/L	U	09/28/2011	17:33			EMM
Cont. Cal. Blank for TOC		<0.072	mg/L	U	09/28/2011	22:03			EMM
Cont Cal TOC		9.67	mg/L		09/28/2011	21:30			EMM
Cont Calb Rec for TOC		96.7	%		09/28/2011	21:30			EMM
Dup for TOC		33.9	mg/L		09/28/2011	18:31			EMM
ICV for TOC		5.18	mg/L		09/28/2011	17:53			EMM
ICV Rec for TOC		104	%		09/28/2011	17:53			EMM
Dup Precision for TOC		0.592	%		09/30/2011	11:42			EMM
MS Recovery for TOC		98.2	%		09/30/2011	11:42			EMM
MS Result for TOC		82.8	mg/L		09/28/2011	18:52			EMM
Total Organic Carbon		33.7	mg/L		09/30/2011	11:42			EMM
Batch Name: T-P-22769		QA Sample ID: AE40701							
Samples	AE39934 AE39935								
Amt Spiked for Total Phosphate		5.00	mg/L		09/20/2011	13:01			EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: T-P-22769		QA Sample ID: AE40701							
Samples AE39934 AE39935									
Method Blank for Total Phosphate		<0.003	mg/L	U	09/21/2011	08:20			EMM
CCB for Total Phosphate		<0.003	mg/L	U	09/21/2011	08:20			EMM
CCV for Total Phosphate		1.02	mg/L		09/21/2011	08:20			EMM
CCV Recovery for Total Phosphate		102	%		09/21/2011	08:20			EMM
Sample Dup for Total Phosphate		1.96	mg/L		09/20/2011	13:01			EMM
ICV for Total Phosphate		0.487	mg/L		09/20/2011	13:01			EMM
ICV Recovery for Total Phosphate		97.4	%		09/20/2011	13:01			EMM
Dup Precision for Total Phosphate		4.00	%		09/20/2011	13:01			EMM
MS Rec for Total Phosphate		96.0	%		09/20/2011	13:01			EMM
MS Result for Total Phosphate		6.84	mg/L		09/20/2011	13:01			EMM
Total Phosphate as P		2.04	mg/L		09/20/2011	13:01			EMM
Batch Name: T-P-22770		QA Sample ID: AE41106							
Samples AE39933 AE39936									
Amt Spiked for Total Phosphate		2.00	mg/L		09/20/2011	13:09			EMM
CCB for Total Phosphate		<0.003	mg/L	U	09/21/2011	08:20			EMM
CCV for Total Phosphate		1.01	mg/L		09/21/2011	08:20			EMM
CCV Recovery for Total Phosphate		101	%		09/21/2011	08:20			EMM
Sample Dup for Total Phosphate		0.890	mg/L		09/20/2011	13:09			EMM
Dup Precision for Total Phosphate		1.45	%		09/20/2011	13:09			EMM
MS Rec for Total Phosphate		98.4	%		09/20/2011	13:09			EMM
MS Result for Total Phosphate		2.87	mg/L		09/20/2011	13:09			EMM
Total Phosphate as P		0.903	mg/L		09/20/2011	13:09			EMM
Batch Name: TSS-22707		QA Sample ID: AE41104							
Samples AE39934									
Method Blank for TSS		<1.00	mg/L	U	09/13/2011	08:00			KEB

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name: TSS-22707		QA Sample ID: AE41104							
Samples AE39934									
Sample Dup for TSS		300	mg/L		09/13/2011	08:00			KEB
Initial Calibration for TSS		106	mg/L		09/13/2011	08:00			KEB
Int Calb Conc for TSS		105	mg/L		09/13/2011	14:03			KEB
Int Calb Rec for TSS		101	%		09/13/2011	08:00			KEB
Samp Dup Precision for TSS		Pass	%		09/13/2011	14:03			KEB
Total Suspended Solids		290	mg/L		09/13/2011	08:00			KEB
Batch Name: TSS-22776		QA Sample ID: AE41249							
Samples AE39933 AE39935 AE39936									
Method Blank for TSS		<1.00	mg/L	U	09/20/2011	08:00			KEB
Sample Dup for TSS		218	mg/L		09/20/2011	08:00			KEB
Initial Calibration for TSS		92.0	mg/L		09/20/2011	08:00			KEB
Int Calb Conc for TSS		96.6	mg/L		09/20/2011	15:09			KEB
Int Calb Rec for TSS		95.2	%		09/20/2011	08:00			KEB
Samp Dup Precision for TSS		Pass	%		09/20/2011	15:09			KEB
Total Suspended Solids		222	mg/L		09/20/2011	08:00			KEB

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
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DATA QUALIFIER CODES

A	Value reported is the mean (average) of two or more determinations
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests, specifically to membrane filter colony counts, and is used only if the colony count is generated from a plate in which the total number of coliform colonies <u>exceeds</u> the method indicated ideal ranges.
C	Analysis performed by contract laboratory
E	Indicates that extra samples were taken at composite stations
H	Value based on field kit determination; results may not be accurate
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	*Estimated value
K	Indicates off scale low and the actual value is known to be less than the value listed. Used if the value is less than the lowest calibration standard when the calibration curve is known to be non-linear. Can also be used if the actual value is known to be less than the reported value based on sample size,dilution.
L	Off scale high and the actual value is known to be greater than the reported value. Used when the sample concentration of the analyte exceeds the linear range or highest calibration standard and the calibration curve is known to exhibit a negative deflection.
M	To be used for chemical analysis: the presence of the analyte is verified but not quantified and the actual value is less than the value reported. Presumptive evidence of presence of compound. To be used when the compound has been determined by
N	TIC (mass spectral library search) or if presence of the compound cannot be confirmed using alternate procedures
O	Indicates analysis was lost or not performed
Q	Analyzed after holding time expired
R	Significant rain in the past 24 hours
T	Reported value is less than the laboratory method detection limit. The value is reported for informational purposes only and is not used in statistical analysis.
U	Indicated that the compound was analyzed for but not detected
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of the 10 times the blank value was equal to or greater than the associated sample value. Note: unless specified by the method, the value in the blank shall not be subtracted from associated samples
X	Time of collection not provided
Y	Laboratory analysis was performed on sample, which was unpreserved or improperly preserved, therefore, the data may be inaccurate.
Z	Too many colonies present. (TNTC)
*	Analysis was not performed due to interference
#	No sample received
?	Data are rejected should not be used since some or all quality control data for the analyte fall outside limits and the presence or absence of the analyte cannot be determined from the data
"_"	no data reported
!	Data deviate from historically established concentration ranges
	*Note

a "J" value shall not be used as a substitute for K,L,M,T,V or Y, however, if additional reasons exist for identifying the value as an estimate (e.g.,matrix spiked failed to meet acceptance criteria),the "J" code may be added to a K,L,M, T,V,or Y. Examples of situations in which code "J" must be reported include:

- + where a quality control item associated with the reported value(s) failed to meet the established quality control criteria (the specific failure must be identified)
- + when the sample matrix interferes with the ability to make any accurate determination
- + when data is questionable due to improper or field protocols
- + when the analyte was detected at or above the method detection limits (MDL) in a blank other than the method blank (such as calibration blank or field-generated blanks and the value of 10 times the blank value was equal to or greater than the associated sample value)
- + when the field or laboratory calibrations or calibration verifications did not meet calibration acceptance criteria.

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
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SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

September 28, 2011

Work Order: 1107319

Laboratory Report

Project Name		Lena Rd County LF-Surface Water						
Sample Description		Stormwater Overflow@North Weir (SW-1)						
Matrix		Surface Water						
SAL Sample Number		1107319-01						
Date/Time Collected		09/19/11 09:10						
Collected by		Client						
Date/Time Received		09/20/11 13:00						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
<u>Volatile Organic Compounds</u>								
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/22/11 15:40	JRW
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		09/22/11 15:40	JRW
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/22/11 15:40	JRW
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/22/11 15:40	JRW
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 15:40	JRW
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 15:40	JRW
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/22/11 15:40	JRW
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/22/11 15:40	JRW
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		09/22/11 15:40	JRW
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		09/22/11 15:40	JRW
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		09/22/11 15:40	JRW
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		09/22/11 15:40	JRW
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW

SOUTHERN ANALYTICAL LABORATORIES, INC.

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



Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

September 28, 2011
Work Order: 1107319

Laboratory Report

Project Name Lena Rd County LF-Surface Water

Sample Description Stormwater Overflow@North Weir (SW-1)
Matrix Surface Water
SAL Sample Number 1107319-01
Date/Time Collected 09/19/11 09:10
Collected by Client
Date/Time Received 09/20/11 13:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/22/11 15:40	JRW
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/22/11 15:40	JRW
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 15:40	JRW
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		09/22/11 15:40	JRW
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		09/22/11 15:40	JRW
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 15:40	JRW
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 15:40	JRW
<u>Pesticide Analyses</u>								
1,2-Dibromo-3-chloropropane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	09/27/11 13:43	09/27/11 21:06	BTJ
1,2-Dibromoethane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	09/27/11 13:43	09/27/11 21:06	BTJ
<u>Inorganics</u>								
Chlorophyll a, Corrected	ug/L	0.50 U	SM 10200H	0.50	0.50	09/20/11 14:35	09/26/11 11:39	ARP
<u>Metals</u>								
Mercury	ug/L	0.0023	EPA 1631	0.00040	0.00020	09/24/11 08:41	09/28/11 07:19	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Lab
 4751 66th St. W.
 Bradenton, FL 34210

September 28, 2011
 Work Order: 1107319

Laboratory Report

Project Name		Lena Rd County LF-Surface Water						
Sample Description		Stormwater Overflow@South Weir (SW-2)						
Matrix		Surface Water						
SAL Sample Number		1107319-02						
Date/Time Collected		09/12/11 08:45						
Collected by		Client						
Date/Time Received		09/20/11 13:00						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Volatile Organic Compounds								
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/16/11 14:36	JRW
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		09/16/11 14:36	JRW
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/16/11 14:36	JRW
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/16/11 14:36	JRW
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/16/11 14:36	JRW
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/16/11 14:36	JRW
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/16/11 14:36	JRW
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/16/11 14:36	JRW
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		09/16/11 14:36	JRW
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		09/16/11 14:36	JRW
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		09/16/11 14:36	JRW
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		09/16/11 14:36	JRW
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW

FD0H Laboratory No.E84129
 NELAP Accredited

Francis I. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

September 28, 2011
Work Order: 1107319

Laboratory Report**Project Name****Lena Rd County LF-Surface Water**

Sample Description **Stormwater Overflow@South Weir (SW-2)**
Matrix **Surface Water**
SAL Sample Number **1107319-02**
Date/Time Collected **09/12/11 08:45**
Collected by **Client**
Date/Time Received **09/20/11 13:00**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Toluene	ug/L	0.1 I	EPA 8260	0.8	0.09		09/16/11 14:36	JRW
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/16/11 14:36	JRW
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		09/16/11 14:36	JRW
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		09/16/11 14:36	JRW
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		09/16/11 14:36	JRW
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		09/16/11 14:36	JRW
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		09/16/11 14:36	JRW
<u>Pesticide Analyses</u>								
1,2-Dibromo-3-chloropropane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	09/13/11 15:43	09/14/11 11:21	BTJ
1,2-Dibromoethane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	09/13/11 15:43	09/14/11 11:21	BTJ
<u>Inorganics</u>								
Chlorophyll a, Corrected	ug/L	0.50 U	SM 10200H	0.50	0.50	09/13/11 14:30	09/19/11 15:41	ARP
<u>Metals</u>								
Mercury	ug/L	0.00024 I	EPA 1631	0.00040	0.00020	09/14/11 07:20	09/15/11 15:57	AWS

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Lab
 4751 66th St. W.
 Bradenton, FL 34210

September 28, 2011

Work Order: 1107319

Laboratory Report

Project Name		Lena Rd County LF-Surface Water						
Sample Description		Field Duplicate SW-1						
Matrix		Surface Water						
SAL Sample Number		1107319-03						
Date/Time Collected		09/19/11 09:10						
Collected by		Client						
Date/Time Received		09/20/11 13:00						
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
<u>Volatile Organic Compounds</u>								
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/22/11 16:13	JRW
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		09/22/11 16:13	JRW
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
Bromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
Bromodichloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/22/11 16:13	JRW
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/22/11 16:13	JRW
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 16:13	JRW
Chloroform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 16:13	JRW
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/22/11 16:13	JRW
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/22/11 16:13	JRW
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		09/22/11 16:13	JRW
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		09/22/11 16:13	JRW
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Methylene Chloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		09/22/11 16:13	JRW
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		09/22/11 16:13	JRW
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW

FDOH Laboratory No.E84129
 NELAP Accredited

Francis I. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Lab
4751 66th St. W.
Bradenton, FL 34210

September 28, 2011
Work Order: 1107319

Laboratory Report

Project Name Lena Rd County LF-Surface Water

Sample Description Field Duplicate SW-1
Matrix Surface Water
SAL Sample Number 1107319-03
Date/Time Collected 09/19/11 09:10
Collected by Client
Date/Time Received 09/20/11 13:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/22/11 16:13	JRW
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/22/11 16:13	JRW
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 16:13	JRW
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		09/22/11 16:13	JRW
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		09/22/11 16:13	JRW
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:13	JRW
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:13	JRW
<u>Pesticide Analyses</u>								
1,2-Dibromo-3-chloropropane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	09/27/11 13:43	09/27/11 21:27	BTJ
1,2-Dibromoethane	ug/L	0.0053 U	EPA 8011	0.021	0.0053	09/27/11 13:43	09/27/11 21:27	BTJ
<u>Inorganics</u>								
Chlorophyll a, Corrected	ug/L	0.50 U	SM 10200H	0.50	0.50	09/20/11 14:35	09/26/11 11:39	ARP
<u>Metals</u>								
Mercury	ug/L	0.0022	EPA 1631	0.00040	0.00020	09/24/11 08:41	09/28/11 07:19	AWS

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



Manatee County Utility Operations Central Lab
 4751 66th St. W.
 Bradenton, FL 34210

September 28, 2011
 Work Order: 1107319

Laboratory Report

Project Name Lena Rd County LF-Surface Water

Sample Description Field Blank
 Matrix Reagent Water
 SAL Sample Number 1107319-04
 Date/Time Collected 09/19/11 09:10
 Collected by Client
 Date/Time Received 09/20/11 13:00

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
<u>Volatile Organic Compounds</u>								
Acetone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/22/11 16:45	JRW
Acrylonitrile	ug/L	1.3 U	EPA 8260	4.0	1.3		09/22/11 16:45	JRW
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
Bromochloromethane	ug/L	0.5 I	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
Bromodichloromethane	ug/L	0.3 I	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Bromoform	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Bromomethane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/22/11 16:45	JRW
2-Butanone	ug/L	2.0 U	EPA 8260	4.0	2.0		09/22/11 16:45	JRW
Carbon disulfide	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Chlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
Chloroethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 16:45	JRW
Chloroform	ug/L	3.7	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Chloromethane	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 16:45	JRW
Dibromochloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
1,4-Dichlorobenzene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/22/11 16:45	JRW
1,1-Dichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
1,1-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
cis-1,2-Dichloroethene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/22/11 16:45	JRW
trans-1,2-Dichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
1,2-Dichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
cis-1,3-Dichloropropene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
trans-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
Ethylbenzene	ug/L	0.08 U	EPA 8260	0.8	0.08		09/22/11 16:45	JRW
2-Hexanone	ug/L	2.1 U	EPA 8260	4.0	2.1		09/22/11 16:45	JRW
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Methylene Chloride	ug/L	0.3 I	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
4-Methyl-2-pentanone	ug/L	2.6 U	EPA 8260	4.0	2.6		09/22/11 16:45	JRW
Styrene	ug/L	0.05 U	EPA 8260	0.8	0.05		09/22/11 16:45	JRW
1,1,1,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
1,1,2,2-Tetrachloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Tetrachloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW

FDOH Laboratory No.E84129
 NELAP Accredited

Francis I. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

SOUTHERN ANALYTICAL LABORATORIES, INC.

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SAL Sample Number 1107319-04
Date/Time Collected 09/19/11 09:10
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Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Toluene	ug/L	0.09 U	EPA 8260	0.8	0.09		09/22/11 16:45	JRW
1,1,1-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Trichloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
1,2,3-Trichloropropane	ug/L	0.4 U	EPA 8260	0.8	0.4		09/22/11 16:45	JRW
Vinyl acetate	ug/L	0.4 U	EPA 8260	1.6	0.4		09/22/11 16:45	JRW
Vinyl chloride	ug/L	0.3 U	EPA 8260	1.6	0.3		09/22/11 16:45	JRW
Xylene-m,p	ug/L	0.2 U	EPA 8260	1.6	0.2		09/22/11 16:45	JRW
Xylene-o	ug/L	0.2 U	EPA 8260	0.8	0.2		09/22/11 16:45	JRW
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		09/22/11 16:45	JRW
<u>Pesticide Analyses</u>								
1,2-Dibromo-3-chloropropane	ug/L	0.0052 U	EPA 8011	0.021	0.0052	09/27/11 13:43	09/27/11 21:48	BTJ
1,2-Dibromoethane	ug/L	0.0052 U	EPA 8011	0.021	0.0052	09/27/11 13:43	09/27/11 21:48	BTJ
<u>Inorganics</u>								
Chlorophyll a, Corrected	ug/L	0.50 U	SM 10200H	0.50	0.50	09/20/11 14:35	09/26/11 11:39	ARP
<u>Metals</u>								
Mercury	ug/L	0.00048	EPA 1631	0.00040	0.00020	09/24/11 08:41	09/28/11 07:19	AWS

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* 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 limits 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.
Questions regarding this report should be directed to Client Services at 813-855-1844.

A handwritten signature in black ink, appearing to read "Francis I. Daniels".

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SAL Project

Chain of Custody.xls
Rev.Date 11/19/01

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