39884 SWL
JRM 6/4/04

PBS&J TRANSMITTAL

TO: Mr. John Morris
Southwest District Office
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619-8318

DATE: December 18, 2003

JOB NO.: 120498.91 9300

Phone: 407.647.7275 ext. 339

From: Greg Mudd, P.G.

RE: Lena Road Landfill
Manatee County

Address/Office: 482 Keller Road
Orlando, FL 32810 6101

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples
☐ Copy of Letter ☐ Change Order ☐ Specifications ☐ _____

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Southwest District Tampa

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ELEVATED MDL REPORTED FOR SELENIUM

ELEVATED TURBIDITY AT UPSTREAM LOCATION

REMARKS:

AUG 2003 SAMPLING EVENT

SIGNED _____

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Semi-Annual Water Quality Monitoring Report
Second Half 2003 Sampling Event
Lena Road Landfill
GMS ID No. 4041M02025
Permit No.: 39884-001-SO

December 18, 2003

Prepared For:

Utility Operations Department
4410 66th Street West
Bradenton, FL 34210

Prepared By:

PBS&J

482 S. Keller Road
Orlando, FL 32810-6101

PBS&J Project Number: 120498.91 9300

P. Greg Mudd
Florida P.G. #1521

PBS&J

An employee-owned company

December 16, 2003

Mr. Gus DiFonzo
Solid Waste Division
Manatee County Utility Operations Department
4410 66th Street West
Bradenton, Florida 34210

Re: Semi-Annual Water Quality Monitoring Report
Second Half 2003 Sampling Event
Lena Road Landfill
GMS ID No. 4041M02025
FDEP Permit No. 39884-001-SO

Dear Mr. DiFonzo:

PBS&J is pleased to present this Semi-Annual Water Quality Monitoring Report for the second half 2003 sampling event at the Lena Road Landfill (LRL) in Manatee County. This document is designed to meet the requirements of Specific Condition Number 39 of the LRL's permit, and was compiled in general accordance with the guidelines promulgated in Chapter 62-701.510(9)(a) of the Florida Administrative Code (FAC).

BACKGROUND

The LRL facility is located at 3333 Lena Road in Bradenton, Florida. The LRL facility operates under Permit Number 39884-001-SO, which is on file with the Florida Department of Environmental Protection (FDEP). The LRL is constructed with a perimeter slurry wall in three stages that are designated Stages I, II and III. Landfill leachate is collected by a leachate collection system.

Specific Condition numbers 31, 32, and 35 of the facility's permit stipulates that the water quality program involve monitoring of the leachate, surface water, and the groundwater in the surficial (or shallow) and artesian (or deep) aquifers. The monitoring network consists of the following components:

- The leachate samples are collected from the lift stations.
- Groundwater samples are collected from 26 monitoring wells. Nineteen of the wells are used to monitor the quality of the groundwater of the surficial aquifer, and the other 7

wells are used to monitor the deep aquifer. Wells MW-1, GC-6 and SMR-1 are the designated background wells for the surficial aquifer. Well CW-4 is designated a compliance well and the rest of the shallow wells are designated detection/compliance wells. Well SMR-2 is the designated background well for the deep aquifer and the rest of the deep wells are designated detection/compliance wells.

- The surface water samples are collected from two points along the Cypress Strand. One is located upstream of the LRL and is designated SW-2, and the other, designated SW-1, is located downstream of the LRL.

A summary of the components that comprise the water quality network is presented in Table 1. The layout of the LRL, including the locations of the network components, is illustrated in Figure 1.

Leachate, groundwater and surface water samples were collected from the LRL network for the second half 2003 sampling event during the period between August 19 and 25, 2003. The samples were collected by representatives of P.E. LaMoreaux and Associates, Inc. (PELA). The samples were analyzed for the inorganic parameters by Manatee County Utility Operations' Central Wastewater Laboratory. The samples were analyzed for the other parameters at PELA's Lakeland, Florida laboratory. The LRL's permit requires analysis for the parameters in the State guidelines for Solid Waste Management Facilities, Rule 62-701.510 (8)-62-701.510 (9) of the FAC. The groundwater, and surface water samples are analyzed for all of the parameters listed in Appendix I of 40 Code of Federal Regulations (CFR) Part 258, and the leachate samples are analyzed for the parameters listed in Appendix II of the code.

A Florida Department of Environmental Protection (FDEP) Ground Water Monitoring Report form for the second half 2003 sampling event at the LRL is provided in Attachment A.

SAMPLE COLLECTION METHODOLOGY

The samples were collected in general accordance with the FDEP's Standard Operating Procedure for Field Activities (SOP 001/01). Prior to sample collection, the monitoring wells were purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. Copies of the field data sheets and the field equipment calibration logs from this sampling event are provided in Attachment B.

Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. The water level measurements were

subtracted from the TOC elevations to determine the elevation of the water table at each well. The TOC and water level elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD). The groundwater elevation data is presented in Table 2.

ANALYTICAL RESULTS

Leachate Analytical Results

Both inorganic and organic parameters were detected in the leachate during the second half 2003 sampling event at the LRL. The inorganic constituents included arsenic, barium, bicarbonate alkalinity, chloride, cobalt, copper, iron, lead, nickel, selenium, sodium, phenols, total dissolved solids (TDS) and zinc. The organic parameters included 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, ethylbenzene, toluene, xylene, dibromochloropropane and chlorobenzene. All of these constituents except cobalt and dibromochloropropane were detected in both leachate samples. Cobalt and dibromochloropropane were detected in one of the leachate samples. A summary of the leachate analytical results is presented Table 3. The complete leachate analytical report is provided in Attachment C-1.

The concentration of the parameters that was detected in the leachate was compared to the regulatory levels listed in 40 CFR Part 261.24, as promulgated by the Florida solid waste regulations. A standard has not been established for every parameter. None of the parameter concentrations detected in the leachate exceeded their respective regulatory level.

Groundwater Analytical Results

A description of the parameters that were detected at concentrations in excess of the regulatory criteria in each aquifer beneath the LRL during this sampling event is presented below. A summary of the results is presented in Table 4. The complete groundwater analytical report is provided in Attachment C-2.

Surficial Aquifer

There were no organic parameters detected in the wells screened in the surficial aquifer. All of the inorganic parameters except thallium were detected in at least one well location. All of the parameters detected in the network were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated in Chapter 62-550 of the Florida Administrative Code (FAC). Not every parameter has an MCL or SDWS.

Four parameters, pH, iron, arsenic and TDS, were detected in the surficial aquifer at concentrations in excess of the regulatory criteria. The pH was lower than the prescribed SDWS range of 6.5 to 8.5 in the samples collected at all of the shallow wells, including the background wells, except GC-1A and GC-4. Iron was detected at concentrations in excess of the SDWS at every shallow well, including both background wells. Arsenic was detected at concentrations in excess of its MCL at one well (GC-2), and was detected at elevated levels at several other wells including one of the background wells (GC-6). TDS was detected at elevated concentrations at all of the shallow wells in the network and exceeded the SDWS in the samples collected at CW-4 and MW-3.

Deep Aquifer

The only parameters that were detected in the deep aquifer were inorganics, including arsenic, barium, chromium, cobalt, iron, nickel, sodium, ammonia-N, chloride, nitrate and TDS. The only parameters that were detected in excess of the regulatory criteria were pH, TDS and iron. The pH value was higher than the prescribed SDWS range in the samples collected at SA-3, SA-4 and SA-8. The TDS concentration was higher than the SDWS in the samples collected at SA-6 and SA-8. The concentration of iron was higher than the SDWS in the sample collected at SA-3.

Surface Water Analytical Results

There were no organic constituents detected in the surface water, but numerous inorganic constituents were detected. All of the inorganic parameters except antimony, cadmium, selenium, silver, thallium and unionized ammonia were detected in at least one of the surface samples. The complete groundwater analytical report is provided in Attachment C-3. A summary of the surface water analytical results for each sampling event is presented in Table 5.

The concentrations of the inorganic parameters were compared to their respective Surface Water Cleanup Target Levels (SWCTLs) as a relative measure of the water quality. The SWCTLs are promulgated in Chapter 62-777, FAC. The only parameters that were detected in the surface water at concentrations in excess of its SWCTL were iron and mercury. Both parameters were detected at concentrations in excess of the standards in the sample collected at the upstream sampling point SW-2.

GROUNDWATER FLOW PATTERN

The water level elevation data from the shallow monitoring wells was plotted and contoured to generate the water table elevation contour map presented as Figure 2. The data from the deep wells was used to generate the potentiometric surface contour map for the deep aquifer that is presented in Figure 3.

The configuration of the water table indicates that the groundwater within the surficial aquifer (outside the boundary of the landfill) was flowing in a north-northwesterly direction during this sampling event. The average horizontal gradient across the site measured 0.001 feet per foot (ft/ft). The configuration of the potentiometric surface of the deep aquifer indicates that the groundwater was flowing to the north-northwest at an average horizontal gradient of 0.006 ft/ft.

SUMMARY

The parameters that were detected at concentrations in excess of the regulatory standards in the LRL's monitoring network during the second half 2003 were limited to inorganic constituents, and was limited primarily to pH and iron. Most of the parameters that were detected in the monitoring network were also detected at the background wells, suggesting that their presence reflects the natural chemistry of the groundwater in the area. The most significant detection during the monitoring period was arsenic. Most of the arsenic detections were limited to the surficial aquifer on the west and northwest side of the landfill, lateral to the direction of groundwater flow. The highest arsenic concentration in the groundwater was 0.069 milligrams per liter (mg/l). Arsenic was detected in the leachate at concentrations between 0.007 mg/l and 0.017 mg/l. Therefore, the highest arsenic concentrations in the groundwater exceeded those in the leachate.

The groundwater flow characteristics in both the shallow and deep aquifers were consistent with those observed in the previous sampling events, with the flow directions to the northwest at relatively shallow gradients.

Please call me at (407) 647-7275, ext. 339 if you have any questions or need any additional information.

Very truly yours,

Greg Mudd, P.G.
Senior Geologist

C: File, 120498.91 9300

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Table 5 - Surface Water Analytical Summary
Second Half 2003

Analyte			Location:	SW-1	SW-2
			Sample Identifier:	SW-1	SW-2
			Date of Test:	08/19/03	08/19/03
	Standard(1)	Units			
Field Measurements					
Temperatrue		deg. C		32.03	30.3
pH		STD		7.2	7.94
Conductivity		umhos/cm		348	565
Dissolved Oxygen (DO)		mg/l		3.62	7.89
Turbidity		NTU		3.0	997
Inorganics					
Antimony	0.006	mg/l		<0.002	<0.002
Arsenic	0.05	mg/l		<0.007	0.0009
Barium	2	mg/l		0.011	0.042
Beryllium	0.004	mg/l		<0.0002	0.0004
Biochemical Oxygen Demand (BOD)		mg/l		<2.0	5.8
Cadmium	0.005	mg/l		<0.0005	<0.0005
Calcium		mg/l		51.1	114
Chemical Oxygen Demand (COD)		mg/l		18.8	17.3
Chloropyll A		mg/m3		0.93	1.63
Chromium	0.1	mg/l		0.001	0.031
Cobalt	0.42	mg/l		<0.001	<0.001
Copper	1.0	mg/l		<0.005	0.008
Fecal coliform		cfu/100ml		300	900
Iron	0.3	mg/l		0.23	3.29
Lead	0.015	mg/l		<0.005	0.012
Magnesium		mg/l		8.49	11.3
Mercury	0.012	ug/l		<0.100	0.123
Nickel	0.1	mg/l		0.002	0.01
Nitrate	10	mg/l		0.025	0.581
Selenium	0.05	mg/l		<0.01	<0.01
Silver	0.1	mg/l		<0.002	<0.002
Thallium	0.002	mg/l		<0.0004	<0.0004
Total Dissolved Solids (TDS)	500	mg/l		246	423
Total phosphorous		mg/l		0.149	1.26
Total Suspended Solids (TSS)		mg/l		2	494
Unionized ammonia		mg/l		<0.009	<0.009
Vanadium	0.049	mg/l		0.004	0.035
Zinc	5	mg/l		<0.01	0.036
Organics					
Acetone	700	ug/l		<2.5	<2.5
Acrylonitrile	1	ug/l		<1.5	<1.5
Benzene	1	ug/l		<0.04	<0.04
Bromochloromethane	91	ug/l		<0.5	<0.5
Bromodichloromethane	0.6	ug/l		<0.08	<0.08

Analyte	Location:		SW-1	SW-2
	Sample Identifier:		SW-1	SW-2
	Date of Test:		08/19/03	08/19/03
	Standard(1)	Units		
Carbon disulfide	700		<4.1	<4.1
Carbon tetrachloride	3	ug/l	<0.21	<0.21
Chlorobenzene	100	ug/l	<0.04	<0.04
Chloroethane	2.7	ug/l	<0.1	<0.1
Dibromochloromethane	0.4	ug/l	<0.05	<0.05
1,2-Dichlorobenzene	600	ug/l	<0.03	<0.03
1,4-Dichlorobenzene	75	ug/l	<0.03	<0.03
Dichloromethane		ug/l	<0.03	<0.03
1,2-Dibromo-3-chloropropane	0.2	ug/l	<0.01	<0.01
Ethylene dibromide	600	ug/l	<0.01	<0.01
o-Dichlorobenzene	600	ug/l	<1.0	<1.0
1,1-Dichloroethane	700	ug/l	<0.03	<0.03
1,2-Dichloroethane	3	ug/l	<0.02	<0.02
1,1-Dichloroethene	7	ug/l	<0.12	<0.12
cis-1,2-Dichloroethene	70	ug/l	<0.1	<0.1
trans-1,2-Dichloroethene	100	ug/l	<0.06	<0.06
1,2-Dichloropropane		ug/l	<0.04	<0.04
cis-1,3-Dichloropropene		ug/l	<0.05	<0.05
trans-1,3-Dichloropropene		ug/l	<0.04	<0.04
Ethylbenzene	30	ug/l	<0.06	<0.06
2-Hexanone		ug/l	<2.5	<2.5
Methyl bromide	10	ug/l	<0.11	<0.11
Chloromethane	5	ug/l	<0.13	<0.13
2-Butanone	4200	ug/l	<5	<5
Methyl iodide		ug/l	<0.5	<0.5
4-Methlyl-2-pentanone	350	ug/l	<5.0	<5.0
Styrene	100	ug/l	<1.0	<1.0
1,1,1,2-Tetrachloroethane	1	ug/l	<0.1	<0.1
1,1,2,2-Tetrachloroethane	0.2	ug/l	<0.04	<0.04
t-1,4-Dichloro-2-butene		ug/l	<10	<10
Tetrachloroethene	3	ug/l	<0.14	<0.14
Toluene	40	ug/l	<0.11	21.5
1,1,1-Trichloroethane	200	ug/l	<0.04	<0.04
1,1,2-Trichloroethane	5	ug/l	<0.1	<0.1
Tribromethane		ug/l	<0.12	<0.12
Trichloroethene	3	ug/l	<0.19	<0.19
Trichloromethane		ug/l	<0.03	<0.03
Trichlorofluoromethane	2100	ug/l	<0.08	<0.08
1,2,3-Trichloropropane	42	ug/l	<0.3	<0.3
Vinyl acetate	250	ug/l	<10	<10
Vinyl chloride	1	ug/l	<0.17	<0.17
Total xylenes	20	ug/l	<0.11	<0.11

Notes: (1) Surface Water Cleanup Target Levels, as promulgated in Chapter 62-770, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.
Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nepholometric turbidity units..

Attachment C-3

LAB REPORT (COUNTY LAB)

REPORT OF ANALYSIS

MANATEE COUNTY UTILITY OPERATIONS
CENTRAL WASTEWATER LABORATORY
5101 65TH STREET WEST
BRADENTON, FL 34210

Phone: (941) 792-8811 ext. 5285
Fax: (941) 795-3477
FDOH LAB ID: E54560
USEPA LAB CODE: FL00031
Laboratory Contact: Jeff Goodwin

PREPARED FOR: **Mr. Gus Difonzo**
MCUOD Solid Waste Division
4410 66th Street West
Bradenton, FL 34210

SAMPLE RECEIPT DATE: **August 19, 2003**

REPORT DATE: **October 17, 2003**

PROJECT NAME: **Lena Road Landfill**
Semiannual Surface Water Monitoring

Data Release Authorization:

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

Jeffrey A. Goodwin, Laboratory Supervisor

ACCREDITED IN ACCORDANCE WITH nelac

CENTRAL WASTEWATER LABORATORY
5101 65TH STREET WEST
BRADENTON, FL 34210
Phone: (941) 792-8811 ext. 5285
Fax: (941) 795-3477
FDOH LAB ID: E54560
USEPA LAB CODE: FL00031
Laboratory Contact: Jeff Goodwin

PREPARED FOR: **Mr. Gus Difonzo**
MCUOD Solid Waste Division
4410 66th Street West
Bradenton, FL 34210

TOTAL COST FOR LEANA ROAD SURFACE WATER: $491.32

Lab ID	Client ID	Sample Location	Collection Date/Time	Parameter	Method	Results	Date /Time Analyzed	MDL	Analyst	Cost per sample
64169	SW - 1	Lena Road	08/19/03 12:45	Antimony	EPA 204.2	**0.002** U mg/L	09/04/03 13:27	0.002 mg/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Arsenic	EPA 200.7	**0.007** U mg/L	09/24/03 11:00	0.007 mg/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Barium	EPA 200.7	**0.011** mg/L	09/24/03 11:00	0.0002 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Beryllium	EPA 200.7	**0.0002** U mg/L	09/24/03 11:00	0.0002 mg/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Calcium	EPA 200.7	**51.1** mg/L	09/24/03 11:00	0.010 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Cadmium	EPA 200.7	**0.0005** U mg/L	09/24/03 11:00	0.0005 mg/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Chromium	EPA 200.7	**0.001** mg/L	09/24/03 11:00	0.0005 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Cobalt	EPA 200.7	**0.001** U mg/L	09/24/03 11:00	0.001 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Copper	EPA 200.7	**0.005** U mg/L	09/24/03 11:00	0.005 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Iron	EPA 200.7	**0.230** mg/L	09/24/03 11:00	0.010 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Lead	EPA 200.7	**0.005** U mg/L	09/24/03 11:00	0.005 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Magnesium	EPA 200.7	**8.49** mg/L	09/24/03 11:00	0.005 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Nickel	EPA 200.7	**0.002** mg/L	09/24/03 11:00	0.001 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Selenium	EPA 200.7	**0.010** U mg/L	09/24/03 11:00	0.010 mg/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Nitrate	EPA 300.0	**0.025** mg/L	08/19/03 19:10	0.006 mg/L	EMM	$4.90
64169	SW - 1	Lena Road	08/19/03 12:45	Silver	EPA 200.7	**0.002** U mg/L	09/24/03 11:00	0.002 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Thallium	EPA 279.2	**0.0004** U mg/L	09/10/03 14:08	0.0004 mg/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Vanadium	EPA 200.7	**0.004** mg/L	09/24/03 11:00	0.0005 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Zinc	EPA 200.7	**0.010** U mg/L	09/24/03 11:00	0.010 mg/L	WC	$3.70
64169	SW - 1	Lena Road	08/19/03 12:45	Mercury	EPA 245.1	**0.100** U ug/L	09/05/03 12:03	0.100 ug/L	WC	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	Unionized Ammonia	DEP SOP 10/3/83	**0.009** U mg/L	09/29/03 13:52	CALCULATION	JAG	$4.90
64169	SW - 1	Lena Road	08/19/03 12:45	Ammonia as N	EPA 350.1	**0.014** mg/L	08/22/03 14:09	0.009 mg/L	EMM	$4.39
64169	SW - 1	Lena Road	08/19/03 12:45	cBOD	SM 5210B	**2.00** U mg/L	08/25/03 10:00	2.00 mg/L	EMM	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	COD	EPA 410.4	**18.8** mg/L	09/26/03 10:00	3.00 mg/L	LK	$8.60
64169	SW - 1	Lena Road	08/19/03 12:45	Fecal Coliform	SM 9222D	**>200** CFU/100 ml	08/19/03 15:00	1.00 CFU/100 ml	EMM	$4.90
64169	SW - 1	Lena Road	10/14/03 7:50	Fecal Coliform	SM 9222D	**300** CFU/100 ml	10/17/03 10:25	1.00 CFU/100 ml	IR	$4.90
64169	SW - 1	Lena Road	08/19/03 12:45	TDS	SM 2540C	**246** mg/L	08/20/03 16:45	4.50 mg/L	LK	$4.90
64169	SW - 1	Lena Road	08/19/03 12:45	TOC	EPA 415.1	**14.8** mg/L	08/29/03 16:00	0.050 mg/L	EMM	$8.60
64169	SW - 1	Lena Road	08/19/03 12:45	Total Hardness	SM 2340 B	**163** mg/L	09/26/03 7:49	CALCULATION	EC	$7.35
64169	SW - 1	Lena Road	08/19/03 12:45	Total Nitrogen	Calculation	**0.977** mg/L	09/22/03 14:55	CALCULATION	EC	$8.95
64169	SW - 1	Lena Road	08/19/03 12:45	Total Phosphorus	EPA 365.1	**0.149** mg/L	08/27/03 14:27	0.002 mg/L	LK	$6.15
64169	SW - 1	Lena Road	08/19/03 12:45	TSS	SM 2540D	**2.00** mg/L	08/21/03 9:15	0.500 mg/L	LK	$4.90
									Total Cost for Lena Road SW-1	**$167.04**

Lab ID	Client ID	Sample Location	Collection Date/Time	Parameter	Method	Results	Date /Time Analyzed	MDL	Analyst	Cost per sample
64169	SW - 2	Lena Road	08/19/03 11:24	Antimony	EPA 204.2	0.002 U mg/L	09/04/03 13:35	0.002 mg/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Arsenic	EPA 200.7	0.0009 mg/L	09/24/03 11:11	0.007 mg/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Barium	EPA 200.7	0.042 mg/L	09/24/03 11:11	0.0002 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Beryllium	EPA 200.7	0.0004 mg/L	09/24/03 11:11	0.0002 mg/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Calcium	EPA 200.7	114 mg/L	09/24/03 11:11	0.010 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Cadmium	EPA 200.7	0.0005 U mg/L	09/24/03 11:11	0.0005 mg/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Chromium	EPA 200.7	0.031 mg/L	09/24/03 11:11	0.0005 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Cobalt	EPA 200.7	0.001 U mg/L	09/24/03 11:11	0.001 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Copper	EPA 200.7	0.008 mg/L	09/24/03 11:11	0.005 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Iron	EPA 200.7	3.29 mg/L	09/24/03 11:11	0.010 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Lead	EPA 200.7	0.012 mg/L	09/24/03 11:11	0.005 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Magnesium	EPA 200.7	11.3 mg/L	09/24/03 11:11	0.005 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Nickel	EPA 200.7	0.010 mg/L	09/24/03 11:11	0.001 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Nitrate	EPA 300.0	0.581 mg/L	08/19/03 19:40	0.006 mg/L	EMM	$4.90
64169	SW - 2	Lena Road	08/19/03 11:24	Selenium	EPA 200.7	0.010 U mg/L	09/24/03 11:11	0.010 mg/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Silver	EPA 200.7	0.002 U mg/L	09/24/03 11:11	0.002 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Thallium	EPA 279.2	0.0004 U mg/L	09/10/03 14:16	0.0004 mg/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Vanadium	EPA 200.7	0.035 mg/L	09/24/03 11:11	0.0005 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Zinc	EPA 200.7	0.036 mg/L	09/24/03 11:11	0.010 mg/L	WC	$3.70
64169	SW - 2	Lena Road	08/19/03 11:24	Mercury	EPA 245.1	0.123 ug/L	09/05/03 12:05	0.100 ug/L	WC	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	Unionized Ammonia	DEP SOP 10/3/83	0.009 U mg/L	09/29/03 13:52	CALCULATION	JAG	$4.90
64169	SW - 2	Lena Road	08/19/03 11:24	Ammonia as N	EPA 350.1	0.102 mg/L	08/22/03 13:58	0.009 mg/L	EMM	$4.39
64169	SW - 2	Lena Road	08/19/03 11:24	cBOD	SM 5210B	5.80 mg/L	08/25/03 10:00	2.00 mg/L	EMM	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	COD	EPA 410.4	17.3 mg/L	09/26/03 10:00	3.00 mg/L	LK	$8.60
64169	SW - 2	Lena Road	08/19/03 11:24	Fecal Coliform	SM 9222D	>200 CFU/100 ml	08/19/03 15:00	1 CFU/100 ml	EMM	$4.90
64169	SW - 2	Lena Road	10/14/03 8:15	Fecal Coliform	SM 9222D	900 CFU/100 ml	10/17/03 10:25	1 CFU/100 ml	IR	$4.90
64169	SW - 2	Lena Road	08/19/03 11:24	TDS	SM 2540C	423 mg/L	08/20/03 16:45	4.50 mg/L	LK	$4.90
64169	SW - 2	Lena Road	08/19/03 11:24	TOC	EPA 415.1	35.6 mg/L	08/29/03 18:55	0.050 mg/L	EMM	$8.60
64169	SW - 2	Lena Road	08/19/03 11:24	Total Hardness	SM 2340 B	331 mg/L	09/26/03 7:49	CALCULATION	EC	$7.35
64169	SW - 2	Lena Road	08/19/03 11:24	Total Nitrogen	Calculation	4.62 mg/L	09/22/03 14:58	CALCULATION	EC	$8.95
64169	SW - 2	Lena Road	08/19/03 11:24	Total Phosphorus	EPA 365.1	1.26 mg/L	08/27/03 14:27	0.002 mg/L	LK	$6.15
64169	SW - 2	Lena Road	08/19/03 11:24	TSS	SM 2540D	494 mg/L	08/21/03 9:15	0.500 mg/L	LK	$4.90
									Total Cost for Lena Road SW-2	**$167.04**

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

CASE NARRATIVE

SENT TO: MANATEE COUNTY-SWRTP
JEFF GOODWIN
5101 65TH.STREET WEST
BRADENTON FLORIDA 34210
941 792-8788

REPORT ID : 0308064170
PROJECT NO. :
PELA CONTACT :
RECEIVED DATE : 8/19/03
REPORTED DATE : 10/2/03

ACCREDITED IN ACCORDANCE WITH nelac

LAB ID #
KD11945-02Y
KD11946-02X-5
KD11946-03S
KD11946-02X-5
KD11947-02Y
KD11948-03S
KD11948-02X-5
KD11949-02Y
KD11950-02X-5
KD11950-03S

LAB REPORT (LAMOREAUX)

REPORT SUMMARY

Sampling, handling and holding time criteria were met for all samples.

Samples were collected by PELA according to DEP-SOP-001/01 revised January 1, 2002.

QUALIFIER KEY

U = Indicates that the compound was analyzed for but not detected

RECEIVED
OCT - 9 2003
MANATEE COUNTY UTILITY OPER.
CENTRAL LABORATORY

SENIOR CHEMIST

LABORATORY DIRECTOR

CERTIFICATE OF RESULTS

Sample integrity certified prior to analysis. Uncertanties in test results are available upon request. Test results meet all requirements of the NELAC Standards, except as noted in the Case Narrative. This report may not be reproduced in part, results relate only to items tested. This report includes a case narrative, report of analysis, attachments, and chain of custody.

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

Report ID: 0308064170

CLIENT INFORMATION

Client : MANATEE COUNTY-SWRTP
5101 65TH.STREET WEST
BRADENTON FLORIDA 34210
Attention : JEFF GOODWIN

BILLING INFORMATION

Bill To: MANATEE COUNTY-SWRTP

P.O. BOX 1000
BRADENTON, FLORIDA 34206

Purchase Order No. :

Identification : SW1 SURFACE WATER LENA RD LF
Site : SURFACE WATER, LENA RD LF
Type : WATER

FIELD PARAMETERS

SPECIFIC CONDUCTANCE	: 348	MICROMHOS
pH	: 7.20	STANDARD UNITS
WATER TEMPERATURE	: 32.03	DEGREES C
DISSOLVED OXYGEN	: 3.62	mg/L
INITIAL WATER LEVEL	:	
WELL ELEVATION	:	
FIELD TURBIDITY	: 3.00	NTU
FIELD COLOR	:	
FACILITY GMS #	:	

COMMENTS

FIELD PARA METERS
OBTAINED BY PELA
COLOR: LIGHT TAN
SHEEN: NONE
UNIQUE ID#

01A APP1 VOL

PELA

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

Report ID: 0308064170

Client Name	: MANATEE COUNTY-SWRTP	COLLECTION DATE :	8/19/03
Identification	: SW1 SURFACE WATER LENA RD LF	COLLECTION TIME :	12:45
Site	: SURFACE WATER, LENA RD LF	COLLECTED BY :	PELA
Type	: WATER	DATE RECEIVED IN LAB :	8/19/03

PARAMETER	RESULTS	DETECTION LIMITS	UNITS	ANALYST	DATE FINISHED
ORGANICS					
APPENDIX I VOLATILES (EPA 8260)					
KD11945-02Y					
1,2,3-TRICHLOROPROPANE	U	0.3	ug/l	JMS	8/31/03
IODOMETHANE	U	0.5	ug/l	JMS	8/31/03
CIS 1,2-DICHLOROETHENE	U	0.10	ug/l	JMS	8/31/03
T-1,4-DICHLORO-2-BUTENE	U	10.0	ug/l	JMS	8/31/03
STYRENE	U	1.0	ug/l	JMS	8/31/03
1,1,1,2-TETRACHLOROETHANE	U	0.1	ug/l	JMS	8/31/03
2-HEXANONE	U	5.0	ug/l	JMS	8/31/03
DIBROMOMETHANE	U	0.3	ug/l	JMS	8/31/03
2-BUTANONE	U	5.0	ug/l	JMS	8/31/03
ACETONE	U	2.5	ug/l	JMS	8/31/03
VINYL ACETATE	U	10.0	ug/l	JMS	8/31/03
CARBON DISULFIDE	U	4.1	ug/l	JMS	8/31/03
4-METHYL-2-PENTANONE	U	5.0	ug/l	JMS	8/31/03
BROMOCHLOROMETHANE	U	0.5	ug/l	JMS	8/31/03
CHLOROMETHANE	U	0.13	ug/l	JMS	8/31/03
DICHLOROMETHANE	U	0.03	ug/l	JMS	8/31/03
1,1-DICHLOROETHENE	U	0.12	ug/l	JMS	8/31/03
TRICHLOROFLUOROMETHANE	U	0.08	ug/l	JMS	8/31/03
CHLOROETHANE	U	0.10	ug/l	JMS	8/31/03
VINYL CHLORIDE	U	0.17	ug/l	JMS	8/31/03
ACRYLONITRILE	U	1.50	ug/l	JMS	8/31/03
1,1-DICHLOROETHANE	U	0.03	ug/l	JMS	8/31/03
BROMOMETHANE	U	0.11	ug/l	JMS	8/31/03
TOLUENE	U	0.11	ug/l	JMS	8/31/03
1,4-DICHLOROBENZENE	U	0.03	ug/l	JMS	8/31/03
1,1,2,2-TETRACHLOROETHANE	U	0.04	ug/l	JMS	8/31/03
O-XYLENE	U	0.11	ug/l	JMS	8/31/03
TRIBROMOMETHANE	U	0.12	ug/l	JMS	8/31/03
M,P-XYLENES	U	0.11	ug/l	JMS	8/31/03
ETHYLBENZENE	U	0.06	ug/l	JMS	8/31/03
CHLOROBENZENE	U	0.04	ug/l	JMS	8/31/03
TETRACHLOROETHENE	U	0.14	ug/l	JMS	8/31/03
DIBROMOCHLOROMETHANE	U	0.05	ug/l	JMS	8/31/03
TRANS-1,2-DICHLOROETHENE	U	0.06	ug/l	JMS	8/31/03
TRANS-1,3-DICHLOROPROPENE	U	0.04	ug/l	JMS	8/31/03

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

Report ID: 0308064170

Client Name	: MANATEE COUNTY-SWRTP	COLLECTION DATE :	8/19/03
Identification	: SW1 SURFACE WATER LENA RD LF	COLLECTION TIME :	12:45
Site	: SURFACE WATER, LENA RD LF	COLLECTED BY :	PELA
Type	: WATER	DATE RECEIVED IN LAB :	8/19/03

PARAMETER	RESULTS	DETECTION LIMITS	UNITS	ANALYST	DATE FINISHED
1,2-DICHLOROBENZENE	U	0.03	ug/l	JMS	8/31/03
CIS-1,3-DICHLOROPROPENE	U	0.05	ug/l	JMS	8/31/03
BROMODICHLOROMETHANE	U	0.08	ug/l	JMS	8/31/03
TRICHLOROETHENE	U	0.19	ug/l	JMS	8/31/03
1,2-DICHLOROPROPANE	U	0.04	ug/l	JMS	8/31/03
CARBON TETRACHLORIDE	U	0.21	ug/l	JMS	8/31/03
BENZENE	U	0.04	ug/l	JMS	8/31/03
1,2-DICHLOROETHANE	U	0.02	ug/l	JMS	8/31/03
1,1,1-TRICHLOROETHANE	U	0.04	ug/l	JMS	8/31/03
TRICHLOROMETHANE	U	0.03	ug/l	JMS	8/31/03
1,1,2-TRICHLOROETHANE	U	0.10	ug/l	JMS	8/31/03

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. ND- NONE DETECTED.

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

CLIENT NAME : MANATEE COUNTY-SWRTP
IDENTIFICATION : SW1 SURFACE WATER LENA RD
SITE : SURFACE WATER, LENA RD LF
TYPE : WATER

Report ID: 0308064170
COLLECTION DATE : 8/19/03
COLLECTION TIME : 12:45
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 8/19/03

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNITS	ANALYST	TIME/DATE STARTED
INORGANICS						
KD11946-03S						
CHLOROPHYLL A	10200 H	0.1	0.93	mg/m3	RLG	16:30 8/20/03

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION.

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

CLIENT NAME : MANATEE COUNTY-SWRTP
IDENTIFICATION : SW1 SURFACE WATER LENA RD
SITE : SURFACE WATER, LENA RD LF
TYPE : WATER

Report ID: 0308064170
COLLECTION DATE : 8/19/03
COLLECTION TIME : 12:45
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 8/19/03

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNITS	ANALYST	TIME/DATE STARTED
ORGANICS						
EDB & DBCP/ENVIRON WATER						
KD11946-02X-5						
ETHYLENE DIBROMIDE	EPA 504	0.01	U	ug/L	JPT	9:35 8/25/03
DIBROMCHLORPROPANE	EPA 504	0.01	U	ug/L	JPT	9:35 8/25/03

DELA

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

Report ID: 0308064170

CLIENT INFORMATION

Client : MANATEE COUNTY-SWRTP
5101 65TH.STREET WEST
BRADENTON FLORIDA 34210
Attention : JEFF GOODWIN

BILLING INFORMATION

Bill To: MANATEE COUNTY-SWRTP

P.O. BOX 1000
BRADENTON, FLORIDA 34206

Purchase Order No. :

Identification : SW2 SURFACE WATER LENA RD LF
Site : SURFACE WATER, LENA RD LF
Type : WATER

FIELD PARAMETERS

SPECIFIC CONDUCTANCE	: 565	MICROMHOS
pH	: 7.94	STANDARD UNITS
WATER TEMPERATURE	: 30.30	DEGREES C
DISSOLVED OXYGEN	: 7.89	mg/L
INITIAL WATER LEVEL	:	
WELL ELEVATION	:	
FIELD TURBIDITY	: 997	NTU
FIELD COLOR	:	
FACILITY GMS #	:	

COMMENTS

FIELD PARA METERS
OBTAINED BY PELA
COLOR: BLK GREY/DIRT COLOR
SHEEN: NONE
UNIQUE ID#

01A APP1 VOL

PELA

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

Report ID: 0308064170

Client Name	: MANATEE COUNTY-SWRTP	COLLECTION DATE :	8/19/03
Identification	: SW2 SURFACE WATER LENA RD LF	COLLECTION TIME :	11:24
Site	: SURFACE WATER, LENA RD LF	COLLECTED BY :	PELA
Type	: WATER	DATE RECEIVED IN LAB :	8/19/03

PARAMETER	RESULTS	DETECTION LIMITS	UNITS	ANALYST	DATE FINISHED
ORGANICS					
		APPENDIX I VOLATILES (EPA 8260)			
KD11947-02Y					
1,2,3-TRICHLOROPROPANE	U	0.3	ug/l	JMS	8/31/03
IODOMETHANE	U	0.5	ug/l	JMS	8/31/03
CIS 1,2-DICHLOROETHENE	U	0.10	ug/l	JMS	8/31/03
T-1,4-DICHLORO-2-BUTENE	U	10.0	ug/l	JMS	8/31/03
STYRENE	U	1.0	ug/l	JMS	8/31/03
1,1,1,2-TETRACHLOROETHANE	U	0.1	ug/l	JMS	8/31/03
2-HEXANONE	U	5.0	ug/l	JMS	8/31/03
DIBROMOMETHANE	U	0.3	ug/l	JMS	8/31/03
2-BUTANONE	U	5.0	ug/l	JMS	8/31/03
ACETONE	U	2.5	ug/l	JMS	8/31/03
VINYL ACETATE	U	10.0	ug/l	JMS	8/31/03
CARBON DISULFIDE	U	4.1	ug/l	JMS	8/31/03
4-METHYL-2-PENTANONE	U	5.0	ug/l	JMS	8/31/03
BROMOCHLOROMETHANE	U	0.5	ug/l	JMS	8/31/03
CHLOROMETHANE	U	0.13	ug/l	JMS	8/31/03
DICHLOROMETHANE	U	0.03	ug/l	JMS	8/31/03
1,1-DICHLOROETHENE	U	0.12	ug/l	JMS	8/31/03
TRICHLOROFLUOROMETHANE	U	0.08	ug/l	JMS	8/31/03
CHLOROETHANE	U	0.10	ug/l	JMS	8/31/03
VINYL CHLORIDE	U	0.17	ug/l	JMS	8/31/03
ACRYLONITRILE	U	1.50	ug/l	JMS	8/31/03
1,1-DICHLOROETHANE	U	0.03	ug/l	JMS	8/31/03
BROMOMETHANE	U	0.11	ug/l	JMS	8/31/03
TOLUENE	U	0.11	ug/l	JMS	8/31/03
1,4-DICHLOROBENZENE	U	0.03	ug/l	JMS	8/31/03
1,1,2,2-TETRACHLOROETHANE	U	0.04	ug/l	JMS	8/31/03
O-XYLENE	U	0.11	ug/l	JMS	8/31/03
TRIBROMOMETHANE	U	0.12	ug/l	JMS	8/31/03
M,P-XYLENES	U	0.11	ug/l	JMS	8/31/03
ETHYLBENZENE	U	0.06	ug/l	JMS	8/31/03
CHLOROBENZENE	U	0.04	ug/l	JMS	8/31/03
TETRACHLOROETHENE	U	0.14	ug/l	JMS	8/31/03
DIBROMOCHLOROMETHANE	U	0.05	ug/l	JMS	8/31/03
TRANS-1,2-DICHLOROETHENE	U	0.06	ug/l	JMS	8/31/03
TRANS-1,3-DICHLOROPROPENE	U	0.04	ug/l	JMS	8/31/03

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

Report ID: 0308064170

Client Name	: MANATEE COUNTY-SWRTP	COLLECTION DATE :	8/19/03
Identification	: SW2 SURFACE WATER LENA RD LF	COLLECTION TIME :	11:24
Site	: SURFACE WATER, LENA RD LF	COLLECTED BY :	PELA
Type	: WATER	DATE RECEIVED IN LAB :	8/19/03

PARAMETER	RESULTS	DETECTION LIMITS	UNITS	ANALYST	DATE FINISHED
1,2-DICHLOROBENZENE	U	0.03	ug/l	JMS	8/31/03
CIS-1,3-DICHLOROPROPENE	U	0.05	ug/l	JMS	8/31/03
BROMODICHLOROMETHANE	U	0.08	ug/l	JMS	8/31/03
TRICHLOROETHENE	U	0.19	ug/l	JMS	8/31/03
1,2-DICHLOROPROPANE	U	0.04	ug/l	JMS	8/31/03
CARBON TETRACHLORIDE	U	0.21	ug/l	JMS	8/31/03
BENZENE	U	0.04	ug/l	JMS	8/31/03
1,2-DICHLOROETHANE	U	0.02	ug/l	JMS	8/31/03
1,1,1-TRICHLOROETHANE	U	0.04	ug/l	JMS	8/31/03
TRICHLOROMETHANE	U	0.03	ug/l	JMS	8/31/03
1,1,2-TRICHLOROETHANE	U	0.10	ug/l	JMS	8/31/03

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. ND- NONE DETECTED.

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

CLIENT NAME : MANATEE COUNTY-SWRTP
IDENTIFICATION : SW2 SURFACE WATER LENA RD
SITE : SURFACE WATER, LENA RD LF
TYPE : WATER

Report ID: 0308064170
COLLECTION DATE : 8/19/03
COLLECTION TIME : 11:24
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 8/19/03

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNITS	ANALYST	TIME/DATE STARTED
INORGANICS						
KD11948-03S						
CHLOROPHYLL A	10200 H	0.1	1.63	mg/m3	RLG	16:30 8/20/03

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION.

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

CLIENT NAME : MANATEE COUNTY-SWRTP
IDENTIFICATION : SW2 SURFACE WATER LENA RD
SITE : SURFACE WATER, LENA RD LF
TYPE : WATER

Report ID: 0308064170
COLLECTION DATE : 8/19/03
COLLECTION TIME : 11:24
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 8/19/03

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNITS	ANALYST	TIME/DATE STARTED
ORGANICS						
EDB & DBCP/ENVIRON WATER						
KD11948-02X-5						
ETHYLENE DIBROMIDE	EPA 504	0.01	U	ug/L	JPT	10:07 8/25/03
DIBROMCHLORPROPANE	EPA 504	0.01	U	ug/L	JPT	10:07 8/25/03

PELA

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

ACCREDITED IN ACCORDANCE WITH nelac

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : SURFACE WATER, LENA RD L

WELL NAME : SW1 SURFACE WATER LENA RD LF

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

REPORT FORM (LAMMOTTE)

Report ID: 0308064170

SAMPLING DATE/TIME : 8/19/03 12:45:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 8/19/03

COLLECTION TIME : 12:45

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 8/19/03

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE	TIME	ANALYSIS RESULTS	UNITS	DETECTION LIMITS	UNITS
	ORGANICS KD11945- APPENDIX I VOLATILES (	*	N				Completed			

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

	ORGANICS KD11945-02Y									
306	1,1,1-trichloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.04	ug/l
34516	1,1,2,2-tetrachloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.04	ug/l
34511	1,1,2-trichloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.10	ug/l
34496	1,1-dichloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.03	ug/l
34501	1,1-dichloroethene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.12	ug/l
34536	1,2-dichlorobenzene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.03	ug/l
34531	1,2-dichloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.02	ug/l
34541	1,2-dichloropropane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.04	ug/l
34571	1,4-dichlorobenzene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.03	ug/l
34215	Acrylonitrile	*	N	EPA 8260	8/31/03	21:18	U	ug/l	1.50	ug/l
34030	Benzene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.04	ug/l
32101	Bromodichloromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.08	ug/l
34413	Bromomethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.11	ug/l
32102	Carbon tetrachloride	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.21	ug/l
34301	Chlorobenzene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.04	ug/l
34311	Chloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.10	ug/l
34418	Chloromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.13	ug/l
34704	cis-1,3-dichloropropene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.05	ug/l
32105	Dibromochloromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.05	ug/l
34423	Dichloromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.03	ug/l
34371	Ethylbenzene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.06	ug/l
81551	m,p-Xylenes	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.11	ug/l
77135	o-Xylene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.11	ug/l
34475	Tetrachloroethene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.14	ug/l
34010	Toluene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.11	ug/l
34546	trans-1,2-dichloroethene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.06	ug/l

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

ACCREDITED IN ACCORDANCE WITH nelac

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : SURFACE WATER, LENA RD L

WELL NAME : SW1 SURFACE WATER LENA RD LF

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0308064170

SAMPLING DATE/TIME : 8/19/03 12:45:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 8/19/03

COLLECTION TIME : 12:45

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 8/19/03

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	DETECTION UNITS
34699	trans-1,3-dichloropropene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.04	ug/l
32104	Tribromomethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.12	ug/l
39180	Trichloroethene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.19	ug/l
34488	Trichlorofluoromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.08	ug/l
32106	Trichloromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.03	ug/l
39175	Vinyl Chloride	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.17	ug/l
	KD11945-02Y									
62	1,1,1,2-tetrachloroethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.1	ug/l
/443	1,2,3-Trichloropropane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.3	ug/l
81595	2-Butanone	*	N	EPA 8260	8/31/03	21:18	U	ug/l	5.0	ug/l
77103	2-Hexanone	*	N	EPA 8260	8/31/03	21:18	U	ug/l	5.0	ug/l
78133	4-Methyl-2-pentanone	*	N	EPA 8260	8/31/03	21:18	U	ug/l	5.0	ug/l
81552	Acetone	*	N	EPA 8260	8/31/03	21:18	U	ug/l	2.5	ug/l
73085	Bromochloromethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.5	ug/l
81309	Carbon Disulfide	*	N	EPA 8260	8/31/03	21:18	U	ug/l	4.1	ug/l
77093	cis 1,2-Dichloroethene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.10	ug/l
34536	Dibromomethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.3	ug/l
77424	Iodomethane	*	N	EPA 8260	8/31/03	21:18	U	ug/l	0.5	ug/l
77128	Styrene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	1.0	ug/l
49263	t-1,4-Dichloro-2-butene	*	N	EPA 8260	8/31/03	21:18	U	ug/l	10.0	ug/l
77057	Vinyl Acetate	*	N	EPA 8260	8/31/03	21:18	U	ug/l	10.0	ug/l

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

PELA

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

ACCREDITED IN ACCORDANCE WITH nelac

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : SURFACE WATER, LENA RD L

WELL NAME : SW1 SURFACE WATER LENA RD LF

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0308064170

SAMPLING DATE/TIME : 8/19/03 12:45:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 8/19/03

COLLECTION TIME : 12:45

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 8/19/03

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	DETECTION UNITS
	INORGANICS									
	KD11946-03S									
32223	CHLOROPHYLL A	*	N	10200 H	8/20/03	16:30	0.93	mg/m3	0.1	mg/m3

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

	ORGANICS									
	KD11946-									
	EDB & DBCP/EW	*	N				Completed			

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

	ORGANICS									
	KD11946-02X-5									
38437	DIBROMCHLORPROPANE	*	N	EPA 504	8/25/03	9:35	U	ug/L	0.01	ug/L
46369	ETHYLENE DIBROMIDE	*	N	EPA 504	8/25/03	9:35	U	ug/L	0.01	ug/L

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

PELA

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Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

ACCREDITED IN ACCORDANCE WITH nelac

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : SURFACE WATER, LENA RD L

WELL NAME : SW2 SURFACE WATER LENA RD LF

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0308064170

SAMPLING DATE/TIME : 8/19/03 11:24:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 8/19/03

COLLECTION TIME : 11:24

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 8/19/03

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	DETECTION UNITS
	ORGANICS KD11947- APPENDIX I VOLATILES (	*	N				Completed			

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

	ORGANICS KD11947-02Y									
306	1,1,1-trichloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.04	ug/l
34516	1,1,2,2-tetrachloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.04	ug/l
34511	1,1,2-trichloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.10	ug/l
34496	1,1-dichloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.03	ug/l
34501	1,1-dichloroethene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.12	ug/l
34536	1,2-dichlorobenzene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.03	ug/l
34531	1,2-dichloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.02	ug/l
34541	1,2-dichloropropane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.04	ug/l
34571	1,4-dichlorobenzene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.03	ug/l
34215	Acrylonitrile	*	N	EPA 8260	8/31/03	22:23	U	ug/l	1.50	ug/l
34030	Benzene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.04	ug/l
32101	Bromodichloromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.08	ug/l
34413	Bromomethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.11	ug/l
32102	Carbon tetrachloride	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.21	ug/l
34301	Chlorobenzene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.04	ug/l
34311	Chloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.10	ug/l
34418	Chloromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.13	ug/l
34704	cis-1,3-dichloropropene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.05	ug/l
32105	Dibromochloromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.05	ug/l
34423	Dichloromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.03	ug/l
34371	Ethylbenzene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.06	ug/l
81551	m,p-Xylenes	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.11	ug/l
77135	o-Xylene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.11	ug/l
34475	Tetrachloroethene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.14	ug/l
34010	Toluene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.11	ug/l
546	trans-1,2-dichloroethene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.06	ug/l

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

ACCREDITED IN ACCORDANCE WITH nelac

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : SURFACE WATER, LENA RD L

WELL NAME : SW2 SURFACE WATER LENA RD LF

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0308064170

SAMPLING DATE/TIME : 8/19/03 11:24:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 8/19/03

COLLECTION TIME : 11:24

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 8/19/03

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	DETECTION UNITS
34699	trans-1,3-dichloropropene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.04	ug/l
32104	Tribromomethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.12	ug/l
39180	Trichloroethene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.19	ug/l
34488	Trichlorofluoromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.08	ug/l
32106	Trichloromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.03	ug/l
39175	Vinyl Chloride	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.17	ug/l
	KD11947-02Y									
562	1,1,1,2-tetrachloroethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.1	ug/l
/443	1,2,3-Trichloropropane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.3	ug/l
81595	2-Butanone	*	N	EPA 8260	8/31/03	22:23	U	ug/l	5.0	ug/l
77103	2-Hexanone	*	N	EPA 8260	8/31/03	22:23	U	ug/l	5.0	ug/l
78133	4-Methyl-2-pentanone	*	N	EPA 8260	8/31/03	22:23	U	ug/l	5.0	ug/l
81552	Acetone	*	N	EPA 8260	8/31/03	22:23	U	ug/l	2.5	ug/l
73085	Bromochloromethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.5	ug/l
81309	Carbon Disulfide	*	N	EPA 8260	8/31/03	22:23	U	ug/l	4.1	ug/l
77093	cis 1,2-Dichloroethene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.10	ug/l
34536	Dibromomethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.3	ug/l
77424	Iodomethane	*	N	EPA 8260	8/31/03	22:23	U	ug/l	0.5	ug/l
77128	Styrene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	1.0	ug/l
49263	t-1,4-Dichloro-2-butene	*	N	EPA 8260	8/31/03	22:23	U	ug/l	10.0	ug/l
77057	Vinyl Acetate	*	N	EPA 8260	8/31/03	22:23	U	ug/l	10.0	ug/l

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

DELA

REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
Geochemistry Laboratory
4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

ACCREDITED IN ACCORDANCE WITH nelac

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : SURFACE WATER, LENA RD L

WELL NAME : SW2 SURFACE WATER LENA RD LF

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0308064170

SAMPLING DATE/TIME : 8/19/03 11:24:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 8/19/03

COLLECTION TIME : 11:24

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 8/19/03

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	DETECTION UNITS
	INORGANICS									
	KD11948-03S									
32223	CHLOROPHYLL A	*	N	10200 H	8/20/03	16:30	1.63	mg/m3	0.1	mg/m3

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

	ORGANICS									
	KD11948-									
	EDB & DBCP/EW	*	N				Completed			

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

	ORGANICS									
	KD11948-02X-5									
38437	DIBROMCHLORPROPANE	*	N	EPA 504	8/25/03	10:07	U	ug/L	0.01	ug/L
46369	ETHYLENE DIBROMIDE	*	N	EPA 504	8/25/03	10:07	U	ug/L	0.01	ug/L

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

DATA QUALIFIER CODES

A	VALUE REPORTED IS THE MEAN (AVERAGE) OF TWO OR MORE DETERMINATIONS.
J	Estimated value,may not be accurate. Use of this code requires justification for its use and is used in the following situations: 1. Exceeding of surrogate recovery limits. 2. Existence of no quality control criteria for a component. 3. Failure to meet established precision and accuracy criteria. 4. Matrix interference. 5. QUESTIONABLE DATA DUE TO IMPROPER FIELD OR LAB PROTOCOLS. "J" Values are exclusive and are not used in conjunction with other codes.
Q	ANALYZED AFTER HOLDING TIME EXPIRED.
>	GREATER THAN .
U	LESS THAN THE METHOD DETECTION LIMIT.
V	BLANK CONTAMINATION. RESULTS ARE VALID AND CAN BE REPORTED.
X	TIME OF COLLECTION NOT PROVIDED.
#	NO SAMPLE RECEIVED.

JG/ecc

P.E. LaMoreaux & Associates
4320 Old Highway 37
Lakeland, Florida 33813
(863) 646-8526

CHAIN OF CUSTODY

№ 64169

REPORTING ADDRESS:
ATTN: Jeff Goodwin
CLIENT: Manatee Co.
ADDRESS:

INVOICING ADDRESS:
ATTN:
CLIENT:
ADDRESS:

PROJECT NAME: 2nd Bi-annual Sampling
PROJECT LOCATION: Lena Rd Landfill
PROJECT NO.:
PURCHASE ORDER NO.:
PROJECT CONTACT: Jeff
PROJECT TEL. NO.:
SAMPLER NAME(S): Stelms

PAGE ___ OF ___

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	TYPE: (W)ATER (S)OIL (O)THER	REQUIRED ANALYSIS: Bod, TSS	TDS, NO3 ~~NO2~~	TOC, cod	NH3, P04, TN	THD, Cu, Fe, Hg, Zn	fcb	FIELD PARAMETERS: SC (umhos/cm)	pH	TEMP (°C)	D.O.	NTU
8/19/03	1245	Sw 1	W	1 P I	1 P I	1 P SU	1 P SU	1 P N	1 P I	348	7.20	32.03	3.62	3.00
"	1224	Sw 2	W	"	"	"	"	"	"	565	7.94	32.30	7.89	4.97
"	—	Duplicate	W	"	"	"	"	"	—	—	—	—	—	—
		Sw 1 Color: lightTan												
		Sw 1 sheen: none												
		Sw 2 Color: black/grey dirt color												
		Sw 2 sheen: none												

NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE
CONTAINER TYPES: (P)LASTIC (G)LASS (O)THER
PRESERVATIVES: (S)ODIUM HYDROXIDE (Su)LFURIC (N)ITRIC (H)YDROCLORIC (I)CED (O)THER

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	8-19-03	1345	G Mangerich				

FOR PELA LABORATORY USE ONLY

RECEIVED FOR LAB	DATE	TIME	WORK ORDER #

LABORATORY REMARKS:

P.E. LAMOREAUX & ASSOCIATES, INC.
GENERAL CONDITIONS

1. **Authorized To Proceed:** Signing the Chain of Custody Form shall be constructed as authorization by Client and PELA to proceed with work.

2. **Cost Estimates:** Any cost estimated provided by PELA will be on a basis of experience and judgement. PELA has no control over market conditions or bidding procedures and therefore cannot warrant that bids or ultimate costs will not vary from these cost estimates.

3. **Right of Entry:** Client will provide right of entry for PELA. While PELA will take all reasonable precautions to minimize any damage to the property, the client must understand that in the normal course of work some damages may occur, the correction of which is not part of this agreement.

4. **Utilities:** PELA will take responsible precautions to avoid damage or injury to subterranean structures or utilities. Client agrees to hold PELA harmless for any damages to subterranean structures which are not called to PELA's attention and correctly shown on the plans furnished.

5. **Samples:** Unless otherwise provided for, test specimen will be Disposed of immediately upon completion of tests. Drilling samples will disposed of thirty days after submission of our report. Upon written request, we will retain test specimen or drilling samples for a $15.00 a month storage charge. An additional fee will be charged for disposal of hazardous samples.

6. **Standard of Care:** PELA warrants that its services are performed within the limits prescribed by our clients, with the usual thoroughness and competence of professional geologists, hydrologists, and environmental scientists. No other warranty or representation, either expresses or implied, is included or intended in our proposals, contracts, or reports.

7. **Payment to PELA:** Cash payment is due upon receipt of samples. Upon approval of a credit application, monthly invoices will be issued by PELA for all work performed under the terms of this agreement. Terms are net thirty (30) days. If, during the execution of the work, PELA is required to stop operations as a result of changes in the scope of work, such as requests by client or requirements or delays of third parties, additional charges will be applicable. Invoices are due and payable on receipt, Interest at the rate of 1.5% per month will be charged on all past due amount, unless not permitted by law, work will be halted if payment is not received within an acceptable time frame.

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64169

REPORTING ADDRESS:
ATTN: Jeff Goodwin
CLIENT: Manatee Co.
ADDRESS:

P.E. LaMoreaux & Associates
4320 Old Highway 37
Lakeland, Florida 33813
(863) 646-8526

CHAIN OF CUSTODY

INVOICING ADDRESS:
ATTN:
CLIENT:
ADDRESS:

PROJECT NAME: 1st Bi-Annual Sampling
PROJECT LOCATION: Lena Rd Landfill
PROJECT NO.:
PURCHASE ORDER NO.:
PROJECT CONTACT: Jeff
PROJECT TEL. NO.:
SAMPLER NAME(S): S Helms

PAGE: OF

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	TYPE: (W)ATER (S)OIL (O)THER	REQUIRED ANALYSIS: Bod, TSS	TDS, NO3, ~~NO2~~	Toc, cod	NH3, P04, TN	THD, cu, fe, Hg, zn	fcb	FIELD PARAMETERS: SC (umhos/cm)	pH	TEMP (°C)	D.O.	Ntu
8/19/03	1245	Sw 1	W	1 P 2	1 P 1	1 P Su	1 P Su	1 P N	1 P 1	348	7.20	32.03	3.62	3.00
"	1324	Sw 2	W	"	"	"	"	"	"	365	7.94	30.30	7.89	9.97
"	—	Duplicate	W	"	"	"	"	"	—	—	—	—	—	—
		Sw 1 Color: light tan												
		Sw 1 sheen: none												
		Sw 2 Color: black/grey dirt color												
		Sw 2 sheen: none												

NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE
CONTAINER TYPES: (P)LASTIC (G)LASS (O)THER
PRESERVATIVES: (S)ODIUM HYDROXIDE (Su)LFURIC (N)ITRIC (H)YDROCLORIC (I)CED (O)THER

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	8-19-03	1345	G Mangerich				

FOR PELA LABORATORY USE ONLY

RECEIVED FOR LAB	DATE	TIME	WORK ORDER #

LABORATORY REMARKS:

P.E. LAMOREAUX & ASSOCIATES, INC.
GENERAL CONDITIONS

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P.E. LaMoreaux & Associates
4320 Old Highway 37
Lakeland, Florida 33813
(863) 646-8526

CHAIN OF CUSTODY

64170

REPORTING ADDRESS:
ATTN: Jeff Goodwin
CLIENT: Manatee Co.
ADDRESS:

INVOICING ADDRESS:
ATTN:
CLIENT:
ADDRESS:

PROJECT NAME: 2nd B. Annual Sampling
PROJECT LOCATION: Lena Rd Landfill
~~PROJECT NO.~~: Surface Waters
PURCHASE ORDER NO.:
PROJECT CONTACT: Jeff
PROJECT TEL. NO.:
SAMPLER NAME(S): S Helms

PAGE ___ OF ___

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	TYPE: (W)ATER (S)OIL (O)THER	REQUIRED ANALYSIS: App1 vol	EDB	CHA		Color	Sheen	FIELD PARAMETERS: SC (umnos/cm)	pH	TEMP (°C)	D.O.
8/14/03	13:45	SW 1 FD11945 - FD11946	W	2	2	2		Light tan	None	744	7.20	32.03	3.62
"	14:24	SW 2 FD11947 - FD11948	W	1	1	1		blk/brn dist.	None	565	7.94	30.30	7.89
"	2	Duplicate FD11949 - FD11950	W										

NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE
CONTAINER TYPES: (P)LASTIC (G)LASS (O)THER
PRESERVATIVES: (S)ODIUM HYDROXIDE (Su)LFURIC (N)ITRIC (H)YDROCLORIC (I)CED (O)THER

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	8/15/03	1621					

FOR PELA LABORATORY USE ONLY

RECEIVED FOR LAB	DATE	TIME	WORK ORDER #
	8/19/03	1621	03080647

LABORATORY REMARKS:

SECTION 1 of 1

P.E. LAMOREAUX & ASSOCIATES, INC.
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ATTN: Jeff Goodwin
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(863) 646-8526

CHAIN OF CUSTODY

INVOICING ADDRESS:
ATTN:
CLIENT:
ADDRESS:

PROJECT NAME	PROJECT LOCATION
2nd B Annual Sampling	Lena Rd Landfill
PROJECT NO.	PURCHASE ORDER NO.
Surface Waters	
PROJECT CONTACT	PROJECT TEL. NO.
J. Fr	
SAMPLER NAME(S)	
S Hydes	

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	TYPE: (W)ATER (S)OIL (O)THER	REQUIRED ANALYSIS: App 1 Vol	EDS	CHA		1601	Sheen	FIELD PARAMETERS: SC (umhos/cm)	pH	TEMP (°C)	D.O.	
8/11/05	1245	Sw 1	W	2	6	2	6	1	2	394	7.20	32.3	3.62	365
	1420	Sw 2	W				6	1	2	565	7.41	34.30	7.89	997
		Duplicate	W				6	1	2	—	—	—	—	—

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PAGE OF

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	8/11/05	1621					

FOR PELA LABORATORY USE ONLY

RECEIVED FOR LAB	DATE	TIME	WORK ORDER #
	8/11/05	1621	050811017

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SECTION 1 of 1

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MANATEE COUNTY UTILITY OPERATIONS INDUSTRIAL COMPLIANCE
SAMPLING CHAIN-OF-CUSTODY

☐ RESAMPLING CHAIN-OF-CUSTODY NUMBER: 991288

☐ INSPECTED

FACILITY: Manatee County Landfill SIC. NO. _____
FACILITY ADDRESS: 333 Lena Rd
DATE SAMPLED: 10-14-03 TIME: 0815 SAMPLER: Thomas
SAMPLE LOCATION: SW-2

SAMPLE CONTAINER I.D.: 991288 SAMPLE COLLECTION TYPE: Grab
SAMPLE SPLIT WITH FACILITY: NO
FACILITY REPRESENTATIVE & TITLE: N/A

FIELD DATA:

PARAMETER: N/A CALIBRATION DATA: _____

RESULTS: _____

COMPOSITE SCHEDULE: N/A
WAS AUTOMATED SAMPLING EQUIPMENT USED? NO
GRAB SCHEDULE: Collected 300 mls @ 0815

PARAMETER LEGEND:

IDENTIFICATION	PARAMETER	PRESERVATIVE	NUMBER OF CONTAINERS
991288	Fecal	Ø	2

CUSTODY TRANSFER:

RELINQUISHED BY	RELINQUISHED TO	COMPANY I.D.	DATE	TIME	N.O.C.
Scott Denn	Anna Reed	Central Lab.	10-14-03	9:40	2

MANATEE COUNTY UTILITY OPERATIONS INDUSTRIAL COMPLIANCE
SAMPLING CHAIN-OF-CUSTODY

☐ RESAMPLING CHAIN-OF-CUSTODY NUMBER: 991289

☐ INSPECTED

FACILITY: Manatee County Landfill SIC. NO. _____
FACILITY ADDRESS: 333 Lenac Rd.
DATE SAMPLED: 10-14-03 TIME: 17:50 SAMPLER: Thomas
SAMPLE LOCATION: SW 1

SAMPLE CONTAINER I.D.: 991289 SAMPLE COLLECTION TYPE: Grab
SAMPLE SPLIT WITH FACILITY: NO
FACILITY REPRESENTATIVE & TITLE: N/A

FIELD DATA:

PARAMETER: N/a CALIBRATION DATA: _____

RESULTS: _____

COMPOSITE SCHEDULE: N/A
WAS AUTOMATED SAMPLING EQUIPMENT USED? NO
GRAB SCHEDULE: Collected 300 mls @ 07:50

PARAMETER LEGEND:

IDENTIFICATION	PARAMETER	PRESERVATIVE	NUMBER OF CONTAINERS
991289	Fecal	Ø	2

CUSTODY TRANSFER:

RELINQUISHED BY	RELINQUISHED TO	COMPANY I.D.	DATE	TIME	N.O.C.
Scott Thomas	Anna Reed	Central Lab.	10-14-03	9:40	2