



MANATEE COUNTY GOVERNMENT

Reg. # 34834

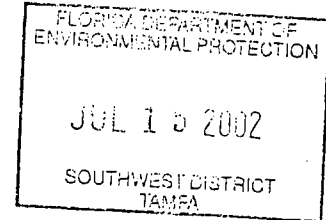
JRM
6/1/02

Utility Operations Department

July 11, 2002

GW
SW
LEACHATE

Mr. John Morris, PG
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619



Re: Semi-Annual Sample Results - First Half 2002
Lena Road Landfill and Erie Road Landfill

Dear Mr. Morris:

Please find enclosed the laboratory analytical reports and Ground Water Monitoring Report Certification Form for the Lena Road Landfill. As you are aware, PBS&J provided a summary and a review of the analytical results from this sampling event in the Biennial Report submitted to your office on December 15, 2001. A groundwater elevation contour map was also included in that report.

Also enclosed are the laboratory analytical reports, Ground Water Monitoring Report Certification Form, groundwater elevation contour map, and review of the results from PBS&J for the Erie Road Landfill. The Manatee County Solid Waste Division is currently utilizing P.E. LaMoreaux & Associates, Inc. and the County's Central Laboratory for its sampling events. Applicable pages from each of the laboratory's Quality Assurance Plan are enclosed for your records.

If you have any questions regarding these submittals, please contact Greg Mudd, P.G., Senior Geologist, PBS&J, at 800/284-5182, extension 339. Thank you.

Sincerely,

Daniel T. Gray
Director

DTG/gbp

cc: Gus DiFonzo, Solid Waste Division Manager *HAT*
C. Michael Gore, Landfill Superintendent
Gwen Pagation, Solid Waste Program Specialist

OMITTED ANALYSIS
OF NITRATE
DATA PROVIDED BY
MANATEE COUNTY LAG
NOT PROVIDED IN
REPORT FORM FORMAT

FEB 2002
SAMPLING
EVENT

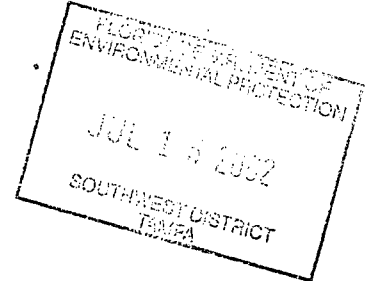
EXCLUDED MOL
REPORTED FOR
SELENIUM



An employee-owned company

July 3, 2002

Mr. Gus Difonzo
 Solid Waste Division
 Manatee County Public Works Department
 4410 66th Street West
 Bradenton, FL 34210



**RE: Semi-Annual Water Quality Monitoring Report
 First Half 2002 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 Lena Road Landfill (LRL). This report presents the results of the First Half of 2002 sampling event.

Background

The water quality monitoring network at the LRL is designed to monitor the leachate, surface water of Cypress Strand, and the groundwater within both the surficial and Floridan, or artesian (deep) aquifers. The leachate samples are collected from the pump station. The surface water samples are collected from two points along Cypress Strand, one upstream that is designated SW-2, and one downstream that is designated SW-1. There are 26 wells that are used to monitor groundwater quality. They are designated CW-4, CW-5A, GC-1A through GC-6, LRII-1 through LRII-5, MW-1 through MW-6, SA-1 through SA-8, and SMR-1 and SMR-2. The wells designated SA-1 through SA-8 and SMR-2 are used to monitor the groundwater of the artesian (deep) aquifer, whereas the other wells monitor the surficial aquifer. The wells GC-6 and SMR-1 are the designated background wells for the surficial aquifer; the well SMR-2 is the designated background well for the artesian aquifer. A summary of the components that comprise the water quality network is presented in Table 1.

A Florida Department of Environmental Protection (FDEP) Ground Water Monitoring Report form for the First Half 2001 sampling event is provided in Attachment A.

Groundwater Sample Collection Methodology

The leachate and surface water samples for the First Half 2002 sampling event were collected on February 11 and 12, 2002. The groundwater samples were collected on February 13, 14, 15, 20, and 21, 2002. The samples were collected by representatives of P.E. LaMoreaux and Associates, Inc. (PELA), and were analyzed at PELA's Lakeland, Florida laboratory. The samples were collected in accordance with the FDEP's Standard Operating Procedure 001/01. Depth-to-groundwater measurements were made

Mr. Gus Difonzo
July 3, 2002
Page 2

from the top-of-casing (TOC) at each monitoring well at the time of sample collection. Copies of the field data and instrument calibration sheets from the sampling event are provided in Attachment B.

In accordance with the LRL's permit, the leachate samples collected during this sampling event were analyzed for total ammonia-N, bicarbonate, chlorides, iron, mercury, nitrate, sodium, total dissolved solids (TDS), and all of the parameters listed in Appendices I and II of 40 Code of Federal Regulations (CFR) Part 258.

The surface water samples were analyzed for unionized ammonia, total hardness, biochemical oxygen demand (BOD), copper, mercury, iron, nitrate, zinc, TDS, total organic carbon (TOC), fecal coliform, total phosphorus, chlorophyll A, total nitrogen, chemical oxygen demand (COD), total suspended solids (TSS), and the Appendix I parameters.

The groundwater samples were analyzed for total ammonia-N, chlorides, iron, mercury, nitrate, sodium, TDS and Appendix I parameters.

Analytical Results

A summary of the leachate, groundwater, and surface water analytical results for the First Half 2002 sampling event is presented in Tables 2, 3, and 4, respectively. The concentration of each parameter detected in the leachate and the groundwater was compared to its respective groundwater Maximum Contaminant Level (MCL). Any MCL exceedance is shown with shading on the tables. The MCLs are promulgated by Chapter 62-550, FAC, but MCLs have not been established for every parameter. The MCLs do not apply to leachate, and were used here only as a point of reference. With regard to the surface water results, the Surface Water Cleanup Target Levels (SWCTLs), as promulgated in Chapter 62-777 of the FAC, were used as reference criteria for the laboratory results and the groundwater MCLs were used for the field measurements.

A summary of the significant detections with each media is presented below. The complete laboratory reports are provided in Attachment C.

Leachate Analytical Summary

The only analytes that were detected in the leachate at concentrations in excess of their respective test method's detection limits were inorganic compounds. The analytes that were detected were bicarbonate, chloride, iron, nitrate, sodium, total ammonia-N, TDS, arsenic, selenium, and zinc. The concentration of chloride, iron, sodium, and TDS exceeded their respective groundwater MCL. These detections are shaded in Table 2.

Surface Water Analytical Summary

The only analytes that were detected in the surface water samples at concentrations in excess of their respective test method's detection limits were inorganic compounds. The analytes that were detected were chlorophyll-A, COD, conductivity, fecal coliform, iron, sodium, total ammonia-N, TDS, TOC, total hardness, total nitrogen, total phosphorus, TSS, unionized ammonia, arsenic, barium, chromium, and vanadium. All of these analytes were detected in the samples collected at SW-1 and SW-2. The only

field parameter that exceeded the groundwater MCL was turbidity in the samples collected at both SW-1 and SW-2. The laboratory parameters that exceeded their respective SWCTLs were iron, in both surface water samples and TDS in the SW-2 sample. These detections are shaded in Table 3.

Groundwater Analytical Summary

Detections in the groundwater monitoring well network were limited inorganic analytes. The analytes that were detected in the laboratory samples at concentrations in excess of their respective test method's detection limits were chloride, iron, nitrate, sodium, total ammonia-N, TDS, arsenic, barium, cadmium, lead, zinc, beryllium, cobalt, nickel, and vanadium. There are five parameters that were detected at one or more wells in the monitoring well network at concentrations that exceeded their respective MCLs. They are pH, turbidity (field measurement), iron, TDS, and arsenic. These analytes are shaded in Table 4. A summary of the exceedances is presented below.

- *pH* – The pH value measured lower than the prescribed MCL range (6.5-8.5 SU) in he groundwater samples collected at every surficial aquifer well except CW-4, CW-5A, GC-1A, and GC-4. The pH value at the two background wells was lower than the MCL range. The pH value was within the prescribed MCL range in the samples collected at all of the deep (artesian) aquifer wells except SA-8.
- *Turbidity* – The field turbidity reading at well SA-8 was higher than the MCL (20 NTU).
- *Iron* – The concentration of iron exceeded the MCL (0.3 mg/L) in the samples collected at all of the surficial aquifer wells except one of the background wells, SMR-1. The iron concentration at all of the deep (artesian) aquifer wells was below the MCL.
- *TDS* – The MCL for TDS (500 mg/L) was exceeded in the samples collected at one of the surficial aquifer monitoring wells, CW-4, and one of the deep (artesian) aquifer wells, SA-6. The TDS concentration in the three background wells ranged from 115 mg/L to 384 mg/L.
- *Arsenic* – The concentration of arsenic exceeded the MCL (0.05 mg/L) in the samples collected at the shallow monitoring wells GC-2 and MW-2. The concentration of arsenic was below the test method's detection limits in one of the background wells, and measured 0.008 mg/L at the other background well.

Analytical Trends and Analysis

The detection pattern during this sampling event was consistent with the results of the 2001 sampling events. The only parameters that were detected in the monitoring network were inorganics, and the only parameters that were detected throughout the network at concentrations in excess of regulatory criteria were pH, TDS, turbidity, and iron. Sodium, chloride, and some of the trace metals, including arsenic, were detected at relatively low concentrations.

Chloride, iron, sodium, and TDS were detected in the leachate at elevated concentrations. TDS, pH, turbidity, and iron were detected at elevated concentrations in the rest of the monitoring

Mr. Gus Difonzo
July 3, 2002
Page 4

network. The groundwater of the surficial aquifer had detections of pH, iron, TDS, and turbidity at concentrations in excess of their respective MCL, and several other parameters, including arsenic, cobalt, barium, lead, copper, zinc, nickel, and vanadium, were detected at lower concentrations. Most of the same parameters were detected in the deep (artesian) aquifer wells but not at concentrations in excess of their respective MCLs. Most of the same parameters were also detected in the background wells, suggesting that the elevated concentrations of these parameters reflect the local chemistry of the groundwater.

Groundwater Flow Pattern

The depth to water measurement at each monitoring well is provided on the first line of Table 3. The water level measurements were subtracted from the TOC elevations to determine the elevation of the water table at each well. The TOC elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD). The water table elevation data from the shallow monitoring wells was plotted and contoured to generate the groundwater elevation contour map for the surficial aquifer presented as Figure 1. The data from the deep (artesian) wells was used to generate the deep (artesian) aquifer contour map presented in Figure 2.

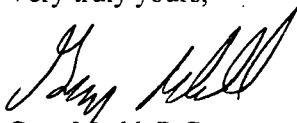
The figures indicate that the groundwater within both aquifers (outside the boundary of the landfill) flowed in a west-southwesterly direction. The average horizontal gradient was 0.001 feet per foot (ft/ft). The groundwater elevation contour maps indicate that the groundwater within the artesian aquifer also flowed to the north-northwest at an average horizontal gradient was 0.006 ft/ft.

Conclusions and Recommendations

The detection pattern for this sampling event is consistent with the results of the recent sampling events, with several inorganic parameters detected throughout the monitoring network. Chloride, iron, sodium, and TDS were detected in the leachate at elevated concentrations. TDS, pH, turbidity, and iron were detected at elevated concentrations in the rest of the monitoring network. Sodium, chloride, and some of the trace metals, including arsenic, were detected throughout the monitoring network at lower concentrations. The arsenic detections should continued to be monitored for any developing trends.

Please call me at (800) 284-5182, ext. 339 if you have any questions.

Very truly yours,



Greg Mudd, P.G.
Senior Geologist

C: File, 120498.05 0301

Table 4

Surface Water Analytical Summary

Table 4 - Surface Water Analytical Summary, First Half, 2002

DATE OF TEST			SW-1	SW-2
			03/14/02	03/15/02
	Maximum Contaminant Level	UNITS		
Field Data				
Temp, Field		C	18.3	21.6
pH, Field	6.5-8.5	STD	6.98	6.69
Cond, Field		umhos/cm	480	525
Dissolved Oxygen, Field		mg/l	5.07	5.92
Turbidity, Field	1.0	NTU	20.9	6.42
Laboratory				
	SWCTL			
BOD		mg/l	<2.00	<2.00
Chlorophyll A		mg/m3	19.9	22.6
COD		mg/l	152	261
Conductivity		umhos/cm	525	480
Fecal Coliform		col/100ml	350	60
Iron	0.3	mg/l	3.44	3.97
Mercury	0.002	ug/l	<1.00	<1.00
Sodium	160	mg/l	57.8	68.1
T. Ammonia-N		mg/l	0.128	0.051
TDS	500	mg/l	488	596
TOC		mg/l	28.9	90.4
Total Hardness		mg/l	46.7	46.5
Total Nitrogen		mg/l	1.22	3.28
Total Phosphorous		mg/l	0.467	0.160
TSS		mg/l	5.9	4.30
Unionized Ammonia		mg/l	0.0006	0.0001
CFR Part 258 Appendix 1				
Inorganic:				
Antimony	0.006	mg/l	<0.002	<0.002
Arsenic	0.05	mg/l	<0.007	0.026
Barium	2	mg/l	0.012	0.012
Beryllium	0.004	mg/l	<0.0002	<0.0002
Cadmium	0.005	mg/l	<0.0005	<0.0005
Chromium	0.1	mg/l	0.002	0.003
Cobalt		mg/l	<0.001	<0.001
Copper	1	mg/l	<0.005	<0.005
Lead	0.015	mg/l	<0.005	<0.005
Nickel	0.1	mg/l	0.002	0.003
Selenium	0.05	mg/l	<0.010	<0.010
Silver	0.1	mg/l	<0.002	<0.002
Thallium	0.002	mg/l	<0.0004	<0.0004
Vanadium		mg/l	0.0034	0.003
Zinc	5	mg/l	<0.010	<0.010
Organic (1):				
Acetone	700	ug/l	<2.5	<2.5
Acrylonitrile	8	ug/l	<1.5	<1.5
Benzene	1	ug/l	<0.04	<0.04
Bromochloromethane		ug/l	<0.5	<0.5
Bromodichloromethane	0.6	ug/l	<0.08	<0.08
Bromoform	4	ug/l	<0.12	<0.12
Carbon Disulfide	700	ug/l	<4.1	<4.1
Carbon tetrachloride	3	ug/l	<0.21	<0.21
Chlorobenzene		ug/l	<0.04	<0.04
Chloroethane	140	ug/l	<0.1	<0.1
Chloroform	6	ug/l	<0.03	<0.03
Dibromochloromethane	1	ug/l	<0.05	<0.05
1,2-Dibromo-3-chloropropane	0.2	ug/l	<0.01	<0.01

Table 4 - Surface Water Analytical Summary, First Half, 2002

DATE OF TEST			SW-1	SW-2
			2/20/02	2/20/02
Ethylene dibromide		ug/l	<0.01	<0.01
o-dichlorobenzene	600	ug/l	<0.03	<0.03
Para-dichloro-benzene	75	ug/l	<0.03	<0.03
trans-1,4-Dichloro-2-butene		ug/l	<10	<10
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	5	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	<5	<5
Methyl bromide	10	ug/l	<0.11	<0.11
Chloromethane	2.7	ug/l	<0.13	<0.13
Methylene bromide		ug/l	<0.03	<0.03
Methylene chloride	5	ug/l	<0.03	<0.03
2-butanone	4200	ug/l	<5	<5
Methyl iodide		ug/l	<0.5	<0.5
4-methyl-2-pentanone	350	ug/l	<5	<5
Styrene	100	ug/l	<1	<1
1,1,1,2-tetra-chloroethane	1	ug/l	<0.1	<0.1
1,1,2,2-tetra-chloroethane	0.2	ug/l	<0.04	<0.04
Tetrachloroethene	3	ug/l	<0.14	<0.14
Toluene	40	ug/l	<0.11	<0.11
1,1,1-trichloro-ethane	200	ug/l	<0.04	<0.04
1,1,2-trichloro-ethane	5	ug/l	<0.1	<0.1
Trichloroethene	3	ug/l	<0.19	<0.19
Trichlorofluoromethane	2100	ug/l	<0.08	<0.08
1,2,3-Trichloro-propane	42	ug/l	<0.3	<0.3
Vinyl acetate	250	ug/l	<10	<10
Vinyl chloride	1	ug/l	<0.17	<0.17
Xylene	20	ug/l	<0.22	<0.22

(1) Detection limits reported for all values described as "ND" (not detected) in analysis report

SWCTL = Surface Water Cleanup Target Level.

Shaded values exceed MCL or SWCTL.

Attachment C-3

Surface Water Laboratory Analytical Report



REPORT OF ANALYSIS

F.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 : 0202053859
PROJECT NO. :
PELA CONTACT :
RECEIVED DATE : 2/11/02
REPORTED DATE : 4/17/02

LAB ID

KC02441-02Y
KC02442-03S
KC02442-02X-5
KC02443-02Y
KC02444-02X-5
KC02444-03S
KC02445-02Y
KC02446-02X-5
KC02446-03S
KC02447-02Y

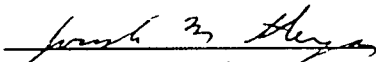
LAB
REPORT
(LAMOREAUX)

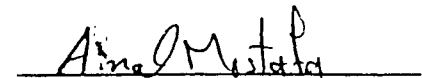
REPORT SUMMARY

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

Samples were collected by PELA according to DEP-SOP-001/01.

A duplicate sample was collected from SW-1.


SENIOR CHEMIST


LABORATORY DIRECTOR

CERTIFICATE OF RESULTS

Sample integrity certified prior to analysis. 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.

Narrative Page 1 of 1



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: 0202053859

CLIENT INFORMATION

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

BILLING INFORMATION

Bill To : MANATEE COUNTY-SWRTP
DARLENE
P.O. BOX 1000
BRADENTON, FLORIDA 34206

Purchase Order No. :

SAMPLE IDENTIFICATION

IDENTIFICATION : S 1/LENA RD SURFACE WATER
SITE : LENA RD SURFACE WATER
TYPE : WATER

FIELD PARAMETERS

SPECIFIC CONDUCTANCE : 480 MICROMHOS
pH : 6.98 STANDARD UNITS
WATER TEMPERATURE : 18.3 DEGREES C
DISSOLVED OXYGEN : 5.07 mg/L
INITIAL WATER LEVEL :
WELL ELEVATION :
FIELD TURBIDITY : 20.9 NTU
FIELD COLOR :
FACILITY GMS # :

COMMENTS

UNIQUE ID #
02X VOLATILES ENV.
03S MISC2
COLOR:ORANGE
SHEEN:CLEAN



REPORT OF ANALYSIS

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 : S 1/LENA RD SURFACE WATER
 Site : LENA RD SURFACE WATER
 Type : WATER

Report ID: 0202053859
 COLLECTION DATE : 2/11/02
 COLLECTION TIME : 11:35
 COLLECTED BY : PELA
 DATE RECEIVED IN LAB : 2/11/02

PARAMETER	RESULTS	DETECTION LIMIT	UNITS	ANALYST	DATE FINISHED
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ORGANICS

APPENDIX I VOLATILES (EPA 8260)

KC02441-02Y

1,2,3-TRICHLOROPROPANE	ND	0.3	ug/l	JMS	2/20/02
IODOMETHANE	ND	0.5	ug/l	JMS	2/20/02
CIS 1,2-DICHLOROETHENE	ND	0.10	ug/l	JMS	2/20/02
T-1,4-DICHLORO-2-BUTENE	ND	10.0	ug/l	JMS	2/20/02
STYRENE	ND	1.0	ug/l	JMS	2/20/02
1,1,1,2-TETRACHLOROETHANE	ND	0.1	ug/l	JMS	2/20/02
2-HEXANONE	ND	5.0	ug/l	JMS	2/20/02
DIBROMOMETHANE	ND	0.3	ug/l	JMS	2/20/02
2-BUTANONE	ND	5.0	ug/l	JMS	2/20/02
ACETONE	ND	2.5	ug/l	JMS	2/20/02
VINYL ACETATE	ND	10.0	ug/l	JMS	2/20/02
CARBON DISULFIDE	ND	4.1	ug/l	JMS	2/20/02
4-METHYL-2-PENTANONE	ND	5.0	ug/l	JMS	2/20/02
BROMOCHLOROMETHANE	ND	0.5	ug/l	JMS	2/20/02
CHLOROMETHANE	ND	0.13	ug/l	JMS	2/20/02
DICHLOROMETHANE	ND	0.03	ug/l	JMS	2/20/02
1,1-DICHLOROETHENE	ND	0.12	ug/l	JMS	2/20/02
TRICHLOROFLUOROMETHANE	ND	0.08	ug/l	JMS	2/20/02
CHLOROETHANE	ND	0.10	ug/l	JMS	2/20/02
VINYL CHLORIDE	ND	0.17	ug/l	JMS	2/20/02
ACRYLONITRILE	ND	1.50	ug/l	JMS	2/20/02
1,1-DICHLOROETHANE	ND	0.03	ug/l	JMS	2/20/02
BROMOMETHANE	ND	0.11	ug/l	JMS	2/20/02
TOLUENE	ND	0.11	ug/l	JMS	2/20/02
1,4-DICHLOROBENZENE	ND	0.03	ug/l	JMS	2/20/02
1,1,2,2-TETRACHLOROETHANE	ND	0.04	ug/l	JMS	2/20/02
O-XYLENE	ND	0.11	ug/l	JMS	2/20/02
TRIBROMOMETHANE	ND	0.12	ug/l	JMS	2/20/02
M,P-XYLENES	ND	0.11	ug/l	JMS	2/20/02
ETHYLBENZENE	ND	0.06	ug/l	JMS	2/20/02
CHLOROBENZENE	ND	0.04	ug/l	JMS	2/20/02
TETRACHLOROETHENE	ND	0.14	ug/l	JMS	2/20/02
DIBROMOCHLOROMETHANE	ND	0.05	ug/l	JMS	2/20/02
TRANS-1,2-DICHLOROETHENE	ND	0.06	ug/l	JMS	2/20/02
TRANS-1,3-DICHLOROPROPENE	ND	0.04	ug/l	JMS	2/20/02



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 : S 1/LENA RD SURFACE WATER
Site : LENA RD SURFACE WATER
Type : WATER

Report ID: 0202053859
COLLECTION DATE : 2/11/02
COLLECTION TIME : 11:35
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 2/11/02

PARAMETER	RESULTS	DETECTION LIMIT	UNITS	ANALYST	DATE FINISHED
1,2-DICHLOROBENZENE	ND	0.03	ug/l	JMS	2/20/02
CIS-1,3-DICHLOROPROPENE	ND	0.05	ug/l	JMS	2/20/02
BROMODICHLOROMETHANE	ND	0.08	ug/l	JMS	2/20/02
TRICHLOROETHENE	ND	0.19	ug/l	JMS	2/20/02
1,2-DICHLOROPROPANE	ND	0.04	ug/l	JMS	2/20/02
CARBON TETRACHLORIDE	ND	0.21	ug/l	JMS	2/20/02
BENZENE	ND	0.04	ug/l	JMS	2/20/02
1,2-DICHLOROETHANE	ND	0.02	ug/l	JMS	2/20/02
1,1,1-TRICHLOROETHANE	ND	0.04	ug/l	JMS	2/20/02
TRICHLOROMETHANE	ND	0.03	ug/l	JMS	2/20/02
1,1,2-TRICHLOROETHANE	ND	0.10	ug/l	JMS	2/20/02

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 : S 1/LENA RD SURFACE WATER
 SITE : LENA RD SURFACE WATER
 TYPE : WATER

Report ID: 0202053859
 COLLECTION DATE : 2/11/02
 COLLECTION TIME : 11:35
 COLLECTED BY : PELA
 DATE RECEIVED IN LAB : 2/11/02

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNIT	ANALYST	TIME/DATE
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INORGANICS

KC02442-03S CHLOROPHYLL A	10200 H	0.1	19.9	mg/m3	RLG	16:30 2/13/02
			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

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PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNIT	ANALYST	TIME/DATE STARTED
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ORGANICS

EDB & DBCP/ENVIRON WATER

KC02442-02X-5

ETHYLENE DIBROMIDE	EPA 504	0.01	ND	ug/L	BAM	14:13 3/8/02
DIBROMCHLORPROPANE	EPA 504	0.01	ND	ug/L	BAM	14:13 3/8/02

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 INFORMATION

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

Report ID: 0202053859

BILLING INFORMATION

Bill T : MANATEE COUNTY-SWRTP
DARLENE
P.O. BOX 1000
BRADENTON, FLORIDA 34206

Purchase Order No. :

Identification : S 2/LENA RD SURFACE WATER
Site : LENA RD SURFACE WATER
Type : WATER

FIELD PARAMETERS

SPECIFIC CONDUCTANCE : 525 MICROMHOS
pH - : 6.69 STANDARD UNITS
WATER TEMPERATURE : 21.6 DEGREES C
DISSOLVED OXYGEN : 5.92 mg/L
INITIAL WATER LEVEL :
WELL ELEVATION :
FIELD TURBIDITY : 6.42 NTU
FIELD COLOR :
FACILITY GMS # :

COMMENTS

UNIQUE ID #
02Y APP1 VOLATILE
COLOR:DARK AMBER
SHEEN:NO SHEEN



REPORT OF ANALYSIS

F.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 : S 2/LENA RD SURFACE WATER
 Site : LENA RD SURFACE WATER
 Type : WATER

Report ID: 0202053859
 COLLECTION DATE : 2/11/02
 COLLECTION TIME : 13:05
 COLLECTED BY : PELA
 DATE RECEIVED IN LAB : 2/11/02

PARAMETER	RESULTS	DETECTION LIMIT	UNITS	ANALYST	DATE FINISHED
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ORGANICS

APPENDIX I VOLATILES (EPA 8260)

KC02443-02Y

1,2,3-TRICHLOROPROPANE	ND	0.3	ug/l	JMS	2/20/02
IODOMETHANE	ND	0.5	ug/l	JMS	2/20/02
CIS 1,2-DICHLOROETHENE	ND	0.10	ug/l	JMS	2/20/02
T-1,4-DICHLORO-2-BUTENE	ND	10.0	ug/l	JMS	2/20/02
STYRENE	ND	1.0	ug/l	JMS	2/20/02
1,1,1,2-TETRACHLOROETHANE	ND	0.1	ug/l	JMS	2/20/02
2-HEXANONE	ND	5.0	ug/l	JMS	2/20/02
DIBROMOMETHANE	ND	0.3	ug/l	JMS	2/20/02
2-BUTANONE	ND	5.0	ug/l	JMS	2/20/02
ACETONE	ND	2.5	ug/l	JMS	2/20/02
VINYL ACETATE	ND	10.0	ug/l	JMS	2/20/02
CARBON DISULFIDE	ND	4.1	ug/l	JMS	2/20/02
4-METHYL-2-PENTANONE	ND	5.0	ug/l	JMS	2/20/02
BROMOCHLOROMETHANE	ND	0.5	ug/l	JMS	2/20/02
CHLOROMETHANE	ND	0.13	ug/l	JMS	2/20/02
DICHLOROMETHANE	ND	0.03	ug/l	JMS	2/20/02
1,1-DICHLOROETHENE	ND	0.12	ug/l	JMS	2/20/02
TRICHLOROFLUOROMETHANE	ND	0.08	ug/l	JMS	2/20/02
CHLOROETHANE	ND	0.10	ug/l	JMS	2/20/02
VINYL CHLORIDE	ND	0.17	ug/l	JMS	2/20/02
ACRYLONITRILE	ND	1.50	ug/l	JMS	2/20/02
1,1-DICHLOROETHANE	ND	0.03	ug/l	JMS	2/20/02
BROMOMETHANE	ND	0.11	ug/l	JMS	2/20/02
TOLUENE	ND	0.11	ug/l	JMS	2/20/02
1,4-DICHLOROBENZENE	ND	0.03	ug/l	JMS	2/20/02
1,1,2,2-TETRACHLOROETHANE	ND	0.04	ug/l	JMS	2/20/02
O-XYLENE	ND	0.11	ug/l	JMS	2/20/02
TRIBROMOMETHANE	ND	0.12	ug/l	JMS	2/20/02
M,P-XYLENES	ND	0.11	ug/l	JMS	2/20/02
ETHYLBENZENE	ND	0.06	ug/l	JMS	2/20/02
CHLOROBENZENE	ND	0.04	ug/l	JMS	2/20/02
TETRACHLOROETHENE	ND	0.14	ug/l	JMS	2/20/02
DIBROMOCHLOROMETHANE	ND	0.05	ug/l	JMS	2/20/02
TRANS-1,2-DICHLOROETHENE	ND	0.06	ug/l	JMS	2/20/02
TRANS-1,3-DICHLOROPROPENE	ND	0.04	ug/l	JMS	2/20/02



REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc
Geochemistry Laboratory
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Site : LENA RD SURFACE WATER
Type : WATER

Report ID: 0202053859
COLLECTION DATE : 2/11/02
COLLECTION TIME : 13:05
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 2/11/02

PARAMETER	RESULTS	DETECTION LIMIT	UNITS	ANALYST	DATE FINISHED
1,2-DICHLOROBENZENE	ND	0.03	ug/l	JMS	2/20/02
CIS-1,3-DICHLOROPROPENE	ND	0.05	ug/l	JMS	2/20/02
BROMODICHLOROMETHANE	ND	0.08	ug/l	JMS	2/20/02
TRICHLOROETHENE	ND	0.19	ug/l	JMS	2/20/02
1,2-DICHLOROPROPANE	ND	0.04	ug/l	JMS	2/20/02
CARBON TETRACHLORIDE	ND	0.21	ug/l	JMS	2/20/02
BENZENE	ND	0.04	ug/l	JMS	2/20/02
1,2-DICHLOROETHANE	ND	0.02	ug/l	JMS	2/20/02
1,1,1-TRICHLOROETHANE	ND	0.04	ug/l	JMS	2/20/02
TRICHLOROMETHANE	ND	0.03	ug/l	JMS	2/20/02
1,1,2-TRICHLOROETHANE	ND	0.10	ug/l	JMS	2/20/02

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

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FAX 863/646-1042

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SITE : LENA RD SURFACE WATER
TYPE : WATER

Report ID: 0202053859
COLLECTION DATE : 2/11/02
COLLECTION TIME : 13:05
COLLECTED BY : PELA
DATE RECEIVED IN LAB : 2/11/02

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNIT	ANALYST	TIME/DATE STARTED
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INORGANICS

KC02444-03S CHLOROPHYLL A	10200 H	0.1	22.6	mg/m3	RLG	16:30 2/13/02
		ND- NONE DETECTED.				



REPORT OF ANALYSIS

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 DATE RECEIVED IN LAB : 2/11/02

PARAMETER	METHOD	DETECTION LIMITS	RESULTS	UNIT	ANALYST	TIME/DATE	STARTED
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ORGANICS

EDB & DBCP/ENVIRON WATER

KC02444-02X-5

ETHYLENE DIBROMIDE	EPA 504	0.01	ND	ug/L	BAM	14:42	3/8/02
DIBROMCHLORPROPANE	EPA 504	0.01	ND	ug/L	BAM	14:42	3/8/02

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

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

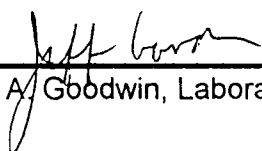
SAMPLE RECEIPT DATE: February 11, 2002

REPORT DATE: March 26, 2002

PROJECT NAME: Lena Road Landfill
Semiannual Surface Water Monitoring
SW1-SW2

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

Lab ID	Client ID	Sample Location	Collection Date/Time	Parameter	Method	Results	Date /Time Analyzed	MDL	Analyst	Cost per sample
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Aluminum	EPA 200.7	0.312 mg/L	02/19/02 11:59	0.003 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Antimony	EPA 204.2	<0.002 mg/L	02/19/02 12:32	0.002 mg/L	JPN	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Arsenic	EPA 200.7	<0.007 mg/L	02/19/02 11:59	0.007 mg/L	JPN	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Barium	EPA 200.7	0.012 mg/L	02/19/02 11:59	0.0002 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Beryllium	EPA 200.7	<0.0002 mg/L	02/19/02 11:59	0.0002 mg/L	JPN	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Calcium	EPA 200.7	34.3 mg/L	02/19/02 11:59	0.010 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Cadmium	EPA 200.7	<0.0005 mg/L	02/19/02 11:59	0.0005 mg/L	JPN	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Chromium	EPA 200.7	0.002 mg/L	02/19/02 11:59	0.0005 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Cobalt	EPA 200.7	<0.001 mg/L	02/19/02 11:59	0.001 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Copper	EPA 200.7	<0.005 mg/L	02/19/02 11:59	0.005 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Iron	EPA 200.7	3.44 mg/L	02/19/02 11:59	0.010 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Lead	EPA 200.7	<0.005 mg/L	02/19/02 11:59	0.005 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Magnesium	EPA 200.7	12.4 mg/L	02/19/02 11:59	0.005 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Manganese	EPA 200.7	0.026 mg/L	02/19/02 11:59	0.005 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Nickel	EPA 200.7	0.002 mg/L	02/19/02 11:59	0.001 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Selenium	EPA 200.7	<0.010 mg/L	02/19/02 11:59	0.010 mg/L	JPN	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Silver	EPA 200.7	<0.002 mg/L	02/19/02 11:59	0.002 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Sodium	EPA 273.1	57.8 mg/L	02/25/02 09:01	0.300 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Thallium	EPA 279.2	<0.0004 mg/L	02/19/02 18:46	0.0004 mg/L	JPN	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Vanadium	EPA 200.7	0.0034 mg/L	02/19/02 11:59	0.0005 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Zinc	EPA 200.7	<0.010 mg/L	02/19/02 11:59	0.010 mg/L	JPN	\$3.70
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Mercury	EPA 245.1	<0.100 ug/L	02/22/02 12:07	0.100 ug/L	WC	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Unionized Ammonia	DEP SOP 10/3/83	0.0006 mg/L	03/14/02 12:17	mg/L	JAG	\$4.90
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Ammonia as N	EPA 350.1	0.128 mg/L	02/13/02 14:27	0.009 mg/L	LK	\$4.39
SW - 1	SW - 1	Lena Road	02/13/02 09:15	BOD	SM 5210B	<2.00 mg/L	02/13/02 07:30	2.00 mg/L	LB/WC	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	COD	EPA 410.4	152 mg/L	02/15/02 10:00	3.00 mg/L	LK	\$8.60
SW - 1	SW - 1	Lena Road	02/11/02 11:35	Fecal Coliform	SM 9222D	350 CFU/100 ml	02/11/02 15:30	1 CFU/100 ml	LB/LK	\$4.90
SW - 1	SW - 1	Lena Road	02/13/02 09:15	TDS	SM 2540C	488 mg/L	02/12/02 13:45	0.500 mg/L	LK/ST	\$4.90
SW - 1	SW - 1	Lena Road	02/13/02 09:15	TOC	EPA 415.1	28.9 mg/L	02/27/02 18:16	0.050 mg/L	ST	\$8.60
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Total Hardness	SM 2340 B	46.7 mg/L	02/21/02 14:05	mg/L	DW	\$7.35
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Total Nitrogen	Calculation	1.22 mg/L	02/14/02 11:21	mg/L	DW	\$8.95
SW - 1	SW - 1	Lena Road	02/13/02 09:15	Total Phosphorus	EPA 365.1	0.467 mg/L	02/14/02 14:25	0.002 mg/L	LB	\$6.15
SW - 1	SW - 1	Lena Road	02/13/02 09:15	TSS	SM 2540D	5.90 mg/L	02/14/02 08:10	0.500 mg/L	ST	\$4.90
Total Cost for Lena Road SW-1										\$168.34

Lab ID	Client ID	Sample Location	Collection Date/Time	Parameter	Method	Results	Date /Time Analyzed	MDL	Analyst	Cost per sample
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Aluminum	EPA 200.7	0.408 mg/L	02/19/02 12:42	0.003 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Antimony	EPA 204.2	<0.002 mg/L	02/19/02 12:58	0.002 mg/L	JFN	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Arsenic	EPA 200.7	0.026 mg/L	02/19/02 12:42	0.007 mg/L	JPN	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Barium	EPA 200.7	0.012 mg/L	02/19/02 12:42	0.0002 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Beryllium	EPA 200.7	<0.0002 mg/L	02/19/02 12:42	0.0002 mg/L	JPN	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Calcium	EPA 200.7	30.9 mg/L	02/19/02 12:42	0.010 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Cadmium	EPA 200.7	<0.0005 mg/L	02/19/02 12:42	0.0005 mg/L	JPN	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Chromium	EPA 200.7	0.003 mg/L	02/19/02 12:42	0.0005 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Cobalt	EPA 200.7	<0.001 mg/L	02/19/02 12:42	0.001 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Copper	EPA 200.7	<0.005 mg/L	02/19/02 12:42	0.005 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Iron	EPA 200.7	3.97 mg/L	02/19/02 12:42	0.010 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Lead	EPA 200.7	<0.005 mg/L	02/19/02 12:42	0.005 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Magnesium	EPA 200.7	15.6 mg/L	02/19/02 12:42	0.005 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Manganese	EPA 200.7	0.024 mg/L	02/19/02 12:42	0.005 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Nickel	EPA 200.7	0.003 mg/L	02/19/02 12:42	0.001 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Selenium	EPA 200.7	<0.010 mg/L	02/19/02 12:42	0.010 mg/L	JPN	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Silver	EPA 200.7	<0.002 mg/L	02/19/02 12:42	0.002 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Sodium	EPA 273.1	68.1 mg/L	02/25/02 09:05	0.300 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Thallium	EPA 279.2	<0.0004 mg/L	02/19/02 19:13	0.0004 mg/L	JPN	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Vanadium	EPA 200.7	0.003 mg/L	02/19/02 12:42	0.0005 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Zinc	EPA 200.7	<0.010 mg/L	02/19/02 12:42	0.010 mg/L	JPN	\$3.70
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Mercury	EPA 245.1	<0.100 ug/L	02/22/02 12:12	0.100 ug/L	WC	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Unionized Ammonia	DEP SOP 10/3/83	0.0001 mg/L	03/14/02 12:21	mg/L	JAG	\$4.90
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Ammonia as N	EPA 350.1	0.051 mg/L	02/13/02 14:29	0.009 mg/L	LK	\$4.39
SW - 2	SW - 2	Lena Road	02/13/02 09:20	BOD	SM 5210B	<2.00 mg/L	02/13/02 07:30	2.00 mg/L	LB/WC	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	COD	EPA 410.4	261 mg/L	02/15/02 10:00	3.00 mg/L	LK	\$8.60
SW - 2	SW - 2	Lena Road	02/11/02 13:05	Fecal Coliform	SM 9222D	60 CFU/100 ml	02/11/02 15:30	1 CFU/100 ml	LB/LK	\$4.90
SW - 2	SW - 2	Lena Road	02/13/02 09:20	TDS	SM 2540C	596 mg/L	02/12/02 13:45	0.500 mg/L	LK/ST	\$4.90
SW - 2	SW - 2	Lena Road	02/13/02 09:20	TOC	EPA 415.1	90.4 mg/L	03/15/02 21:01	0.050 mg/L	ST	\$8.60
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Total Hardness	SM 2340 B	46.5 mg/L	02/21/02 14:09	mg/L	DV	\$7.35
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Total Nitrogen	Calculation	3.28 mg/L	02/14/02 11:31	mg/L	DW	\$8.95
SW - 2	SW - 2	Lena Road	02/13/02 09:20	Total Phosphorus	EPA 365.1	0.160 mg/L	02/14/02 14:27	0.002 mg/L	LB	\$6.15
SW - 2	SW - 2	Lena Road	02/13/02 09:20	TSS	SM 2540D	4.30 mg/L	02/14/02 08:10	0.500 mg/L	ST	\$4.90

Lena Road Surface Water 2 of 7

Total Cost for Lena Road SW-2

\$168.34



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

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD SURFACE WATER

WELL NAME : S 1/LENA RD SURFACE WATER

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :



Report ID: 0202053859

SAMPLING DATE/TIME : 2/11/02 11:35:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/11/02

COLLECTION TIME : 11:35

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/11/02

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME	ANALYSIS RESULTS UNITS	DETECTION LIMITS UNITS
	ORGANICS KC02441- APPENDIX I VOLATILES (E	*	N			Completed	

*SUBMERSIBLE OR PERISTALIC PUMP

** BAILER

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME	ANALYSIS RESULTS UNITS	DETECTION LIMITS UNITS
	ORGANICS KC02441-02Y						
34506	1,1,1-trichloroethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.04 ug/l
34516	1,1,2,2-tetrachloroethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.04 ug/l
34511	1,1,2-trichloroethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.10 ug/l
34496	1,1-dichloroethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.03 ug/l
34501	1,1-dichloroethene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.12 ug/l
34536	1,2-dichlorobenzene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.03 ug/l
34531	1,2-dichloroethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.02 ug/l
34541	1,2-dichloropropane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.04 ug/l
34571	1,4-dichlorobenzene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.03 ug/l
34215	Acrylonitrile	*	N	EPA 8260	2/20/02 14:14	ND ug/l	1.50 ug/l
34030	Benzene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.04 ug/l
32101	Bromodichloromethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.08 ug/l
34413	Bromomethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.11 ug/l
32102	Carbon tetrachloride	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.21 ug/l
34301	Chlorobenzene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.04 ug/l
34311	Chloroethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.10 ug/l
34418	Chloromethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.13 ug/l
34704	cis-1,3-dichloropropane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.05 ug/l
32105	Dibromochloromethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.05 ug/l
34423	Dichloromethane	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.03 ug/l
34371	Ethylbenzene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.06 ug/l
81551	m,p-Xylenes	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.11 ug/l
77135	o-Xylene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.11 ug/l
34475	Tetrachloroethene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.14 ug/l
34010	Toluene	*	N	EPA 8260	2/20/02 14:14	ND ug/l	0.11 ug/l
34546	trans-1,2-dichloroethene	*	N	EPA 8260	2/20/02 14:14	ND 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

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD SURFACE WATER

WELL NAME : S I/LENA RD SURFACE WATER

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0202053859

SAMPLING DATE/TIME : 2/11/02 11:35:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/11/02

COLLECTION TIME : 11:35

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/11/02

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME		ANALYSIS RESULTS UNITS		DETECTION LIMITS UNITS	
34699	trans-1,3-dichloropropene	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.04	ug/l
32104	Tribromomethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.12	ug/l
39180	Trichloroethene	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.19	ug/l
34488	Trichlorofluoromethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.08	ug/l
32106	Trichloromethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.03	ug/l
39175	Vinyl Chloride	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.17	ug/l
	KC02441-02Y									
77562	1,1,1,2-tetrachloroethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.1	ug/l
77443	1,2,3-Trichloropropane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.3	ug/l
81595	2-Butanone	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	5.0	ug/l
77103	2-Hexanone	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	5.0	ug/l
78133	4-Methyl-2-pentanone	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	5.0	ug/l
81552	Acetone	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	2.5	ug/l
73085	Bromochloromethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.5	ug/l
81309	Carbon Disulfide	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	4.1	ug/l
77093	cis 1,2-Dichloroethene	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.10	ug/l
34536	Dibromomethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.3	ug/l
77424	Iodomethane	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	0.5	ug/l
77128	Styrene	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	1.0	ug/l
49263	t-1,4-Dichloro-2-butene	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	10.0	ug/l
77057	Vinyl Acetate	*	N	EPA 8260	2/20/02	14:14	ND	ug/l	10.0	ug/l

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER



REPORT OF ANALYSIS

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

PART III ANALYTICAL RESULTS

FACILITY GMS # :

Report ID: 0202053859

TEST SITE ID # : LENA RD SURFACE WATER

SAMPLING DATE/TIME : 2/11/02 11:35:00

WELL NAME : S 1/LENA RD SURFACE WATER

REPORT PERIOD (YR/QTR) :

CLASSIFICATION OF GROUNDWATER : G II

WELL PURGED (Y/N) : Y

GROUND WATER ELEVATION (NGVD):

WELL TYPE :

OR (MSL) :

COLLECTION DATE : 2/11/02

FEET BMP :

COLLECTION TIME : 11:35

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/11/02

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME	ANALYSIS RESULTS	UNITS	DETECTION LIMITS	UNITS
	INORGANICS KC02442-03S CHLOROPHYLL A	*	N	10200 H	2/13/02 16:30	19.9	mg/m3	0.1	mg/m3

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER

	ORGANICS KC02442-EDB & DBCP/EW	*	N			Completed			
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*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER

38437	ORGANICS KC02442-02X-5 DIBROMCHLORPROPANE	*	N	EPA 504	3/8/02 14:13	ND	ug/L	0.01	ug/L
46369	ETHYLENE DIBROMIDE	*	N	EPA 504	3/8/02 14:13	ND	ug/L	0.01	ug/L

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER



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

PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD SURFACE WATER

WELL NAME : S 2/LENA RD SURFACE WATER

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD):

OR (MSL) :

FEET BMP :

Report ID: 0202053859

SAMPLING DATE/TIME : 2/11/02 1:05:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/11/02

COLLECTION TIME : 13:05

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/11/02

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	UNITS
	ORGANICS KC02443- APPENDIX I VOLATILES (E)	*	N			Completed			

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME	ANALYSIS RESULTS	ANALYSIS UNITS	DETECTION LIMITS	UNITS
	ORGANICS KC02443-02Y								
34506	1,1,1-trichloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.04	ug/l
34516	1,1,2,2-tetrachloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.04	ug/l
34511	1,1,2-trichloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.10	ug/l
34496	1,1-dichloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.03	ug/l
34501	1,1-dichloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.12	ug/l
34536	1,2-dichlorobenzene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.03	ug/l
34531	1,2-dichloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.02	ug/l
34541	1,2-dichloropropane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.04	ug/l
34571	1,4-dichlorobenzene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.03	ug/l
34215	Acrylonitrile	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	1.50	ug/l
34030	Benzene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.04	ug/l
32101	Bromodichloromethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.08	ug/l
34413	Bromomethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.11	ug/l
32102	Carbon tetrachloride	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.21	ug/l
34301	Chlorobenzene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.04	ug/l
34311	Chloroethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.10	ug/l
34418	Chloromethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.13	ug/l
34704	cis-1,3-dichloropropene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.05	ug/l
32105	Dibromochloromethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.05	ug/l
34423	Dichloromethane	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.03	ug/l
34371	Ethylbenzene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.06	ug/l
81551	m,p-Xylenes	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.11	ug/l
77135	o-Xylene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.11	ug/l
34475	Tetrachloroethene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.14	ug/l
34010	Toluene	*	N	EPA 8260	2/20/02 14:47	ND	ug/l	0.11	ug/l
34546	trans-1,2-dichloroethene	*	N	EPA 8260	2/20/02 14:47	ND	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

PART III ANALYTICAL RESULTS

FACILITY GMS # :

Report ID: 0202053859

TEST SITE ID # : LENA RD SURFACE WATER

SAMPLING DATE/TIME : 2/11/02 1:05:00

WELL NAME : S 2/LENA RD SURFACE WATER

REPORT PERIOD (YR/QTR) :

CLASSIFICATION OF GROUNDWATER : G II

WELL PURGED (Y/N) : Y

GROUND WATER ELEVATION (NGVD):

WELL TYPE :

OR (MSL) :

COLLECTION DATE : 2/11/02

FEET BMP :

COLLECTION TIME : 13:05

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/11/02

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS		ANALYSIS		DETECTION	
					DATE	TIME	RESULTS	UNITS	LIMITS	UNITS
34699	trans-1,3-dichloropropene	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.04	ug/l
32104	Tribromomethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.12	ug/l
39180	Trichloroethene	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.19	ug/l
34488	Trichlorofluoromethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.08	ug/l
32106	Trichloromethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.03	ug/l
39175	Vinyl Chloride	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.17	ug/l
	KC02443-02Y									
77562	1,1,1,2-tetrachloroethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.1	ug/l
77443	1,2,3-Trichloropropane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.3	ug/l
81595	2-Butanone	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	5.0	ug/l
77103	2-Hexanone	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	5.0	ug/l
78133	4-Methyl-2-pentanone	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	5.0	ug/l
81552	Acetone	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	2.5	ug/l
73085	Bromochloromethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.5	ug/l
81309	Carbon Disulfide	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	4.1	ug/l
77093	cis 1,2-Dichloroethene	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.10	ug/l
34536	Dibromomethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.3	ug/l
77424	Iodomethane	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	0.5	ug/l
77128	Styrene	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	1.0	ug/l
49263	t-1,4-Dichloro-2-butene	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	10.0	ug/l
77057	Vinyl Acetate	*	N	EPA 8260	2/20/02	14:47	ND	ug/l	10.0	ug/l

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER



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

PART III ANALYTICAL RESULTS

FACILITY GMS # :

Report ID: 0202053859

TEST SITE ID # : LENA-RD SURFACE WATER

SAMPLING DATE/TIME : 2/11/02 1:05:00

WELL NAME : S 2/LENA RD SURFACE WATER

REPORT PERIOD (YR/QTR) :

CLASSIFICATION OF GROUNDWATER : G II

WELL PURGED (Y/N) : Y

GROUND WATER ELEVATION (NGVD) :

WELL TYPE :

OR (MSL) :

COLLECTION DATE : 2/11/02

FEET BMP :

COLLECTION TIME : 13:05

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/11/02

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED Y/N	ANALYSIS METHOD	ANALYSIS DATE TIME		ANALYSIS RESULTS UNITS		DETECTION LIMITS UNITS	
	INORGANICS KC02444-03S CHLOROPHYLL A	*	N	10200 H	2/13/02	16:30	22.6	mg/m3	0.1	mg/m3

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER

	ORGANICS KC02444- EDB & DBCP/EW	*	N				Completed			
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*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER

38437	ORGANICS KC02444-02X-5 DIBROMCHLORPROPANE	*	N	EPA 504	3/8/02	14:42	ND	ug/L	0.01	ug/L
46369	ETHYLENE DIBROMIDE	*	N	EPA 504	3/8/02	14:42	ND	ug/L	0.01	ug/L

*SUBMERSIBLE OR PERISTALTIC PUMP

** BAILER

3858

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

REPORTING ADDRESS:
 ATTN: Mr. John LaMoreaux
 CLIENT: Florida Dept. of Transportation
 ADDRESS: 1000 N. US Highway 90
Fort Pierce, FL 34948

INVOICING ADDRESS:
 ATTN: _____
 CLIENT: _____
 ADDRESS: _____

PROJECT NAME		PROJECT LOCATION		REQUIRED ANALYSIS							PAGE	OF						
PROJECT NO.		PURCHASE ORDER NO.		TYPE: (W)WATER (S)SOIL (O)OTHER	ESD, TDS, PH, NO ₃ -N	Metals	Hardness	NH ₄ -N	NO ₂ -N	Fe	Mn	TOC	Colo./ turbid	FIELD PARAMETERS				
PROJECT CONTACT		PROJECT TEL. NO.												SC (umhos/cm)	pH	TEMP (°C)	D.O.	
SAMPLER NAME(S)		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE														
DATE	TIME			CONTAINER TYPES: (P)PLASTIC (G)GLASS (O)OTHER PRESERVATIVES: (S)SODIUM HYDROXIDE (Su)SULFURIC (N)NITRIC (H)HYDROCHLORIC (I)ICED (O)OTHER														
1/16/00	1135	S-1	Staff Gauge	1	1	1	1	1	1	1	1	1	1	480	6.98	16.3	5.07	20.4
	1305	S-2		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	525	6.69	21.6	5.92	6.4
		Duplicate		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓					
		Tap blank																
		Staff Gauge 2	33.7															
		Staff Gauge 1	34.0															

FOR PELA LABORATORY USE ONLY				LABORATORY REMARKS			
RECEIVED FOR LAB	DATE	TIME	WORK ORDER #				

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

53859

REPORTING ADDRESS:

ATTN: _____
 CLIENT: manatee co
 ADDRESS: _____

INVOICING ADDRESS:

ATTN: _____
 CLIENT: _____
 ADDRESS: _____

CHAIN OF CUSTODY

PROJECT NAME		PROJECT LOCATION (Line Ed)		REQUIRED ANALYSIS										PAGE		OF				
PROJECT NO.		PURCHASE ORDER NO.		Chlorophyll A	App Id	EDB								Color / turbid	FIELD PARAMETERS					
PROJECT CONTACT		PROJECT TEL. NO.													SC (umhos/cm)	pH	TEMP (°C)	D.O.		
SAMPLER NAME(S)				NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE																
SAMPLING DATE		SAMPLING TIME		SAMPLE IDENTIFICATION		CONTAINER TYPES: (P)LASTIC (G)GLASS (O)OTHER														
				PRESERVATIVES: (S)ODIUM HYDROXIDE (Su)LFURIC (N)ITRIC (H)YDROCHLORIC (I)ICED (O)THER																
11/16	1135	S-1	NOT IN STREAM	1	Ab	1	2	6	H	1	MP	0.1			Orange	480	6.98	18.3	5.07	20.9
"	1305	S-2		"	"	"	"	"	"	"	"	"	"	"	Orange	525	6.69	21.6	5.92	6.12
		Duplicate																		
	0940	Trip blank					2													
		STAFF GAUGE 2																		
		STAFF GAUGE 1																		
		Temp Blank																		2.0

RELINQUISHED BY: <u>M. Luyt</u>				DATE: <u>11/16</u>		TIME: <u>1720</u>		RECEIVED BY: _____				RELINQUISHED BY: _____		DATE: _____		TIME: _____		RECEIVED BY: _____			
FOR PELA LABORATORY USE ONLY										LABORATORY REMARKS											
RECEIVED FOR LAB: _____				DATE: _____		TIME: _____		WORK ORDER: _____													