

39884
Surface

JEM
1/24/02

January 15, 2001

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

HDR

-MISSING pg 1 of
SEVERN TREAT
SERVICES LAB
REPORT

D.E.P.

JAN 16 2001

Southwest District Tampa

RE: Review of Semi-Annual Sample Results-Lena Road Landfill
2nd Half 2000 Sampling Event

Dear Mr. Morris:

As requested by the County, HDR has prepared the FDEP groundwater analysis reporting forms (Attachment 1), and has reviewed the data for the second half of 2000 sampling event for the Lena Road landfill. Analytical reports are included in Attachment 2. The analytical data shows that most of the groundwater parameters were below the laboratory detection limit. Constituents consistently detected at the monitoring wells include barium, ammonia, chloride, sodium, TDS, and iron. Other metals detected in some of the wells include arsenic barium, chromium, lead, vanadium, and zinc. Constituents exceeding the Maximum Contaminant Levels (MCL) for drinking water, as defined in 62-550 F.A.C., include the following:

- ♦ Iron was above the MCL at all surficial monitoring wells, ranging in concentration from 0.31 to 29 mg/l. The MCL for iron is 0.3 mg/l. The MCL for iron was exceeded at two of the background wells (SMR-1, MW-1). The iron exceedances can be probably be attributed to background conditions, since iron frequently exceeds the MCL in the background wells. A detailed evaluation of the iron occurrence will be provided in the biennial evaluation due at the end of this year.
- ♦ TDS exceeded the MCL at shallow well LR11-3, CW-5A, and CW-4 at a concentration of 1300 mg/l, 560 mg/l, and 870 mg/l, respectively. The MCL for TDS is 500 mg/l. TDS is commonly above the MCL along the western third of Manatee County, however, trends in TDS levels will be evaluated in the biennial evaluation later this year.
- ♦ Arsenic exceeded the MCL at wells MW-2 and GC-2. The detected concentrations were 0.21 mg/l and 0.067 mg/l, respectively. The MCL for arsenic is 0.05 mg/l. A detailed evaluation of the arsenic occurrence in these will be provided in the biennial evaluation due at the end of this year, and will include possible correlation with turbidity, sodium, chloride, and TDS in these wells, since elevations of these parameters along with arsenic could indicate some ion-exchange in advance of a potential "leachate front".
- ♦ pH was slightly below the lower MCL of 6.5 standard units at most of the surficial monitoring wells, ranging from 3.69 to 7.71 standard units. pH ranging from 4.6 to 7.4 standard units is typical of the surficial aquifer in Manatee County.
- ♦ Turbidity exceeded 4 NTU at wells MW-3, MW-5, GC-6, GC-5, LR11-1, LR11-3, MW-6, and SA-8.

AUGUST 2000
SAMPLING
EVENT

HDR Engineering, Inc.

Employee Owned

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Mr. John Morris
January 15, 2001
Page 2

Vanadium was detected at some of the wells during the sampling event, however, no MCL has been established for vanadium. The Groundwater Cleanup Target Level for vanadium, as established under 62-777 F.A.C. is 0.049 mg/l. This target level was slightly exceeded at MW-2, and MW-6.

Surface water sampling points SW-1 and SW-2 were sampled during the 2nd half 2000 event. The reporting forms are included in Attachment 1, and the laboratory reports are included in Attachment 2. Iron exceeded the Class III standard of 1.0 mg/l specified in 62-302 F.A.C. Detected concentrations were 1.2 mg/l and 9.3 mg/l, respectively for SW-1 and SW-2. No other Class III standards were exceeded.

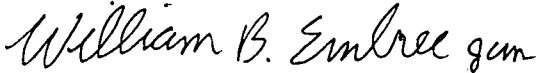
The review of the analytical results indicate that most of the MCL exceedances can likely be attributed to natural background conditions within the surficial aquifer, such as iron, TDS, and pH. Detailed evaluations of the constituent levels will be provided in the Biennial evaluation due later this year. A groundwater elevation contour map, which represents flow conditions during sampling, is included in Attachment 3.

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely,

HDR ENGINEERING, INC.


Deborah Daigle, P.G.
Sr. Hydrogeologist


William B. Embree
Assistant Manager,
Environmental and Resource
Management Section

Attachment

Cc: FDEP, Tallahassee
Gus Difonzo, Manatee County
Mike Gore, Manatee County

Facility GMS No.:	SWD-41-44795	Sampling Date:	August 14, 2000
Test I.D. No.:	1663	Report Period	2nd half 2000
Well Name	SW-1	Well Purged:	NA
Classification of Ground Water:	Surface Water	Well Type:	NA
Ground Water Elevation (NGVD)	NA		

PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS RESULTS	DETECTION LIMITS	
Acetone	Bailer	NO	EPA 8260	23-Aug-00	<50	ug/l	50 ug/l
Acrylonitrile	Bailer	NO	EPA 8260	23-Aug-00	<100	ug/l	100 ug/l
Benzene	Bailer	NO	EPA 8260	23-Aug-00	<1.0	ug/l	1.09 ug/l
Bromochloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Bromodichloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Bromoform	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Carbon disulfide	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Carbon Tetrachloride	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Chlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Chloroethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Chloroform	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Dibromochloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Ethylene Dibromide	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,4-Dichlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Trans-1,4-Dichloro-2-butene	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
1,1-Dichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
1,1-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
cis-1,2-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
trans-1,2-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
cis-1,2-Dichloropropene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
trans-1,3-Dichloropropene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Ethylbenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
2-Hexanone	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Bromomethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Chloromethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Dibromomethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Methylene Chloride	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
2-Butanone (MEK)	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Iodomethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
4-Methyl-2-pentanone (MIBK)	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Styrene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,1,2-Tetrachloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2,2,2-Tetrachloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Tetrachloroethene	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Toluene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,1-Trichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,2-Trichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Trichloroethene	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Trichlorofluoromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2,3-Trichloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Vinyl Acetate	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Vinyl Chloride	Bailer	NO	EPA 8260	23-Aug-00	<1.0	ug/l	1.0 ug/l
Xylenes	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Arsenic	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Barium	Bailer	NO	EPA 6010	21-Aug-00	0.018	mg/l	0.010 mg/l
Beryllium	Bailer	NO	EPA 6010	21-Aug-00	<0.0040	mg/l	0.0040 mg/l
Cadmium	Bailer	NO	EPA 6010	21-Aug-00	<0.0050	mg/l	0.0050 mg/l
Chromium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Cobalt	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Copper	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Lead	Bailer	NO	EPA 6010	21-Aug-00	<0.0050	mg/l	0.0050 mg/l
Nickel	Bailer	NO	EPA 6010	21-Aug-00	<0.040	mg/l	0.040 mg/l
Selenium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Silver	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Vanadium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Zinc	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
1,2-Dibromoethane (EDB)	Bailer	NO	EPA 504	28-Aug-00	<0.020	ug/l	0.020 ug/l
1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 504	28-Aug-00	<0.020	ug/l	0.020 ug/l
Copper	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Iron	Bailer	NO	EPA 6010	21-Aug-00	1.2	mg/l	0.050 mg/l
Mercury	Bailer	NO	EPA 245.1	23-Aug-00	<0.00020	mg/l	0.00020 mg/l
Thallium	Bailer	NO	EPA 200.9	23-Aug-00	<0.0020	mg/l	0.0020 mg/l
Zinc	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Hardness as CaCO3	Bailer	NO	EPA 6010	15-Aug-00	120	mg/l	3.3 mg/l
Total Dissolved Solids	Bailer	NO	EPA 160.1	15-Aug-00	320	mg/l	5.0 mg/l
Suspended Solids	Bailer	NO	EPA 160.2	16-Aug-00	<5.0	mg/l	5.0 mg/l
Nitrate-N	Bailer	NO	EPA 353.3	16-Aug-00	0.057	mg/l	0.050 mg/l
Nitrite-N	Bailer	NO	EPA 353.3	16-Aug-00	<0.050	mg/l	0.050 mg/l
Ammonia (as N)	Bailer	NO	EPA 350.1	28-Aug-00	0.39	mg/l	0.030 mg/l
Ammonia Unionized	Bailer	NO	FL-DEP 10/83	14-Aug-00	0.00060	mg/l	---
Total Kjeldahl Nitrogen-N	Bailer	NO	EPA 351.2	22-Aug-00	1.5	mg/l	0.20 mg/l
Total Nitrogen	Bailer	NO	Not Listed	Not Listed	1.6	mg/l	---
Biochemical Oxygen Demand (5 day)	Bailer	NO	EPA 405.1/5210B	16-Aug-00	<2.0	mg/l	2.0 mg/l
Total Phosphorus	Bailer	NO	EPA 365.4	22-Aug-00	0.24	mg/l	0.10 mg/l
Total Organic Carbon	Bailer	NO	EPA 415.1	18-Aug-00	29	mg/l	1.0 mg/l
Chemical Oxygen Demand	Bailer	NO	SM5220C	21-Aug-00	170	mg/l	20 mg/l
Chlorophyll-a	Bailer	NO	SM 10200H	17-Aug-00	6.12	ug/l	---
pH	Bailer	NO	Not Listed	14-Aug-00	6.27	units	---
Specific Conductance	Bailer	NO	Not Listed	14-Aug-00	482	umhos/cm	---
Temperature at Sampling	Bailer	NO	Not Listed	14-Aug-00	27.7	Degrees C	---
Dissolved Oxygen	Bailer	NO	Not Listed	14-Aug-00	4.42	mg/l	---
Antimony	Bailer	NO	Not Listed	21-Aug-00	<0.0060	mg/l	0.0060 mg/l
Fecal Coliform MF	Bailer	NO	Not Listed	14-Aug-00	>6000	col/100ml	1 col/100ml

* Average value of three field measurements.

FDEP COMQAP Number 890142G

Sampling and analysis by Severn Trent Laboratories Inc.

Facility GMS No.:		SWD-41-44795		Sampling Date:		August 14, 2000	
Test I.D. No.:		1665		Report Period		2nd Half 2000	
Well Name		SW-2		Well Purged:		NA	
Classification of Ground Water:		Surface Water		Well Type:		NA	
Ground Water Elevation (NGVD): NA							
PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS RESULTS	DETECTION LIMITS	
Acetone	Bailer	NO	EPA 8260	23-Aug-00	<50	ug/l	50 ug/l
Acrylonitrile	Bailer	NO	EPA 8260	23-Aug-00	<100	ug/l	100 ug/l
Benzene	Bailer	NO	EPA 8260	23-Aug-00	<1.0	ug/l	1.09 ug/l
Bromochloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Bromodichloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Bromoform	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Carbon disulfide	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Carbon Tetrachloride	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Chlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Chloroethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Chloroform	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Dibromochloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Ethylene Dibromide	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,4-Dichlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Trans-1,4-Dichloro-2-butene	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
1,1-Dichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
1,1-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
cis-1,2-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
trans-1,2-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
cis-1,2-Dichloropropene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
trans-1,3-Dichloropropene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Ethylbenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
2-Hexanone	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Bromomethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Chloromethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Dibromomethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Methylene Chloride	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
2-Butanone (MEK)	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Iodomethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
4-Methyl-2-pentanone (MIBK)	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Styrene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,1,2-Tetrachloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2,2,2-Tetrachloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Tetrachloroethene	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Toluene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,1-Trichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,2-Trichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Trichloroethene	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Trichlorofluoromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2,3-Trichloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Vinyl Acetate	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Vinyl Chloride	Bailer	NO	EPA 8260	23-Aug-00	<1.0	ug/l	1.0 ug/l
Xylenes	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Arsenic	Bailer	NO	EPA 6010	21-Aug-00	0.016	mg/l	0.010 mg/l
Barium	Bailer	NO	EPA 6010	21-Aug-00	0.062	mg/l	0.010 mg/l
Beryllium	Bailer	NO	EPA 6010	21-Aug-00	<0.0040	mg/l	0.0040 mg/l
Cadmium	Bailer	NO	EPA 6010	21-Aug-00	<0.0050	mg/l	0.0050 mg/l
Chromium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Cobalt	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Copper	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Lead	Bailer	NO	EPA 6010	21-Aug-00	<0.0050	mg/l	0.0050 mg/l
Nickel	Bailer	NO	EPA 6010	21-Aug-00	<0.040	mg/l	0.040 mg/l
Selenium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Silver	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Vanadium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Zinc	Bailer	NO	EPA 6010	21-Aug-00	0.024	mg/l	0.020 mg/l
1,2-Dibromoethane (EDB)	Bailer	NO	EPA 504	28-Aug-00	<0.020	ug/l	0.020 ug/l
1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 504	28-Aug-00	<0.020	ug/l	0.020 ug/l
Copper	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Iron	Bailer	NO	EPA 6010	21-Aug-00	9.3	mg/l	0.050 mg/l
Mercury	Bailer	NO	EPA 245.1	23-Aug-00	0.00078	mg/l	0.00020 mg/l
Thallium	Bailer	NO	EPA 200.9	23-Aug-00	<0.0020	mg/l	0.0020 mg/l
Zinc	Bailer	NO	EPA 6010	21-Aug-00	0.024	mg/l	0.020 mg/l
Hardness as CaCO3	Bailer	NO	EPA 6010	14-Aug-00	130	mg/l	3.3 mg/l
Total Dissolved Solids	Bailer	NO	EPA 160.1	15-Aug-00	320	mg/l	5.0 mg/l
Suspended Solids	Bailer	NO	EPA 160.2	16-Aug-00	16	mg/l	5.0 mg/l
Nitrate-N	Bailer	NO	EPA 353.3	16-Aug-00	0.76	mg/l	0.050 mg/l
Nitrite-N	Bailer	NO	EPA 353.3	16-Aug-00	<0.050	mg/l	0.050 mg/l
Ammonia (as N)	Bailer	NO	EPA 350.1	28-Aug-00	0.30	mg/l	0.030 mg/l
Ammonia Unionized	Bailer	NO	FL-DEP 10/83	Not Listed	0.00067	mg/l	---
Total Kjeldahl Nitrogen-N	Bailer	NO	EPA 351.2	22-Aug-00	1.6	mg/l	0.20 mg/l
Total Nitrogen	Bailer	NO	EPA 351.2	14-Aug-00	2.4	mg/l	---
Biochemical Oxygen Demand (5 day)	Bailer	NO	EPA 405.1/5210B	16-Aug-00	<2.0	mg/l	2.0 mg/l
Total Phosphorus	Bailer	NO	EPA 365.4	22-Aug-00	0.62	mg/l	0.10 mg/l
Total Organic Carbon	Bailer	NO	EPA 415.1	18-Aug-00	32	mg/l	1.0 mg/l
Chemical Oxygen Demand	Bailer	NO	SM5220C	21-Aug-00	96	mg/l	20 mg/l
Chlorophyll-a	Bailer	NO	SM 10200H	17-Aug-00	2.34	ug/l	---
pH*	Bailer	NO	Not Listed	14-Aug-00	6.46	units	---
Specific Conductance*	Bailer	NO	Not Listed	14-Aug-00	546	umhos/cm	---
Temperature at Sampling*	Bailer	NO	Not Listed	14-Aug-00	26.7	Degrees C	---
Dissolved Oxygen*	Bailer	NO	Not Listed	14-Aug-00	4.27	mg/l	---
Antimony	Bailer	NO	Not Listed	21-Aug-00	<0.0060	mg/l	0.0060 mg/l
Fecal Coliform MF	Bailer	NO	Not Listed	14-Aug-00	>6000	col/100ml	1 l/100

* Average value of three field measurements.

FDEP COMQAP Number 890142G

Sampling and analysis by Severn Trent Laboratories Inc.

Facility GMS No.:	4041C02025	Sampling Date:	August 14, 2000
Test I.D. No.:		Report Period	2nd Half 2000
Well Name	DUPLICATE	Well Purged:	NA
Classification of Ground Water:	Surface Water	Well Type:	NA
Ground Water Elevation (NGVD):	NA		

PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS RESULTS	DETECTION LIMITS	
Acetone	Bailer	NO	EPA 8260	23-Aug-00	<50	ug/l	50 ug/l
Acrylonitrile	Bailer	NO	EPA 8260	23-Aug-00	<100	ug/l	100 ug/l
Benzene	Bailer	NO	EPA 8260	23-Aug-00	<1.0	ug/l	1.09 ug/l
Bromochloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Bromodichloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Bromoform	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Carbon disulfide	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Carbon Tetrachloride	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Chlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Chloroethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Chloroform	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Dibromochloromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Ethylene Dibromide	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,4-Dichlorobenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Trans-1,4-Dichloro-2-butene	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
1,1-Dichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
1,1-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
cis-1,2-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
trans-1,2-Dichloroethylene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2-Dichloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
cis-1,2-Dichloropropene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
trans-1,3-Dichloropropene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Ethylbenzene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
2-Hexanone	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Bromomethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Chloromethane	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Dibromomethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Methylene Chloride	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
2-Butanone (MEK)	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Iodomethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
4-Methyl-2-pentanone (MIBK)	Bailer	NO	EPA 8260	23-Aug-00	<25	ug/l	25 ug/l
Styrene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,1,2-Tetrachloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2,2,2-Tetrachloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Tetrachloroethene	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Toluene	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,1-Trichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,1,2-Trichloroethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Trichloroethene	Bailer	NO	EPA 8260	23-Aug-00	<3.0	ug/l	3.0 ug/l
Trichlorofluoromethane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
1,2,3-Trichloropropane	Bailer	NO	EPA 8260	23-Aug-00	<5.0	ug/l	5.0 ug/l
Vinyl Acetate	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Vinyl Chloride	Bailer	NO	EPA 8260	23-Aug-00	<1.0	ug/l	1.0 ug/l
Xylenes	Bailer	NO	EPA 8260	23-Aug-00	<10	ug/l	10 ug/l
Arsenic	Bailer	NO	EPA 6010	21-Aug-00	0.010	mg/l	0.010 mg/l
Barium	Bailer	NO	EPA 6010	21-Aug-00	0.037	mg/l	0.010 mg/l
Beryllium	Bailer	NO	EPA 6010	21-Aug-00	<0.0040	mg/l	0.0040 mg/l
Cadmium	Bailer	NO	EPA 6010	21-Aug-00	<0.0050	mg/l	0.0050 mg/l
Chromium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Cobalt	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Copper	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Lead	Bailer	NO	EPA 6010	21-Aug-00	<0.0050	mg/l	0.0050 mg/l
Nickel	Bailer	NO	EPA 6010	21-Aug-00	<0.040	mg/l	0.040 mg/l
Selenium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Silver	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Vanadium	Bailer	NO	EPA 6010	21-Aug-00	<0.010	mg/l	0.010 mg/l
Zinc	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
1,2-Dibromoethane (EDB)	Bailer	NO	EPA 504	28-Aug-00	<0.020	ug/l	0.020 ug/l
1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 504	28-Aug-00	<0.020	ug/l	0.020 ug/l
Copper	Bailer	NO	EPA 6010	21-Aug-00	<0.020	mg/l	0.020 mg/l
Iron	Bailer	NO	EPA 6010	21-Aug-00	6.3	mg/l	0.050 mg/l
Mercury	Bailer	NO	EPA 245.1	23-Aug-00	<0.00020	mg/l	0.00020 mg/l
Thallium	Bailer	NO	EPA 200.9	23-Aug-00	<0.0020	mg/l	0.0020 mg/l
Zinc	Bailer	NO	EPA 6010	21-Aug-00	0.020	mg/l	0.020 mg/l
Hardness as CaCO3	Bailer	NO	EPA 6010	14-Aug-00	260	mg/l	3.3 mg/l
Total Dissolved Solids	Bailer	NO	EPA 160.1	15-Aug-00	350	mg/l	5.0 mg/l
Suspended Solids	Bailer	NO	EPA 160.2	16-Aug-00	16	mg/l	5.0 mg/l
Nitrate-N	Bailer	NO	EPA 353.3	16-Aug-00	0.85	mg/l	0.050 mg/l
Nitrite-N	Bailer	NO	EPA 353.3	16-Aug-00	<0.050	mg/l	0.050 mg/l
Ammonia (as N)	Bailer	NO	EPA 350.1	28-Aug-00	0.31	mg/l	0.030 mg/l
Ammonia Unionized	Bailer	NO	FL-DEP 10/83	Not Listed	N/A	mg/l	---
Total Kjeldahl Nitrogen-N	Bailer	NO	EPA 351.2	22-Aug-00	1.4	mg/l	0.20 mg/l
Total Nitrogen	Bailer	NO	Not Listed	Not Listed	2.3	mg/l	---
Biochemical Oxygen Demand (5 day)	Bailer	NO	EPA 405.1/5210B	16-Aug-00	<2.0	mg/l	2.0 mg/l
Total Phosphorus	Bailer	NO	EPA 365.4	22-Aug-00	0.62	mg/l	0.10 mg/l
Total Organic Carbon	Bailer	NO	EPA 415.1	18-Aug-00	31	mg/l	1.0 mg/l
Chemical Oxygen Demand	Bailer	NO	SM5220C	21-Aug-00	96	mg/l	20 mg/l
Chlorophyll-a	Bailer	NO	SM 10200H	17-Aug-00	*F71	ug/l	---
pH*	Bailer	NO	Field Parameter	14-Aug-00	N/A	units	---
Specific Conductance*	Bailer	NO	Field Parameter	14-Aug-00	N/A	umhos/cm	---
Temperature at Sampling*	Bailer	NO	Field Parameter	14-Aug-00	N/A	Degrees C	---
Dissolved Oxygen*	Bailer	NO	Field Parameter	14-Aug-00	N/A	mg/l	---
Antimony	Bailer	NO	Field Parameter	21-Aug-00	<0.0060	mg/l	0.0060 mg/l
Fecal Coliform MF	Bailer	NO	SM9222-D	14-Aug-00	>6000	col/100ml	1 col/100ml

* Average value of three field measurements.

FDEP COMQAP Number 890142G

Sampling and analysis by Severn Trent Laboratories Inc.

SAVANNAH ANALYTICAL SERVICES, INC.
2823 LIMERICK STREET
SAVANNAH, GEORGIA 31404
PHONE : (912) 355-8080
FAX : (912) - 356 - 0220

ANALYTICAL REPORT

PAGE 1

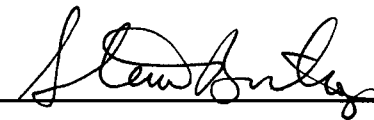
CLIENT NAME : SAVANNAH LABORATORIES, INC.
ANALYTE : CHLOROPHYLL a
PROJECT REFERENCE:
REQUESTED BY : MIKE VALDER
DETECTION LIMIT (ug / l) : 0.10
RPD : 4.00
DATE REPORTED : 08/17/00

SAS LOG NO. : 20190
P. O. NO. : B827
PROJECT NO. : B06-2435
SAMPLE TYPE : WATER
LAB BLANK : 0.02 ug/l
PREP DATE : 08/16-17/00
ANALYSIS DATE : 08/17/00
DATE COLLECTED : 08/14/00

SAMPLE ID	RESULT	UNITS
SW - 1	6.12	ug / l
SW - 2	2.34	ug / l
DUPLICATE	2.92	ug / l

STANDARD METHODS : SM 10200H, 18TH EDITION

REPORT APPROVED BY



S. STEPHEN BISHOP

SEVERN

TRENT

SERVICES

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STL Tampa West

Ms. Gwen Pasington
 Manatee County Public Works Industrial Compliance
 Post Office Box 25010
 Bradenton, FL 34206

LOG NO: B0-62435
 Received: 15 AUG 00
 Reported: 31 AUG 00
 Revised: 05 JAN 01
 Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
62435-1	SW-1	08-14-00/14:45		
62435-2	SW-2	08-14-00/15:35		
62435-3	DUPLICATE	08-14-00		
PARAMETER		62435-1	62435-2	62435-3
cis-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0
2-Hexanone, ug/l		<25	<25	<25
Bromomethane, ug/l		<10	<10	<10
Chloromethane, ug/l		<10	<10	<10
Dibromomethane, ug/l		<5.0	<5.0	<5.0
Methylene Chloride, ug/l		<5.0	<5.0	<5.0
2-Butanone (MEK), ug/l		<25	<25	<25
Iodomethane, ug/l		<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK), ug/l		<25	<25	<25
Styrene, ug/l		<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0
Tetrachloroethene, ug/l		<3.0	<3.0	<3.0
Toluene, ug/l		<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0
Trichloroethene, ug/l		<3.0	<3.0	<3.0
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0
1,2,3-Trichloropropane, ug/l		<5.0	<5.0	<5.0
Vinyl acetate, ug/l		<10	<10	<10
Vinyl chloride, ug/l		<1.0	<1.0	<1.0
Xylenes, ug/l		<10	<10	<10
Analysis Date		08.23.00	08.24.00	08.24.00



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REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
62435-1	SW-1	08-14-00/14:45		
62435-2	SW-2	08-14-00/15:35		
62435-3	DUPLICATE	08-14-00		
PARAMETER		62435-1	62435-2	62435-3
Appendix I Metals by ICP (6010)				
Arsenic, mg/l		<0.010	0.016	0.010
Barium, mg/l		0.018	0.062	0.037
Beryllium, mg/l		<0.0040	<0.0040	<0.0040
Cadmium, mg/l		<0.0050	<0.0050	<0.0050
Chromium, mg/l		<0.010	<0.010	<0.010
Cobalt, mg/l		<0.010	<0.010	<0.010
Copper, mg/l		<0.020	<0.020	<0.020
Lead, mg/l		<0.0050	<0.0050	<0.0050
Nickel, mg/l		<0.040	<0.040	<0.040
Selenium, mg/l		<0.010	<0.010	<0.010
Silver, mg/l		<0.010	<0.010	<0.010
Vanadium, mg/l		<0.010	<0.010	<0.010
Zinc, mg/l		<0.020	0.024	<0.020
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.21.00	08.21.00	08.21.00
Microextractables				
1,2-Dibromoethane (EDB), ug/l		<0.020	<0.020	<0.020
1,2-Dibromo-3-chloropropane, ug/l		<0.020	<0.020	<0.020
Prep Date		08.28.00	08.28.00	08.28.00
Analysis Date		08.28.00	08.28.00	08.28.00
Copper (6010)				
Copper, mg/l		<0.020	<0.020	<0.020
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.21.00	08.21.00	08.21.00



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Page 4

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
62435-1	SW-1	08-14-00/14:45		
62435-2	SW-2	08-14-00/15:35		
62435-3	DUPLICATE	08-14-00		
PARAMETER		62435-1	62435-2	62435-3
Iron, mg/l		1.2	9.3	6.3
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.21.00	08.21.00	08.21.00
Mercury (245.1)				
Mercury, mg/l		<0.00020	0.00078	<0.00020
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.23.00	08.23.00	08.23.00
Thallium (200.9)				
Thallium, mg/l		<0.0020	<0.0020	<0.0020
Prep Date		08.22.00	08.22.00	08.22.00
Analysis Date		08.23.00	08.23.00	08.23.00
Zinc (6010)				
Zinc, mg/l		<0.020	0.024	<0.020
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.21.00	08.21.00	08.21.00
Hardness as CaCO ₃ , mg/l		120	130	260
Total Dissolved Solids (160.1)				
Total Dissolved Solids, mg/l		320	320	350
Analysis Date		08.15.00	08.15.00	08.15.00
Suspended Solids (160.2), mg/l		<5.0	16	16
Analysis Date		08.16.00	08.16.00	08.16.00



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Page 5

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
62435-1	SW-1	08-14-00/14:45		
62435-2	SW-2	08-14-00/15:35		
62435-3	DUPLICATE	08-14-00		
PARAMETER		62435-1	62435-2	62435-3
Nitrate-N (353.3)				
Nitrate-N, mg/l		0.057	0.76	0.85
Analysis Date		08.16.00	08.16.00	08.16.00
Nitrite-N				
Nitrite-N, mg/l		<0.050	<0.050	<0.050
Analysis Date		08.16.00	08.16.00	08.16.00
Ammonia (as N) (350.1), mg/l		0.39	0.30	0.31
Prep Date		08.28.00	08.28.00	08.28.00
Analysis Date		08.28.00	08.28.00	08.28.00
Ammonia Unionized (FL-DEP 10/83), mg/l		0.00060	0.00067	NA
Total Kjeldahl Nitrogen-N (351.2), mg/l		1.5	1.6	1.4
Prep Date		08.18.00	08.18.00	08.18.00
Analysis Date		08.22.00	08.22.00	08.22.00
Total Nitrogen, mg/l		1.6	2.4	2.3
Biochemical Oxygen Demand (5 Day) (405.1/5210B), mg/l		<2.0	<2.0	<2.0
Analysis Date		08.16.00	08.16.00	08.16.00
Total Phosphorus (365.4), mg/l		0.24	0.62	0.62
Prep Date		08.18.00	08.18.00	08.18.00
Analysis Date		08.22.00	08.22.00	08.22.00



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Code: 12561015

Page 6

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
62435-1	SW-1	08-14-00/14:45		
62435-2	SW-2	08-14-00/15:35		
62435-3	DUPLICATE	08-14-00		
PARAMETER		62435-1	62435-2	62435-3
Total Organic Carbon (415.1), mg/l		29	32	31
Prep Date		08.18.00	08.18.00	08.21.00
Analysis Date		08.18.00	08.18.00	08.21.00
Chemical Oxygen Demand (SM5220C), mg/l		170	96	96
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.21.00	08.21.00	08.21.00
Chlorophyll-a, ug/l		*F71	*F71	*F71
pH (Taken in Field), units		6.27	6.46	NA
Specific Conductance (Taken in Field), umhos/cm		482	546	NA
Temperature at Sampling Time, Degrees C		27.7	26.7	NA
Dissolved Oxygen (Taken in Field), mg/l		4.42	4.27	NA
Antimony, mg/l		<0.0060	<0.0060	<0.0060
Prep Date		08.21.00	08.21.00	08.21.00
Analysis Date		08.21.00	08.21.00	08.21.00
Fecal Coliform MF, col/100ml		>6000	>6000	>6000
Analysis Date		08.14.00	08.14.00	08.14.00
Water Elevation (NGVD), feet		NA	NA	NA

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LOG NO: B0-62435
Received: 15 AUG 00
Reported: 31 AUG 00
Revised: 05 JAN 01
Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-4	TRIP BLANK	08-14-00
PARAMETER	62435-4	
Appendix I - Organics (8260)		
Acetone, ug/l		<50
Acrylonitrile, ug/l		<100
Benzene, ug/l		<1.0
Bromochloromethane, ug/l		<5.0
Bromodichloromethane, ug/l		<5.0
Bromoform, ug/l		<5.0
Carbon disulfide, ug/l		<5.0
Carbon Tetrachloride, ug/l		<3.0
Chlorobenzene, ug/l		<5.0
Chloroethane, ug/l		<10
Chloroform, ug/l		<5.0
Dibromochloromethane, ug/l		<5.0
1,2-Dibromo-3-chloropropane, ug/l		<5.0
Ethylene Dibromide, ug/l		<5.0
1,2-Dichlorobenzene, ug/l		<5.0
1,4-Dichlorobenzene, ug/l		<5.0
Trans-1,4-Dichloro-2-butene, ug/l		<10
1,1-Dichloroethane, ug/l		<5.0
1,2-Dichloroethane, ug/l		<3.0
1,1-Dichloroethylene, ug/l		<5.0
cis-1,2-Dichloroethylene, ug/l		<5.0
trans-1,2-Dichloroethylene, ug/l		<5.0
1,2-Dichloropropane, ug/l		<5.0
cis-1,3-Dichloropropene, ug/l		<5.0
trans-1,3-Dichloropropene, ug/l		<5.0



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Sampled By: Tampa Division (STL)

Code: 12561015

Page 8

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-4	TRIP BLANK	08-14-00
PARAMETER	62435-4	
Ethylbenzene, ug/l	<5.0	
2-Hexanone, ug/l	<25	
Bromomethane, ug/l	<10	
Chloromethane, ug/l	<10	
Dibromomethane, ug/l	<5.0	
Methylene Chloride, ug/l	<5.0	
2-Butanone (MEK), ug/l	<25	
Iodomethane, ug/l	<5.0	
4-Methyl-2-pentanone (MIBK), ug/l	<25	
Styrene, ug/l	<5.0	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	
Tetrachloroethene, ug/l	<3.0	
Toluene, ug/l	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	
Trichloroethene, ug/l	<3.0	
Trichlorofluoromethane, ug/l	<5.0	
1,2,3-Trichloropropane, ug/l	<5.0	
Vinyl acetate, ug/l	<10	
Vinyl chloride, ug/l	<1.0	
Xylenes, ug/l	<10	
Analysis Date	08.24.00	

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Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

REPORT OF RESULTS

Page 9

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
62435-5	Method Blank				
62435-6	Accuracy (%Rec)				
62435-7	Precision (%RPD)				
62435-8	Analyst Initials				
62435-9	Method Number				
PARAMETER	62435-5	62435-6	62435-7	62435-8	62435-9
Appendix I - Organics (8260)					
Acetone, ug/l	<50	---	---	CW	8260
Acrylonitrile, ug/l	<100	---	---	CW	8260
Benzene, ug/l	<1.0	102 %	3.9 %	CW	8260
Bromochloromethane, ug/l	<5.0	---	---	CW	8260
Bromodichloromethane, ug/l	<5.0	---	---	CW	8260
Bromoform, ug/l	<5.0	---	---	CW	8260
Carbon disulfide, ug/l	<5.0	---	---	CW	8260
Carbon Tetrachloride, ug/l	<3.0	---	---	CW	8260
Chlorobenzene, ug/l	<5.0	109 %	5.5 %	CW	8260
Chloroethane, ug/l	<10	---	---	CW	8260
Chloroform, ug/l	<5.0	---	---	CW	8260
Dibromochloromethane, ug/l	<5.0	---	---	CW	8260
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	CW	8260
Ethylene Dibromide, ug/l	<5.0	---	---	CW	8260
1,2-Dichlorobenzene, ug/l	<5.0	---	---	CW	8260
1,4-Dichlorobenzene, ug/l	<5.0	---	---	CW	8260
Trans-1,4-Dichloro-2-butene, ug/l	<10	---	---	CW	8260
1,1-Dichloroethane, ug/l	<5.0	---	---	CW	8260
1,2-Dichloroethane, ug/l	<3.0	---	---	CW	8260
1,1-Dichloroethylene, ug/l	<5.0	94 %	4.2 %	CW	8260
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	CW	8260



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Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 10

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED				
62435-5	Method Blank					
62435-6	Accuracy (%Rec)					
62435-7	Precision (%RPD)					
62435-8	Analyst Initials					
62435-9	Method Number					
PARAMETER	62435-5	62435-6	62435-7	62435-8	62435-9	
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	CW	8260	
1,2-Dichloropropane, ug/l	<5.0	---	---	---	8260	
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	CW	8260	
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	CW	8260	
Ethylbenzene, ug/l	<5.0	---	---	CW	8260	
2-Hexanone, ug/l	<25	---	---	CW	8260	
Bromomethane, ug/l	<10	---	---	CW	8260	
Chloromethane, ug/l	<10	---	---	CW	8260	
Dibromomethane, ug/l	<5.0	---	---	CW	8260	
Methylene Chloride, ug/l	<5.0	---	---	CW	8260	
2-Butanone (MEK), ug/l	<25	---	---	CW	8260	
Iodomethane, ug/l	<5.0	---	---	CW	8260	
4-Methyl-2-pentanone (MIBK), ug/l	<25	---	---	CW	8260	
Styrene, ug/l	<5.0	---	---	CW	8260	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	CW	8260	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	CW	8260	
Tetrachloroethene, ug/l	<3.0	---	---	CW	8260	
Toluene, ug/l	<5.0	109 %	5.5 %	CW	8260	
1,1,1-Trichloroethane, ug/l	<5.0	---	---	CW	8260	
1,1,2-Trichloroethane, ug/l	<5.0	---	---	CW	8260	
Trichloroethene, ug/l	<3.0	102 %	7.8 %	CW	8260	
Trichlorofluoromethane, ug/l	<5.0	---	---	CW	8260	
1,2,3-Trichloropropane, ug/l	<5.0	---	---	CW	8260	
Vinyl acetate, ug/l	<10	---	---	CW	8260	
Vinyl chloride, ug/l	<1.0	---	---	CW	8260	
Xylenes, ug/l	<10	---	---	CW	8260	
Analysis Date	08.24.00	08.23.00	---	---	---	



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Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»
Sampled By: Tampa Division (STL)

Code: 12561015

Page 11

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
62435-5	Method Blank				
62435-6	Accuracy (%Rec)				
62435-7	Precision (%RPD)				
62435-8	Analyst Initials				
62435-9	Method Number				
PARAMETER	62435-5	62435-6	62435-7	62435-8	62435-9
Appendix I Metals by ICP (6010)					
Arsenic, mg/l	<0.010	104 %	3.3 %	NP	6010
Barium, mg/l	<0.010	103 %	3.0 %	NP	6010
Beryllium, mg/l	<0.0040	105 %	3.5 %	NP	6010
Cadmium, mg/l	<0.0050	105 %	4.2 %	NP	6010
Chromium, mg/l	<0.010	99 %	16 %	NP	6010
Cobalt, mg/l	<0.010	103 %	3.4 %	NP	6010
Copper, mg/l	<0.020	103 %	3.8 %	NP	6010
Lead, mg/l	<0.0050	104 %	4.0 %	NP	6010
Nickel, mg/l	<0.040	106 %	4.5 %	NP	6010
Selenium, mg/l	<0.010	97 %	4.8 %	NP	6010
Silver, mg/l	<0.010	100 %	3.6 %	NP	6010
Vanadium, mg/l	<0.010	100 %	3.5 %	NP	6010
Zinc, mg/l	<0.020	106 %	3.6 %	NP	6010
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.21.00	08.21.00	---	---	---
Microextractables					
1,2-Dibromoethane (EDB), ug/l	<0.020	109 %	1.8 %	TP	504
1,2-Dibromo-3-chloropropane , ug/l	<0.020	106 %	6.6 %	TP	504
Prep Date	08.28.00	08.28.00	---	---	---
Analysis Date	08.28.00	08.28.00	---	---	---



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Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 12

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
62435-5	Method Blank				
62435-6	Accuracy (%Rec)				
62435-7	Precision (%RPD)				
62435-8	Analyst Initials				
62435-9	Method Number				
PARAMETER	62435-5	62435-6	62435-7	62435-8	62435-9
Copper (6010)					
Copper, mg/l	<0.020	103 %	3.8 %	NP	6010
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.21.00	08.21.00	---	---	---
Iron, mg/l	<0.050	99 %	3.1 %	NP	6010
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.21.00	08.21.00	---	---	---
Mercury (245.1)					
Mercury, mg/l	<0.00020	100 %	7.3 %	MJC	245.1
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.23.00	08.23.00	---	---	---
Thallium (200.9)					
Thallium, mg/l	<0.0020	85 %	0.094 %	JC	200.9
Prep Date	08.22.00	08.22.00	---	---	---
Analysis Date	08.23.00	08.23.00	---	---	---
Zinc (6010)					
Zinc, mg/l	<0.020	106 %	3.6 %	NP	6010
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.21.00	08.21.00	---	---	---
Hardness as CaCO ₃ , mg/l	<3.3	103 %	2.2 %	NP	6010



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Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»
Sampled By: Tampa Division (STL)

Code: 12561015

Page 13

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
62435-5	Method Blank				
62435-6	Accuracy (%Rec)				
62435-7	Precision (%RPD)				
62435-8	Analyst Initials				
62435-9	Method Number				
PARAMETER	62435-5	62435-6	62435-7	62435-8	62435-9
Total Dissolved Solids (160.1)					
Total Dissolved Solids, mg/l	<5.0	93 %	5.7 %	DN	E160.1
Analysis Date	08.15.00	08.15.00	---	---	---
Suspended Solids (160.2), mg/l	<5.0	98 %	13 %	DN	160.2
Analysis Date	08.16.00	08.16.00	---	---	---
Nitrate-N (353.3)					
Nitrate-N, mg/l	<0.050	91 %	4.4 %	TS	E353.3
Analysis Date	08.16.00	08.16.00	---	---	---
Nitrite-N					
Nitrite-N, mg/l	<0.050	100 %	1.0 %	TS	E353.3
Analysis Date	08.16.00	08.16.00	---	---	---
Ammonia (as N) (350.1), mg/l	<0.030	109 %	1.1 %	DM	350.1
Prep Date	08.28.00	08.28.00	---	---	---
Analysis Date	08.28.00	08.28.00	---	---	---
Ammonia Unionized (FL-DEP 10/83), mg/l	---	---	---	DM	FL-DER
Total Kjeldahl Nitrogen-N (351.2), mg/l	<0.20	89 %	2.2 %	RD	351.2
Prep Date	08.18.00	08.18.00	---	---	---
Analysis Date	08.22.00	08.22.00	---	---	---



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Revised: 05 JAN 01
Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 14

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
62435-5	Method Blank				
62435-6	Accuracy (%Rec)				
62435-7	Precision (%RPD)				
62435-8	Analyst Initials				
62435-9	Method Number				
PARAMETER	62435-5	62435-6	62435-7	62435-8	62435-9
Biochemical Oxygen Demand (5 Day) (405.1/5210B), mg/l	<2.0	85 %	0.49 %	DN	E405.1
Analysis Date	08.16.00	08.16.00	---	---	---
Total Phosphorus (365.4), mg/l	<0.10	97 %	2.0 %	RD	365.4
Prep Date	08.18.00	08.18.00	---	---	---
Analysis Date	08.22.00	08.22.00	---	---	---
Total Organic Carbon (415.1), mg/l	<1.0	98 %	3.1 %	RD	415.1
Prep Date	08.18.00	08.18.00	---	---	---
Analysis Date	08.18.00	08.18.00	---	---	---
Chemical Oxygen Demand (SM5220C), mg/l	<20	106 %	0 %	CEH	SM5220C
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.21.00	08.21.00	---	---	---
Antimony, mg/l	<0.0060	102 %	3.6 %	NP	6010
Prep Date	08.21.00	08.21.00	---	---	---
Analysis Date	08.21.00	08.21.00	---	---	---
Fecal Coliform MF, col/100ml	<1	---	14 %	CEH	SM9222D
Analysis Date	08.14.00	---	---	---	---



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Revised: 05 JAN 01
Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 15

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-10	Reporting Limit (RL)	
PARAMETER		62435-10
Appendix I - Organics (8260)		
Acetone, ug/l		50
Acrylonitrile, ug/l		100
Benzene, ug/l		1.0
Bromochloromethane, ug/l		5.0
Bromodichloromethane, ug/l		5.0
Bromoform, ug/l		5.0
Carbon disulfide, ug/l		5.0
Carbon Tetrachloride, ug/l		3.0
Chlorobenzene, ug/l		5.0
Chloroethane, ug/l		10
Chloroform, ug/l		5.0
Dibromochloromethane, ug/l		5.0
1,2-Dibromo-3-chloropropane, ug/l		5.0
Ethylene Dibromide, ug/l		5.0
1,2-Dichlorobenzene, ug/l		5.0
1,4-Dichlorobenzene, ug/l		5.0
Trans-1,4-Dichloro-2-butene, ug/l		10
1,1-Dichloroethane, ug/l		5.0
1,2-Dichloroethane, ug/l		3.0
1,1-Dichloroethylene, ug/l		5.0
cis-1,2-Dichloroethylene, ug/l		5.0
trans-1,2-Dichloroethylene, ug/l		5.0
1,2-Dichloropropane, ug/l		5.0
cis-1,3-Dichloropropene, ug/l		5.0
trans-1,3-Dichloropropene, ug/l		5.0



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Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 16

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-10	Reporting Limit (RL)	
PARAMETER	62435-10	
Ethylbenzene, ug/l	5.0	
2-Hexanone, ug/l	25	
Bromomethane, ug/l	10	
Chloromethane, ug/l	10	
Dibromomethane, ug/l	5.0	
Methylene Chloride, ug/l	5.0	
2-Butanone (MEK), ug/l	25	
Iodomethane, ug/l	5.0	
4-Methyl-2-pentanone (MIBK), ug/l	25	
Styrene, ug/l	5.0	
1,1,1,2-Tetrachloroethane, ug/l	5.0	
1,1,2,2-Tetrachloroethane, ug/l	5.0	
Tetrachloroethene, ug/l	3.0	
Toluene, ug/l	5.0	
1,1,1-Trichloroethane, ug/l	5.0	
1,1,2-Trichloroethane, ug/l	5.0	
Trichloroethene, ug/l	3.0	
Trichlorofluoromethane, ug/l	5.0	
1,2,3-Trichloropropane, ug/l	5.0	
Vinyl acetate, ug/l	10	
Vinyl chloride, ug/l	1.0	
Xylenes, ug/l	10	



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Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 17

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-10	Reporting Limit (RL)	
PARAMETER		62435-10
Appendix I Metals by ICP (6010)		
Arsenic, mg/l		0.010
Barium, mg/l		0.010
Beryllium, mg/l		0.0040
Cadmium, mg/l		0.0050
Chromium, mg/l		0.010
Cobalt, mg/l		0.010
Copper, mg/l		0.020
Lead, mg/l		0.0050
Nickel, mg/l		0.040
Selenium, mg/l		0.010
Silver, mg/l		0.010
Vanadium, mg/l		0.010
Zinc, mg/l		0.020
Microextractables		
1,2-Dibromoethane (EDB), ug/l		0.020
1,2-Dibromo-3-chloropropane, ug/l		0.020
Copper (6010)		
Copper, mg/l		0.020
Iron, mg/l		0.050
Mercury (245.1)		
Mercury, mg/l		0.00020
Thallium (200.9)		
Thallium, mg/l		0.0020



6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • Tel: 813 885 7427 • Fax: 813 885 7049 • www.stl-inc.com

STL Tampa West

Ms. Gwen Pagington
Manatee County Public Works Industrial Compliance
Post Office Box 25010
Bradenton, FL 34206

LOG NO: B0-62435
Received: 15 AUG 00
Reported: 31 AUG 00
Revised: 05 JAN 01
Client PO. No.: P002319

Project: LENA ROAD SEMIANNUAL SURFACE WATER AUGUST 2000»»»

Sampled By: Tampa Division (STL)

Code: 12561015

Page 18

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-10	Reporting Limit (RL)	
PARAMETER		62435-10
Zinc (6010)		
Zinc, mg/l		0.020
Hardness as CaCO ₃ , mg/l		3.3
Total Dissolved Solids (160.1)		
Total Dissolved Solids, mg/l		5.0
Suspended Solids (160.2), mg/l		5.0
Nitrate-N (353.3)		
Nitrate-N, mg/l		0.050
Nitrite-N		
Nitrite-N, mg/l		0.050
Ammonia (as N) (350.1), mg/l		0.030
Ammonia Unionized (FL-DEP 10/83), mg/l		---
Total Kjeldahl Nitrogen-N (351.2), mg/l		0.20
Biochemical Oxygen Demand (5 Day) (405.1/5210B), mg/l		2.0
Total Phosphorus (365.4), mg/l		0.10
Total Organic Carbon (415.1), mg/l		1.0
Chemical Oxygen Demand (SM5220C), mg/l		20



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Page 19

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
62435-10	Reporting Limit (RL)	
PARAMETER	62435-10	
Antimony, mg/l	0.0060	
Fecal Coliform MF, col/100ml		1

Methods: EPA SW-846, Update III, EPA 600/4-79-020.
DOH Certification #'s 84385, E84282, 87279, E87052.

*F71 = Subcontracted results are attached to this report.


Michael F. Valder, Project Manager

Final Page Of Report

STL Tampa West is a part of Severn Trent Laboratories, Inc.

WATER SAMPLING LOG

Client Name: MANATEE COUNTY

Page 2 of 3

Site Location: LENA ROAD LANDFILL

Date: 8-14-00

Site/Well I.D.: SURFACE WATER #1

Sample I.D.: SW-1

Duplicate I.D.:

Time Sampling
Began: 1445

Time Sample
Collected: 1455

Time Sampling
Completed: 1520

EVACUATION DATA

Purged:

Grab: X

Other:

Description of Measuring Point (MP):

Height of MP Above/Below Land Surface:

MP Elevation:

Total Sounded Depth of Well Below MP:

Water Level Elevation:

Depth to Water Below MP:

Diameter of Casing:

Water Column In Well:

Purge Started:

Gallons per Foot:

Purge Ended:

Gallons in Well:

Gallons Purged:

Evacuation Method & Material:

SAMPLING DATA/FIELD PARAMETERS

Time	<u>1455</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
pH	<u>6.27</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Temp (°C)	<u>27.7</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Spec. Cond.	<u>482µS</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
D.O. (mg/l)	<u>4.42</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Turb. (NTUs)	<u>4.2</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Other	<u>—</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Amount Purged	<u>—</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Color: LT AMBER Odor: NONE Appearance: CLEAR

Sampling Method & Material: DIRECT GRAB

Notes:

Sampling Personnel: BALDWIN PERMENTER

WATER SAMPLING LOG

Client Name: MANATEE COUNTY

Page 3 of 3

Site Location: LENA ROAD LANDFILL

Date: 8-14-00

Site/ Well I.D.: SURFACE WATER #2 Sample I.D.: SW-2

Duplicate I.D.: DUPLICATE

Time Sampling
Began: 1535

Time Sample
Collected: 1545

Time Sampling
Completed: _____

EVACUATION DATA

Purged: _____

Grab: X

Other: _____

Description of Measuring Point (MP): _____

Height of MP Above/Below Land Surface: _____

MP Elevation: _____

Total Sounded Depth of Well Below MP: _____

Water Level Elevation: _____

Depth to Water Below MP: _____

Diameter of Casing: _____

Water Column In Well: _____

Purge Started: _____

Gallons per Foot: _____

Purge Ended: _____

Gallons in Well: _____

Gallons Purged: _____

Evacuation Method & Material: _____

SAMPLING DATA/FIELD PARAMETERS

Time	<u>1545</u>	_____	_____	_____	_____	_____
pH	<u>6.46</u>	_____	_____	_____	_____	_____
Temp (°C)	<u>26.7</u>	_____	_____	_____	_____	_____
Spec. Cond.	<u>546.45</u>	_____	_____	_____	_____	_____
D.O. (mg/l)	<u>4.27</u>	_____	_____	_____	_____	_____
Turb. (NTUs)	<u>34.5</u>	_____	_____	_____	_____	_____
Other	<u>—</u>	_____	_____	_____	_____	_____
Amount Purged	<u>—</u>	_____	_____	_____	_____	_____

Color: AMBER Odor: NONE Appearance: SLIGHTLY TURBID

Sampling Method & Material: DIRECT GRAB

Notes: _____

Sampling Personnel: BALDWIN PERMENTER

Serial Number 003221



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- ☐ 5102 LaRoche Avenue, Savannah, GA 31404
- ☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- ☐ 900 Lakeside Drive, Mobile, AL 36693
- ☐ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

Phone: (912) 354-7858 Fax: (912) 352-0165
Phone: (850) 878-3994 Fax: (850) 878-9504
Phone: (334) 666-6633 Fax: (334) 666-6696
Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE LENA RD LF - SURFACE WATER		PROJECT NO.		PROJECT LOCATION (STATE) FL		MATRIX TYPE		REQUIRED ANALYSES										PAGE 1		OF 1	
STL (TAB) PROJECT MANAGER MIKE VALDER		P.O. NUMBER		CONTRACT NO.		COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)		EDP, ND, ND₂, 4% TDS, TSS 4% TP, TRN, NH₃ HNDS HC1 4% TOL 4% COD 4% APPI VDA 4% CHLOR A 4% FC										STANDARD REPORT DELIVERY		DATE DUE	
CLIENT (SITE) PM GIVEN PAGINATION		CLIENT PHONE		CLIENT FAX														EXPEDITED REPORT DELIVERY (SURCHARGE)		DATE DUE	
CLIENT NAME MANATEE COUNTY		CLIENT EMAIL																NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			
CI ADDRESS DRADENTON																		COMPANY CONTRACTING THIS WORK (if applicable):		REMARKS	
SAMPLE		SAMPLE IDENTIFICATION						NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME																				
8-14-00	1445	SW-1						2 1 1 1 1 3 1 3													
	1535	SW-2						2 1 1 1 1 3 1 3													
	—	DUPLICATE						2 1 1 1 1 3 1 3													
		TRIP BLANK						3													
RELINQUISHED BY: (SIGNATURE) BO 2000		DATE 8-10-00	TIME 1315	RELINQUISHED BY: (SIGNATURE) [Signature]		DATE 8-14-00	TIME 1715	RELINQUISHED BY: (SIGNATURE)		DATE	TIME										
RECEIVED BY: (SIGNATURE) [Signature]		DATE 8-14-00	TIME 0830 1715	RECEIVED BY: (SIGNATURE) [Signature]		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME										
RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature]		DATE 8-15-00	TIME 0900	CUSTODY INTACT YES NO		CUSTODY SEAL NO.		STL-SL LOG NO. B06-2435		LABORATORY REMARKS: Cooler Temp 4°											

ORIGINAL