

**MANATEE COUNTY  
GOVERNMENT**  
Public Works Department

April 14, 1994

Allison Amram  
Environmental Specialist  
Florida Department of Environmental Regulation  
Southwest District Office-Solid Waste Section  
3804 Coconut Palm  
Tampa, Florida 33619

D.E.P.

APR 25 1994

SOUTHWEST DISTRICT  
TAMPA

RE: Lena Road Landfill: Permit No. S041-211176  
First Quarter Monitoring Report - 1994

Dear Ms Amram:

Enclosed for your review is the first quarter Groundwater Monitoring Report for 1994 pursuant to the above referenced permit number. Daily rainfall, pH, and landfill tonnage records are also enclosed.

Please contact me if I can provide any clarification to this data as submitted.

Sincerely,

Gregory F. Yekaitis  
Solid Waste Technical Coordinator

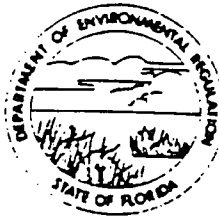
GFY/tyk

Enclosures

cc: Chongman Lee, FDER, Tallahassee  
Richard A. Wilford, Director, MCPWD  
Charles Hunsicker, Assistant Director, MCPWD  
Karen Collins, Director, Environmental Action Commission  
John Harllee, Esquire  
Roger Hill, Schroeder-Manatee Ranch  
Leonard Eder, Eder and Associates  
Lisa Perros, USEPA, Regional IV, Water Management District  
Daniel Gray, Deputy Director of Operations, MCPWD  
Gus DiFonzo, Solid Waste Division Manager, MCPWD

## DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

QUARTERLY REPORT ON GROUND WATER MONITORING  
Rule 17-4.245(6)(k)2.

GMS # \_\_\_\_\_

DATE April 14, 1994

DER PERMIT # S041-211176

Lena Road Landfill - Manatee County Public Works  
Installation Name

<u>Caller Service 25010</u>	<u>Bradenton</u>	<u>Florida</u>	<u>34206</u>	<u>Manatee</u>
Address	City	State	Zip	County

<u>Richard A. Wilford</u>	<u>Director of Public Works</u>
Owner or Authorized Representative's Name	Title

Method of Discharge N/A

Type of Industry Municipal Government

Report for Period January 1, 1994 to March 31, 1994  
date date

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to Rule 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the department and, if required by the department, submit a new report stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site boundary.

CERTIFICATION

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

[Signature]  
Owner or Authorized Representative's Signature

4.13.94  
Date

MANATEE COUNTY PUBLIC WORKS  
CENTRAL LABORATORY (HRS : E54139)  
5100 65TH STREET WEST  
BRADENTON, FL 32210

PARAMETER =====	Detection limit * =====
EPA 601	
Bromodichloromethane	0.10
Bromoform	0.20
Bromomethane	1.00
Carbon tetrachloride	0.12
Chlorobenzene	0.25
Chloroethane	0.10
2-Chloroethylvinyl ether	0.13
Chloroform	0.05
Chloromethane	0.08
Dibromochloromethane	0.09
1,2-Dichlorobenzene	0.15
1,3-Dichlorobenzene	0.32
1,4-Dichlorobenzene	0.24
Dichlorodifluoromethane	1.00
1,1-Dichloroethane	0.07
1,2-Dichloroethane	0.03
1,1-Dichloroethene	0.13
trans 1,2-Dichloroethene	0.10
1,2-Dichloropropane	0.01
cis 1,3-Dichloropropene	0.10
trans 1,3-Dichloropropene	0.10
Methylene chloride	0.25
1,1,2,2-Tetrachloroethane	0.03
Tetrachloroethylene	0.03
1,1,1-Trichloroethane	0.03
1,1,2-Trichloroethane	0.02
Trichloroethene	0.12
Trichlorofluoromethane	1.00
Vinyl chloride	0.18
EPA 602	
Benzene	0.009
Chlorobenzene	0.003
1,2-Dichlorobenzene	0.05
1,3-Dichlorobenzene	0.02
1,4-Dichlorobenzene	0.30
Ethylbenzene	0.20
Toluene	0.20
Xylenes (total)	0.02
Methyl t-butyl ether	1.00

\* - Reported by P.E. LaMoreaux & Assoc. (HRS.84098) in ug/L

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)  
 PROJECT: LENA ROAD LANDFILL  
 GMS #: 4041C02025

DATES COLLECTED: February 7, 8, 9, 14, 16, 1994  
 COLLECTED BY: D. Elliott

LOCATION	DATE	GMS ID No.	Mercury * (ug/L) **	EPA 601 * (note 1,2)	EPA 602 * (note 1,2)
GC 1	07-Feb-94	4041A12719	BDL	BDL	BDL
GC 2	07-Feb-94	4041A15965	BDL	BDL	BDL
GC 3	07-Feb-94	4041A15966	BDL	BDL	BDL
GC 4	07-Feb-94	4041A15967	BDL	BDL	BDL
SA 2	07-Feb-94	4041A14817		* Well Resampled February 8, , 1994 *	
SA 3	07-Feb-94	4041A15952	BDL	BDL	BDL
SA 4	07-Feb-94	4041A15953	BDL	BDL	BDL
SA 2	08-Feb-94	4041A14817	BDL	BDL	BDL
SA 5	08-Feb-94	4041A15954	BDL	BDL	BDL
SA 6	08-Feb-94	4041A15955	BDL	BDL	BDL
SA 7	08-Feb-94	4041A15956	BDL	BDL	BDL
LRII 1	08-Feb-94	4041A15960	BDL	BDL	BDL
LRII 2	08-Feb-94	4041A15961	BDL	BDL	BDL
LRII 3	08-Feb-94	4041A15962	BDL	BDL	BDL
SMR I	09-Feb-94	4041A15959	BDL	BDL	BDL
SMR II	09-Feb-94	4041A15958	BDL	BDL	BDL
MW 6	09-Feb-94	4041A12718	BDL	BDL	BDL
SA 8	09-Feb-94	4041A15957	BDL	BDL	BDL
LRII 4	09-Feb-94	4041A15963	BDL	BDL	BDL
LRII 5	09-Feb-94	4041A15964	BDL	BDL	BDL
MW 2	14-Feb-94	4041A12709	0.0001	BDL	BDL
MW 3	14-Feb-94	4041A12710	0.0004	BDL	BDL
MW 5	14-Feb-94	4041A12717	0.0007	BDL	BDL
GC 5	14-Feb-94	4041A15968	0.0005	BDL	BDL
GC 6	14-Feb-94	4041A15969	0.0002	BDL	BDL
CW 4	16-Feb-94	4041A12730	BDL	BDL	BDL
MW 1	16-Feb-94	4041A12708	0.0002	BDL	BDL

0

\* All analyses performed by P.E.LaMoreaux & Assoc. (HRS 84183)  
 \*\* Reported detection limit - 0.0001 mg/L  
 note 1 : For analytes and detection limits see attached  
 note 2 : Reported "BDL" is for all analytes within the method

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

LENA ROAD LANDFILL GMS#: 4041C02025

COLLECTED BY: D. Elliott

LABORATORY PARAMETERS

=====

LOCATION	DATE	GMS ID No.	pH (S.U.)	COND. (umho/cm)	TURB. (NTU)	NITRITE as N (mg/l)	NITRATE as N (mg/l)	TKN (mg/l)	CHLORIDE (mg/l)	TDS (mg/l)	SULFATE (mg/l)	TOC (mg/l)	BICARBONATE ALKALINITY (mgCaCO3/l)
GC 1	07-Feb	4041A12719	6.5	976	40	0.01	< 0.01	1.0	139	624	20.3	17.3	342
GC 2	07-Feb	4041A15965	6.4	500	240	< 0.01	< 0.01	1.0	42.6	314	62.5	10.8	130
GC 3	07-Feb	4041A15966	6.6	477	36	0.01	< 0.01	0.4	29.4	286	34.0	0.4	146
GC 4	07-Feb	4041A15967	6.6	461	95	0.01	< 0.01	0.5	26.9	278	37.4	5.5	164
SA 2	07-Feb	4041A14817				* Resampled on February 8, 1994 *							
SA 3	07-Feb	4041A15952	7.2	634	12	0.01	< 0.01	1.3	30.6	414	61.2	17.4	292
SA 4	07-Feb	4041A15953	7.5	653	0.40	< 0.01	< 0.01	1.0	64.2	433	60.6	6.5	231
SA 2	08-Feb	4041A14817	7.2	544	0.40	< 0.01	< 0.01	1.5	27.0	345	15.6	18.4	242
SA 5	08-Feb	4041A15954	7.4	693	0.25	< 0.01	< 0.01	0.6	74.9	410	32.5	8.4	208
SA 6	08-Feb	4041A15955	7.4	850	0.60	< 0.01	< 0.01	0.7	55.5	586	190	7.9	175
SA 7	08-Feb	4041A15956	7.6	478	0.20	< 0.01	< 0.01	0.3	59.8	303	17.7	4.6	155
LRII 1	08-Feb	4041A15960	6.4	444	160	0.02	< 0.01	1.8	28.0	286	62.1	19.1	168
LRII 2	08-Feb	4041A15961	6.0	138	3.0	0.01	< 0.01		9.21	77.0	9.03	13.3	73.8
LRII 3	08-Feb	4041A15962	4.9	141	0.20	0.01	< 0.01	0.8	14.0	83.0	27.3	2.7	4.3
SMR I	09-Feb	4041A15959	5.5	204	4.9	0.01	< 0.01	1.3	20.1	155	29.7	18.5	29.8
SMR II	09-Feb	4041A15958	7.3	638	0.2	< 0.01	< 0.01	0.7	98.1	396	3.81	5.3	196
MW 6	09-Feb	4041A12718	5.8	233	220	0.02	< 0.01	2.4	29.1	261	29.6	13.6	31.4
SA 8	09-Feb	4041A15957	7.6	473	0.4	< 0.01	< 0.01	0.7	56.8	311	7.95	4.4	160
LRII 4	09-Feb	4041A15963	6.5	422	6.0	< 0.01	< 0.01	0.3	12.2	241	17.9	3.0	199
LRII 5	09-Feb	4041A15964	6.3	296	40	< 0.01	< 0.01	1.5	12.5	189	5.15	7.6	131
MW 2	14-Feb	4041A12709	5.0	333	38	< 0.01	0.02	1.9	38.2	231	93.0	16.8	7.8
MW 3	14-Feb	4041A12710	6.2	643	140	0.01	< 0.01		125	410	95.1	13.8	28.2
MW 5	14-Feb	4041A12717	6.5	318	550	< 0.01	< 0.01	7.2	34.1	559	125	16.0	125
GC 5	14-Feb	4041A15968	6.5	462	320	0.02	< 0.01	2.1	29.0	326	25.1	17.9	199
GC 6	14-Feb	4041A15969	6.2	261	60	0.02	< 0.01	2.7	24.6	211	41.4	13.6	46.5
CW 4	16-Feb	4041A12730	7.0	1520	50	0.02	< 0.01	2.2	2.87	1180	292	19.2	241
MW 1	16-Feb	4041A12708	5.4	170	110	0.01	< 0.01	2.4	36.2	152	1.60	9.1	50.4

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL  
GMS #: 4041C02025

DATES COLLECTED: February 7, 8, 9, 14, 16, 1994

COLLECTED BY: D. Elliott

FIELD PARAMETERS

=====

LOCATION	DATE	FIELD ID No.	WELL ID No.	pH (S.U.)	COND. (umho/cm)	TEMP. (deg C)	D.O. (mg/L)	Turbidity (NTU)	TOTAL DEPTH (ft)	SAMPLE DEPTH (ft)	ELEVATION (ft)	NVGD ** (ft)
GC 1	07-Feb-94		4041A12719	6.5	900	20.7	0.9	0.1	23.76	4.67	31.36	26.69
GC 2	07-Feb-94		4041A15965	6.4	475	23.1	0.4	134	18.03	5.73	38.23	32.50
GC 3	07-Feb-94		4041A15966	6.6	445	22.6	0.4	5.7	22.58	5.20	35.08	29.88
GC 4	07-Feb-94		4041A15967	6.6	435	23.3	0.3	6.2	22.18	5.42	33.98	28.56
SA 2	07-Feb-94		4041A14817	* Resampled on February 8, 1994 *								
SA 3	07-Feb-94		4041A15952	7.3	650	24.7	0.6	12.1	163.02	16.50	35.12	18.62
SA 4	07-Feb-94		4041A15953	7.5	675	22.9	0.8	0.9	143.78	12.70	31.28	18.58
SA 2	08-Feb-94		4041A14817	7.4	525	24.8	0.4	1.3	154.93	14.60	37.97	23.37
SA 5	08-Feb-94		4041A15954	7.4	625	23.5	0.2	0.4	153.02	17.00	37.92	20.92
SA 6	08-Feb-94		4041A15955	7.3	775	24.1	0.4	0.6	153.04	16.10	36.04	19.94
SA 7	08-Feb-94		4041A15956	7.7	455	24.7	*	0.5	152.97	15.10	33.27	18.17
LR II 1	08-Feb-94		4041A15960	6.4	388	21.7	0.2	5.8	21.12	5.58	38.02	32.44
LR II 2	08-Feb-94		4041A15961	6.1	140	22.9	0.4	0.8	22.83	6.33	36.53	30.20
LR II 3	08-Feb-94		4041A15962	5.0	135	24.1	*	0.5	22.81	7.35	33.51	26.16
SMR I	09-Feb-94		4041A15959	5.9	200	22.9	0.5	3.8	22.88	5.94	36.48	30.54
SMR II	09-Feb-94		4041A15958	7.5	625	24.9	0.6	0.6	150.00	16.00	36.10	20.10
MW 6	09-Feb-94		4041A12718	5.9	210	23.6	0.9	153	20.72	6.29	39.32	33.03
SA 8	09-Feb-94		4041A15957	7.9	435	24.2	0.7	0.5	153.35	16.10	34.48	18.38
LR II 4	09-Feb-94		4041A15963	6.6	390	23.0	0.5	2.2	22.50	7.50	33.90	26.40
LR II 5	09-Feb-94		4041A15964	6.5	285	23.4	0.9	27.4	22.78	6.25	36.78	30.53
MW 2	14-Feb-94		4041A12709	5.3	300	20.8	1.2	37.2	13.97	6.50	39.77	33.27
MW 3	14-Feb-94		4041A12710	6.2	600	20.3	1.9	117	13.37	10.29	40.07	29.78
MW 5	14-Feb-94		4041A12717	6.8	270	22.7	2.5	>200	N/A	8.79	N/A	N/A
GC 5	14-Feb-94		4041A15968	6.5	525	23.2	1.4	>200	22.02	7.96	36.52	28.56
GC 6	14-Feb-94		4041A15969	6.3	245	21.9	1.3	45.3	22.40	8.25	39.10	30.85
CW 4	16-Feb-94		4041A12730	6.8	1275	20.5	2.4	62.7	17.94	5.83	37.54	31.71
MW 1	16-Feb-94		4041A12708	5.5	195	21.6	2.3	161	14.53	10.87	38.93	28.06

NOTES : \*\* Validated against field calculated value  
\* Technical Error

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)  
 PROJECT: LENA ROAD LANDFILL  
 GMS #: 4041C02025

DATES COLLECTED: February 7, 8, 9, 14, 16, 1994  
 COLLECTED BY: D. Elliott

LABORATORY METALS ANALYSES

=====

LOCATION	DATE	GMS ID No.	Chromium (mg/l)	Iron (mg/l)	Cadmium (mg/l)	Arsenic (mg/l)	Lead (mg/l)	Sodium (mg/l)
GC 1	07-Feb-94	4041A12719	BDL	16.9	BDL	BDL	BDL	54.3
GC 2	07-Feb-94	4041A15965	BDL	25.6	BDL	BDL	BDL	25.6
GC 3	07-Feb-94	4041A15966	BDL	5.46	BDL	BDL	BDL	21.5
GC 4	07-Feb-94	4041A15967	BDL	12.9	BDL	BDL	BDL	22.0
SA 2	07-Feb-94	4041A14817						
SA 3	07-Feb-94	4041A15952	BDL	0.142	BDL	BDL	BDL	38.4
SA 4	07-Feb-94	4041A15953	BDL	BDL	BDL	BDL	BDL	67.0
SA 2	08-Feb-94	4041A14817	BDL	BDL	BDL	BDL	BDL	29.8
SA 5	08-Feb-94	4041A15954	BDL	BDL	BDL	BDL	BDL	61.8
SA 6	08-Feb-94	4041A15955	BDL	BDL	BDL	BDL	BDL	18.2
SA 7	08-Feb-94	4041A15956	BDL	BDL	BDL	BDL	BDL	48.2
LRII 1	08-Feb-94	4041A15960	BDL	20.5	BDL	BDL	BDL	23.9
LRII 2	08-Feb-94	4041A15961	BDL	2.79	BDL	BDL	BDL	5.56
LRII 3	08-Feb-94	4041A15962	BDL	2.55	BDL	BDL	BDL	17.3
SMR I	09-Feb-94	4041A15959	BDL	7.45	BDL	BDL	BDL	21.3
SMR II	09-Feb-94	4041A15958	BDL	BDL	BDL	BDL	BDL	64.3
MW 6	09-Feb-94	4041A12718	BDL	8.85	BDL	BDL	BDL	17.7
SA 8	09-Feb-94	4041A15957	BDL	BDL	BDL	BDL	BDL	45.3
LRII 4	09-Feb-94	4041A15963	BDL	2.28	BDL	BDL	BDL	11.1
LRII 5	09-Feb-94	4041A15964	BDL	3.34	BDL	BDL	BDL	9.66
MW 2	14-Feb-94	4041A12709	BDL	4.3	BDL	BDL	BDL	31.9
MW 3	14-Feb-94	4041A12710	BDL	16.1	BDL	BDL	BDL	63.3
MW 5	14-Feb-94	4041A12717	0.079	2.47	BDL	BDL	BDL	20.8
GC 5	14-Feb-94	4041A15968	BDL	10.1	BDL	BDL	BDL	15.8
GC 6	14-Feb-94	4041A15969	BDL	4.0	BDL	BDL	BDL	8.85
CW 4	16-Feb-94	4041A12730	BDL	9.03	BDL	BDL	BDL	13.0
MW 1	16-Feb-94	4041A12708	BDL	3.67	BDL	BDL	BDL	55.6
		Detection Limits (mg/L)	0.040	0.100	0.040	0.050	0.050	0.300

\* Resampled February 8, 1994 \*