



MANATEE COUNTY GOVERNMENT

Public Works Department

D.E.R.

July 12, 1993

JUL 16 1993

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

SOUTHWEST DISTRICT
TAMPA

RE: Lena Road Landfill: Permit No. S041-211176
Second Quarter Monitoring Report - 1993

Dear Ms Amram:

Enclosed for your review is the second quarter Groundwater Monitoring Report for 1993 pursuant to the above referenced permit number. Daily rainfall, pH, and landfill tonnage records are also enclosed, however the field parameters of dissolved oxygen, turbidity, temperature, colors and sheens will be performed as soon as the equipment is procured. EPA methods 601 and 602 will be performed next quarter and continually there after.

There were no stormwater discharges during this period.

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
Al Korgi, 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.

JUL 16 1993

GMS # _____

SOUTHWEST DISTRICT
DATE July 14, 1993
TAMPA

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 4/1/93 to 6/30/93
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 fine and imprisonment.

[Signature]
Owner or Authorized Representative's Signature

7-15-93

Date

LENA LANDFILL
PIEZOMETER WATER TABLES
MEASURED MAY 6, 1993

PIEZOMETER NUMBER	WATER TABLE; FT. (FROM TOP PVC PIPE)	N.G.V.D. FT.
STAGE 3		
PZ 17	11.83	28.99
PZ 16	6.56	28.07
PZ 15	5.85	27.35
PZ 14	7.16	26.31
PZ 13	7.77	27.32
PZ 12	9.58	28.81
STAGE 1		
PZ 7	14.54	30.15
PZ 6	12.88	31.45
PZ 5	13.35	30.36
PZ 4	14.83	30.21
PZ 3	11.42	33.51
PZ 2	12.16	30.37
PZ 1	N/A	N/A
STAGE 2		
PZ 11	9.42	28.52
PZ 10	8.03	29.02
PZ 9	7.79	28.77
PZ 8	8.67	28.96

N/A = PZ 1 MISSING
(PIEZOMETER DESTROYED)

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: April 27, 28, 29 May 4, 5, 1993

COLLECTED BY: D. Elliott

RECEIVED
MAY 8 - 1993

PUBLIC WORKS
RECYCLING

FIELD PARAMETERS

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LOCATION	DATE	ID No.	pH (S.U.)	COND. (umho/cm)	TEMP. (deg C)	TOTAL DEPTH (ft)	SAMPLE DEPTH (ft)	ELEVATION (ft)	NVGD ** (ft)
GC 1	27-Apr-93	20525	6.5	1160	22.5	23.70	4.71	31.36	26.65
GC 4	27-Apr-93	20525	6.5	50	23.0	22.18	6.04	33.98	27.94
GC 5	27-Apr-93	20525	5.9	260	24.0	22.02	7.71	36.52	28.81
GC 6	27-Apr-93	20525	5.4	230	23.0	22.40	6.73	39.10	32.37
SA 4	27-Apr-93	20525	7.5	970	24.0	143.78	12.60	31.28	18.68
MW 1	28-Apr-93	20526	5.2	160	22.0	14.53	8.88	38.93	30.05
MW 2	28-Apr-93	20526	5.1	290	21.0	13.97	4.67	39.77	35.10
MW 3	28-Apr-93	20526	5.7	560	20.0	13.37	7.79	40.07	32.28
MW 5	28-Apr-93	20526	6.3	400	22.0	21.42	8.25	N/A	N/A
CW 4	28-Apr-93	20526	6.7	1220	21.0	17.94	3.67	37.54	33.87
CW 5	28-Apr-93	20526	6.1	350	22.0	18.40	9.60	42.00	32.40
SA 2	29-Apr-93	20527	7.2	670	24.0	154.00	14.90	37.97	23.07
SA 3	29-Apr-93	20527	7.3	730	23.0	163.03	16.20	35.12	18.92
GC 2	29-Apr-93	20527	6.3	570	22.0	18.08	5.50	38.23	32.73
GC 3	29-Apr-93	20527	6.6	530	21.0	22.58	4.92	35.08	30.16
MW 6	29-Apr-93	20527	5.6	130	22.5	20.72	6.16	39.32	33.16
LRII 5	29-Apr-93	20527	6.3	270	22.0	22.78	5.58	36.78	31.20
SA 5	04-May-93	20528	7.5	710	24.0	153.02	16.50	37.92	21.42
SA 6	04-May-93	20528	7.5	870	24.0	153.04	15.95	36.04	20.09
SA 7	04-May-93	20528	8.0	520	24.0	152.97	15.60	33.27	17.67
LRII 1	04-May-93	20528	6.5	520	22.0	21.12	5.60	38.02	32.42
LRII 2	04-May-93	20528	6.5	150	22.0	22.83	5.67	36.53	30.86
LRII 3	04-May-93	20528	6.0	100	23.0	22.61	6.58	33.51	26.93
SMR 1	05-May-93	20529	5.6	180	21.0	22.80	6.54	36.48	29.94
SMR 2	05-May-93	20529	7.6	740	23.0	150.00	15.90	36.10	20.20
SA 8	05-May-93	20529	7.9	530	23.0	153.38	16.30	34.48	18.18
LRII 4	05-May-93	20529	6.3	450	22.5	22.50	6.42	33.90	27.48

NOTES : ** Validated against field calculated value

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: April 27, 28, 29 May 4, 5, 1993

COLLECTED BY: D. Elliott

LABORATORY PARAMETERS **

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LOCATION	DATE	ID No.	pH	COND.	TURB.	NITRITE as N	NITRATE as N	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARBONATE ALKALINITY
			(S.U.)	(umho/cm)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(C.U.)	(mg/l)	(mg/l)	(mgCaCO3/l)
GC 1	27-Apr-93	20525	6.6	1020	120	0.03	<0.01	1.0	134	671	400	2.86	21.7	339
GC 4	27-Apr-93	20525	6.8	492	90	0.03	<0.01	1.0	24.2	283	400	36.3	7.4	160
GC 5	27-Apr-93	20525	6.1	272	8.4	0.01	<0.01	1.4	9.55	177	200	5.38	23.8	106
GC 6	27-Apr-93	20525	5.7	224	3.20	0.01	<0.01	2.5	19.1	152	50	55.1	10.1	7.5
SA 4	27-Apr-93	20525	7.6	655	0.45	0.01	<0.01	1.2	59.1	446	30	63.9	9.6	199
MW 1	28-Apr-93	20526	5.4	177	6.2	0.01	<0.01	2.1	29.1	126	80	3.77	15.6	29.8
MW 2	28-Apr-93	20526	5.3	289	8.4	0.01	<0.01	2.1	35.2	203	80	63.7	11.1	13.6
MW 3	28-Apr-93	20526	5.8	596	6.1	0.01	<0.01	1.2	106	391	200	80.6	13.1	26.0
MW 5	28-Apr-93	20526	6.5	383	50	0.01	<0.01	7.5	30.2	274	400	20.0	16.2	274
CW 4	28-Apr-93	20526	6.9	1260	9.4	0.01	<0.01	2.7	159	1040	400	165	17.6	248
CW 5	28-Apr-93	20526	6.0	359	250	0.04	0.03	1.8	45.7	308	400	93.6	7.6	35.8
SA 2	29-Apr-93	20527	7.3	596	18	0.01	<0.01	1.4	24.8	394	30	33.8	10.4	257
SA 3	29-Apr-93	20527	7.3	574	1.4	0.01	0.03	0.9	22.8	377	30	22.6	10.1	183
GC 2	29-Apr-93	20527	6.3	486	130	0.02	0.06	1.8	44.4	326	300	62.4	15.5	107
GC 3	29-Apr-93	20527	6.6	471	50	0.01	<0.01	0.7	28.3	294	120	31.5	7.0	184
MW 6	29-Apr-93	20527	5.8	135	40	0.01	<0.01	1.2	7.02	142	200	18.4	15.6	17.2
LRII 5	29-Apr-93	20527	6.4	240	5.5	0.01	<0.01	1.2	8.12	160	40	4.50	7.1	111
SA 5	04-May-93	20528	7.3	723	1.8	<0.01	<0.01	1.3	64.3	536	20	29.8	41.7	226
SA 6	04-May-93	20528	7.3	835	1.4	<0.01	<0.01	0.9	49.2	767	20	178	21.0	181
SA 7	04-May-93	20528	7.6	645	0.30	<0.01	<0.01	4.1	49.0	338	20	15.5	4.2	164
LRII 1	04-May-93	20528	6.2	543	270	<0.01	<0.01	2.1	24.4	438	800	92.4	15.6	87.6
LRII 2	04-May-93	20528	5.8	156	30	<0.01	<0.01	1.7	8.74	105	120	9.38	3.2	43.4
LRII 3	04-May-93	20528	4.8	110	0.50	<0.01	<0.01	1.4	10.6	83.0	10	14.6	2.7	7.2
SMR 1	05-May-93	20529	5.5	174	12	0.02	<0.01	1.4	12.7	149	150	23.6	20.7	23.6
SMR 2	05-May-93	20529	7.3	682	0.2	0.01	<0.01	0.8	91.4	434	10	3.54	5.4	190
SA 8	05-May-93	20529	7.6	504	1.6	0.01	<0.01	1.4	49.3	312	10	6.71	4.1	164
LRII 4	05-May-93	20529	6.3	402	16	0.01	<0.01	1.0	14.2	259	60	12.8	16.1	174

** Unless otherwise specified, all results for fecal coliform were <1/100mL

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: April 27, 28, 29 May 4, 5, 1993
COLLECTED BY: D. Elliott

LABORATORY METALS ANALYSES

LOCATION	DATE	ID No.	Chromium (mg/l)	Iron as N (mg/l)	Copper as N (mg/l)	Manganese (mg/l)	Mercury*	Lead (mg/l)	Zinc (mg/l)	Sodium (mg/l)
GC 1	27-Apr-93	20525	BDL	18.4	BDL	BDL	BDL	BDL	BDL	51.9
GC 4	27-Apr-93	20525	BDL	14.5	BDL	BDL	BDL	BDL	BDL	21.7
GC 5	27-Apr-93	20525	BDL	2.32	BDL	BDL	BDL	BDL	BDL	14.0
GC 6	27-Apr-93	20525	BDL	5.19	BDL	BDL	BDL	BDL	BDL	6.59
SA 4	27-Apr-93	20525	BDL	0.151	BDL	BDL	BDL	BDL	BDL	63.0
MW 1	28-Apr-93	20526	BDL	4.93	BDL	BDL	BDL	BDL	BDL	12.5
MW 2	28-Apr-93	20526	BDL	2.98	BDL	BDL	BDL	BDL	BDL	27.4
MW 3	28-Apr-93	20526	BDL	9.30	BDL	BDL	BDL	BDL	BDL	60.7
MW 5	28-Apr-93	20526	BDL	3.03	BDL	BDL	BDL	BDL	BDL	29.2
CW 4	28-Apr-93	20526	BDL	4.30	BDL	BDL	BDL	BDL	BDL	48.8
CW 5	28-Apr-93	20526	BDL	3.44	BDL	BDL	BDL	BDL	BDL	18.1
SA 2	29-Apr-93	20527	BDL	0.253	BDL	BDL	BDL	BDL	BDL	29.8
SA 3	29-Apr-93	20527	BDL	0.10	BDL	BDL	BDL	BDL	BDL	27.9
GC 2	29-Apr-93	20527	0.042	21.5	BDL	BDL	BDL	BDL	BDL	23.2
GC 3	29-Apr-93	20527	BDL	6.69	BDL	BDL	BDL	BDL	BDL	21.2
MW 6	29-Apr-93	20527	BDL	4.75	BDL	BDL	BDL	BDL	BDL	6.36
LRII 5	29-Apr-93	20527	BDL	2.50	BDL	BDL	BDL	BDL	BDL	8.19
SA 5	04-May-93	20528	BDL	BDL	BDL	BDL	BDL	BDL	BDL	52.6
SA 6	04-May-93	20528	BDL	BDL	BDL	BDL	BDL	BDL	BDL	44.5
SA 7	04-May-93	20528	BDL	BDL	BDL	BDL	BDL	BDL	BDL	38.0
LRII 1	04-May-93	20528	BDL	24.5	BDL	0.060	BDL	BDL	BDL	21.7
LRII 2	04-May-93	20528	BDL	4.60	BDL	BDL	BDL	BDL	BDL	4.74
LRII 3	04-May-93	20528	BDL	1.92	BDL	BDL	BDL	BDL	BDL	10.1
SMR 1	05-May-93	20529	BDL	6.93	BDL	BDL	BDL	BDL	BDL	14.3
SMR 2	05-May-93	20529	BDL	BDL	BDL	BDL	BDL	BDL	BDL	56.8
SA 8	05-May-93	20529	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40.2
LRII 4	05-May-93	20529	BDL	4.22	BDL	BDL	BDL	BDL	BDL	10.2
DETECTION LIMITS (mg/L)			0.040	0.100	0.020	0.050	0.0001	0.050	0.050	0.050

NOTES * Mercury analyses performed at P.E.LaMoreaux & Associates (HRS E84098)

MANATEE COUNTY PUBLIC

CENTRAL LABORATORY (HRS No. E54)

DATES COLLECTED: April 27, 28, 29 May 4, 5, 1993

COLLECTED BY: D. Elliott

ANALYTICAL RESULTS FROM CONTRACT LABORATORY *

LOCATION	DATE	ID No.	ODOR (T.O.N.)	SURFACTANTS (MBAS) (mg/L)
GC 1	27-Apr-93	20525	4	<0.005
GC 4	27-Apr-93	20525	1	<0.005
GC 5	27-Apr-93	20525	4	<0.005
GC 6	27-Apr-93	20525	4	<0.005
SA 4	27-Apr-93	20525	8	<0.005
MW 1	28-Apr-93	20526	16	<0.005
MW 2	28-Apr-93	20526	16	<0.005
MW 3	28-Apr-93	20526	1	<0.005
MW 5	28-Apr-93	20526	2	0.006
CW 4	28-Apr-93	20526	1	<0.005
CW 5	28-Apr-93	20526	1	<0.005
SA 2	29-Apr-93	20527	16	<0.005
SA 3	29-Apr-93	20527	4	<0.005
GC 2	29-Apr-93	20527	2	<0.005
GC 3	29-Apr-93	20527	2	<0.005
MW 6	29-Apr-93	20527	2	<0.005
LRII 5	29-Apr-93	20527	1	<0.005
SA 5	04-May-93	20528	4	<0.005
SA 6	04-May-93	20528	8	<0.005
SA 7	04-May-93	20528	4	<0.005
LRII 1	04-May-93	20528	2	<0.005
LRII 2	04-May-93	20528	2	<0.005
LRII 3	04-May-93	20528	2	<0.005
SMR 1	05-May-93	20529	2	<0.005
SMR 2	05-May-93	20529	2	<0.005
SA 8	05-May-93	20529	4	<0.005
LRII 4	05-May-93	20529	1	<0.005

* Analyses performed at P.E.LaMoreaux & Associates (HRS. E84089)