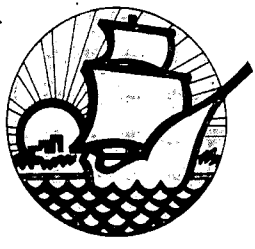


6w file



MANATEE COUNTY GOVERNMENT

Public Works Department

January 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.

JAN 18 1994

SOUTHWEST DISTRICT
TAMPA

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

Dear Ms Amram:

Enclosed for your review is the fourth ~~third~~ quarter Groundwater Monitoring Report for 1993 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 GRAMAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

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

GMS # _____

DATE January 11, 1994

DER PERMIT # S041-211176

Lena Road Landfill - Manatee County Public Works
Installation Name

Caller Service 25010 Bradenton Florida 34206 Manatee
Address City State Zip County

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

Method of Discharge N/A

Type of Industry Municipal Government

Report for Period October 1, 1993 to December 31, 1993
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

1.12.94

Date

PROJECT: LENA ROAD LANDFILL

LABORATORY PARAMETERS *

=====

LOCATION	DATE	ID No.	NITRATE as N (mg/l)	Ammonium as N (mg/l)	CHLORIDE (mg/l)	TDS (mg/l)	TOC (mg/l)	BICARBONATE ALKALINITY (mgCaCO3/l)
GC 1	26-Oct-93	20577	0.02	1.1	140	767	23.4	336
GC 2	26-Oct-93	20577	0.02	1.1	40.2	337	13.3	109
GC 3	26-Oct-93	20577	0.04	1.1	27.8	313	7.5	182
SA 2	26-Oct-93	20577	<0.01	1.4	28.3	346	15.4	235
SA 3 **	26-Oct-93	20577	0.01	1.3	28.0	338	13.6	259
SA 4	26-Oct-93	20577	<0.01	0.9	64.5	449	16.9	199
LRII 1	27-Oct-93	20578	0.01	1.4	25.6	311	19.5	98.8
LRII 2	27-Oct-93	20578	<0.01	0.6	8.55	94.0	6.3	34.0
LRII 3	27-Oct-93	20578	<0.01	0.6	11.8	79.0	3.2	5.4
SA 5	27-Oct-93	20578	<0.01	0.6	71.5	425	8.4	207
SA 6	27-Oct-93	20578	<0.01	0.6	50.0	627	7.3	175
SA 7	27-Oct-93	20578	<0.01	0.7	55.2	332	3.9	157
SMR 1	28-Oct-93	20579	<0.01	0.9	16.2	195	16.2	25
SMR 2	28-Oct-93	20579	<0.01	0.8	93.2	419	6.6	196
LRII 4	28-Oct-93	20579	<0.01	0.8	12.2	236	3.8	186
LRII 5	28-Oct-93	20579	<0.01	1.1	9.60	180	11.3	126
SA 8	28-Oct-93	20579	<0.01	0.8	25.2	189	22.0	156
GC 4	28-Oct-93	20579	<0.01	0.7	53.9	320	11.2	147
MW 1	01-Nov-93	20580	<0.01	0.7	45.2	160	10.1	18.6
MW 2	01-Nov-93	20580	<0.01	0.6	36.1	217	63.1	8.4
MW 3	01-Nov-93	20580	0.01	0.9	115	435	10.2	28.0
MW 6	01-Nov-93	20580	<0.01	1.2	189	148	14.5	21.4
CW 4	01-Nov-93	20580	<0.01	1.3	193	1090	15.6	256
CW 5	01-Nov-93	20580	**		WELL	DESTROYED**		
MW 5	02-Nov-93	20581	<0.01	1.2	25.7	240	18.1	143
GC 5	02-Nov-93	20581	<0.01	1.1	8.62	130	22.5	66.2
GC 6	02-Nov-93	20581	<0.01	4.6	23.1	184	13.7	< 1.0

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

** Well SA 3 was found to have a separated casing. Fecal Coliforms are reported as TNTC, even after resampling several times.

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: October 26, 27, 28, November 1, 2, 1993

COLLECTED BY: D. Elliott

LABORATORY METALS ANALYSES

=====

LOCATION	DATE	ID No.	Chromium (mg/l)	Iron (mg/l)	Cadmium (mg/l)	Arsenic (mg/l)	Lead (mg/l)	Sodium (mg/l)	
GC 1	26-Oct-93	20577	BDL	20.2	BDL	BDL	BDL	120	
GC 2	26-Oct-93	20577	BDL	30.6	BDL	BDL	BDL	25.7	
GC 3	26-Oct-93	20577	BDL	6.71	BDL	BDL	BDL	21.8	
SA 2	26-Oct-93	20577	BDL	BDL	BDL	BDL	BDL	29.9	
SA 3 **	26-Oct-93	20577	BDL	BDL	BDL	BDL	BDL	39.0	
SA 4	26-Oct-93	20577	BDL	BDL	BDL	BDL	BDL	65.9	
LRII 1	27-Oct-93	20578	BDL	20.3	BDL	BDL	BDL	23.5	
LRII 2	27-Oct-93	20578	BDL	4.52	BDL	BDL	BDL	5.03	
LRII 3	27-Oct-93	20578	BDL	1.65	BDL	BDL	BDL	13.2	
SA 5	27-Oct-93	20578	BDL	BDL	BDL	BDL	BDL	54.8	
SA 6	27-Oct-93	20578	BDL	BDL	BDL	BDL	BDL	47.6	
SA 7	27-Oct-93	20578	BDL	BDL	BDL	BDL	BDL	16.6	
SMR 1	28-Oct-93	20579	BDL	7.4	BDL	BDL	BDL	18.2	
SMR 2	28-Oct-93	20579	BDL	BDL	BDL	BDL	BDL	5.93	
LRII 4	28-Oct-93	20579	BDL	3.39	BDL	BDL	BDL	12.2	
LRII 5	28-Oct-93	20579	BDL	2.9	BDL	BDL	BDL	8.41	
SA 8	28-Oct-93	20579	BDL	BDL	BDL	BDL	BDL	42.4	
GC 4	28-Oct-93	20579	BDL	12.3	BDL	BDL	BDL	19.5	
MW 1	01-Nov-93	20580	BDL	4.07	BDL	BDL	BDL	18.3	
MW 2	01-Nov-93	20580	BDL	2.76	BDL	BDL	BDL	22.7	
MW 3	01-Nov-93	20580	BDL	13.6	BDL	BDL	BDL	66.2	
MW 6	01-Nov-93	20580	BDL	6.09	BDL	BDL	BDL	16.2	
CW 4	01-Nov-93	20580	BDL	4.87	BDL	BDL	BDL	52.2	
CW 5	01-Nov-93	20580	** WELL DESTROYED **						
MW 5	02-Nov-93	20581	BDL	3.55	BDL	BDL	BDL	26.5	
GC 5	02-Nov-93	20581	BDL	1.70	BDL	BDL	BDL	10.2	
GC 6	02-Nov-93	20581	BDL	3.66	BDL	BDL	BDL	8.30	
Detection Limits (mg/L)			0.040	0.100	0.040	0.050	0.050	0.300	

** Well had separated casing

0.3

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: October 26, 27, 28, November 1, 2, 1993

COLLECTED BY: D. Elliott

FIELD PARAMETERS

=====

LOCATION	DATE	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	26-Oct-93	20577	6.5	875	22.9	0.4	0.24	23.76	4.67	31.36	26.69
GC 2	26-Oct-93	20577	6.3	575	24.3	0.3	21.3	18.03	5.16	38.23	33.07
GC 3	26-Oct-93	20577	6.5	480	24.8	0.2	1.6	22.58	4.31	35.08	30.77
SA 2	26-Oct-93	20577	7.4	550	24.1	0.6	1.5	154.93	14.70	37.97	23.27
SA 3	26-Oct-93	20577	7.3	675	24.3	0.8	3.1	163.02	15.60	35.12	19.52
SA 4	26-Oct-93	20577	7.5	625	23.3	0.8	0.18	143.78	12.20	31.28	19.08
LRII 1	27-Oct-93	20578	6.2	450	26.6	0.2	5.1	21.12	4.52	38.02	33.50
LRII 2	27-Oct-93	20578	5.9	120	26.2	0.2	0.3	522.83	5.00	36.53	31.53
LRII 3	27-Oct-93	20578	4.9	120	26.4	0.2	0.2	22.61	6.58	33.51	26.93
SA 5	27-Oct-93	20578	7.5	600	24.7	0.6	0.2	163.02	16.40	37.92	21.52
SA 6	27-Oct-93	20578	7.4	800	24.5	0.2	0.3	163.04	15.90	36.04	20.14
SA 7	27-Oct-93	20578	7.6	420	25.1	0.8	0.5	152.97	14.10	33.27	19.17
SMR 1	28-Oct-93	20579	7.5	205	24.7	0.0	2.7	22.88	5.23	36.48	31.25
SMR 2	28-Oct-93	20579	5.5	610	24.5	0.6	0.4	150.00	15.90	36.10	20.20
LRII 4	28-Oct-93	20579	6.3	395	26.4	0.2	0.3	22.50	6.58	33.90	27.32
LRII 5	28-Oct-93	20579	6.3	265	26.7	0.1	0.6	22.78	5.67	36.78	31.11
SA 8	28-Oct-93	20579	7.8	470	24.5	0.6	0.3	153.38	15.30	34.48	19.18
GC 4	28-Oct-93	20579	6.6	460	26.1	0.1	0.3	22.18	5.08	33.98	28.90
MW 1	01-Nov-93	20580	4.9	235	24.9	0.1	5.2	14.53	9.94	38.93	28.99
MW 2	01-Nov-93	20580	4.8	268	26.2	0.0	0.7	13.97	4.92	39.77	34.85
MW 3	01-Nov-93	20580	5.8	1175	22.8	0.0	8.8	13.37	9.50	40.07	30.57
MW 6	01-Nov-93	20580	5.5	150	24.8	0.0	13.6	20.72	5.54	39.32	33.78
CW 4	01-Nov-93	20580	6.6	1250	23.6	0.0	1.1	17.94	4.16	37.54	33.38
CW 5	01-Nov-93	20580	***		WELL DESTROYED		***				
MW 5	02-Nov-93	20581	6.3	380	25.3	0.1	17.3	21.42	8.12	N/A	N/A
GC 5	02-Nov-93	20581	5.8	170	28.7	0.5	1.7	22.02	7.08	36.52	29.44
GC 6	02-Nov-93	20581	5.6	250	27.2	1.4	1.9	22.40	31.25	39.10	7.85

NOTES : ** Validated against field calculated value

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: October 26, 27, 28, November 1, 2, 1993

COLLECTED BY: D. Elliott

LOCATION	DATE	ID No.	Mercury *	EPA 601 *	EPA 602 *
			(ug/L) **	(note 1,2)	(note 1,2)
GC 1	26-Oct-93	20577	BDL	BDL	BDL
GC 2	26-Oct-93	20577	BDL	BDL	BDL
GC 3	26-Oct-93	20577	BDL	BDL	BDL
SA 2	26-Oct-93	20577	BDL	BDL	BDL
SA 3	26-Oct-93	20577	BDL	BDL	BDL
SA 4	26-Oct-93	20577	BDL	BDL	BDL
LRII 1	27-Oct-93	20578	BDL	BDL	BDL
LRII 2	27-Oct-93	20578	BDL	BDL	BDL
LRII 3	27-Oct-93	20578	BDL	BDL	BDL
SA 5	27-Oct-93	20578	BDL	BDL	BDL
SA 6	27-Oct-93	20578	BDL	BDL	BDL
SA 7	27-Oct-93	20578	BDL	BDL	BDL
SMR 1	28-Oct-93	20579	BDL	BDL	BDL
SMR 2	28-Oct-93	20579	BDL	BDL	BDL
LRII 4	28-Oct-93	20579	BDL	BDL	BDL
LRII 5	28-Oct-93	20579	BDL	BDL	BDL
SA 8	28-Oct-93	20579	BDL	BDL	BDL
GC 4	28-Oct-93	20579	BDL	BDL	BDL
MW 1	01-Nov-93	20580	BDL	BDL	BDL
MW 2	01-Nov-93	20580	BDL	BDL	BDL
MW 3	01-Nov-93	20580	BDL	BDL	BDL
MW 6	01-Nov-93	20580	BDL	BDL	BDL
CW 4	01-Nov-93	20580	BDL	BDL	BDL
CW 5	01-Nov-93	20580	** WELL DESTROYED **		
MW 5	02-Nov-93	20581	BDL	BDL	BDL
GC 5	02-Nov-93	20581	BDL	BDL	BDL
GC 6	02-Nov-93	20581	BDL	BDL	BDL

* 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 : 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