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COPY
BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS

April 9, 1998

WACSIO#39859

Ms. Allison Amram, P.G.
Environmental Specialist III
Dept. Of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619-8318

REPLY TO:
Solid Waste Management

**RE: QUARTERLY LEACHATE MONITORING REPORT FOR CITRUS COUNTY
CENTRAL LANDFILL 60 AND 80 ACRE SITES - PERMIT NO. S009-274381**

Dear Ms. Amram:

Enclosed please find the following leachate monitoring results for the Citrus County Central Landfill site, together with the Operator's monthly reports, covering the period 1-98 through 3-98:

- 1) Semi-annual influent analytical results for field, laboratory parameters plus Appendix I. There are no exceedences of compliance parameters, 40 CFR 261.24 (TCLP parameters).
- 2) Weekly effluent analytical results. There are no exceedences of permit limits during this period.
- 3) Quarterly effluent analytical results including the re-sampling result for 1,4-Dioxane, which did not exceed the detection limit of 100 ug/l, using approved method 8260 (SW846). As previously discussed, we will not continue compliance monitoring for this parameter.

Should further information or clarification be necessary, please do not hesitate to contact me.

Sincerely,

Susan J. Metcalfe

Susan J. Metcalfe, P.G.
Director, Division of Solid Waste Management

SJM:CJW:cjw

CC: Chongman Lee, - Solid Waste - Tallahassee w/analysis
Kenneth Saunders, Director, Dept. Public Works w/xls.sheet
Kim Ford, P.E., Depart of Environmental Protection w/xls.sheet
Citrus County Utilities Division/Plant Operator w/xls.sheets

(swmFshared:swm_ltc:amramlea.doc)

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

ADMINISTRATION OFFICE
Suite 212
352-527-5477 Phone
352-527-5479 Fax

ENGINEERING DIVISION:
Suite 241
352-527-5446 Phone
352-527-5476 Fax

- Land Section
Suite 205
352-527-5447 Phone
352-527-5459 Fax
- Permits & Compliance Sec.
Suite 204
352-527-5448 Phone
352-527-5319 Fax
- Project Management Sec.
Suite 241
352-527-5449 Phone
352-527-5482 Fax
- Survey Section
Suite 241
352-527-5446 Phone
352-527-5482 Fax

1300 S. LECANTO HIGHWAY
LECANTO, FLORIDA 34461

MAINTENANCE OPERATIONS:

- Facilities Maint. Section
PO Box 143
Lecanto, FL 34460
352-527-0333 Phone
352-527-0654 Fax
- Fleet Management Section
PO Box 215
Lecanto, FL 34460
352-746-6888 Phone
352-746-5011 Fax

AQUATIC SERVICES

PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-9189 Fax

ROAD MAINTENANCE

PO Box 167
Lecanto, FL 34460
352-746-4107 Phone
352-746-1203 Fax

UTILITIES DIVISION

PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-1676 Fax

SOLID WASTE MANAGEMENT

230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

CITRUS COUNTY CENTRAL LANDFILL
LEACHATE ANNUAL INFLUENT COMPLIANCE PARAMETERS

SAMPLING DATE			1/20/98
COMPLIANCE PARAMETERS	MCL		Results
S.C. 31. 40 CFR 261.24 TCLP	MG/L		converted MG/L
ARSENIC	5.0		0.029
BARIUM	100.0		0.072
BENZENE	0.5		0.001
CADMIUM	1.0	<	0.001
CARBON TETRACHLORIDE	0.5	<	0.001
CHLORDANE	0.03	<	0.00053
CHLOROBENZENE	100.0		0.0016
CHLOROFORM	6.0	<	0.001
CHROMIUM	5.0		0.010
O-CRESOL - 2-METHYLPHENOL	200.00	<	0.010
M-CRESOL	200.00		n/a appendix I
P-CRESOL	200.00		n/a appendix I
CRESOL (TOTAL)	200.00		n/a appendix I
2, 4-D	10.0		0.0019
1, 4-DICHLOROBENZENE	7.5		0.006
1, 2-DICHLOROETHANE	0.5	<	0.002
1, 1-DICHLOROETHYLENE - 1,1-DICHLOROETHENE	0.7	<	0.001
2, 4-DINITROTOLUENE	0.13	<	0.010
ENDRIN	0.02	<	0.0053
HEPTACHLOR	0.008	<	0.00005
HEXACHLOROBENZENE	0.13	<	0.010
HEXACHLOROBUTADIENE	0.5	<	0.010
HEXACHLOROETHANE	3.0	<	0.010
LEAD	5.0		0.0042
LINDANE	0.4	<	0.00005
MERCURY	0.2	<	0.005
METHOXYCHLOR	10.0	<	0.0002
METHYL ETHYL KETONE - 2-BUTANONE	200.0	<	0.001
NITROBENZENE	2.0	<	0.010
PENTRACHLOROPHENOL	100.0	<	0.010
PYRIDINE	5.0		n/a appendix I
SELENIUM	1.0	<	0.005
SILVER	5.0	<	0.001
TETRACHLOROETHYLENE - TETRACHLOROETHENE	0.7	<	0.010
TOXAPHENE	0.5	<	0.0011
TRICHLOROETHYLENE - TRICHLOROETHENE	0.5	<	0.010
2, 4, 5-TRICHLOROPHENOL	400.0	<	0.010
2, 4, 6-TRICHLOROPHENOL	2.0	<	0.010
2, 4, 5-TP (SILVEX)	1.0	<	0.0019
VINYL CHLORIDE	0.2	<	0.001
cjw			

CITRUS COUNTY CENTRAL LANDFILL

	A	B	C	D	E
1	SAMPLE DATE:	MCL			
2	NOTE: MCL OR GC* UG/L UNLESS	FOR			
3	MCG/L INDICATED	REFERENCE			1/20/98
4					
5	FIELD AND LABORATORY PARAMETERS:				
6	SPECIFIC CONDUCTIVITY umhos/cm				2290
7	PH	6.5-8.5			7.2
8	DISSOLVED OXYGEN				No Data
9	COLORS, SHEENS (BY OBSERVATION) Light yellow-No sheens noted				-
10	TOTAL AMMONIA-N mg/l				0.091
11	BICARBONATE mg/l CaCO3				1600
12	CHLORIDES mg/l	250			460
13	IRON	300			17000
14	MERCURY	2		<	0.50
15	NITRATE mg/l	10			1.1
16	SODIUM	160,000			400,000
17	TOTAL DISSOLVED SOLIDS mg/l	500			1900
18					
19	APPENDIX I:				
20	INORGANIC CONSTITUENTS:				
21	ANTIMONY	6		<	5
22	ARSENIC	50			29
23	BARIUM	2000			72
24	BERYLLIUM	4		<	1.0
25	CADMIUM	5		<	1.0
26	CHROMIUM	100			10
27	COBALT	*			5.9
28	COPPER	1000			12
29	LEAD	15			4.2
30	NICKEL	100			38
31	SELENIUM	50		<	5.0
32	SILVER	100		<	1.0
33	THALLIUM	2		<	2.0
34	VANADIUM	49			6.2
35	ZINC	5000		<	50
36					
37	ORGANIC CONSTITUENTS:				
38	ACETONE	700		<	10
39	ACRYLONITRILE	8*		<	100
40	BENZENE	1		<	1.0
41	BROMOCHLOROMETHANE	100		<	1.0
42	BROMODICHLOROMETHANE	0.6*		<	1.0
43	BROMOFORM (TRIBROMOMETHANE)	4*		<	2.0
44	CARBON DISULFIDE	700		<	1.0
45	CARBON TETRACHLORIDE	3		<	1.0
46	CHLOROBENZENE	10			1.6
47	CHLOROETHANE (ETHYL CHLORIDE)	140*		<	1.0
48	CHLOROFORM (TRICHLOROMETHANE)	6*		<	1.0

CITRUS COUNTY CENTRAL LANDFILL

	A	B	C	D	E
49	SAMPLE DATE:				
50	NOTE: MCL OR GC* UG/L UNLESS				
51	MCG/L INDICATED	MCL			1/20/98
52	APPENDIX I				
53	ORGANIC CONSTITUENTS CONTINUED:				
54					
55	DIBROMOCHLOROMETHANE (CHLORODIBROMOMETHANE)	7*		<	1
56	1,2-DIBROMO-3-CHLOROPROPANE: DBCP	700		<	0.018
57	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE) ; EDB	0.02		<	0.018
58	O-DICHLOROBENZENE (1,2-DICHLOROBENZENE)	600		<	2.0
59	P-DICHLOROBENZENE (1,4-DICHLOROBENZENE)	75			6.0
60	TRANS-1,4-DICHLORO-2-BUTENE	*		<	1.0
61	1,1-DICHLOROETHANE (ETHYLENE DICHLORIDE)	700*		<	2.0
62	1,2-DICHLOROETHYLENE (1,1-DICHLOROETHANE ; AND/			<	1.0
63	(VINYLIDENE CHLORIDE)				-
64	CIS-1,2-DICHLOROETHYLENE (CIS-1, 2-DICHLOROETHENE)	100		<	2.0
65	1,2-DICHLOROPROPANE (PROPYLENE DICHLORIDE)	5		<	1.0
66	CIS-1, 3-DICHLOROPROPENE	1		<	1.0
67	TRANS-1,3-DICHLOROPROPENE	1		<	1.0
68	ETHYLBENZENE	700		<	2.0
69	2-HEXANONE (METHYL BUTYL KETONE)	50		<	1.0
70	METHYL BROMIDE (BROMOMETHANE)	10*		<	1.0
71	METHYL CHLORIDE (CHLOROMETHANE)	5		<	1.0
72	METHYLENE BROMIDE (DIBROMOMETHANE)	*		<	2.0
73	METHYLENE CHLORIDE (DICHLOROMETHANE)	5		<	5.0
74	METHYL ETHYL KETONE (MEK; 2-BUTANONE)	4200*		<	1.0
75	METHYL IODIDE (Iodomethane)	*		<	2.0
76	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE)	350*		<	1.0
77	STYRENE	100		<	1.0
78	1,1,1,2-TETRACHLOROETHANE	1*		<	1.0
79	1,1,2,2-TETRACHLOROETHANE	0.2*		<	2.0
80	TETRACHLOROETHYLENE (TETRACHLOROETHENE AKA/	*		<	1.0
81	(PERCHLOROETHYLENE)	*			-
82	TOLUENE	1000			1.9
83	1,1,1-TRICHLOROETHANE (METHYLCHLOROFORM)	200		<	2.0
84	TRICHLOROETHYLENE (TRICHLOROETHENE)	3		<	1.0
85	TRICHLOROFLUOROMETHANE (CFC-11)	2100*		<	1.0
86	1,2,3-TRICHLOROPROPANE	42*		<	2.0
87	VINYL ACETATE	250		<	2.0
88	VINYL CHLORIDE	1		<	1.0
89	XYLENES	10000			16
90					
91					
92					
93					
94					
95	cjw				

/cjw

CITRUS COUNTY CENTRAL LANDFILL
LEACHATE MONITORING

	MCL	BY	SAMPLE	
NOTE: MCL OR GC* UG/L UNLESS MG/L INDICATED	FL GW GC	PERMIT	DATE:	
	DOC 1994	SO09-	1/21/98	
	FOR INFO	274381		
QUARTERLY PARAMETERS:				
CHLORIDE MG/L	250	ZOD	350	
SODIUM	160,000	ZOD	190,000	
TOTAL DISSOLVED SOLIDS MG/L	500	ZOD	1,000	
ARSENIC	50	N/A	5.0	
BARIUM	2,000	N/A	20	
CADMIUM	5	N/A	< 1.0	
CHROMIUM	100	N/A	< 2.0	
IRON	300	N/A	< 40	
MERCURY	2	N/A	< 0.5	
LEAD	15	N/A	< 3.0	
SELENIUM	50	N/A	< 5.0	
SILVER	100	N/A	< 1.0	
TOTAL TRIHALOMETHANES	100	N/A	72.7	
(BROMODICHLOROMETHANE 17)				
(DIBROMOCHLOROMETHANE 27)				
(TRIBROMOMETHANE-BROMOFORM 23)				
(TRICHLOROMETHANE-CHLOROFORM 5.7)				
BENZENE	1	N/A	< 1.0	
TOLUENE	1,000	N/A	< 1.0	
ETHYLBENZENE	700	N/A	< 1.0	
TOTAL XYLENES	10,000	N/A	< 2.0	
ETHYLENE DIBROMIDE (EDB) (1,2-DIBROMOETHANE)	0.02	N/A	0.66	
1,4-DIOXANE	5*	GC	< 100	Converted to ug/l
(resample parameter)				
cjw				

[illegible]

Domestic Wastewater Treatment Plant Monthly Operating Report

Month MAR Year 98

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Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief this information is true, complete, and accurate.

Signed: 

Date:

4/6/98

Name (Please Type) James Brunswick

Company Name Citrus County Utilities Division

Telephone No. (Please Type) (352) 746-5000

Month FEB Year 98

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief this information is true, complete, and accurate.

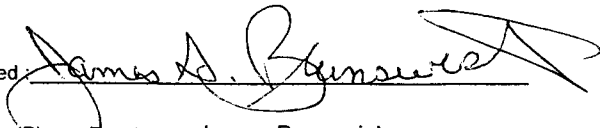
(352) 746-5000

Domestic Wastewater Treatment Plant Monthly Operating Report

Month JAN Year 98

Day of the Month	Flow (mgd)	Chlorine Residual after Contact	Chlorine Residual after Dechlor.	CBOD5 Influent (mg/L)	TSS Influent (mg/L)	CBOD5 Effluent (mg/L)	TSS Effluent (mg/L)	pH Effluent	TKN Effluent (mg/L)	NH3 - N Effluent (mg/L)	Nitrate Effluent (mg/L)	Total P Effluent (mg/L)	Fecal Coliform (#/100ml)	COD	TOTAL N						
1	27453	2.2						7.6													
2	14043	2.2						8.1													
3	28370	0.6						8.1													
4	NR																				
5	53725	0.5						8.2													
6	33318	0.5						7.6													
7	28954	0.5				2.4	<1.7	8.0	1.7	<0.0	2.8	1.1	<1.0	64	4.6						
8	27084	0.5						7.8													
9	28982	0.5						8.0													
10	29109	2.2						8.0													
11	NR																				
12	56527	0.9						8.0													
13	28741	0.6						7.9													
14	17557	0.8				6.4	<2.0	8.1	1.6	<0.0	2.6	1.6	<1.0	53	4.2						
15	24410	0.8						7.8													
16	27476	0.8						8.0													
17	19977	1.0						8.4													
18	NR	1.2						8.2													
19	32258	0.7						7.9													
20	29032	0.5						7.5													
21	18323	0.8				2.3	<2.0	8.1	1.9	<0.0	0.5	4.8	<1.0	63	2.4						
22	29409	0.8						7.9													
23	25913	0.6						7.7													
24	15593	0.5						8.0													
25	NR																				
26	29177	0.6						7.5													
27	5899	0.6						7.1													
28	14648	0.7				16.5	<2.0	7.0	2.3	<0.0	5.0	5.6	<1.0	45	7.3						
29	18522	0.5						8.2													
30	13516	0.6						7.9													
31	17050	0.7						8.2													

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief this information is true, complete, and accurate.

Signed: 
Name (Please Type) James Brunswick

Date: 2/16/98

Company Name Citrus County Utilities Division Telephone No. (Please Type) (352)-746-2694

**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

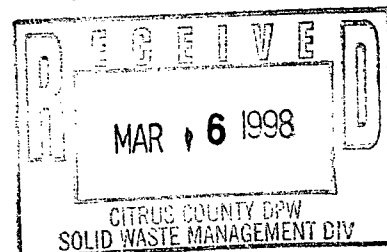
REVISED
3-4-98



5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230**

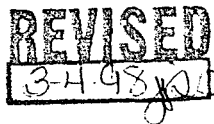
**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink over a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A large, stylized handwritten signature of N. Myron Gunsalus, Jr., written in black ink over a horizontal line.

MARCH 3, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

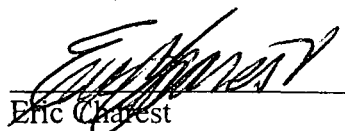
Specific Conductance and pH measurements were made in the field at the time of sampling. Due to a field sampling oversight, Dissolved Oxygen was not measured at the time of sampling for the Leachate Influent.

As a result of suspected matrix effects, the matrix spike and matrix spike duplicate analyses by EPA 8270 analysis for Fluorene produced results that fell outside of the established accuracy range. Precision was acceptable, confirming a consistent matrix effect. All other quality control criteria were met.

Method 8260:

Acetone was detected at levels slightly above the method detection limit in the method blank associated with the analysis of sample 8000481001. This analyte was not detected in the sample.

Due to suspected matrix effects, the matrix spike and matrix spike duplicate produced results for Vinyl Acetate that were outside of established accuracy and precision limits. Accuracy was established with the analysis of the laboratory control sample.


Eric Charest
Quality Assurance Manager

HARBOR BRANCH ENVIRONMENTAL LABORATORY

REVISED
3-4-98



PART III ANALYTICAL RESULTS

Facility GMS#: 4009C00086

Test Site ID#:

HBEL Sample ID: 8000481001

Sampling Date/Time: 01/20/98 7:40

Report Period: SA July 97 - Jan. 98

Well Name: Leachate Influent

Classification of Ground Water:

Ground Water Elevation (NGVD):

or (MSL):

Well Purged (Y/N):

Well Type: ☒ Background

☐ Intermediate

☐ Compliance

☒ Other LEACHATE
INFLUENT

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limits/Units
000081	Color & Sheens	-	-	-	02/23/98 9:00	Light Yellow -	-
000094	Specific Conductance	G	N	EPA 120.1	01/20/98 7:40	2290 umhos/cm	2.0 umhos/cm
004000	pH	G	N	EPA 150.1	01/20/98 7:40	7.2 SU	0.20 SU
070304	Total Dissolved Solids	G	N	EPA 160.1	01/23/98 16:30	1900 mg/L	40 mg/L
000940	Chloride	G	N	EPA 300.0	01/21/98 12:49	460 mg/L	3.0 mg/L
000620	Nitrate	G	N	EPA 300.0	01/21/98 12:49	1.1 mg/L	0.060 mg/L
000610	Ammonia	G	N	EPA 350.1	01/26/98 9:56	0.091 mg/L	0.050 mg/L
000440	Alkalinity, Bicarbonate	G	N	SM2320 B	01/26/98 10:30	1600 mg/L CaCO3	2.0 mg/L CaCO3
001097	Antimony	G	N	SW-846 6010	01/23/98 10:33	ND ug/L	5.0 ug/L
001002	Arsenic	G	N	SW-846 6010	01/23/98 10:33	29 ug/L	5.0 ug/L
001007	Barium	G	N	SW-846 6010	01/23/98 10:33	72 ug/L	10 ug/L
001012	Beryllium	G	N	SW-846 6010	01/23/98 10:33	ND ug/L	1.0 ug/L
001027	Cadmium	G	N	SW-846 6010	01/23/98 10:33	ND ug/L	1.0 ug/L
001034	Chromium	G	N	SW-846 6010	01/23/98 10:33	10 ug/L	2.0 ug/L
001037	Cobalt	G	N	SW-846 6010	01/23/98 10:33	5.9 ug/L	2.0 ug/L
001042	Copper	G	N	SW-846 6010	01/23/98 10:33	12 ug/L	2.0 ug/L
001045	Iron	G	N	SW-846 6010	01/28/98 19:27	17000 ug/L	40 ug/L
001051	Lead	G	N	SW-846 6010	01/23/98 10:33	4.2 ug/L	3.0 ug/L
001067	Nickel	G	N	SW-846 6010	01/23/98 10:33	38 ug/L	5.0 ug/L
001147	Selenium	G	N	SW-846 6010	01/23/98 10:33	ND ug/L	5.0 ug/L
001077	Silver	G	N	SW-846 6010	01/23/98 10:33	ND ug/L	1.0 ug/L
000929	Sodium	G	N	SW-846 6010	01/23/98 10:33	400000 ug/L	1000 ug/L
001087	Vanadium	G	N	SW-846 6010	01/23/98 10:33	6.2 ug/L	4.0 ug/L
001092	Zinc	G	N	SW-846 6010	01/23/98 10:33	ND ug/L	50 ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

REVISED
3-4-98 y30



PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086

Test Site ID# : _____

HBEL Sample ID: 8000481001

Sampling Date/Time: 01/20/98 7:40

Report Period: SA July 97 - Jan. 98

Well Name: Leachate Influent

Classification of Ground Water: _____

Ground Water Elevation (NGVD) : _____

or (MSL): _____

Well Purged (Y/N) : _____

Well Type: ☒ Background

☐ Intermediate

☐ Compliance

☒ Other LEACHATE INFLUENT

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection Limits/Units	
007900	Mercury	G	N	SW-846 7470	01/25/98 10:16	ND	ug/L	0.50	ug/L
001059	Thallium	G	N	SW-846 7841	01/22/98 7:46	ND	ug/L	2.0	ug/L
038437	1,2-Dibromo-3-chloropropane	G	N	SW-846 8011	01/23/98 10:29	ND	ug/L	0.018	ug/L
077651	1,2-Dibromoethane	G	N	SW-846 8011	01/23/98 10:29	ND	ug/L	0.018	ug/L
077562	1,1,1,2-Tetrachloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034506	1,1,1-Trichloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034516	1,1,2,2-Tetrachloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034511	1,1,2-Trichloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034496	1,1-Dichloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034501	1,1-Dichloroethene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
077443	1,2,3-Trichloropropane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034536	1,2-Dichlorobenzene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034531	1,2-Dichloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034541	1,2-Dichloropropane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
082388	1,4 Dioxane	G	N	SW-846 8260	01/27/98 3:22	ND	mg/L	0.100	mg/L
034571	1,4-Dichlorobenzene	G	N	SW-846 8260	01/23/98 17:00	6.0	ug/L	2.0	ug/L
081595	2-Butanone	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
077103	2-Hexanone	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
081596	4-Methyl-2-pentanone	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
081552	Acetone	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	10	ug/L
076997	Acetonitrile	G	N	SW-846 8260	02/02/98 23:44	ND	ug/L	100	ug/L
034030	Benzene	G	N	SW-846 8260	01/23/98 17:00	1.0	ug/L	1.0	ug/L
077297	Bromochloromethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
032101	Bromodichloromethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

REVISED

3-4-98



PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086

Test Site ID# :

HBEL Sample ID: 8000481001

Sampling Date/Time: 01/20/98 7:40

Report Period: SA July 97 - Jan. 98

Well Purged (Y/N) :

Well Name: Leachate Influent

Classification of Ground Water:

Ground Water Elevation (NGVD) :

or (MSL):

Well Type: ☐ Background☐ Intermediate☐ Compliance☒ Other LEACHATE
INFILTRANT

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection Limits/Units	
032104	Bromoform	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034413	Bromomethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
077041	Carbon disulfide	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
032102	Carbon tetrachloride	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034301	Chlorobenzene	G	N	SW-846 8260	01/23/98 17:00	1.6	ug/L	1.0	ug/L
034311	Chloroethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
032106	Chloroform	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034418	Chloromethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
077093	cis-1,2-Dichloroethene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034704	cis-1,3-Dichloropropene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
081521	Dibromochloromethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
081522	Dibromomethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034371	Ethylbenzene	G	N	SW-846 8260	01/23/98 17:00	2.0	ug/L	1.0	ug/L
077424	Methyl iodide	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	2.0	ug/L
034423	Methylene chloride	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	5.0	ug/L
077128	Styrene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034475	Tetrachloroethene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034010	Toluene	G	N	SW-846 8260	01/23/98 17:00	1.9	ug/L	1.0	ug/L
081551	Total Xylenes	G	N	SW-846 8260	01/23/98 17:00	16	ug/L	2.0	ug/L
034546	trans-1,2-Dichloroethene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034699	trans-1,3-Dichloropropene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
073547	trans-1,4-Dichloro-2-butene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
039180	Trichloroethene	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L
034488	Trichlorofluoromethane	G	N	SW-846 8260	01/23/98 17:00	ND	ug/L	1.0	ug/L

HARBOR BRANCH ENVIRONMENTAL LABORATORY

REVISED
3-4-98



PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086

Test Site ID# : _____

Well Name: Leachate Influent

Classification of Ground Water: _____

Ground Water Elevation (NGVD) : _____

or (MSL): _____

HBEL Sample ID: 8000481001

Sampling Date/Time: 01/20/98 7:40

Report Period: SA July 97 - Jan. 98

Well Purged (Y/N) : _____

Well Type: ☐ Background

☐ Intermediate

☐ Compliance

☒ Other LEACHATE INFLUENT

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units	Detection Limits/Units
077057	Vinyl acetate	G	N	SW-846 8260	01/23/98 17:00	ND ug/L	2.0 ug/L
039175	Vinyl chloride	G	N	SW-846 8260	01/23/98 17:00	ND ug/L	1.0 ug/L

5600 U. S. 1 North, Ft. Pierce, FL 34946, 407-465-2400 ext. 285

DATE NEEDED: Normal TAT
CLIENT PROJECT:
PROJECT NAME / #: Leachate Inf.
HBOI W/O & HPN: S00 0487

Yes No If Yes, _____

G = Grab
C = Composite
O = Other

S = Solid
SL = Sludge
DW = Drinking
GW = Ground
SW = Surface
WW = Waste

H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

ANALYSES REQUESTED	
EDS/DBCP	
SVOC's - Append. I	
PCB's - Append. II	
Herb. Append. II	
VOC's - Append. I	
Append. I	
Metals	
CN	
H ₂ S	
NH ₃	
CC, NO ₂	
IDS - General	

[illegible]

DATE:	1-20-98
TIME:	8:00
DATE:	1-20-98
TIME:	10:15

RECEIVED BY:
Margaret Bonometti

DATE:	1-20-98
TIME:	10:15

DATE:
TIME:

RECEIVED FOR LAB BY:
LAB NAME: *CD*

DATE:	1/21/98
TIME:	9:30

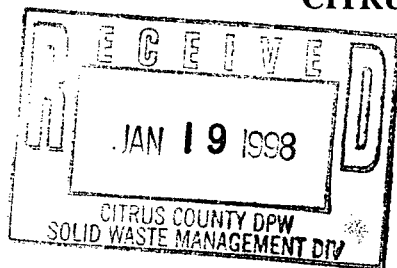
**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink, positioned above a horizontal line.

January 14, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY



CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 01/07/98 8000103001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH	150.1	01/09/98	8.0	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	01/09/98	<1.7	mg/L	1.7	U	None
000620	Nitrate-Nitrogen	300.0	01/08/98	2.8	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	01/08/98	0.059	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	01/05/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	01/09/98	1.7	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	01/14/98	4.6	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	01/09/98	1.1	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	01/09/98	64	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	01/08/98	2.4	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	01/30/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

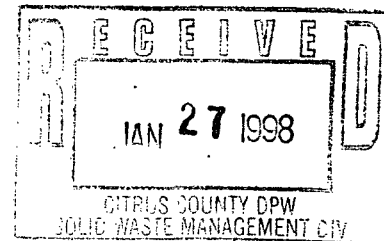
**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in black ink, positioned above a horizontal line.

January 22, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**CITRUS COUNTY CENTRAL LANDFILL**

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 01/14/98 8000349001

Test Site #: _____

 Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate
Test Site Name: Leachate

2478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH	150.1	01/16/98	8.1	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	01/16/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	01/16/98	2.6	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	01/16/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	01/16/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	01/16/98	1.6	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	01/16/98	4.2	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	01/16/98	1.6	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	01/16/98	53	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	01/15/98	6.4	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	01/14/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

PURCHASE ORDER #: _____

HBOI W/O & HPN: _____

Yes ☐ No ☒ If Yes, _____

COOLER NO.(s) _____

0 = Other

WW = Waste

U = None / Unpreserved

PH	COOD	Nitrate, Nitrite	COOD	PH	AN ₃
TKN					

[illegible]

TIME:	LAB NAME:	TIME:
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PAGE \ OF \

HARBOR BRANCH ENVIRONMENTAL LABORATORY

REVISED
3-4-98



PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086
Test Site ID# :

HBEL Sample ID: 8000556001

Sampling Date/Time: 01/21/98 8:40

Report Period: Qtrly Oct. 97 - Jan. 98

Well Purged (Y/N) :

Well Name: Leachate Effluent

Classification of Ground Water:

Ground Water Elevation (NGVD) :

or (MSL):

Well Type: ☐ Background

☐ Intermediate

☐ Compliance

☒ Other Leachate Effluent

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection Limits/Units	
* 082388	1,4 Dioxane	G	N	SW-846 8260	01/28/98 16:09	ND	mg/L	0.100	mg/L
034030	Benzene	G	N	SW-846 8260	01/28/98 16:09	ND	ug/L	1.0	ug/L
032101	Bromodichloromethane	G	N	SW-846 8260	01/28/98 16:09	17	ug/L	2.0	ug/L
032104	Bromoform	G	N	SW-846 8260	01/28/98 16:09	23	ug/L	2.0	ug/L
032106	Chloroform	G	N	SW-846 8260	01/28/98 16:09	5.7	ug/L	1.0	ug/L
081521	Dibromochloromethane	G	N	SW-846 8260	01/28/98 16:09	27	ug/L	2.0	ug/L
034371	Ethylbenzene	G	N	SW-846 8260	01/28/98 16:09	ND	ug/L	1.0	ug/L
034010	Toluene	G	N	SW-846 8260	01/28/98 16:09	ND	ug/L	1.0	ug/L
081551	Total Xylenes	G	N	SW-846 8260	01/28/98 16:09	ND	ug/L	2.0	ug/L

5600 U. S. 1 North, Ft. Pierce, FL 34946, 407-465-2400 ext. 285

DATE NEEDED: Normal 1A1
CLIENT PROJECT: _____
PROJECT NAME / #: Weekly Effluent
HBOI W/O & HPN: 2002.56

Yes (No) If Yes, _____

G = Grab
C = Composite
O = Other

S = Solid
SL = Sludge
DW = Drinking
GW = Ground
SW = Surface
WW = Waste

H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

Metals
601-602
EDB 8011
Fecal Coli
CE, PH, C60D
TSS, NO₃⁻
COD, NO₃⁻
NH₃, TOT-P,
TOT-N, TSS

[illegible]

DATE: 9/27/92
TIME: 5:30

PAGE / OF

**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

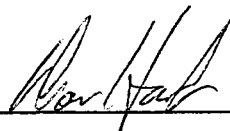


**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
WEEKLY LEACHATE SAMPLE
QUARTERLY LEACHATE SAMPLE
GMS # 4009C00086**

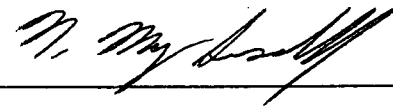
**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E54418 for FECAL COLIFORM TEST**

**PROJECT MANAGER:
DON HASH**



**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**



MARCH 3, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 01/21/98 8000556001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH	150.1	01/25/98	8.1	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	01/23/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	01/22/98	0.46	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	01/22/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	01/26/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	01/27/98	1.9	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	01/28/98	2.4	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	01/28/98	4.8	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	01/26/98	63	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	01/22/98	2.3	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	01/21/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

HARBOR BRANCH ENVIRONMENTAL LABORATORY

RECEIVED
549300



PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086

Test Site ID# :

HBEL Sample ID: 8000556001

Sampling Date/Time: 01/21/98 8:40

Report Period: Qtrly Oct. 97 - Jan. 98

Well Purged (Y/N) :

Well Name: Leachate Effluent

Classification of Ground Water:

Ground Water Elevation (NGVD) :

or (MSL):

Well Type:

☐ Background

☐ Intermediate

☐ Compliance

☒ Other Leachate Effluent

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection Limits/Units	
004000	pH	G	N	EPA 150.1	01/25/98 12:50	8.1	SU	0.20	SU
070304	Total Dissolved Solids	G	N	EPA 160.1	01/23/98 16:30	1000	mg/L	20	mg/L
900201	Total Suspended Solids	G	N	EPA 160.2	01/23/98 11:00	ND	mg/L	3.3	mg/L
000940	Chloride	G	N	EPA 300.0	01/24/98 13:16	350	mg/L	60	mg/L
000620	Nitrate	G	N	EPA 300.0	01/22/98 18:28	0.46	mg/L	0.060	mg/L
000620	Nitrite	G	N	EPA 300.0	01/22/98 18:28	ND	mg/L	0.044	mg/L
000610	Ammonia	G	N	EPA 350.1	01/26/98 9:56	ND	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	01/27/98 11:01	1.9	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	EPA 351.2	01/27/98 9:50	2.4	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	01/27/98 11:29	4.8	mg/L	0.50	mg/L
000340	COD	G	N	EPA 410.4	01/26/98 12:30	64	mg/L	5.0	mg/L
080082	CBOD	G	N	SM5210 B	01/22/98 14:20	2.3	mg/L	2.0	mg/L
031616	Fecal Coliform	G	N	SM9222 D	01/21/98 11:35	ND	CFU/100mL	1.0	CFU/100mL
001002	Arsenic	G	N	SW-846 6010	01/28/98 19:45	5.0	ug/L	5.0	ug/L
001007	Barium	G	N	SW-846 6010	01/28/98 19:45	20	ug/L	10	ug/L
001027	Cadmium	G	N	SW-846 6010	01/28/98 19:45	ND	ug/L	1.0	ug/L
001034	Chromium	G	N	SW-846 6010	01/28/98 19:45	ND	ug/L	2.0	ug/L
001045	Iron	G	N	SW-846 6010	01/28/98 19:45	ND	ug/L	40	ug/L
001051	Lead	G	N	SW-846 6010	01/28/98 19:45	ND	ug/L	3.0	ug/L
001147	Selenium	G	N	SW-846 6010	01/28/98 19:45	ND	ug/L	5.0	ug/L
001077	Silver	G	N	SW-846 6010	01/28/98 19:45	ND	ug/L	1.0	ug/L
000929	Sodium	G	N	SW-846 6010	01/28/98 19:45	190,000	ug/L	1,000	ug/L
007900	Mercury	G	N	SW-846 7470	01/30/98 16:17	ND	ug/L	0.50	ug/L
077651	1,2-Dibromoethane	G	N	SW-846 8011	01/23/98 20:34	0.66	ug/L	0.11	ug/L

**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

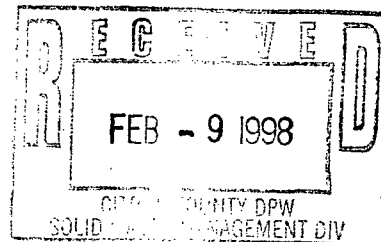
5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

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FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**

**PRESENTED TO:
CATHY WINTER**



**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E54418 for FECAL COLIFORM TEST**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

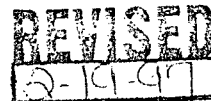
A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink, positioned above a horizontal line.

February 5, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**CITRUS COUNTY CENTRAL LANDFILL**

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 01/28/98 8000766001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH	150.1	01/29/98	7.0	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	01/30/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	01/29/98	5.01	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	01/29/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	02/03/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	01/27/98	2.3	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	02/04/98	7.3	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	01/30/98	5.6	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	01/30/98	45	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	01/29/98	16.5	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	01/29/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: Central landfill
 PROJECT NAME / #: leachate weekly
 HBOI W/O & HPN: 0766

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat W. How
 DATE: 1/28/98
 TIME: 10:10am
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

G = Grab
 C = Composite
 O = Other

MATRIX KEY
 S = Solid
 SL = Sludge
 DW = Drinking
 GW = Ground
 SW = Surface
 WW = Waste

PRESERVATION KEY
 H = Hydrochloric Acid
 N = Nitric Acid
 S = Sulfuric Acid
 SH = Sodium Hydroxide
 P = Phosphoric Acid
 ST = Sodium Thiosulfate
 U = None / Unpreserved

ANALYSES REQUESTED

FIELD ID	SAMPLING		SAMPLE TYPE	MATRIX	#	PRESERVATIVE → SAMPLE LOCATION ↓	ANALYSES REQUESTED								COMMENTS
	DATE	TIME					NO ₃ /NO ₂	CO ₂ , TP, NH ₃	TKN, TN						
	1/28	10:10	G		2		U	S							PH 7.2 / conductivity 1660
							✓	✓							001

RELINQUISHED BY**: <u>Pat W. How</u>	DATE: <u>1/28/98</u>	RECEIVED BY: <u>M Bonomett</u> <i>Shipped to FT Pierce by FedEx</i>	DATE: <u>1-28-98</u>
	TIME: <u>11:30 am</u>		TIME: <u>11:40</u>
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED FOR LAB BY:	DATE: <u>12998</u>
	TIME:	LAB NAME: <u>Bu North</u>	TIME: <u>1100</u>

**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

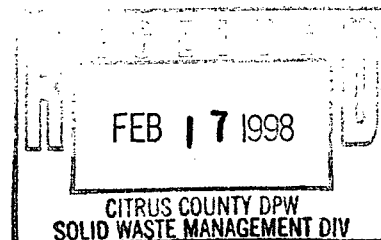


5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**

**PRESENTED TO:
CATHY WINTER**



**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink, positioned above a horizontal line.

February 12, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY



CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 02/04/98 8400150001

Test Site #: _____

 Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate
Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH	150.1	02/05/98	7.7	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	02/05/98	<2.5	mg/L	2.5	U	None
000620	Nitrate-Nitrogen	300.0	02/05/98	0.21	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	02/05/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	02/09/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	02/10/98	1.6	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	02/10/98	1.8	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	02/10/98	2.0	mg/L	0.25	U	H ₂ SO ₄
000340	COD	410.4	02/09/98	57	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	02/06/98	4.7	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	02/04/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: Central Landfill
 PROJECT NAME / #: Leachate weekly
 HBOI W/O & HPN: 8400150

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat H. Ito
 DATE: 2/4/98
 TIME: 945a
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

G = Grab
 C = Composite
 O = Other

MATRIX KEY
 S = Solid
 SL = Sludge
 DW = Drinking
 GW = Ground
 SW = Surface
 WW = Waste

PRESERVATION KEY
 H = Hydrochloric Acid
 N = Nitric Acid
 S = Sulfuric Acid
 SH = Sodium Hydroxide
 P = Phosphoric Acid
 ST = Sodium Thiosulfate
 U = None / Unpreserved

ANALYSES REQUESTED

DATE: <u>2/4/98</u>			KEY S = Solid SL = Sludge DW = Drinking GW= Ground SW = Surface WW = Waste		H = Hydrochloric Acid N = Nitric Acid S = Sulfuric Acid SH = Sodium Hydroxide P = Phosphoric Acid ST = Sodium Thiosulfate U = None / Unpreserved		W03/A02 COD, TP, NH3 TKN, TN										COMMENTS		
TIME: <u>945a</u>																			
METHOD OF SHIPMENT: _____			G = Grab C = Composite O = Other																
COOLER NO.(s) _____																			
FIELD ID	SAMPLING		SAMPLE TYPE	MATRIX	#	PRESERVATIVE →	U	S											
	DATE	TIME				SAMPLE LOCATION ↓													
001	2/4	945	6	WW	2	EFFluent	✓	✓											PH 8.0 conductivity 1600
																			001

RELINQUISHED BY**: <u>Pat H. Ito</u>	DATE: <u>2-5-98</u>	RECEIVED BY:	DATE:
	TIME: <u>935a</u>		TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED FOR LAB BY: <u>Dr. I</u>	DATE: <u>02.05.98</u>
	TIME:	LAB NAME:	TIME: <u>09:30</u>

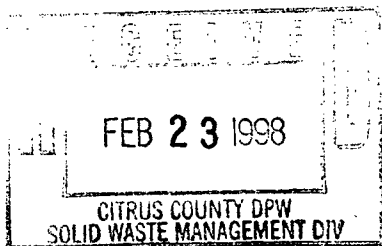
**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in black ink, positioned above a horizontal line.

February 19, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY

**CITRUS COUNTY CENTRAL LANDFILL**

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 02/10/98 8400172001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH	150.1	02/11/98	7.6	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	02/10/98	1.1	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	02/11/98	0.066	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	02/11/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	02/13/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	02/13/98	2.4	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	02/16/98	2.5	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	02/13/98	0.12	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	02/11/98	43	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	02/11/98	4.9	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	02/10/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus county Landfill
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: Citrus county Landfill
 PROJECT NAME / #: Leachate Weekly
 HBOI W/O & HPN: 840 0172

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat H. How
 DATE: 2/10/98
 TIME: 935am
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

G = Grab
 C = Composite
 O = Other

MATRIX KEY
 S = Solid
 SL = Sludge
 DW = Drinking
 GW = Ground
 SW = Surface
 WW = Waste

PRESERVATION KEY
 H = Hydrochloric Acid
 N = Nitric Acid
 S = Sulfuric Acid
 SH = Sodium Hydroxide
 P = Phosphoric Acid
 ST = Sodium Thiosulfate
 U = None / Unpreserved

ANALYSES REQUESTED

DATE: 2/10/98			KEY S = Solid SL = Sludge DW = Drinking GW= Ground SW = Surface WW = Waste		H = Hydrochloric Acid N = Nitric Acid S = Sulfuric Acid SH = Sodium Hydroxide P = Phosphoric Acid ST = Sodium Thiosulfate U = None / Unpreserved		F, Col: PH, CO₂D TS, NO₃/NO₂ COD, TP, NH₃ TKN, TN										COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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FIELD ID	SAMPLING		SAMPLE TYPE	MATRIX	#	PRESERVATIVE →	SAMPLE LOCATION ↓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

RELINQUISHED BY**: <u>Pat H. How</u>	DATE: <u>2/10/98</u>	RECEIVED BY: <u>Mary Bonometh</u>	DATE: <u>2/10/98</u>
	TIME: <u>1110am</u>		TIME: <u>11:10</u>
RELINQUISHED BY: <u>Pat H. How</u>	DATE: <u>2/11/98</u>	RECEIVED BY:	DATE: _____
	TIME: <u>830am</u>		TIME: _____
RELINQUISHED BY:	DATE: _____	RECEIVED FOR LAB BY: <u>Pat H. How</u>	DATE: <u>02.11.98</u>
	TIME: _____		TIME: <u>08:20</u>
		LAB NAME: _____	

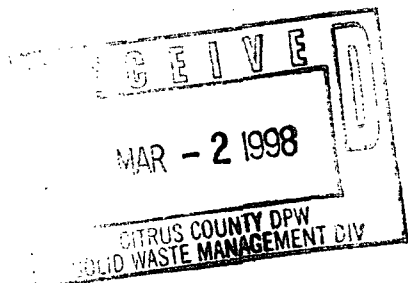
**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink over a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink over a horizontal line.

February 25, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY



CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 02/18/98 8400219001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

747P

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH	150.1	02/18/98	7.9	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	02/19/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	02/19/98	<0.066	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	02/19/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	02/23/98	0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	02/23/98	1.7	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	02/20/98	1.7	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	02/23/98	0.10	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	02/20/98	38	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	02/19/98	3.2	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	02/18/98	1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
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COMPANY: CITRUS COUNTY
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: CENTRAL LANDFILL
 PROJECT NAME / #: LEACHATE WEEKLY
 HBOI W/O & HPN: 84D 0219

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: RAH
 DATE: 2/18/98
 TIME: 1000
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

MATRIX KEY		PRESERVATION KEY		ANALYSES REQUESTED											
S = Solid SL = Sludge DW = Drinking GW = Ground SW = Surface WW = Waste		H = Hydrochloric Acid N = Nitric Acid S = Sulfuric Acid SH = Sodium Hydroxide P = Phosphoric Acid ST = Sodium Thiosulfate U = None / Unpreserved		F. COLI PH, C.BOD, TSS, NO₃/NO₂ CoD, TP, NH₃, TKN, TN											
FIELD ID	SAMPLING DATE	SAMPLING TIME	SAMPLE TYPE	MATRIX	#	PRESERVATIVE →	ST	U	S						COMMENTS
001	2/18/98	1000	G	WW	4	Waste water Post	✓	✓	✓						Fecal, pH, C.BOD, TSS at SH Lab

RELINQUISHED BY**: <u>RAH</u>	DATE: <u>2/18/98</u>	RECEIVED BY: <u>M Bonomett</u>	DATE: <u>2-18-98</u>
	TIME: <u>1205pm</u>		TIME: <u>12:05</u>
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED FOR LAB BY:	DATE:
	TIME:	LAB NAME:	TIME:

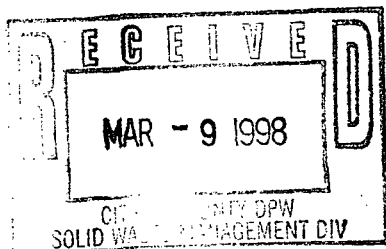
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FORT PIERCE, FLORIDA 34946

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FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in dark ink, appearing to read "Don Hash", written over a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature in dark ink, appearing to read "N. Myron Gunsalus, Jr.", written over a horizontal line.

March 4, 1998



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY



CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 02/25/98 8400251001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH	150.1	02/25/98	7.0	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	02/25/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	03/26/98	1.3	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	03/26/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	03/02/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	02/27/98	1.4	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	03/02/98	2.7	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	02/27/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	03/02/98	44	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	02/26/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	02/25/98	1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: CITRUS COUNTY
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: CENTRAL LANDFILL
 PROJECT NAME / #: LEACHATE WEEKLY
 HBOI W/O & HPN: 8400251

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat H.H.W.
 DATE: 2/25/98
 TIME: 1010
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

MATRIX KEY	PRESERVATION KEY
S = Solid	H = Hydrochloric Acid
SL = Sludge	N = Nitric Acid
DW = Drinking	S = Sulfuric Acid
GW = Ground	SH = Sodium Hydroxide
SW = Surface	P = Phosphoric Acid
WW = Waste	ST = Sodium Thiosulfate
	U = None / Unpreserved

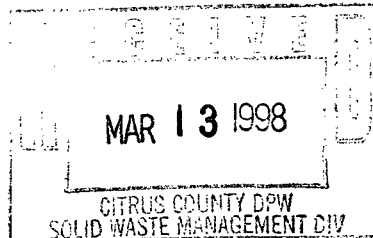
ANALYSES REQUESTED											COMMENTS
F. COLI	PH, CBOD,	TSS, NO ₃ /NO ₂	COD, TP, NH ₃ ,	TKN, TAL							
ST	U	S									PH - 7.1 cooling - 1140
1	3	1									N/O3 to Be done at FT Pierce

RELINQUISHED BY: <u>BAW</u>	DATE: <u>2/25/98</u>	RECEIVED BY: <u>M Bonomett</u>	DATE: <u>2.25.98</u>
	TIME: <u>12:05</u>		TIME: <u>12:05</u>
RELINQUISHED BY: <u>P</u>	DATE: <u>2/26/98</u>	RECEIVED BY:	DATE:
	TIME: <u>1135</u>		TIME:
RELINQUISHED BY:	DATE:	RECEIVED FOR LAB BY: <u>Ph</u>	DATE: <u>02.26.98</u>
	TIME:		TIME: <u>11:35</u>
		LAB NAME:	

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FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink, positioned above a horizontal line.

March 11, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 03/04/98 8400288001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

747P

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH	150.1	03/04/98	7.2	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	03/04/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	03/05/98	0.18	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	03/05/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	03/06/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	03/06/98	1.6	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	03/09/98	1.8	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	03/06/98	2.6	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	03/06/98	43	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	03/05/98	2.9	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	03/04/98	<1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
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COMPANY: Citrus County
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: Central Landfill
 PROJECT NAME / #: Leachate Weekly
 HBOI W/O & HPN: 840 0288

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat H. 11.0.1
 DATE: 3/4/98
 TIME: 1010a
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

MATRIX KEY		PRESERVATION KEY		ANALYSES REQUESTED										COMMENTS
S = Solid	H = Hydrochloric Acid												PH: <u>7.2</u> conduct: <u>1370</u>	
SL = Sludge	N = Nitric Acid													
DW = Drinking	S = Sulfuric Acid													
GW = Ground	SH = Sodium Hydroxide													
SW = Surface	P = Phosphoric Acid													
WW = Waste	ST = Sodium Thiosulfate													
	U = None / Unpreserved													

FIELD ID	SAMPLING		SAMPLE	MATRIX	#	PRESERVATIVE →	SAMPLE LOCATION ↓										
	DATE	TIME	TYPE														
061	3/4/98	1010	G	WW			EFFLUENT	1	3	1							

RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>3/4/98</u>	RECEIVED BY: <u>M Bonomett</u>	DATE: <u>3-4-98</u>
	TIME: <u>1150</u>		TIME: <u>11:50</u>
RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>3-5-98</u>	RECEIVED BY: _____	DATE: _____
	TIME: <u>1130</u>		TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED FOR LAB BY: _____	DATE: <u>3-5-98</u>
	TIME: _____	LAB NAME: <u>B North</u>	TIME: <u>1130</u>

**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

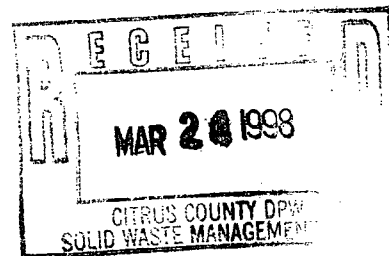
5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**

**PRESENTED TO:
CATHY WINTER**



**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in black ink, appearing to read "Don Hash", written over a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature in black ink, appearing to read "N. Myron Gunsalus, Jr.", written over a horizontal line.

March 19, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 03/11/98 8400320001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

747P

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH, Field	150.1	03/11/98	8.0	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	03/11/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	03/12/98	0.13	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	03/12/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	03/19/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	03/13/98	1.6	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	03/17/98	1.7	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	03/13/98	4.9	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	03/16/98	45	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	03/12/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	03/11/98	2.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: central landfill
 PROJECT NAME / #: leachate weekly
 HBOI W/O & HPN: 840 0320

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat H. Itw
 DATE: _____
 TIME: _____
 METHOD OF SHIPMENT: _____
 COOLER NO.(s) _____

G = Grab
 C = Composite
 O = Other

MATRIX KEY
 S = Solid
 SL = Sludge
 DW = Drinking
 GW = Ground
 SW = Surface
 WW = Waste

PRESERVATION KEY
 H = Hydrochloric Acid
 N = Nitric Acid
 S = Sulfuric Acid
 SH = Sodium Hydroxide
 P = Phosphoric Acid
 ST = Sodium Thiosulfate
 U = None / Unpreserved

ANALYSES REQUESTED

FIELD ID	SAMPLING		SAMPLE TYPE	MATRIX	#	PRESERVATIVE → SAMPLE LOCATION ↓	ANALYSES REQUESTED										COMMENTS
	DATE	TIME					Fecal Coliform	PH	TS	NO ₃ /NO ₂	CO ₃ / PO ₄	TR	NH ₃				
✓001	3/11/98	1010	G	WW	5	EFFluent	x	x	x								PH conduct. 1.1
																	8.0 1520

RELINQUISHED BY**: 	DATE: <u>3/11/98</u>	RECEIVED BY: 	DATE: <u>3/11/98</u>
	TIME: <u>1145a</u>		TIME: <u>1145</u>
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED FOR LAB BY:	DATE: <u>3.12.98</u>
	TIME:		LAB NAME: <u>R. Nath</u>

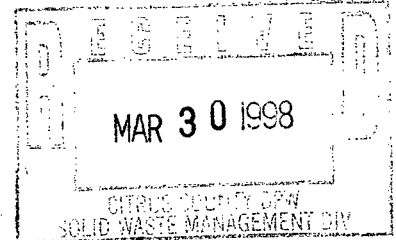
**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584



**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink, positioned above a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature of N. Myron Gunsalus, Jr., written in black ink, positioned above a horizontal line.

March 25, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY

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FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 03/18/98 8100680001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

2479

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	03/18/98	7.6	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	03/19/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	03/20/98	0.44	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	03/20/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	03/24/98	0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	03/23/98	1.1	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	03/23/98	1.6	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	03/23/98	6.0	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	03/23/98	50	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	03/19/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	03/18/98	<1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

CHAIN OF CUSTODY RECORD
The ENVIRONMENTAL LABORATORY at Harbor Branch
 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County
 ADDRESS: _____
 PHONE: _____
 FAX: _____
 CLIENT CONTACT: _____
 PURCHASE ORDER #: _____

DATE NEEDED: _____
 CLIENT PROJECT: Central Land Fill
 PROJECT NAME / #: Leachate Weekly
 HBOI W/O & HPN: 8100680

SPECIAL INSTRUCTIONS:
☐ RUSH in BUSINESS DAYS
SAMPLE SAFETY INFORMATION **:
 Are there any other known or suspected safety hazards associated with these samples other than those listed below?
 Yes No If Yes, _____

SAMPLED BY: Pat Wilcox
 DATE: 3/18/98
 TIME: 950a
 METHOD OF SHIPMENT: _____
 COOLER NO.(s): _____

G = Grab
 C = Composite
 O = Other

MATRIX		PRESERVATION KEY		ANALYSES REQUESTED											
KEY															
S = Solid		H = Hydrochloric Acid													
SL = Sludge		N = Nitric Acid													
DW = Drinking		S = Sulfuric Acid													
GW= Ground		SH = Sodium Hydroxide													
SW = Surface		P = Phosphoric Acid													
WW = Waste		ST = Sodium Thiosulfate													
		U = None / Unpreserved													
MATRIX	#	PRESERVATIVE →	SAMPLE LOCATION ↓	Fecal coliform	pH, Cl, SO ₄	TS, NO ₃ /NO ₂	CO ₂ , TP, NH ₃	TKN, TN							COMMENTS
WW	5		St	U	S										pH 7.6 cond 1520
			X	X	X										
													</		

RELINQUISHED BY**:	DATE:	RECEIVED BY:	DATE: <u>3/18/98</u>
	TIME:		TIME: <u>950</u>
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE: <u>3/19/98</u>
	TIME:		TIME: <u>1145</u>
RELINQUISHED BY: <u>Pat Wilcox</u>	DATE: <u>3/18/98</u>	RECEIVED FOR LAB BY:	DATE: <u>3/18/98</u>
	TIME: <u>1145</u>		TIME: <u>1430</u>
		LAB NAME: <u>NAPM</u>	

**HARBOR BRANCH
ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

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**ANALYTICAL REPORT FOR:
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE SAMPLE
GMS # 4009C00086**

**PRESENTED TO:
CATHY WINTER**

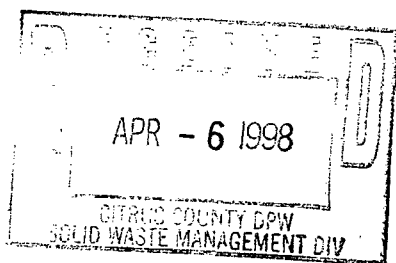
**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in dark ink, appearing to read "Don Hash", is written over a horizontal line.

**LABORATORY DIRECTOR:
N. MYRON GUNSALUS, JR.**

A handwritten signature in dark ink, appearing to read "N. Myron Gunsalus, Jr.", is written over a horizontal line.



April 1, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

HARBOR BRANCH ENVIRONMENTAL LABORATORY

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FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 03/25/98 8400367001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	PH, Filed	150.1	03/25/98	7.4	S.U.	0.20	--	--
900201	Total Suspended Solids	SM2540 D	03/26/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	03/26/98	0.081	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	03/05/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	03/31/98	<0.05	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	03/31/98	0.85	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	04/01/98	0.93	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	03/31/98	1.7	mg/L	0.050	U	H ₂ SO ₄
000340	COD	410.4	03/27/98	20	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	03/25/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	03/04/98	<1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

DISTRIBUTION: WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up