

BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

WACS 10# 39859

January 12, 1998

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 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 LANDFILD 60 AND 80 ACRE SITES - PERMIT NO. S009-274381

Dear Ms. Amram:

This was prepared in response to your review comments on the third quarter and annual 1997 leachate analytical report representing samples collected in July and reported to you in October1997.

I find iron (Fe) analyzed and reported in the quarterly effluent section of that report at 0.072 mg/l. The second value you questioned (720 ug/l) was not located in the report.

The compounds included in Total Trihalomethanes were sampled on the same day and analyzed using two separate analytical methods for reporting the quarterly results and the annual results, as well as detection limits, as summarized below:

Compound :Quarterly	Method	Result	<u>Detection</u>
•			
Bromodichloromethane	524.2	40 ug/l	0.50 ug/l
Bromoform	u	17 ug/l	"
Chloroform	cc .	24 ug/l	u
Dibromochloromethane	u ·	34 ug/l	u
		J	
Total		115 ug/l	
Compound: Annual	Method	Result	Detection
Compound: Annual	Method	Result	Detection
Bromodichloromethane	Method 5030/8260	30 ug/l	Detection 1.0 ug/l
Bromodichloromethane Bromoform	5030/8260	30 ug/l 9.7 ug/l	1.0 ug/l
Bromodichloromethane Bromoform Chloroform	5030/8260	30 ug/l 9.7 ug/l 20 ug/l	1.0 ug/l
Bromodichloromethane Bromoform	5030/8260	30 ug/l 9.7 ug/l	1.0 ug/l "
Bromodichloromethane Bromoform Chloroform	5030/8260	30 ug/l 9.7 ug/l 20 ug/l	1.0 ug/l "

The Landfill's operating permit (SC 33a) indicates N/A for standards on quarterly Total THMs, while the groundwater standards are applicable to plant effluent for annual

Allison Amram January 12, 1998 Page 2

testing of Appendix II parameters. The analytical results on the Annual THM's meets the groundwater standards of less than 100 ug/l. The quarterly results for Total THMs for the fourth quarter indicated 51 ug/l using analytical method EPA 601.

The analytical result for 1,4-Dioxane from the annual testing, using approved methods, was based on a minimum detection limit of 100 ug/l, for both influent and effluent samples. Therefore, any detection would exceed the guidance concentration of 5 ug/l. Since that episode, we have changed laboratories and have discussed the detection limit with the new lab. They indicate that the 5 ug/l guidance concentration is an unrealistically low value for minimum detection level. Using the approved method from SW846, Method 8260, they believe that a reasonable minimum detection limit is 100 ug/l. With two different laboratories providing this information to us, and with no personal experience to the contrary, I believe this is a case where we cannot expect to get results with detection as low as the guidance concentration.

We will be sampling for the lst quarter on the 20th and 21st of this month and will include the resampling of 1,4-Dioxane for both influent and effluent, at a detection limit of 100 ug/l using method 8620 (GC/MS).

Your comments on flow amounts are addressed in a separate letter transmitting the 4th quarter leachate monitoring report issued this week.

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

Sincerely,

Susan J. Metcalfe, P.G.

Susan J. Mulcalbe

Director, Division of Solid Waste Management

SJM:CJW:cjw

CC: Chongman Lee, GW Analysis - Solid Waste - Tallahassee

Kenneth Saunders, Director, Dept. Public Works

Kim Ford, P.E., Department of Environmental Protection

Citrus County Utilities Division/Plant Operator

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SOLID WASTE MANAGEMENT 230 W. Gulf to Lake Highway PO Box 340 Lecanto, FL 34460 352-746-5000 Phone 352-527-1204 Fax Ms. Allison Amram, P.G. Environmental Specialist III Dept. Of Environmental Protection 3804 Coconut Palm Drive Tampa, FI 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 leachate monitoring results for the Citrus County Central Landfill site, together with the Operator's monthly reports, covering the period 10-97 through 12-97.

There are no exceedences of permit limits for treated leachate during this period.

In response to your review comments of 1/7/98 as to effluent discharge/flow per day, we are reporting meter readings of <u>discharge</u>. This does not necessarily correspond to the previous 24-hour treatment amount and is part of the reason that the reported amounts are occasionally higher than 30,000 gallons. The amount in a treatment batch is controlled. After treatment (nitrification then denitrification) each batch goes to tank #4 (24,000 gallons capacity for flow equalization). At this point, the controlled batch size is no longer in effect. Effluent is then sent through the flow meter to the chlorine contact chamber and finally to the percolation ponds. At one extreme, 39,000 gallons could be sent to the percolation ponds in one day after treating only 15,000. At the other end of the spectrum, two 12,000-gallon batches could be treated with zero discharge through the flow meter to the percolation ponds.

A second reason for showing greater than 30,000 gallons is that on some days the plant is operating automatically and no operator is on duty to take readings. Mondays or the day after a holiday are the most common days for such a situation.

The third reason for the apparent discrepancy is that, infrequently, meter readings are not taken 24-hours apart. The normal routine is to take those meter readings at the beginning of the shift, however if unusual circumstances confront the operator, the readings may be taken later in the day.

At no time was the plant operated to treat more than 30,000 gallons in a single 24-hour day. The maximum has been two 15,000- gallon batches in a day. The monthly operating reports for this quarter indicates the same type of readings for plant flow.

If this is not an acceptable procedure, please let me know.

Allison Amram January 12, 1998 Page 2

We are compiling information on leachate flows, influent and effluent quality, treatment times, costs of onsite vs. offsite treatment and other information. We may, at some time in the future, request a modification of the permit conditions related to allowable leachate treatment volumes, however at the present time we intend to comply with the existing permit.

Your other review comments dated 1/7/98 concerning the third quarter 1997 leachate quality submittal are addressed in a separate letter.

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

Sincerely,

Susan J. Metcalfe, P.G.

Swan I Metalfe

Director, Division of Solid Waste Management

SJM:CJW:cjw

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

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CITRUS COUNTY CENTRAL LANDFILL OCTOBER, NOVEMBER, DECEMBER, 1997

MCL		200 CUF/100ML		20	6.0 -						12				TOTAL		20		
		FECAL			8.5		AMMONIA						TOTAL		PHOS-				
DATE	<	COLIFORM	<	CBOD	PH	<	NITROGEN	<	COD	<	NITRATE-N	<	NITROGEN	<	PHOROUS	<	TSS	<	TKN
10/2/97	_	1.0		4.0	8.2		0.066		42		0.20		1.3		6.8	<	5.0	-	1.1
10/2/97		1.0		9.1	8.3		0.050	-	45	_	0.60		1.4	-	5.2	<u> </u>	5.5		1.4
*10/15/1997	-	4.0		5.2	8.4	-	0.067		120	_	0.35	_	2.75		5.6		2.0		2.4
10/22/97		ND		11.0	8.2	-	ND		81		0.14		2.6		5.7		ND		2.5
10/29/97		12		4.1	7.85		0.05		39		0.12		1.5		5.5		2.0		1.4
	nal	lytical Results A	\tta							-								-	
11/5/97	<	1.0		4.2	8.1	<	0.05		36		0.062	<	1.0		6.3	<	2.5	<	1.0
11/12/97		14	<	2.0	8.0		0.05	-	80	<	0.06		1.6		2.3		4.2	\dashv	1.4
11/19/97	<	1.0		2.2	7.9	<u> </u>	0.05		34		0.068		0.76	-	5.7	-	3.2		0.69
11/25/97		1.0		3.4	8.2		0.05		46		0.032		0.87		2.1	<	1.0		0.84
						-			'	_						_			
12/3/97		ND		4.2	7.5		ND		52		0.10		1.2	<u> </u>	3.5	-	1.0		1.1
12/10/97	<	1.0		7.7	7.1		0.11		32		2.50		3.5		2.5	Γ	2.6		0.92
12/17/97	<	1.0		6.4	7.4	<	0.05		52	<	0.06		1.11		3.1	<	2.0		1.11
12/23/97	<	1.0		3.4	7.4	<	0.05		38	<	0.06		1.19		1.2	<	2.0		1.19
12/30/97	<	1.0		4.4	7.6	<	0.05	_	36	<	0.06		4.2		0.02	<	2.0		1.4
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	*	Analytical resu	l Ilts	reported ir	n MG/L ex	ce	pt for Fecal (l Co	liform							-			
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Facility GMS#: 4009C00086

Test Site ID#:

Well Name: Leachate Effluent

Classification of Ground Water:

Ground Water Elevation (NGVD):

or (MSL):

HBEL Sample ID: 75451001

Sampling Date/Time: 10/15/97 11:45

Report Period: Quarterly October 1997

Well Purged (Y/N):

Well Type: 🔞 Background

Intermediate

☐ Compliance

Other

	•							/	
Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Ro	esult/Units	Detection	Limits/Units
004000	pH	G	N	EPA 150.1	10/17/97 15:36	8.4	SU	0.20	SU
070304	Total Dissolved Solids	G	N	EPA 160.1	10/16/97 20:10	1000	mg/L	20	mg/L
900201	Total Suspended Solids	G	N	EPA 160.2	10/17/97 9:20	2.0	mg/L	1.0	mg/L
000940	Chloride	G	N	EPA 300.0	10/17/97 11:30	400	mg/L	15	mg/L
000620	Nitrate	G	N	EPA 300.0	10/17/97 10:55	0.35	mg/L	0.060	mg/L
000620	Nitrite	G	N	EPA 300.0	10/17/97 10:55	ND	mg/L	0.044	mg/L
000610	Ammonia	G	N	EPA 350.1	10/21/97 11:11	0.067	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/20/97 15:37	2.4	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	EPA 351.2	10/22/97 11:27	2.7	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	10/20/97 15:37	5.6	mg/L	0.50	mg/L
000340	COD	G	N	EPA 410.4	10/21/97 11:00	120	mg/L	5.0	mg/L
032101	Bromodichloromethane	G	N	EPA 601	10/21/97 14:42	8.3	ug/L	1.0	ug/L
032104	Bromoform	G	N	EPA 601	10/21/97 14:42	20	ug/L	1.0	ug/L
032106	Chloroform	G	N	EPA 601	10/21/97 14:42	2.4	ug/L	1.0	na\r
081521	Dibromochloromethane 82/05	G	N	EPA 601	10/21/97 14:42	20	ug/L	1.0	ug/L
082080	Total THMs	G	N .	EPA 601	10/21/97 14:42	51	ug/L	1.0	ug/L
034030	Benzene	G	N	EPA 602	10/21/97 14:42	ND	ug/L	1.0	ug/L
034371	Ethylbenzene	G	N	EPA 602	10/21/97 14:42	ND	ug/L	1.0	υg/L
034010	Toluene	G	N	EPA 602	10/21/97 14:42	ND	ug/L	1.0	ug/L
081551	Total Xylenes	G	N	EPA 602	10/21/97 14:42	1.8	ug/L	1.0	ug/L
031616	Fecal Coliform	G	N	SM9222 D	10/15/97 16:26	4.0	CFU/100mL	1.0	CFU/100mL
001002	Arsenic	G	N	SW-846 6010	10/22/97 9:45	0.0099	mg/L	0.0050	mg/L
001007	Barium	G	N	SW-846 6010	10/22/97 9:45	0.012	mg/L	0.010	mg/L
001027	Cadmium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0010	mg/L
Manager Comment Com	Danis i reggi sello de la companione de la		i companyon		AND REPORT OF THE PARTY OF THE	Description (Albertains)		the section of the se	بمعرضها الوبالهاليات أحدهينهاليم لدر

PART III ANALYTICAL RESULTS	HBEL Sample ID:	75451001 Oct	ANOGRAPHIC PSTITUTION
Facility GMS# : 4009C00086	Sampling Date/Time:		311101100
Test Site ID# :	Report Period:	Quarterly October 1997	•
	Well Purged (Y/N) :		
Well Name: Leachate Effluent	Well Type:	^a Background	
Classification of Ground Water:		Intermediate	
Ground Water Elevation (NGVD) :		■ Compliance	÷
or (MSL):		Other	

Storet Code	Parameter Monitored	Sampling Method		Analysis Method	Analysis Date/Time						Limits/Units
001034	Chromium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0020	mg/L		
001045	Iron	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.040	mg/L		
001051	Lead	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0030	mg/L		
001147	Selenium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0050	mg/L		
001077	Silver	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0010	mg/L		
000929	Sodium	G	N	SW-846 6010	10/22/97 9:45	270	mg/L	1.0	mg/L		
007900	Mercury	.G	N	SW-846 7470	10/22/97 14:15	ND	mg/L	0.00050	mg/L		
077651	1,2-Dibromoethane	G	N	SW-846 8011	10/21/97 11:46	ND	ug/L	0.019	ug/L		

CER 6 17-601.80079	
CEPT Flore 17-601.500(9) Consults Western Security Flores Name Page 11-60011	a Plan
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SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

Part II - General Information

(1)	Month DECEMBER Year 1999
(2)	Plant's DER Identification Number 400900086
(3)	Plant Name CENTRAL LANDET
	LEARDATE PONT
(4)	Plant Address SR 44 3 MITES
	E. LECANTO
(5)	CBY LECANTO
(6)	County CITRUS.
(7)	Phone Number (352) 746-2694
(8)	Permit Number <u>S-009-187229</u>
(9)	Plant Type 1- C
(10)	Test Site Identification Number
(ii)	Fecat Coliform Sample Method
	Most Probable Number
(12)	Misembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse
(12)	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated
	Type of Effluent Disposal or Reclaimed Water Reuse
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. 2197
(13)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. 6197 Evening Shift Operator Class Cert. No. 6197

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, Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mga	050053	027
(17) Permitted capacity	mgd		.030
(18) Three-month average daily flow	m gd	-	.024
(19) Percent of permitted capacity	%		81%
(20) CBODs Effluent -	mg/L	080082	5,2-
(21) CBOD ₅ Effluent	lbs/day	-	AM
(22) TSS Effluent	mg/L	900201	1.
(23) TSS Effluent	lbs/day	-	NA
(24) Minimum pH		-E	6.0
(25) Maximum pH		-	8.1
(26) Total N	mg/L	000600	2.5
(27) TKN	WAL	U00625	1.1
(28) Ammonia (NH ₃ - N)	mg/L	000610	0.06
(29) Nitrate	mg/L	071850	0.6
(30) Total Phospinorus	mg/L	000665	9.1
(31) Minimum Chlorine Residual	mg/L	-	•5
(32) Maximum Chlorine Residual	mg/L		2.2
(33) Other Effluent Parameters			M
COD	Mg/L		4

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Acom Tita	17-60150019 Company Westpurps Supplies Page Montey Opening Report
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solid waste leachate treatment facility Monthly Operating Report

(34)) ;															Mont	DE	cont	24C	Yea	190	7
pay of the Month	Flow (mgd)	Chlorine Residual aller Contact	Chlorine Residual atter Dechlorination	CBODs Inluent (mg/L)	TSS Influent (mg/L.)	CBOD, Ellluent (mg/L)	TSS Elltuent (mg/L.)	pH Effluent	TKN Ellluent (mg/L.)	NH3 · N Effluen (mg/L)	Nitrate Effluent (mg/L.)	Total P Effluent (mg/L)	Fecal Coliform (#/100ml)	COD	NIAST						*	
1	33385 7128	.9 1.3						8.0														
2	15495	1/5				4,2	1.0	6.B 7.S	1.1	11/2	0.10	3.5	ND	54	1,2			 	 			-
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18		3.3						7.6														
19	33771	1.1						7.9														
20	29825	2.2						7,8														
21	NA																					<u>. </u>
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<u>25</u>	34386	11.7				<u> </u>	1	7.8													1	<u> </u>
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6 9011 1,11		7.9													
7 34485 2.2	6,4 Ka	1.0 7.4	1111	<0.05	<0.06	7.1	<1,0	5 3	1,11						
8 24909 B.A		7,6													
9 33771 111		7.9													
0 29825 3.2		7.8													
11 10/2															
2 56892 1.7		7.7													
3 127962 110	34 4	14 Jas	1,19	<0,0≤	<0,06	1,2	41.0	38	1.19						
4 133030 16		7.8						1							
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28 31399 1.4)	18.0								ļ		į	<u> </u>		
29 24009 2.2		7.3									1		4		1
30 126119 2.24	14.416	2017/10	1.4	<0.05	40.06	002	41.0	36	4.21				!	-	
31 26030 2.2		18,0											1 1	:	<u>_i</u>
ead Operator. This is to certify it itemation is true complete and ligned. Tigned: Quantum Quantum Quantum Quantum (Please Type)lames A	Li li	MALL		ion co	entaine		ate:	on and	that:	o the	cest of	my know	viedge 	and be	ief. To
Citrus Co	unty Utilit	y Divis	sion			Te	elephor	ne Na	(Pleas	e Type	e)	·	<u>. </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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CITRUS COUNTY CENTRAL LANDFILL OCTOBER, NOVEMBER, DECEMBER, 1997

MCL		200 CUF/100ML		20	6.0 -						12				TOTAL	Π	20	T	
		FECAL			8.5		AMMONIA						TOTAL		PHOS-	1			
DATE	<	COLIFORM	<	CBOD	PH	<	NITROGEN	<	COD	<	NITRATE-N	<	NITROGEN	<	PHOROUS	<	TSS	<	TKN
40/0/07							2 2 2 2 2		10		0.00		10						
10/2/97		1.0		4.0	8.2		0.066	ı	42		0.20		1.3		6.8	1	5.0		1.1
10/9/97	<	1.0		9.1	8.3	L	0.050	_	45	<	0.60		1.4		5.2	J	5.5	_	1.4
*10/15/1997		4.0		5.2	8.4	1	0.067	_	120		0.35		2.75		5.6		2.0	\perp	2.4
10/22/97		ND		11.0	8.2		ND		81		0.14		2.6		5.7		ND		2.5
10/29/97		12		4.1	7.85	<	0.05		39		0.12		1.5		5.5	<	2.0	\perp	1.4
*Quarterly A	na	lytical Results /	Atta	ached				ļ				_							
	.											_						_	
11/5/97	<	1.0		4.2	8.1	<	0.05		36		0.062	<	1.0		6.3	<	2.5	<	1.0
11/12/97		14	<	2.0	8.0	<	0.05		80	<	0.06	_	1.6		2.3	ļ —	4.2		1.4
11/19/97	<	1.0		2.2	7.9	<	0.05		34		0.068		0.76		5.7	T	3.2		0.69
11/25/97	<	1.0		3.4	8.2	<	0.05		46		0.032		0.87		2.1	<	1.0		0.84
							·									-		+	
12/3/97		ND		4.2	7.5	-	ND		52		0.10	-	1.2		3.5		1.0		1.1
12/10/97	<	1.0		7.7	7.1	Г	0.11		32		2.50		3.5		2.5		2.6		0.92
12/17/97	<	1.0		6.4	7.4	<	0.05		52	<	0.06		1.11		3.1	<	2.0		1.11
12/23/97	<	1.0		3.4	7.4	<	0.05		38	<	0.06		1.19		1.2	<	2.0		1.19
12/30/97	<	1.0		4.4	7.6	<	0.05		36	<	0.06		4.2		0.02	<	2.0		1.4
												-				-			
An own or	*	Analytical resu	lte	reported in	MG/L av	62	nt for Fecal (<u> </u>	liform			_				-			
		Analytical resu	IIIO	reported in	I WOLL 6X		pt for recard					-				-		-	
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						-		-				-				-			
/cjw																			

PART III ANALYTICAL RESULTS

Ground Water Elevation (NGVD) : _

Facility GMS# :4009C00086	
Test Site ID# :	
Well Name: Leachate Effluent	
Classification of Ground Water:	

or (MSL):

HBEL Sample ID: 75451001

Sampling Date/Time: 10/15/97 11:45

Report Period: Quarterly October 1997

Well Purged (Y/N):

Well Type: 🗃 Background

Intermediate

■ Compliance

Other

Storet Code	Parameter Monitored	Sampling Method		Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection	Detection Limits/Units		
004000	рН	G	N	EPA 150.1	10/17/97 15:36	8.4	SU	0.20	SU		
070304	Total Dissolved Solids	G	N	EPA 160.1	10/16/97 20:10	1000	mg/L	20	mg/L		
900201	Total Suspended Solids	G	N	EPA 160.2	10/17/97 9:20	2.0	mg/L	1.0	mg/L		
000940	Chloride	G	N	EPA 300.0	10/17/97 11:30	400	mg/L	15	mg/L		
000620	Nitrate	G	N	EPA 300.0	10/17/97 10:55	0.35	mg/L	0.060	mg/L		
000620	Nitrite	G	N	EPA 300.0	10/17/97 10:55	ND	mg/L	0.044	mg/L		
000610	Ammonia	G	N	EPA 350.1	10/21/97 11:11	0.067	mg/L	0.050	mg/L		
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/20/97 15:37	2.4	mg/L	0.20	mg/L		
000600	Total Nitrogen	G	N	EPA 351.2	10/22/97 11:27	2.7	mg/L	0.20	mg/L		
000665	Total Phosphorus	G	N	EPA 365.4	10/20/97 15:37	5.6	mg/L	0.50	mg/L		
000340	COD	G	N	EPA 410.4	10/21/97 11:00	120	mg/L	5.0	mg/L		
032101	Bromodichloromethane	G	N	EPA 601	10/21/97 14:42	8.3	ug/L	1.0	ug/L		
032104	Bromoform	G	N	EPA 601	10/21/97 14:42	20	uq/L	1.0	ug/L		
032104	Chloroform	G	N	EPA 601	10/21/97 14:42	2.4	ug/L	1.0	ug/L		
	Dibromochloromethane	G	N	EPA 601	10/21/97 14:42	20	ug/L	1.0	•		
081521	Total THMs	G	N	EPA 601	10/21/97 14:42	51	ug/L ug/L	1.0	ug/L		
082080					10/21/97 14:42	ND		1.0	enumur i inse i V		
034030	Benzene	G Skarter	N Section	EPA 602	10 page 38 da 28 da		ug/L	er February	ug/L		
034371	Ethylbenzene	G Zdanana	N N	EPA 602	10/21/97 14:42	ND	ug/L	1.0 mi am	ug/L		
034010	Toluene	G	N Company	EPA 602	10/21/97 14:42	ND	ug/L	1.0 \$45 = 12=65 (1)	ug/L Saiza Lijasazarak		
081551	Total Xylenes	G	N	EPA 602	10/21/97 14:42	1.8	ug/L	1.0	ug/L		
031616	Fecal Coliform	G	N	SM9222 D	10/15/97 16:26	4.0	CFU/100mL	1.0	CFU/100mL		
001002	Arsenic	G	N	SW-846 6010	10/22/97 9:45	0.0099	mg/L	0.0050	mg/L		
001007	Barium	G	N	SW-846 6010	10/22/97 9:45	0.012	mg/L	0.010	mg/L aades action √		
001027	Cadmium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0010	mg/L		



PART III ANALYTICAL RESULTS	HBEL Sample ID:	75451001 OCEANOGRAPHIC MISTILITION
Facility GMS# : 4009C00086	Sampling Date/Time:	
Test Site ID#:	Report Period:	Quarterly October 1997
	Well Purged (Y/N):	
Well Name: Leachate Effluent	Well Type:	■ Background
Classification of Ground Water:	, , , , , , , , , , , , , , , , , , ,	Intermediate
Ground Water Elevation (NGVD) :		
or (MSL):		™ Other

Storet Code	Parameter Monitored		Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analys	Analysis Result/Units D		Limits/Units
001034	Chromium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0020	mg/L
001045	Iron	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.040	mg/L
001051	Lead	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0030	mg/L
001147	Selenium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0050	mg/L
001077	Silver	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0010	mg/L
000929	Sodium	G	N	SW-846 6010	10/22/97 9:45	270	mg/L	1.0	mg/L
007900	Mercury	.G	N	SW-846 7470	10/22/97 14:15	ND	mg/L	0.00050	mg/L
077651	1,2-Dibromoethane	G	N	SW-846 8011	10/21/97 11:46	ND	ug/L	0.019	ug/L

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Consider Courses Report	Plan
5000-0 July 1, 1991	· · · · · ·
CIER Accessor No	20

SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

Part II - General Information

• •	Month DECEMBER Year 1999
(2)	Plant's DER Identification Number 400900086
	Plant Name CENTRAL LAND +1
	LEARhate Plant
(4)	Plant Address SR 44 3 MITES
	E. LECANTO
(5)	CITY LECANTO
(6)	County CITRUS .
(7)	Phone Number (352) 746-2694
(8)	Permit Number <u>S-009-187239</u>
(9)	Plant Type 1 - C
(TC)	Test Site Identification Number D/A
	Fecat Coliform Sample Method
v,	· · · · · · · · · · · · · · · · · · ·
U - ',	a manufacture of the second of
- ,	Wisembrane Filter Most Probable Number
- ,	a manufacture of the second of
(12)	Wisembrane Filter Most Probable Number
(12)	Miembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse
(12) (13)	Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated
(12) (13)	Miembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable
(1 2) (1 3) (14)	Miembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable
(1 2) (1 3) (14)	Miembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge
(1 2) (1 3) (14)	Miembrane, Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing
(1 2) (1 3) (14)	Miembrane, Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. 8197
(1 2) (1 3) (14)	Miembrane, Filter Most Protable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. Cert. No.

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Units	STORET Code	Value
mga	050053	027
mga	-	.030
mgd		.024
%		81%
mg/L	080082	5,2
lbs/day	-	NA
mg/L	900201	1.9
lbs/day	-	NA
•	-6-	6.8
	_	8.1
mg/L	000600	2.2
WAL	U00625	1.1
mg/L	000610	0.06
mg/L	071850	0.6
mg/L	000665	a.1
mg/L	-	•5
mg/L	-	2.2
		AN
Mg/L		42
	mgd mgd mgd % mg/L lbs/day mg/L lbs/day mg/L mg/L mg/L mg/L	Mgd O50053 Mgd O50053 Mgd O-



Florida Department of Environmental Regulation

Twin Towers Office Bidg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

OER Form #_ 17-801.900(1)	
Coments Where	meter Franchiste Plant
Form The Montely Course	7
Electric Care July 1, 1991	
OER Acception Mis	•
	Page to ov OER

SOLID WASTE LEACHATE TPEATMENT FACILITY

Monthly Operating Report

Part 1 - Instructions

- (1) Enter the month and the year of this report.
- (2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER Distri-Office issuing the permit and will remain the same throughout the life of the plant.
- (3)-(7) Enter the plant's name, address, city, county, and phone number.
- (8) Enter the plant's current State of Florida permit number.
- (9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicate the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

:		Plant Size (mgd)							
	Type of Treatment	Α,	. в	С	0				
1	Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.)	≥30	≥0.5 but <3.0	! ≥0.002 ! but <0.5					
2	Activated Sludge or Combined Treatment systems that do not include nutrient removal processes.	≥5.0	≥1.0 but < 5.0	≥0.002 but <1.0					
. 3	Activated Sludge operated in the extended aeration mode.	≥8.0	. ≥2.0 but <8.0	: ≥0.025 : but <2.0	: ≥0.002 :but <0.02				
4	Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes.	≥10.0	≥3.0 but <10.0	≥0.025 : but <3.0	≥0.002 but <0.02				
5	Septic tank or other on-site waste treatment systems with subsurface disposal.	• • •	• • •		≥0.005				

- (10) Enter the test site identification number.
- (11) Check the type of fecal colliform sample method used.
- (12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application restricted public access, rapid rate land application restricted public access, rapid rate land application restricted public access, rapid rate land application restricted public access.
- (13) If this plant does not have a limited wor weather discharge permitted under the provisions of Pule 17-010.860(5), F.A.C. check not ac plicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check have lift the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.
- (14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable,
- (15) Enter the operator Class A. B. C. or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).
- (16) Enter the monthly average daily flow in mgd, recorded to three significant figures.
- (17) Enter the permitted capacity in mgd, recorded to three significant figures.
- (18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.
- (19) Enter the percent the three month average daily flow is of the permitted capacity.
- (20) Enter the average monthly CBODs of the effluent as recorded in Item 34.
- (21) Enter the average monthly CBODs of the effluent in los/day if required by permit.
- (22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.
- (23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.
- (24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.
- (25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.
- (26)-(30) Enter the results of the nutnent analysis in mg/L as required by the permit.
- (31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in item 34.
- (32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in item 34.
- (33) This space is provided for plants which may have additional reporting requirements (i.e., cissolved oxygen).
- (34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd mg/L, ibs/day, etc.) Use blank columns as needed, if there are no fecal coliforms detected, enter NO in the column labeled fecal coliforms

Southeast District 1900 S Congress Ave. Suite A Aveg part Beach. Plants 13408 107 177 1840

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States One July 1, 180	
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solid waste leachate treatment facility Monthly Operating Report

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Day of the Maxill	Flow (migd)	Chlorine Residual alter Contact	Chlorine Residual atter Dect Norination	CBODs Inlluent (mg/L)	TSS Influent (mg/L.)	CBOD _a Ellluent (mg/L)	TSS Elfluent (mg/L)	pH Effluent	TKN Elluen (mg/L)	NH3 · N Effluent (mg/L)	Nitrate Etlluent (mg/L)	Total P Elfluent (mg/L)	Fecal Coliform (#/100ml)	CED	NIANT						~~	
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6	26217	15				 	 	7.9		┼──	 	 	 		-			 	 	 		
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9	5319	,S						7.0				<u> </u>										
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	12855					7.7	2,6		0.92	0.11	2.5	2.5	<10	37	3.5		<u> </u>		<u> </u>		<u> </u>	
	29884	كِيل	 					8.0	ļ	l	<u> </u>				<u> </u>	<u> </u>				ام ان		
	36482	9.						87				İ				<u> </u>		<u> </u>				
	23311	1.6						8.1					<u> </u>		<u> </u>		<u> </u>	<u> </u>				
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.6	9011	1.1						7.9														
	34485	2.2				6,4	K3.0	7,4	1111	<0.05	<0.06	7.1	41.0	52	1.11							
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.9	33771							7.9										1				
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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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

January 7, 1998

A DIVISION OF HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.

CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 12/30/97 77099001

Test Site #:____

Test Site Name: Leachate

Site Type:

[] Background

[] Site Boundary

[] Intermediate [] Compliance

[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	I reservative Added
004000	рН	150.1	12/31/97	7.6	Ş.U.	0.20		
900201	Total Suspended Solids	160.2	12/31/97	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	12/31/97	<0.060	mg/L	0.060	υ.	None
000620	Nitrite-Nitrogen	300.0	12/31/97	£2.8	mg/L	0.044	ប	None
000610	Ammonia-Nitrogen	350.1	01/05/98	<0.05	mg/L	0.050	U	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	01/05/98	1.4	mg/L	0.20	ប	H₂SO₄
000600	Total Nitrogen	351.2	01/07/98	~4.2	mg/L	N/A	บ	H₂SO₄
000665	Total Phosphorus	365.4	01/05/98	∼ 0.02	mg/L	0.050	U	H₂SO₄
000340	COD	410.4	01/05/98	36	mg/L	5.0	υ	H ₂ SO ₄
80082	CBOD5	SM5210 B	12/31/97	4.4	mg/L	2.0	ט	None
031616	Fecal Coliform	SM9222 D	12/30/97	< 1.0	CFU/100mL	1.0	ប	Na ₂ S ₂ O ₃

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.

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 **SPECIAL INSTRUCTIONS:** ADDRESS: ☐ RUSH in BUSINESS DAYS egantó, Fla. 34460 DATE NEEDED: SAMPLE SAFETY INFORMATION **: Are there any other known or suspected PHONE: CLIENT PROJECT: PROJECT NAME /#: LUCETTY safety hazards associated with these FAX: CLIENT CONTACT: Jim Rrunswick samples other than those listed below? PURCHASE ORDER #: HBOI W/O & HPN: Yes No If Yes, Kesinger SAMPLED BY: 7. MATRIX PRESERVATION KEY ANALYSES REQUESTED DATE: 12/30/9 KEY H = Hydrochloric Acid TIME: 9:45 Am S = SolidN = Nitric Acid METHOD OF SHIPMENT SL = Sludge S = Sulfuric Acid COOLER NO.(s) DW = Drinking SH = Sodium Hydroxide G = Grab P = Phosphoric Acid GW= Ground C = Composite ST = Sodium Thiosulfate SW = Surface Ó - Other COMMENTS U = None / Unpreserved WW = WasteSAMPLING SAMPLE PRESERVATIVE > H2504 FIELD ID TYPE MATRIX SAMPLE LOCATION DATE TIME $\omega\omega$ 12/30 RELINQUISHED BY RECEIVED BY: DATE: DATE: TIME: TIME: DATE: RECEIVED BY: DATE: TIME: TIME: RELINQUISHED BY: DATE: RECEIVED FOR LAB BY: DATE: TIME: LAB NAME: TIME:

PAGE

OCEANOGRAPHIC MISTITUTION

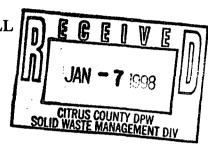
5600 U.S. 1 NORTH FORT PIERCE, FLORIDA 34946

(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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

DECEMBER 31, 1997



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 # 4009C00086

Sample Date/Lab ID: 12/23/97 77012001

	".		
Test Site #:	Site Type:	[] Background	
	600	[] Site Boundary	/
Test Site Name: <u>Leachate</u>		[] Intermediate	
	` ([] Compliance	
	. '	[X] Other: Leachate	

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	рН	150.1	12/247	7.4	S.U.	0.20		
900201	Total Suspended Solids	160.2	12/26/97	<2.0	mg/L	2.0	υ	None
000620	Nitrate-Nitrogen	300.0	12/25/97	<0.060	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/25/97	< 0.044	mg/L	0.044	- U	None
000610	Ammonia-Nitrogen	350.1	12/24/97	<0.05	mg/L	0.050	υ	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	12/31/97	1.19	mg/L	0.20	U	H₂SO₄
000600	Total Nitrogen	351.2	12/31/97	1.19	mg/L	N/A	'n	H₂SO₄
000665	Total Phosphorus	365.4	12/30/97	1.2	mg/L	0.25	U	H₂SO₄
000340	COD	410.4	12/24/97	38	mg/L	5.0	υ	H₂SO₄
80082	CBOD5	SM5210 B	12/24/97	3.4	mg/L	2.0	υ·	None
031616	Fecal Coliform	SM9222 D	12/23/97	< 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

PHONE: FAX: CLIENT CC PURCHASE	1.663 v 904- 904- ONTACT: E ORDER	100x 1746- 527- Jim	unty La 340 Fla. 344 5000 1204 Bruns	VIO DA CL PR	.IENT .OJEC	REEDED: PROJECT: <u>C/+ rv</u> T NAME / #: LDee k /O & HPN:_	's Co	unty Leach	hate	<u>कि</u> 	11	RUS SAMPL Are the safety h samples	H in E SAFET re any ot azards as other th	TRUCTIONS: BUSINESS DAYS TY INFORMATION ** ther known or suspected essociated with these an those listed below? Yes,	
SAMPLED DATE: <u>/2</u>	BY: <u>7.</u>	Resi	nger	MATRIX	P	PRESERVATION KEY			XU	ANA	LYSE	S REQ	UEST	ED	
DATE: 12 TIME: 10 METHOD C	<i>: 00</i> OF SHIPM	$2m$ π		KEY S = Solid SL = Sludge DW = Drinking	H = Hydrochloric Acid N = Nitric Acid S = Sulfuric Acid SH = Sodium Hydroxide										
	1		G = Grab C = Composite O = Other	GW= Ground SW = Surface WW = Waste	P = ST U =	Phosphoric Acid = Sodium Thiosulfate = None / Unpreserved	600	000			/•			COMMENTS	
FIELD ID	SAMP DATE	TIME	SAMPLE TYPE	MATRIX	#	PRESERVATIVE >	_ .]	H250	4	i. G					
	12-23			ww	3	Leachate	2	1					<u> </u>		
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				Til	ME:		LAB NAME: Son North					TIME: 1025			

OCEANOGRAPHIC MSTITUTION

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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

DECEMBER 24, 1997

DEC 3 0 1997



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 # 4009C00086

Sample Date/Lab ID: 12/17/97 76841001

Test Site #:_____ Site Type: [] Background
[] Site Boundary

[] Intermediate
[] Compliance
[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	рН	150.1	12/19/97	7.4	S.U.	0.20		-
900201	Total Suspended Solids	160.2	12/19/97	<2.0	mg/L	2.0	ប	None
000620	Nitrate-Nitrogen	300.0	12/18/97	<0.060	mg/L	0.060	υ	None
000620	Nitrite-Nitrogen	300.0	12/18/97	< 0.044	mg/L	0.044	ប	None
000610	Ammonia-Nitrogen	350.1	12/22/97	<0.05	mg/L	0.050	υ	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	12/22/97	1.11	mg/L	0.20	υ.	H₂SO₄
000600	Total Nitrogen	351.2	12/22/97	1.11	mg/L	N/A	ប	H₂SO₄
000665	Total Phosphorus	365.4	12/22/97	3.1	mg/L	0.25	ប	H₂SO₄
000340	COD	410.4	12/19/97	52	mg/L	5.0	ับ	H₂SO₄
80082	CBOD5	SM5210 B	12/19/97	6.4	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/17/97	< 1.0	CFU/100mL	1.0	Ü	Na ₂ S ₂ O ₃



Field Data Sheet

		, Field Data Sheet
	npler (s) oject Name	Lenst. Date 12/17/97 Sample Time Field ID#
Sar Sar	nple Type (circle nple Site Identific	one): WW SW GW DW ReagWtr. Sludge Sediment Soil Other ation 200 Charle E
Sar	mpling Method. mpling Equipmen e and Weather Co	
pH Cor Tur DO	meter meter	Yes No Buffer 4.0 Yes No Buffer 147 Yes No Buffer 0.5 Yes No Temp C° No Duplicate: Yes No Field Decontamination: Yes No
	Parameter	Sample Containers pH Check Wall Diameter Multiplian
		The state of the s
-	Nutrient Metals	Diosis 1100
	Sulfide	2.0 mones
	Cyanide	4.0 inches 0.033
	Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.) 6.0 inches
-4	Oil and Grease	Glass - HCl <2
	TRPH	Glass - HCl <2
	VOA	Glass - HCl <2
	SVOC	Glass - (DRW NO Chlorine Res.)
	OtherPhenols	Glass - Ha Po4 <2
	Other	G1055 - M3 PO4
pH Co Tu	ield Instrument meter nductivity meter rbidity meter) meter	Tes No Buffer 4.0 Yes No Buffer 147 Yes No Buffer 0.5 Yes No Temp C° Adjust Thirding Calibration 7.0 7.02 10.0 10.11 Step of the control
Ge	eneral Site Info	rmation/Comments
	1	

ANALYTIÇAL FIELD DATA

Project Name Citrus & Landill Date 12/17/97 Page_ Specific Conductivity Residual Chlorine **Temperature** LOCATION Time рН D.O. Comments 13:44 82.0 1500

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 SPECIAL INSTRUCTIONS: ADDRESS: ☐ RUSH in BUSINESS DAYS DATE NEEDED: SAMPLE SAFETY INFORMATION **: PHONE: CLIENT PROJECT: Are there any other known or suspected PROJECT NAME / #: safety hazards associated with these FAX: CLIENT CONTACT: samples other than those listed below? HBOI W/O & HPN: PURCHASE ORDER #: Yes (No) If Yes. SAMPLED BY: ANALYSES REQUESTED MATRIX PRESERVATION KEY DATE: 217197 KEY H = Hydrochloric Acid TIME: S = SolidN = Nitric Acid METHOD OF SHIPMENT: SL = SludgeS = Sulfuric Acid COOLER NO.(s) DW = Drinking SH = Sodium Hydroxide G = Grab P = Phosphoric Acid GW= Ground C = CompositeSW = SurfaceST = Sodium Thiosulfate O = Other U = None / Unpreserved WW = Waste**COMMENTS** SAMPLING SAMPLE PRESERVATIVE → ST SAMPLE LOCATION **Ψ TYPE** FIELD ID DATE | TIME **MATRIX** G. RECEIVED BY: **RELINQUISHED BY**** DATE: DATE: TIME: TIME: RECEIVED BY: RELINOUISHED BY: DATE: DATE: TIME: TIME: **RELINQUISHED BY:** DATE: RECEIVED FOR LAB BY: DATE: TIME: TIME: LAB NAME:~

PAGE

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

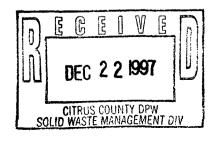
PRESENTED TO: CATHY WINTER

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

PROJECT MANAGER: DON HASH

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

DECEMBER 18, 1997





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 # 4009C00086

Sample Date/Lab ID: 12/10/97 76668001

Test Site #:____
Test Site Name: Leachate

Site Type: [] Background
[] Site Boundary
[] Intermediate
[] Compliance
[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	pH	150.1	12/15/97	7.1	S.U.	0.20		
900201	Total Suspended Solids	160.2	12/12/97	2.6	mg/L	2.0	υ	None
000620	Nitrate-Nitrogen	300.0	12/11/97	2.5	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/11/97	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	12/15/97	0.11	mg/L	0.050	U	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	12/14/97	0.92	mg/L	0.20	υ	H₂SO₄
000600	Total Nitrogen	351.2	12/18/97	3.5	mg/L	N/A	υ	H₂SO₄
000665	Total Phosphorus	365.4	12/14/97	2.5	mg/L	0.25	υ	H₂SO₄
000340	COD	410.4	12/12/97	32	mg/L	5.0	υ	H₂SO₄
80082	CBOD5	SM5210 B	12/11/97	7.7	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/10/97	< 1.0	CFU/100mL	1.0	υ	Na ₂ S ₂ O ₃



CHAIN OF CUSTODY RECORD

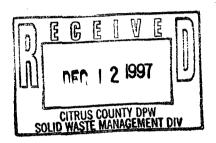
The ENVIRONMENTAL LABORATORY at Harbor Branch 5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

PHONE: -	352 352 352 NTACT:	1670 - 14/6 - 521 Jim	unty La 340 Fl. 34 - 5000 - 1204 Brunsu	460	DAT CLIE PROJ	NT IEC	EEDED: PROJECT: <u>Crtrus</u> TNAME/#: <u>Weekl</u> O&HPN:	200 4 Le	pagh	and ate	<u> </u>		☐ RUS SAMPL Are the safety he samples	H in E SAFET re any other are as so ther the	RUCTIONS: BUSINESS DAYS Y INFORMATION ** her known or suspected associated with these an those listed below? Yes,
SAMPLED DATE: 12	BY: 7.	Resir	iger	MATRI) KEY	x		RESERVATION KEY Hydrochloric Acid		(0) 5	Ky3	ANA	LYSE	S REQ	UESTI	ED .
TIME: // METHOD C COOLER N	OF SHIPM O.(s)	ENT:	G = Grab C = Composite O = Other	S = Solid SL = Sludge DW = Drink GW= Grour SW = Surfac WW = Wast	king nd ce	N = S = SH P = ST	Nitric Acid	No N	(5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6						COMMENTS
FIELD ID	SAMP DATE	LING TIME	SAMPLE TŸPE	MATRIX	x	#	PRESERVATIVE SAMPLE LOCATION	1)	H250.	+) (1)	
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REENTQUE	LD D1.	•			TIM			CLULIV.	LD DI.			,		L	ME:
RELINQUIS	SHED BY	•	<u></u>		DAT			RECEIV	ED FOR	LAB B	Y: /) ,			ATE: 12.11.97
_					TIM	E:		AB NA	ME:		_H	In	-		ME: 10:48

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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

DECEMBER 11, 1997



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 62-522.600 (11)

GMS # 4009C00086

Test Site #:_____

Test Site Name: Leachate

Sample Date/Lab ID: 12/03/97 10:10 (7650600)

Site Type: [] Background

[] Site Boundary

[] Intermediate [] Compliance

[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limit	Sample Filtered/ Unfiltered	Preservative Added
004000	pH	EPA 150.1	12/05/97	7.5	S.U.	0.20	U	None
900201	Total Suspended Solids	EPA 160.2	12/05/97	1.0	mg/L	1.0	υ	None
000620	Nitrite	EPA 300.0	12/05/97	ND	mg/L	0.044	U	None
000620	Nitrate	EPA 300.0	12/05/97	0.10	mg/L	0.060	U ~	None
000610	Ammonia	EPA 350.1	12/05/97	ND	mg/L	0.050	υ	None
000600	Total Nitrogen	EPA 351.2	12/10/97	1.2	mg/L	0.20	U	None
000625	Total Kjeldahl Nitrogen	EPA 351.2	12/08/97	1.1	mg/L	0.40	υ	None
000665	Total Phosphorus	EPA 365.4	12/08/97	3.5	mg/L	0.20	U	None
000340	COD	EPA 410.4	12/08/97	52	mg/L	5.0	υ	None
80082	CBOD5	SM5210 B	12/04/97	4.2	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/03/97	ND	CFU/100mL	1.0	U	None

[&]quot;Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

DEP Form 17-1.216(2)

Effective January 1, 1983

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: CITIOS County Landfill ADDRESS: P.O. Box 240 Leganto Fla 34460 DATE NEEDED: PHONE: 904-746-5000 CLIENT PROJECT: CITOS County Landfill FAX: 904-524-1204 PROJECT NAME/#: Weekly Leganate CLIENT CONTACT: Jim Brunswick PURCHASE ORDER #: HBOI W/O & HPN: 6506 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: TResinger MATRIX PRESERVATION KEY DATE: 12-3-91 KEY H= Hydrochloric Acid												BUSINESS DAYS AY INFORMATION ** ther known or suspected sociated with these an those listed below?			
SAMPLED	BY: <u> </u>	Resin	ger	MATRIX	P	RESERVATION KEY		.,	Q.	ANA	LYSE	S REQ	UESTI	ED	
DATE: <u>/ 2</u>	-3-9	2	j	KEY	H =	Hydrochloric Acid		كلا ط	143						
TIME:/_) • / 0			S = Solid		Nitric Acid	1/2/	730	6.7	/:-/	/		/		
METHOD C COOLER N		IENT:		SL = Sludge		Sulfuric Acid	K.		ii (Y		· /		/		
COOLEKIN	O.(s)		G = Grab	DW = Drinking GW= Ground		= Sodium Hydroxide Phosphoric Acid	OS X	XrX/	3/						
			C = Composite	SW = Surface		= Sodium Thiosulfate	C. X		\mathcal{W}						
			O = Other	WW = Waste		None / Unpreserved	01	10 V	<u>y</u>	/ /	/		<u> </u>	/ COMMENTS	
	SAMP	PLING	SAMPLE		#	PRESERVATIVE -	<u>. </u>	1						PH 7-1 2	
FIELD ID	DATE	TIME	TYPE	MATRIX	ļ <u>.</u>	SAMPLE LOCATION	<u> </u>							Temp 20 C	
	12/3	10:10	G	WW	3	Leachate									
		7/11							Y	·					
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DISTRIBUTION: WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up

PAGE _____OF___

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CEPT Form-or 17-601-50079 - Commission Wassengley Seasons of Paster Title Manney Commissing Assort	Please
Charles Case July 1, 1981	· · · · · ·
OER Addresses No.	
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SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

Part II - General Information

(1)	Month NOVEMBER Year 1997
(2)	Plant's DER Identification Number 40090086
(3)	Plant Name CENTRAL LANG TIL
	LEACHATE PLANT
(4)	Plant Address SK 44 5 MITES
	E, LECANTO
(5)	CITY LECON 40
(6)	County CITRUS.
(7)	Phone Number (352) 1746-2694
(8)	Permit Number 5-009-187229
(9)	Plant Type
(10)	Test Site Identification Number
(ii)	Fecal Coliform Sample Method
	And the second s
	Most Probable Number
(12)	Wiembrand Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse
(12)	K \ / A
	Type of Effluent Disposal or Reclaimed Water Reuse
(1 3)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable
(1 3)	Type of Effluent Disposal or Reclaimed Water Reuse
(1 3) (14)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Curriulative Days of Wet Weather Discharge
(13) (14)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Curriulative Days of Wet Weather Discharge Plant Staffing
(13) (14)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Curriulative Days of Wet Weather Discharge
(13) (14)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. 819 Evening Shift Operator Class Cert. No. Cert. No.
(13) (14)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Currulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. Night Shift Operator Class Cert. No.
(13) (14)	Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. Evening Shift Operator Class Cert. No.

-4	,	•	المحرود
, Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.024
(17) Permitted capacity	mgd	-	.030
(18) Three-month average daily flow	mga	-	.021
(19) Percent of permitted capacity	%		73%
(20) CBOD ₅ Effluent -	mg/L	080082	49
(21) CBOD ₅ Effluent	lbs/day		NA
(22) TSS Effluent	mg/L	900201	2.7
(23) TSS Effluent	lbs/day	-	N/A
(24) Minimum pH		-6 -	7.4
(25) Maximum pH		-	8.2
(26) Total N	mg/L	000600	1.0
(27) TKN	WAIT	U00625	98
(28) Ammonia (NH ₃ - N)	mg/L,	000610	4.05
(29) Nitrate	mg/L	071850	.05
(30) Total Phosphorus	mg/L	000665	4.1
(31) Minimum Chlorine Residual	mg/L	-	•5
(32) Maximum Chlorine Residual	mg/L	-	a. 2
(33) Other Effluent Parameters		`	NA
COD	my/L		49

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SOLID WASTE LEACHATE TREATMENT FACILITY Monthly Operating Report

(34)	}		<u> </u>													Mont	N	01E	n bë	Yea	199	17
Day of the Mouth	Flow (mgd)	Chlorine Residual alter Contact	Chlorine Residual atter Dechlorination	CBODs Inlluent (mg/L.)	TSS Influent (mg/L)	CBOD, Elluent (mg/L)	TSS Ellluent (mg/L)	pH Effluent	TKN Elluen (mg/L)	NH3 · N Effluen (mg/L)	Nitrate Ettluent (mg/L)	Total P Elliuen (mg/L)	Fecal Coliform (#/100ml)	COD	15th N						~	
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7	19557	2,2						7.8									1	 	 			
8	26425	.5						7.8														
9	N/R							7.8														
10	56204	.5 .5						7.8														
	21022	ا جُورًا						7,9												إنا		
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	a6603	.7						7.7			,—+				-							
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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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

DECEMBER 3, 1997



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 # 4009C00086

Sample Date/Lab ID: 11/25/97 76381001

Test Site #:_

Test Site Name: Leachate

[] Background Site Type:

[] Site Boundary

[] Intermediate

[] Compliance [X] Other: Leachate

Sample Method:

Grab, where applicable

							/	
Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>Filtered</u> / <u>Unfiltered</u>	Preservative Added
004000	ρĦ	150.1	11/26/97	8.2	S.U.	0.20	-	-
900201	Total Suspended Solids	160.2	11/28/97	< 1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	11/26/97	0.032	mg/L	0.030	υ	None
000620	Nitrite-Nitrogen	300.0	11/26/97	< 0.022	mg/L	0.022	υ	None
000610	Ammonia-Nitrogen	350.1	12/02/97	< 0.050	mg/L	0.050	υ	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	12/01/97	0.84	mg/L	0.20	ŭ	H ₂ SO ₄
000600	Total Nitrogen	351.2	12/02/97	0.87	mg/L	N/A	U	H2SQ.
000665	Total Phosphorus	365.4	12/01/97	2.1	mg/L	0.10	ប	H ₂ SO ₃
000340	COD	410,4	12/01/97	46	mg/L	5.0	ប	H ₂ SO ₄
80082	CBODS	SM5210 B	11/27/97	3.4	mg/L	2.0	บ	None
031616	Fecal Coliform	SM9222 D	11/25/97	< i.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

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

PHONE: FAX: CLIENT CO PURCHASE	-904 -904 -904 	10 F - 240 - 52 - 52	inty ha 40 10.344 6-5000 0-1204 Brunsw	ndfill 60 1	DATE NEEDED: CLIENT PROJECT: Crarus County Landfill PROJECT NAME / #: Weekly Leachar BOI W/O & HPN: PRESERVATION KEY ANALYSE								SPECIAL INSTRUCTIONS: RUSH inBUSINESS DAYS SAMPLE SAFETY INFORMATION ** Are there any other known or suspected safety hazards associated with these samples other than those listed below? YesNoIf Yes,				
SAMPLED	BY: 7. 1	esin	900	MATRIX	1				R	ANA	LYSE	S REQ	UESTI	ED			
SAMPLED DATE: TIME: METHOD C COOLER N	OF SHIPM O.(s)	ENT:	G = Grab C = Composite O = Other	KEY S = Solid SL = Sludge DW = Drinkii GW= Ground SW = Surface WW = Waste	N = S = SH P = ST	Hydrochloric Acid Nitric Acid Sulfuric Acid Sodium Hydroxide Phosphoric Acid Sodium Thiosulfate None / Unpreserved	erit (12 X	6. Y					COMMENTS			
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					TIME:		LAB NAME: 1 Suchous						TIME: 0430				

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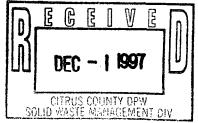
DISTRIBUTION: WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick up FORM 1936 - PRINTING BY HEARN

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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
SAC HRS#84470/E84492 FOR FECAL COLIFORMS

PROJECT MANAGER: DON HASH

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

November 26, 1997



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 # 4009C00086

Sample Date/Lab ID: 11/19/97 76244001

Test Site #:_____

Test Site Name: Leachate

141

Site Type: [] Background

[] Site Boundary

[] Intermediate

[] Compliance

[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	рН	150.1	11/22/97	7.9	S.U.	0.20		
900201	Total Suspended Solids	160.2	11/21/97	3.2	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	11/20/97	0.068	mg/L	0.060	บ	None
000620	Nitrite-Nitrogen	300.0	11/20/97	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	11/20/97	< 0.050	mg/L	0.050	บ	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	11/21/97	0.69	mg/L	0.20	U ·	H₂SO₄
000600	Total Nitrogen	351.2	11/25/97	0.76	mg/L	N/A	U	H₂SO₊
000665	Total Phosphorus	365.4	11/21/97	5.7	mg/L	0.50	U	H₂SO₄
000340	COD	410.4	11/21/97	34	mg/L	5.0	υ	H ₂ SO,
80082	CBOD5	SM5210 B	11/20/97	2.2	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	11/19/97	< 1.0	CFU/100mL	1.0	Ü	Na ₂ S ₂ O ₃

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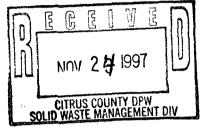
COMPANY: ADDRESS: PHONE: FAX: CLIENT CO PURCHASE	POA- 904- 904- 904- NTACT: ORDER	146 146 152 Jim	FI. 34. 5000 7-120	wick	DATE CLIEN PROJE	IT I	EEDED: PROJECT: <u>CIFOUS</u> FNAME/#: <u>WPE</u> O&HPN: <u>62</u> 4	Kly-	nty Lea	Lan	de la	/1	RUS SAMPL Are there safety has samples	H in E SAFET re any oth azards as other the	TRUCTIONS: BUSINESS DAYS TY INFORMATION ** ther known or suspected associated with these an those listed below? Yes,	
SAMPLED	_{BY:} 7.	Kes	inger	MATRIX		PI	RESERVATION KEY			X	ANA	LYSE	S REQ	UESTI	ED ====	\neg
DATE: //	-1 9-	97	- J.	KEY	Н	! =	Hydrochloric Acid		0 %	``						
TIME: 10	:00 A	m		S = Solid	- N	1 =	Nitric Acid	7	2,5	Q 1	/ /	/			<u> </u>	
METHOD C		IENT:	·	SL = Sludge			Sulfuric Acid	1 %	2,0,74							
COOLER N	O.(s)		G = Grab	DW = Drink GW= Groun	- 1		= Sodium Hydroxide Phosphoric Acid			$\gamma_{\lambda}/$		/				
	۶.	₹.	C = Composite	SW = Surfac			= Sodium Thiosulfate	Pari	×20%	Z						
			O = Other	WW = Wast			None / Unpreserved	1	2/0 X	У°,	/ /	/			/ COMMENTS	
	SAMP	LING	SAMPLE		#	ŧ .	PRESERVATIVE **							2.	PH 7.5	
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	11/19	10:00m	6	ww	3	3	Leachate	1	1						Ι	
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DISTRIBUT	TION: W	HITE - Fo	r HBOI; CAN	VARY - With R	eport;	PII	NK - To Courier; GOLD	ENROD -	Client at	Pick-up	FORM	1936 - PRII	NTING BY HE	ARN F	PAGEOF	· - }

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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
SAC HRS#84470/E84492 FOR FECAL COLIFORMS

PROJECT MANAGER: DON HASH

LABORATORY DIRECTOR:

N. MYRON GUNSALUS, JR

November 19, 1997



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 # 4009C00086

Sample Date/Lab ID: 11/12/97 76087001

			•
Cest Site #:		Site Type:	[] Background
	. 0		[] Site Boundary
Test Site Name: Leachate	11/01/		[] Intermediate
	141		[] Compliance
	$\iota \lor \eta$		[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Analysis Method Date		Analysis Result	Units	Practical Quant: Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	pН	150.11	11/18/97	8.0	S.U.	0.20		-
900201	Total Suspended Solids	160.2	11/14/97	4.2	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	11/13/97	<0.060	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	11/13/97	0.17	mg/L	0.044	υ	None
000610	Ammonia-Nitrogen	350.1	11/14/97	< 0.050	mg/L	0.050	U	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	11/14/97	1.4	mg/L	1.0	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	11/19/97	1.6	mg/L	N/A	U	H₂SO₄
000665	Total Phosphorus	365.4	11/14/97	2.3	mg/L	0.20	U	H₂SO₄
000340	COD	410.4	11/13/97	80	mg/L	5.0	U	H₂SO₄
80082	CBOD5	SM5210 B	M5210 B 11/13/97 <2.0 mg/L		2.0	U	None	
031616	Fecal Coliform	SM9222 D	11/12/97	14	CFU/100mL	1.0	υ	Na ₂ S ₂ O ₃

The ENVIRONMENTAL LABORATORY at Harbor Branch

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

PHONE: _ FAX : CLIENT COI	204- 904- 904- NTACT:	52, Jun	la: 3441 146-501 1204 Brunsu	00 C 00 P	CLIEN		Citrus week		ntry	Lar	-\$¢;\ 	<u>(</u>	CAMPL. Are there safety he samples	H in E SAFET re any oth azards as	RUCTION BUSINESS Y INFORM her known of sociated with those list Yes,	S DAYS ATION **: or suspected th these ted below?		
SAMPLED F	MPLED BY: Terry Resinger MATRIX PRESERVATION KEY TE: //- 12 - 97 ME: S = Solid N = Nitric Acid S = Solid N = Nitric Acid																	
DATE: //-	12-91	2	J	KEY				-	·×	× 1	$\dot{\gamma}$,						
TIME: METHOD O COOLER NO	OF SHIPM	ENT:	G = Grab $C = Composite$ $O = Other$	S = Solid SL = Sludge DW = Drinkin GW= Ground SW = Surface WW = Waste	ng S S P S	= Nitric Acid = Sulfuric Ac H = Sodium I = Phosphoric Γ = Sodium T = None / Un	id	C00.11							COMMENTS			
	SAMP	LING	SAMPLE	:	#	PRESE	RVATIVE:			1					PH	Temp		
FIELD ID	DATE	TIME	ТҮРЕ	MATRIX		SAMPLE I	OCATION V	U	H2501	<u> </u>					7.9	2000		
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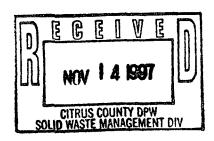
DISTRIBUTION: WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up

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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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

November 12, 1997



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

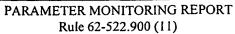
and accuracy limits.

• Sample Duplicate:

Analysis data demonstrated acceptable reproducibility

of laboratory processes.

CITRUS COUNTY CENTRAL LANDFILL



GMS # 4009C00086

Sample Date/Lab ID: 11/05/97 75950001

Test Site #:	m	Site Type:	[] Background
Test Site Name: <u>Leachate</u>	1411		[] Site Boundary [] Intermediate [] Compliance
			[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Analysis Method Date		Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered /Unfiltered	Preservative Added
004000	pH	150.11	11/11/97	8.1	S.U.	0.20		
900201	Total Suspended Solids	160.2	11/07/97	< 2.5	2.5	บ่	None	
000620	Nitrate-Nitrogen	300.0	11/07/97	0.062	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	11/07/97	< 0.022	mg/L	0.022	U	None
000610	Ammonia-Nitrogen	350.1	11/07/97	< 0.050	mg/L	0.050	U	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	11/07/97	<1.0	mg/L	1.0	บ	H₂SO₄
000600	Total Nitrogen	351.2	11/07/97	<1.0	mg/L	N/A	U	H₂SO₄
000665	Total Phosphorus	365.4	11/07/97	6.3	mg/L	0.50	U	H₂SO₄
000340	COD	410.4	11/07/97	36 mg/L		5.0	. ប	H₂SO₄
80082	CBOD5	SM5210 B	11/06/97	4.2	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	11/05/97	<1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

REQUEST FORM A

S. A. C. Environmental Laboratory, Inc.

5376 S. Suncoast Blvd. Homosassa, FL 34446 (352) 621-3513 • FAX (352) 621-3514

SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY — ENVIRONMENTAL																	
COLLECTION	DJECT/SITE NAME # COUNTY A DAY STILL MIT # TION OF COLLECTION SITE	# OF CONTAINERS	MATRIX CODE	SAMPLE METHOD	ОТНЕВ	/		<u> </u>	\$ /		/	ESTED (N	/		SHOWNS	FIELD CONTROL	CUSTODY SEAL
11-5 1010 Leach	rate	1	GV								Y						
FIELD COMMENTS: CARRIER	THE RIGHT TO RETURN UN		-														

RELINQUISHED BY (SIGNATURE)	RECEIVED BY (SIGNATURE)	DATE	TIME	LABORATORY COM	MENTS:	
To hame	The Control of the Co	1/2/1	16.14	emilion Company		
RELINQUISHED BY (SIGNATURE)	RECEIVED BY (SIGNATURE)	DATE	TIME		A CONTRACTOR OF THE CONTRACTOR	
			•	MATRIX CODES	LOGGED BY:	ACCT:#/PROJECT#
RELINQUISHED BY (SIGNATURE)	RECEIVED BY (SIGNATURE)	DATE	TIME	GW — GROUND WATER SW — SURFACE WATER	DATE: TIME:	
	,			SO — SOIL		
				SL — SLUDGE WW — WASTE WATER		

The ENVIRONMENTAL LABORATORY at Harbor Branch

PHONE: FAX : CLIENT CO PURCHASE	104 904 204 ONTACT: FORDER	nto - 74, - 52, Jim #:	Fla. 3. 5000 Bruns	Landfi 4460 wick	// DATE! CLIENT PROJEC	VEENER	CT: <u>C(</u> E/#: <u>W</u>	tru		unt				SPECIA RUS SAMPL Are there safety he samples	H in E SAFET re any ot azards as s other th	BUSINESS DAYS TY INFORMATION **: ther known or suspected ssociated with these ann those listed below? Yes,		
SAMPLED DATE: //-	BY: T.	Resir	1981	MATRIX	. []	PRESER	VATION I	KEY				ANA	LYSE	S REQ	UEST	ED		
DATE: //-	-5-9	<u>Z</u>	J	KEY			hloric Acid				<u>,</u> z	· /:	,					
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			G = Grab C = Composite	GW= Ground			oric Acid		* Sen XO									
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					TIME:			LAB NAME:						TIME: //25				

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

PAGE _____ OF ____

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OER Form	17-601.600mg	
Page 183_	Commence Wassessor Forsi Manager Operating Report	Please Please
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OER Acces	Mina Ale	
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SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

Part II - General Information

(1)	Month October Year 1997
(2)	Plant's DER Identification Number 40090086
(3)	Plant Name CENTRAL LANGET
	LESCHATE PANT
(4)	Plant Address OR HY 3 MT 5
	E. LECONTO
(5)	City LECONITO
(6)	County CATRUS.
(7)	Phone Number (352) 746 - 2694
(B)	Permit Number <u>5 - 009 - 187339</u>
(9)	Plant Type
(10)	Test Site Identification NumberN
1:18	Fecat Coliform Sample Method
(ii)	and a second second second second second second second second second second second second second second second
,	Type of Effluent Disposal or Reclaimed Water Reuse
(12)	Wiembrand Filter Most Procable Number
(12) (13)	Misembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated
(12) (13) (14)	Miembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable
(12) (13) (14)	Miembrane Filter Most Probable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge
(12) (13) (14)	Miembrane, Filter Most Procable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing
(12) (13) (14)	Miembrane Filter Most Procable Number Type of Effluent Disposal or Reclaimed Water Reuse Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Plant Staffing Day Shift Operator Class Cert. No. 8197
(12) (13) (14)	Miembrane: Filter Most Procable Number Type of Effluent Disposal or Reclaimed Water Reuse Mainted Wet Weather Discharge Activated Limited Wet Weather Discharge Activated Yes No X Not Applicable Cumulative Days of Wet Weather Discharge Mainted Wet Weather Discharge

	•		الهريت
Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mga	050053	:020
(17) Permitted capacity	mga	_	.030
(18) Three-month average daily flow	mgd	_	019
(19) Percent of permitted capacity	%		51%
(20) CBOD ₅ Effluent -	mg/L	080082	6.7
(21) CBOD₅ Effluent	lbs/day	-	N/A
(22) TSS Effluent	mg/L	900201	2',9
(23) TSS Effluent	lbs/day	-	AM
(24) Minimum pH			7,1
(25) Maximum pH		-	4.8
(26) Total N	:mg/L	000600	1.9
(27) TKN	WAL	U00625	1.8
(28) Ammonia (NH ₃ · N)	mg/L	000610	०.४
(29) Nitrate	mg/L	071850	0.38
(30) Total Phosphorus	mg/L	000665	8,2
(31) Minimum Chlorine Residual	mg/L	-	.5
(32) Maximum Chlorine Residual	mg/L	-	a.a
(33) Other Effluent Parameters		,	NA
COD	meyL		65,4

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SOLID WASTE LEACHATE TREATMENT FACILITY Monthly Operating Report

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(34)	; : '															Month	0	<u>04</u>		_ Year	199	17 l
Day of the Mouth	Flow (mgd)	Chlorine Residual alter Contact	Chlorine Residual after Dechlorination	CBODs Inlluent (mg/L)	TSS Inliuent (mg/L.)	CBOD, Elluent (mg/L)	TSS Ellluent (mg/L)	pH Effluent	TKN Effluen (mg/L)	NH3 · N Effluent (mg/L.)	Nitrate Effluent (mg/L.)	Total P Effluent (mg/L)	Fecal Coliform (#/100ml)	COD	Total N			•			*	
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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 ricimation is the complete and accurate Brunswick Citrus County Utility Division Telephone No. (Please Type) _ Company Name

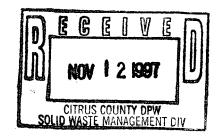
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5600 U.S. 1 NORTH FORT PIERCE, FLORIDA 34946

(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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

November 5, 1997



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 62-522.600 (11)

GMS # 4009C00086

Sample Date/Lab ID: 10/029/97 75780001

Test Site #:	Site Type:	[] Background
	0	[] Site Boundary
Test Site Name: Leachate	101	[] Intermediate
	1411	[] Compliance
	ι (\prime)	[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	рН	150.1	10/31/97	7.85	S.U.	0.20		
900201	Total Suspended Solids	160.2	10/31/97	< 2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	10/31/97	0.12	mg/L	0.060	υ	None
000620	Nitrite-Nitrogen	300.0	10/31/97	< 0.044	mg/L	0.044	υ	None
000610	Ammonia-Nitrogen	350.1	10/31/97	< 0.050	mg/L	0.050	บ	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	11/02/97	1.4	mg/L	1.0	υ	H₂SO₄
000600	Total Nitrogen	351.2	11/05/97	1.5	mg/L	N/A	υ	H₂SO₄
000665	Total Phosphorus	365.4	11/02/97	5.5	mg/L	0.50	U	H₂SO₊
000340	COD	410.4	11/04/97	39	mg/L	5.0	υ	H₂SO₄
80082	CBOD5	SM5210 B	10/30/97	4.1	mg/L	2.0	Ū	None
031616	Fecal Coliform	SM9222 D	10/29/97	12	CFU/100mL	1.0	U.	Na ₂ S ₂ O ₃

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 ADDRESS:	CITI	S COUN	ty Landf	<u>:11 </u>							SPECIAL INSTRUCTIONS: RUSH inBUSINESS DAYS						
	Lecon-	la, Fl.	34460	1 (CLIENT	PROJECT: Citrus	Count	y Lood	Fill			SAMPL. Are the	E SAFE re any o	TY INFOR ther know	R <i>MATIÖ!</i> 'n or susj	ected	
	NTACT:	Jim 1	3runswic			T NAME / #: Weekly /O & HPN:	780	MOTE.				samples	other t	han those f Yes,	listed be	low?	
SAMPLED	BY: <u>L.</u>	Galleq	her	MATRIX		PRESERVATION KEY				ANA	LYSE	S REQ	UEST	ED			
SAMPLED DATE: 10 TIME: METHOD (OF SHIPM	Z J IENT: <u>&</u> _	· .	KEY S = Solid SL = Sludge	N = S =	Hydrochloric Acid Nitric Acid Sulfuric Acid	Strate O LAN CON					/					
COOLER N	O.(s)		G = Grab C = Composite O = Other	DW = Drinkii GW= Ground SW = Surface WW = Waste	P = ST	= Sodium Hydroxide Phosphoric Acid = Sodium Thiosulfate = None / Unpreserved	Sixion	17 /X 10 /X	`\\\ 3\\						COMN	1ENTS	
FIELD ID	SAMI DATE	PLING TIME	SAMPLE TYPE	MATRIX	#	PRESERVATIVE → SAMPLE LOCATION ◆	- , ,	H2504						Cond	PH	Temo	
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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

PROJECT MANAGER: DON HASH

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

OCTOBER 30, 1997



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.

Due to a dilution of the matrix spike and matrix spike duplicate, precision could not be determined for Total Kjeldahl Nitrogen and Total Phosphorus. Accuracy was demonstrated in the laboratory control sample for both analyses.

Quality Assurance Manager

CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT Rule 62-522.600 (11)

GMS # 4009C00086

Sample Date/Lab ID: 10/022/97 75615001

Test	Site	#:	
1000	OILU	<i></i>	

Site Type:

rest site #:____

Test Site Name: Leachate

alal

[] Background

[] Site Boundary
[] Intermediate

[] Compliance

[X] Other: Leachate

Sample Method:

Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample <u>F</u> iltered / <u>U</u> nfiltered	Preservative Added
004000	pН	150.1	10/24/97	8.2	S.U.	0.20		-
900201	Total Suspended Solids	160.2	10/23/97	< 2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	10/24/97	0.14	mg/L	0.060	υ	None
000620	Nitrite-Nitrogen	300.0	10/24/97	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	10/28/97	< 0.050	mg/L	0.050	U	H₂SO₄
000625	Total Kjeldahl Nitrogen	351.2	10/28/97	2.5	mg/L	2.0	U	H₂SO₄
000600	Total Nitrogen	351.2	10/30/97	2.6	mg/L	0.20	U	H₂SO₄
000665	Total Phosphorus	365.4	10/26/97	5.7	mg/L	0.50	U	H₂SO₄
000340	COD	410.4	10/28/97	81	mg/L	5.0	υ	H₂SO₄
80082	CBOD5	SM5210 B	10/23/97	11	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	10/22/97	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

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

PHONE: FAX : CLIENT CC	NTACT:	Susan	ty Lagdf Metcolf	D	CLIENT	PROJECT: Citrus (T NAME / #: Week	Jounty SELS	Landi hate	sill sampl			☐ RUS SAMPL Are ther safety h samples	H in E SAFE? re any of azards a s other th	INSTRUCTIONS: Description: BUSINESS DAYS AFETY INFORMATION **: ny other known or suspected ords associated with these of them those listed below? If Yes,			
SAMPLED BY: 10/22/97			MATRIX KEY S = Solid SL = Sludge DW = Drinkir GW= Ground SW = Surface WW = Waste	H = Hydrochloric Acid N = Nitric Acid S = Sulfuric Acid SH = Sodium Hydroxide P = Phosphoric Acid ST = Sodium Thiosulfate			ANALY O SOLUTION Na.					ALYSES REQUESTED					
FIELD ID	SAME DATE	PLING TIME	SAMPLE TYPE	MATRIX	#	PRESERVATIVE → SAMPLE LOCATION	-انجار	U	Hz504				•	PH Cond Temp			
	10/22	1000	G-	NW	4	Leachate	11_	2	1			·		8.13 2003 26.1			
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RELIMQUI	SHED BY	: /		L	DATE:		RECEIV	ED BY:		. •				ATE:			
RELINQUI	SHED RY	•			ΓΙΜΕ: DATE:		RECEIV	ED FOR	LARRY	7:			i	IME:			
		÷		· · · · · ·	ΓIME:		LAB NA	A.	2	Circl		17	T	ME: 1400			
DISTRIBU	TION: W	HITE - Fo	r HBOI; ÇAI	VARY - With Re	port; P	INK - To Courier; GOLD	ENROD -	Client a	ıt Pick-u)	1036			PAGE OF			

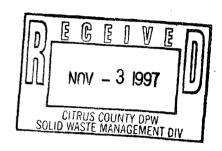
5600 U.S. 1 NORTH FORT PIERCE, FLORIDA 34946

(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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

OCTOBER 22, 1997 - WEEKLY OCTOBER 30, 1997 - QUARTERLY



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.

PART III ANALYTICAL RESULTS

Test Site Name: Leachate Effluent

Facility GMS #: 4009C00086

Test Site ID#: N/A

HBEL Sample ID: 75451001

Sampling Date/Time: 10/15/97 11:45

Report Period: 1997/Weekly

Well Purged (Y/N):

Well Type:

Background Intermediate Compliance

Other

Classification of Ground Water:

Ground Water Elevation (NGVD): _

or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Units/	Detection Limits	Units
004000	pН	G	N	EPA 150.1	10/17/97	8.4	S.U.	0.20	S.U.
900201	Total Suspended Solids	G	N	EPA 160.2	10/17/97	2.0	mg/L	1.0	mg/L
000620	Nitrate-Nitrogen	G	N	EPA 300.0	10/17/97	0.35	mg/L	0.06	mg/L
000620	Nitrite-Nitrogen	G ·	N	EPA 300.0	10/17/97	< 0.04	mg/L	0.04	mg/L
000610	Ammonia-Nitrogen	G	N	EPA 350.1	10/21/97	0.067	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/20/97	2.4	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	EPA 351.2	10/20/97	2.75	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	10/20/97	5.6	mg/L	0.50	mg/L
000340	COD	G	N	EPA 410.4	10/21/97	120	mg/L	5.0	mg/L
080082	CBOD5	G	N	SM5210 B	10/17/97	5.2	mg/L	2.0	mg/L
031616	Fecal Coliform	G	N	SM9222 D	10/17/97	4.0	CFU/100mL	1.0	CFU/100mL



PART III ANALYTICAL RESULTS

Facility GMS#: 4009C00086

Test Site ID#:

Well Name: Leachate Effluent

Classification of Ground Water:

Ground Water Elevation (NGVD):

O'CEANOCRAPTIC

MISTITUTION

Sampling Date/Time: 10/15/97 11:45

Report Period: Quarterly October 1997

Well Purged (Y/N):

Well Type: Background

Intermediate

Ground Water Elevation (NGVD):

O'CEANOCRAPTIC

MISTITUTION

ANSTITUTION

ANSTITUTION

OCEANOCRAPTIC

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OCEANOCRAPTIC

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Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis F	Result/Units	Detection	Limits/Units
004000	pH	G	N	EPA 150.1	10/17/97 15:36	8.4	SU	0.20	SU
070304	Total Dissolved Solids	G	N	EPA 160.1	10/16/97 20:10	1000	mg/L	20	mg/L
900201	Total Suspended Solids	G	N	EPA 160.2	10/17/97 9:20	2.0	mg/L	1.0	mg/L
000940	Chloride	G	N	EPA 300.0	10/17/97 11:30	400	mg/L	15	mg/L
000620	Nitrate	G	N	EPA 300.0	10/17/97 10:55	0.35	mg/L	0.060	mg/L
000620	Nitrite	G	N	EPA 300.0	10/17/97 10:55	ND	mg/L	0.044	mg/L
000610	Ammonia	G	N	EPA 350.1	10/21/97 11:11	0.067	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/20/97 15:37	2.4	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	EPA 351.2	10/22/97 11:27	2.7	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	10/20/97 15:37	5.6	mg/L	0.50	mg/L
000340	COD	G	N ·	EPA 410.4	10/21/97 11:00	120	mg/L	5.0	mg/L
032101	Bromodichloromethane	G	N	EPA 601	10/21/97 14:42	8.3	ug/L	1.0	υg/L
032104	Bromoform	G	N	EPA 601	10/21/97 14:42	20	ug/L	1.0	ug/L
032106	Chloroform	G	N	EPA 601	10/21/97 14:42	2.4	ug/L	1.0	ug/L
081521	Dibromochloromethane	G	N	EPA 601	10/21/97 14:42	20	ug/L	1.0	ug/L
082080	Total THMs	G	N	EPA 601	10/21/97 14:42	51	ug/L	1.0	ug/L
034030	Benzene	G	N	EPA 602	10/21/97 14:42	ND	ug/L	1.0	ug/L
034371	Ethylbenzene	G	N	EPA 602	10/21/97 14:42	ND	ug/L	1.0	ng/L
034010	Toluene	G	N	EPA 602	10/21/97 14:42	ND	ug/L	1.0	υg/L
081551	Total Xylenes	G	N	EPA 602	10/21/97 14:42	1.8	ug/L	1.0	ug/L
031616	Fecal Coliform	G	N	SM9222 D	10/15/97 16:26	4.0	CFU/100mL	. 1.0	CFU/100mL
001002	Arsenic	G	N	SW-846 6010	10/22/97 9:45	0.0099	mg/L	0.0050	mg/L
001007	Barium	G	N	SW-846 6010	10/22/97 9:45	0.012	mg/L	0.010	mg/L
001027	Cadmium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0010	mg/L

PART III ANALYTICAL RESULTS	HBEL Sample ID:	75451001 OCEANOGRAPHIC MISTITUTION	
Facility GMS# :4009C00086	Sampling Date/Time:		
Test Site ID# :	Report Period:	Quarterly October 1997	•
•	Well Purged (Y/N):		
Well Name: Leachate Effluent	Well Type:	Background	
Classification of Ground Water:	· · · · · · · · · · · · · · · · · · ·	Intermediate	
Ground Water Elevation (NGVD) :			
or (MSL):		Other	

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	, ,	Analysis Date/Time	Analysis Result/Units		Detection	Limits/Units
001034	Chromium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0020	mg/L
001045	Iron	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.040	mg/L
001051	Lead	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0030	mg/L
001147	Selenium	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0050	mg/L
001077	Silver	G	N	SW-846 6010	10/22/97 9:45	ND	mg/L	0.0010	mg/L
000929	Sodium	G	N	SW-846 6010	10/22/97 9:45	270	mg/L	1.0	mg/L
007900	Mercury	.G	N	SW-846 7470	10/22/97 14:15	ND	mg/L	0.00050	mg/L
077651	1,2-Dibromoethane	G	N	SW-846 8011	10/21/97 11:46	ND	ug/L	0.019	ug/L

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COMPANY ADDRESS:	Citru	s Coun	ty Landfi	<u>:11 </u>									SPECIAL INSTRUCTIONS: ☐ RUSH inBUSINESS DAYS					
PHONE: FAX:				D A	ATE N LIEŅT ROJEC	EEDED: PROJECT:_ T NAME / #: <u>L. Jee Kly</u>	Leac	hote				Are then safety h	re any ot azards a	her know ssociated	MATION **: n or suspected with these			
PURCHASE	ORDER	#:	Metcal	<u></u> н	BOI W	/O & HPN:	SO PART	59	15/			•			isted below?			
SAMPLED DATE: <u>Io</u> TIME:	BY: <u>Cr</u>	aig Ma	rtin	MATRIX	P	PRESERVATION KEY	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			ANA	ALYSES REQUESTED							
DATE: 10	15 97			KEY		Hydrochloric Acid												
METHOD (SE CHIDM	IENT:		S = Solid SL = Sludge		= Nitric Acid : Sulfuric Acid		<u> </u>		1818	/ /	′ /	./	′ /				
METHOD OF SHIPMENT: <u>couries</u> SL = Slu COOLER NO.(s) <u>48-122</u> DW = D						= Sodium Hydroxide	ر محور ا	\$ /	250	€,3		/						
	G = Grab GW= Gro				- 1	Phosphoric Acid	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			H								
			C = Composite O = Other	SW = Surface		= Sodium Thiosulfate	V	7,	SV, 03	2					COMMENTS			
<u> </u>	SAME	PLING	SAMPLE	WW = Waste	#	None / Unpreserved PRESERVATIVE →	<u> </u>		$\frac{\sqrt{\sqrt{3}}}{\sqrt{3}}$	/	·	(/		COMMENTS			
FIELD ID	DATE	_	ТҮРЕ	MATRIX	/"	SAMPLE LOCATION ♥	Na Thio		Sulfurio						011 -			
1100010					3		1	1	 					Cond	PH Temp 7.63 27.5			
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*				T	TIME: LAB NAME:				ing	درگاری	25	T	IME:	1553				
DISTRIBU	TION: W	HITE - Fa	or HBOI; CAI	NARY - With Rep	ort; P	INK - To Courier; GOLDI	ENROD -	Client	-	า	1	INTING BY HE	ARN	PAGE	OF			

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

ADDRESS: PHONE: FAX: CLIENT CO	PHONE: FAX: CLIENT CONTACT: Susan Metcalf PURCHASE ORDER #: SAMPLED BY: L. Gerken M						DATE NEEDED: CLIENT PROJECT: PROJECT NAME / #: Quarterly Effluent HBOI W/O & HPN: SYSI								SPECIAL INSTRUCTIONS: RUSH inBUSINESS DAYS SAMPLE SAFETY INFORMATION ** Are there any other known or suspected safety hazards associated with these samples other than those listed below? YesNo X If Yes,				
SAMPLED	BY: <u> </u>	Gerke	<u> </u>	MATRIX	X	P	RESERV	ATION K	EY		<u> </u>		ANA	LYSI	ES REQ	UESTI	E D		-
DATE: 10/15/97 K TIME: S = Sol METHOD OF SHIPMENT: Course SL = S COOLER NO.(s) 48-122 DW = 1 G = Grab GW = C C = Composite SW = S O = Other WW =					ge N = Nitric Acid S = Sulfuric Acid SH = Sodium Hydroxide und P = Phosphoric Acid ST = Sodium Thiosulfate				COW					COMMENTS					
FIELD ID	SAMI DATE	PLING TIME	SAMPLE TYPE	MATRIX		#		RVATIVE	→	NN03	HCI	U	No. Thio	U	Sulfuric.			PH Temp	_
	10/15	1145	G	ww		10	Leac	hate.		1	3 FOL	3		\	1			7.63 27.5	
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RELINQUIS	Alto	iti	>		DAT	E:	10/15	97		ECEIVI						TI	ATE: ME:		_
RELINQUISHED BY:				DA				R	ECEIVI	ED BY:			•			ATE:		_	
RELINQUISHED BY:				TIME: DATE: RECEIVED FOR LAB BY:					V	DATE: 10 15 2 (
KEELINGOISHES BT.				TIME: LAB NAME:					TIME: 16137										
DISTRIBUT	 TION: W	HITE - Fo	or HBOI, CAI	VARY - With F	ـــنــــا		INK - To C	ourier; G				Picky		Lin	BUT IN OV.		PAGE	<u>\</u> OF \	_

ANALYTICAL FIELD DATA

Project Name Citrus County Landfill	Page <u>2</u> of <u>2</u>
Date	

LOCATION	Time	рН	Specific Conductivity	Temperature	D.O.	Turbidity	Residual Chlorine	Comments
Location	1145	7.63	1927	27.5				
		,						
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·		F	ield Da	ta Sheet			1	of2	
Sampler (s) <u>Craig</u> Project Name <u>Cifr</u>	marti'n us Count	Date y Landfill	10/15	Sample Tin	ne	Field		012	
Sample Type (circle Sample Site Identific				gWtr. Sludge	Sedim	ent Soil	Other		
Sampling Method: Sampling Equipmen Site and Weather Co	nt:	None		ing Well: Bai	ler Pun	1p			
				4					
Field Instrumen	it <u>Beg</u> ini	ning Calibra	tion			•			
pH meter	(Yes) N	o Buffer	4.0	·	7.0	6.99	10.0	9.97	Slope
Conductivity meter	(Yes) N	o Buffer	147		1414				97.6
Turbidity meter	Yes N		0.5		5.0		_ 20		
DO meter	Yes N	o Temp C°			Adjust		from		i
Field Filtered: Yes	(No)	Duplica	ate: Yes	No	Field	Decontar	nination:	Yes (10)
Parameter		Sample Cor	tainers		pH Ch	eck	Well Dia	meter	Multiplier
Nutrient	Plastic - I	H₂SO₄			<2		-		0.092
Metals	Plastic - I	HNO₃			<2				0.163
Sulfide		NaOH / Zn Aceta			>12				0.653
Cyanide	Plastic - I	NaOH / (NO Sulf	ide) / Asc	corbic Acid	>12				1.469
Bacteriological	Glass - T	hiosulfate (DW I	NO Chlor	rine Res.)			0,0 12.01		
Oil and Grease	Glass - H	CI			<2				
TRPH	Glass - H	CI			<2				
VOA	Glass - H	CI			<2				
SVOC		DRW NO Chlorin	e Res.)		-				
OtherPhenols	Glass-	H3 P04			(2	· .			
Other	,								•
Field Instrument pH meter Conductivity meter Turbidity meter DO meter General Site Info	Yes N Yes N Yes N Yes N	o Buffer o Buffer o Buffer o Temp C°	4.0 147 0.5	er of t	7.0 1414 5.0 Adjust heck	nain of	10.0 12900 20 from	<u> </u>	

HARBOR BRANCH ENVIRONMENTAL LABORATORY

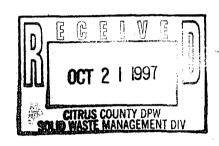
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(561) 465-2400, Ext. 285 or 448 FAX (561) 467-1584

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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

OCTOBER 16, 1997



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

PART III ANALYTICAL RESULTS

Test Site Name: Leachate Effluent

HBEL Sample ID: 75272001

OCEANOGRAPHIC INSTITUTION

Facility GMS #: 4009C00086 Test Site ID#: N/A Sampling Date/Time: <u>10/09/97 75272001</u>

Report Period: 1997/Weekly

Well Purged (Y/N): __

Well Type:

Background Intermediate Compliance Other

Ground Water Elevation (NGVD): ______(ft)
or (MSL):

Classification of Ground Water:_____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limits	Units
004000	рН	G	N	EPA 150.1	10/13/97	8.3	S.U.	0.20	S.U.
900201	Total Suspended Solids	G	N	EPA 160.2	10/11/97	5.5	mg/L	5.0	mg/L
000620	Nitrate-Nitrogen	G	N	EPA 300.0	10/11/97	< 0.60	mg/L	0.60	mg/L
000620	Nitrite-Nitrogen	G	N	EPA 300.0	10/11/97	< 0.44	mg/L	0.44	mg/L
000610	Ammonia-Nitrogen	G	N	EPA 350.1	10/13/97	< 0.050	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/14/97	1.4	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	EPA 351.2	10/15/97	1.4	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	10/14/97	5.2	mg/L	0.50	mg/L
000340	COD	G	N	EPA 410.4	10/13/97	45	mg/L	5.0	mg/L
080082	CBOD5	G	N	SM5210 B	10/10/97	9.1	mg/L	2.0	mg/L
031616	Fecal Coliform	G	N	SM9222 D	10/09/97	< 1.0	CFU/100mL	1.0	CFU/100mL

Fiel	d D	ata	Sh	eet
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		Field Data Sheet		
Sampler (s) Project Name	uenst. Da	ite 0 9 9 Fample Ti	me Field	d ID#
Sample Type (circle Sample Site Identific	one): WW SW GW	DW ReagWtr Sludg	e Sediment Soi C	Other
Sampling Method: Sampling Equipmen Site and Weather Co	it:	Monitoring Well: B	ailer Pump E, wind @	5-10; dry
Field Instrument pH meter Conductivity meter Turbidity meter DO meter Field Filtered: Yes	No Buffer Yes No Buffer Yes No Buffer Yes No Buffer Yes No Temp	4.0 147 0.5	1414) 4/2-14 5.0 Adjust	9 10.0 10.00 Slope 11312900 97 20 from amination: Yes No
Parameter	Sample	Containers	pH Check	
Nutrient	Plastic - H ₂ SO ₄	Contanters	<2	Well Diameter Multiplie
Metals	Plastic - HNO ₃		<2	1.5 inches 0.092
Sulfide	Plastic - NaOH / Zn A	cotato	>12	2.0 inches 0.163
Cyanide		Sulfide) / Ascorbic Acid	>12	4.0 inches 0.653
Bacteriological		OW NO Chlorine Res.)	 - ''- - 	6.0 inches 1.469
Oil and Grease	Glass - HCl	DW NO Officiale (tes.)	<2	
TRPH	Glass - HCl		<2	
VOA	Glass - HCl		<2	
SVOC	Glass - (DRW NO Ch	Iorina Ras \	12	
OtherPhenols		ionne ixes.)	(2	
Other	G1055- H3 PO4		1,5	
pH meter Conductivity meter Turbidity meter DO meter	Yes No Buffer Yes No Buffer Yes No Buffer Yes No Temp	4.0 147 0.5 C°	7-9 1414 4 3-14 5.0 Adjust	10.0 9,99 Slope 13 12900 99. from 99.
General Site Info	ormation/Commen	ts		
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ANALYTICAL FIELD DATA

	Project Name C	itus 17	Cr.	Lean	hate '	Week	ly	Page_	of
	LOCATION	Time	Нq	Specific Conductivity	Temperature	D.O.	Turbidity	Residual Chlorine	Comments
L	for etalias	9:45	7,25	1500	26.30				
	VV			·					-
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CHAIN OF CUSTODY RECORD

The ENVIRONMENTAL LABORATORY at Harbor Branch

SAMPLED BY: DATE: 10 9 97 ITME: MATRIX KEY S = Solid SL = Sludge DW = Drinking G = Grab C = Composite C = Composite C = Composite FIELD ID DATE TIME TYPE MATRIX FRESERVATION KEY H = Hydrochloric Acid SL = Sludge DW = Drinking SW = Soriund SW = Surface WW = Waste U = None / Unpreserved FRESERVATION KEY H = Hydrochloric Acid SS = Sulfuric Acid SS = Sulfuric Acid ST = Sodium Hydroxide P = Phosphoric Acid ST = Sodium Thiosulfate U = None / Unpreserved FRESERVATION KEY H = Hydrochloric Acid ST = Sodium Hydroxide P = Phosphoric Acid ST = Sodium Thiosulfate U = None / Unpreserved FRESERVATION X ST U S Ph S C: Ph S C: T	COMPANY ADDRESS: PHONE: FAX: CLIENT CO PURCHASE		ACT:		Count		CLII PRO	ENT	EEDED: PROJECT:_ T NAME / # /O & HPN:_	_ Zer	Λ .	•	Week	ty		☐ RUS SAMPL Are the safety has samples	E SAFET ere any ot nazards a s other th	BUSINE TY INFOR her know ssociated an those	ONS: ESS DAYS RMATION ** on or suspected with these listed below?	
TIME: METHOD OF SHIPMENT: S = Solid SL = Sludge DW ≈ Drinking COOLER NO.(s) G = Grab C = Composite O = Other	SAMPLED	ŖΥ		Dien	wt.	MATRI								ANA	LYSE					
FIELD ID DATE TIME TYPE MATRIX SAMPLE LOCATION & ST U S Ph' SC:	TIME: METHOD C) OF S O.(:	SHIPM s)	IENT:	G = Grab C = Composite O = Other	S = Solid SL = Sludg DW = Drin GW= Groun SW = Surfa	king nd ice	N = S = SH P = ST	Nitric Acid Sulfuric Ac Sulfuric Ac Sodium H Phosphoric Sodium Tl	d ydroxide Acid niosulfate	45	760	S						7 COMMEN	TS
	EIEI D ID	l				MATDI	v	#			ST	()	5					DL.	C 6 1	
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RELINQUISHED BY: DATE: RECEIVED FOR LAB BY: DATE: DATE	RELINQUIS	SHE	ED BY	:		,							LAB B	Y: 1	1	'	· L		2-997	
TIME: LAB NAME: Natl TIME: 1310							TIM	IE:			LAB NA	ME:	<u> </u>	/Va	I		T	IME:	1310	اا

HARBOR BRANCH ENVIRONMENTAL LABORATORY

OCEANOGRAPHIC INSTITUTION

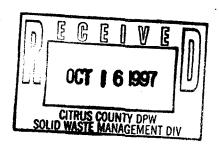
5600 U.S. 1 NORTH FORT PIERCE, FLORIDA 34946

(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

LABORATORY DIRECTOR: N. MYRON GUNSALUS, JR.

OCTOBER 10, 1997



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

PART III ANALYTICAL RESULTS

Facility GMS #: 4009C00086

Classification of Ground Water:_

Test Site ID#:____

Well Name: Leachate

HBEL Sample ID: 75127001

Sampling Date/Time: 10/02/97 75127001

Report Period: 1997/Weekly

Well Purged (Y/N):

Well Type:

☐ Background

☐ Intermediate

☐ Compliance ☐ Other

Ground Water Elevation (NGVD): ______(ft)

or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Units	Detection Limits	Units
004000	pН	G	N	EPA 150.1	10/03/97	8.2	S.U.	0.20	S.U.
900201	Total Suspended Solids	G	N	EPA 160.2	10/06/97	< 5.0	mg/L	5.0	mg/L
000620	Nitrate-Nitrogen	G	N	EPA 300.0	10/04/97	0.20	mg/L	0.060	mg/L
000620	Nitrite-Nitrogen	G	N	EPA 300.0	10/04/97	< 0.044	mg/L	0.044	mg/L
000610	Ammonia-Nitrogen	G	N	EPA 350.1	10/07/97	0.066	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/09/97	1.1	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	. EPA 351.2	10/10/97	1.3	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	10/09/97	6.8	mg/L	2.0	mg/L
000340	COD	G	N	EPA 410.4	10/05/97	42	mg/L	5.0	mg/L
80082	CBOD5	G	N	SM5210 B	10/03/97	4.0	mg/L	2.0	mg/L
031616	Fecal Coliform	G	N	SM9222 D	10/02/97	< 1.0	CFU/100mL	1.0	CFU/100mL



Christian Caboratory		Revision 005 03/07/97
,	Field Data Sheet	
Sampler (s) Project Name	ienst Gallagpate 0/2/97 sample Tin	me 11:08 Field ID#
Sample Type (circle Sample Site Identifi	one) WW SW GW DW ReagWtr. Sludge cation	e Sediment Soil Other
Sampling Method Sampling Equipmer Site and Weather Co	nt:	iler Pump y, Calm
Field Instrument pH meter Conductivity meter Turbidity meter DO meter Field Filtered: Yes	Yes No Buffer 147 Yes No Buffer 0.5	7.0 0.99 10.0 9.99 Shot = 7.0 10.0 9.0 9.0 Shot = 7.0 10.0 Shot = 7.0 Shot =
Parameter	Sample Containers	pH Check Well Diameter Multiplier
Nutrient	Plastic - H ₂ SO ₄	
Metals	Plastic - HNO ₃	1.5 inches 0.092
Sulfide	Plastic - NaOH / Zn Acetate	2.0 inches 0.163
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	4.0 inches 0.653 6.0 inches 1.469
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	0.0 inches 1.409
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
OtherPhenols		(2
Other	UM35 Ita 94	
pH meter Conductivity meter Turbidity meter DO meter	nt Fnding Calibration Yes No Buffer 4.0 Yes No Buffer 0.5 Yes No Temp C° Drmation/Comments	70 6,99 10.0 9,99 Slope 1414 1410-141312900 97, Adjust from

ANALYTICAL FIELD DATA

Project Name O	trus?	<i>D</i> .a	ystol R	nØb (.	diffe		Page _	of
LOCATION	Time	рН	Specific Conductivity	Temperature	D.O.	Turbidity	Residual Chlorine	Comments
LOCATION Leashate	11:08	7.68	1519	27.6				
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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: Cuture Calletter Company: Cuture Calletter Company: Cuture Calletter Contact: Phone: Client Project: Project Name / #: Cuture Sample Safety hazard: Samples other Purchase Order #: HBOI W/O & HPN: Size No.													H in E SAFET Te any ot azards a cother the	BUSINES TY INFORM her known ssociated wan those lis	S DAYS IATION **: or suspected ith these	,
SAMPLED BY: Gallacles Dienst MATRIX						PRESERVATION KEY		R ANALYS				SES REQUESTED				
DATE: 10 - 2 - 97 () TIME:				KEY S = Solid SL = Sludge DW = Drinkin GW= Ground SW = Surface WW = Waste	g N = S = SH	= Hydrochloric Acid = Nitric Acid = Sulfuric Acid = Sodium Hydroxide = Phosphoric Acid = Sodium Thiosulfate = None / Unpreserved						COMMENTS				rs
FIELD ID	SAMP DATE	LING TIME	SAMPLE TYPE	MATRIX	#	# PRESERVATIVE → SAMPLE LOCATION ↓		ST	S					Ph:	So;	; 7
100	2/97	11:08	G.	WW.	3	Leachate								7,68	1519	28
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DISTRIBU'	TION: W	HITE - Fo	r HBOI; CAI	NARY - With Rep	oort, P	INK - To Courier; GOLL	DENROD -	(lient al	Pick-uj	p FORM	1936 PRI	TING BY HE	ARN	PAGE	OF_	