



PASCO COUNTY, FLORIDA

DADE CITY (352) 521-4274
LAND O' LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8145

UTILITIES SERVICES BRANCH
PUB. WKS./UTILITIES BLDG. S-213
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

November 14, 1996

Ms. Allison Amram
Environmental Specialist III
Waste Management Section
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: West Pasco Class III Sanitary Landfill
Leachate Monitoring
Semester II, 1996

RECEIVED
NOV 18 1996

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Dear Ms. Amram:

Enclosed please find the analytical results for the parameters listed in 62-701(8)(c) Florida Administrative Code conducted on the two leachate tanks at the West Pasco Class III Landfill. These results are submitted for the second semester sampling period.

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/as

Enclosure

cc: Chongman Lee, Florida Department of Environmental Protection, Waste Management Section, Twin Towers Bldg., 2600 Blair Stone Road, Tallahassee, FL 32399-2400
Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director
Vincent Mannella, Solid waste Facility Manager

Florida Department of Environmental Protection

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

DEP Form # 62-522.600(1)
Form Title GROUND WATER MONITORING REPORT
Effective Date _____
DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name Hays Road Class III Landfill
Address 1275 Hays Road
City Spring Hill, FL Zip 34610
Telephone Number ()
- (2) The GMS Identification Number 4051M30035
- (3) DEP Permit Number S051-182279
- (4) Authorized Representative Name Candia E. Mulhern
Address 8864 Government Drive
City New Port Richey, FL Zip 34654
Telephone Number (813) 847-8902
- (5) Type of Discharge Landfill
- (6) Method of Discharge Unknown

Certification

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

Date: 08/28/96

Candia E. Mulhern
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

- Sample Organization Comp QAP # _____
- Analytical Lab Comp QAP #/HRS Certification # 870167 G/7 54237, E44123
*Comp QAP #/HRS Certification # 870202 G Potable BTL #1-86137 & 86418 Env. 86035
- Lab Name Pasco County Environmental Laboratory
- Address 8864 Government Drive, New Port Richey, FL 34654
- Phone Number (813) 847-8902

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

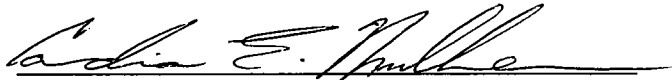
PART I - GENERAL INFORMATION

- (1) Facility Name: HAYS ROAD CLASS III LANDFILL
Address: 1275 HAYS ROAD
City, State, Zip: Spring Hill, FL 34610
Telephone Number: _____
- (2) The GMS Identification Number: 4051M30035
- (3) DEP Permit Number: S051-182279
- (4) Authorized Representative Name: Candia E. Mulhern
Address: 8864 Government Drive
City, State, Zip: New Port Richey, FL 34654
Telephone Number: (813) 847-8902
- (5) Type of Discharge: Landfill
- (6) Method of Discharge: Unknown

Certification

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

Date: 08/28/96


Signature of Owner or Authorized Representative

PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP #/HRS Certification #8702026; 86418, E86035 Broward Testing Laboratory

Comp QAP #/HRS Certification #910150; E86278 Toxicon Corporation

Lab Name: Broward Testing Laboratory

Address: 4416 NE 11th Ave., Ft. Lauderdale, FL 33334

Phone Number: (216) 449-2525

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035 Sampling Date/Time: 07/19/96 @ 1000

Test Site ID #: NA Report Period: 1996 / Quarter III
(year/quarter)

Well Name: Tank #1 Well Purged (Y/N): YES

Classification of Groundwater: NA Well Type: () Background
() Intermediate
() Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): _____

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NOV 18 1996
Department of Environmental
Protection
BY Limits/Unit WEST DIST. INC.

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/29/96 1600	<0.15 mg/L	0.15 mg/L
000940	Chloride	"	"	SM 4500Cl-B	07/24/96 1000	453 mg/L	0.15 mg/L
000400	pH-Field	"	"	EPA 150.1	07/19/96 1000	6.55 Std. Units	0.01 Std. Units
070300	Total Dis. Solids	"	"	SM 2540C	07/23/96 1500	1,800 mg/L	1 mg/L
000344	Dissolved Oxygen	"	"	SM 4500 O G	07/19/96 1000	0.4 mg/L	0.01 mg/L
000410	Bicarbonate	"	"	EPA 310.1	07/22/96 1400	673 mg/L	1 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/19/96 1000	2,686 μ mhos/cm	0.00 μ mhos/cm
000010	Temperature (Field)	"	"	SM 2550B	07/19/96 1000	28.9 °C	0 °C
000610	Ammonia	"	"	EPA 350.1	07/30/96 1000	4.04 mg/L	0.07 mg/L
900216	Color	"	"	EPA 110.2	07/23/96 1100	125 PCU	0.0 PCU
001045	Iron	"	"	EPA 236.1	07/29/96 1540	0.24 mg/L	0.001 mg/L
000929	Sodium	"	"	EPA 273.1	07/29/96 1430	342 mg/L	0.01 mg/L
071900	Mercury	"	"	EPA 245.1	07/31/96 1540	<0.0005 mg/L	0.0005 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/30/96 1630	0.02 mg/L	0.02 mg/L

*Attach Laboratory Reports

PART III - ANALYTICAL RESULTS

Facility GMS #: _____

Sampling Date/Time: 7-19-96 10:00

Test Site ID #: _____

Report Period: _____
(Year/Quarter)WELL NAME: Class III Landfill Tank-1

Well Type: () Background

Classification of Ground Water: _____

() Intermediate

Ground Water Elevation (NGVD): _____

() Compliance

or (MSL): _____

() Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	* Analysis Results/ Units (mg/l)	Detection Limits/ Units (mg/l)
00010	Temperature (field)			EPA 170.1		degree,C	degree,C
00400	pH (field)			EPA 150.1		Std.Units	Std.Units
	Water Level Elev.			NA		Ft. NGVD	Ft. NGVD
00094	Specific Cond. (field)			EPA 120.1		μmhos/cm	μmhos/cm
01095	Antimony			EPA 204.2	8-05-96	ND	0.150
01000	Arsenic			EPA 206.2	8-05-96	ND	0.100
01005	Barium			EPA 208.2	8-05-96	0.080	0.025
01010	Beryllium			EPA210.2	8-05-96	ND	0.004
01025	Cadmium			EPA 213.2	8-05-96	ND	0.010
01030	Chromium			EPA 218.2	8-05-96	0.020	0.010
01035	Cobalt			EPA 219.2	8-05-96	ND	0.010
01040	Copper			EPA 220.1	7-26-96	ND	0.050
01049	Lead			EPA 239.2	8-05-96	ND	0.050
01065	Nickel			EPA 249.1	7-26-96	ND	0.050
01145	Selenium			EPA 270.2	8-05-96	ND	0.250
01075	Silver			EPA 272.2	8-05-96	ND	0.010
01057	Thallium			EPA 279.2	7-29-96	ND	0.005
01085	Vanadium			EPA 286.2	8-05-96	ND	0.010
01090	Zinc			EPA 289.1	7-30-96	ND	0.050

* Attach Laboratory Reports

PART III - ANALYTICAL RESULTS (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	* Analysis Results/ Units ($\mu\text{g/l}$)	Detection Limits/ Units ($\mu\text{g/l}$)
81552	Acetone			EPA 8260A	7-24-96	50.2	50.0
34215	Acrylonitrile			EPA 8260A	7-24-96	ND	5.00
34235	Benzene			EPA 8260A	7-24-96	ND	5.00
N/A	Bromochloromethane			EPA 8260A	7-24-96	ND	5.00
32101	Bromodichloromethane			EPA 8260A	7-24-96	ND	5.00
32104	Bromoform			EPA 8260A	7-24-96	ND	5.00
77041	Carbon disulfide			EPA 8260A	7-24-96	7.2	5.00
32102	Carbon tetrachloride			EPA 8260A	7-24-96	ND	10.0
34301	Chlorobenzene			EPA 8260A	7-24-96	ND	5.00
34311	Chloroethane			EPA 8260A	7-24-96	ND	10.0
32106	Chloroform			EPA 8260A	7-24-96	ND	5.00
32105	Dibromochloromethane			EPA 8260A	7-24-96	ND	5.00
38761	1,2-Dibromo-3-chloropropane			EPA 504	7-23-96	ND	0.0200
77651	1,2-Dibromoethane			EPA 504	7-23-96	ND	0.0200
34537	o-Dichlorobenzene			EPA 8260A	7-24-96	ND	5.00
34571	p-Dichlorobenzene			EPA 8260A	7-24-96	ND	5.00
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	7-24-96	ND	50.0
34496	1,1-Dichloroethane			EPA 8260A	7-24-96	ND	5.00
32103	1,2-Dichloroethane			EPA 8260A	7-24-96	ND	5.00
34502	1,1-Dichloroethene			EPA 8260A	7-24-96	ND	5.00
81686	cis-1,2-Dichloroethene			EPA 8260A	7-24-96	ND	5.00
34546	trans-1,2-Dichloroethene			EPA 8260A	7-24-96	ND	5.00
34541	1,2-Dichloropropane			EPA 8260A	7-24-96	ND	5.00
34704	cis-1,3-Dichloropropene			EPA 8260A	7-24-96	ND	5.00
34699	trans-1,3-Dichloropropene			EPA 8260A	7-24-96	ND	5.00
78113	Ethylbenzene			EPA 8260A	7-24-96	ND	5.00
77103	2-Hexanone			EPA 8260A	7-24-96	10.4	10.0
34413	Methyl bromide			EPA 8260A	7-24-96	ND	5.00

* Attach Laboratory Reports

PART III - ANALYTICAL RESULTS (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	* Analysis Results/ Units ($\mu\text{g/l}$)	Detection Limits/ Units ($\mu\text{g/l}$)
34418	Methyl chloride			EPA 8260A	7-24-96	ND	5.00
77596	Methylene bromide			EPA 8260A	7-24-96	ND	10.0
34423	Methylene chloride			EPA 8260A	7-24-96	ND	10.0
81595	Methyl ethyl ketone			EPA 8260A	7-24-96	ND	10.0
49262	Methyl iodide			EPA 8260A	7-24-96	ND	10.0
78133	4-Methyl-2-pentanone			EPA 8260A	7-24-96	ND	10.0
77128	Styrene			EPA 8260A	7-24-96	ND	5.00
77562	1,1,1,2-Tetrachloroethane			EPA 8260A	7-24-96	ND	5.00
34516	1,1,2,2-Tetrachloroethane			EPA 8260A	7-24-96	ND	5.00
34476	Tetrachloroethene			EPA 8260A	7-24-96	ND	5.00
78131	Toluene			EPA 8260A	7-24-96	ND	5.00
34506	1,1,1-Trichloroethane			EPA 8260A	7-24-96	ND	5.00
34511	1,1,2-Trichloroethane			EPA 8260A	7-24-96	ND	5.00
34485	Trichloroethene			EPA 8260A	7-24-96	ND	5.00
34488	Trichlorofluoromethane			EPA 8260A	7-24-96	ND	5.00
77443	1,2,3-Trichloropropane			EPA 8260A	7-24-96	ND	5.00
77057	Vinyl acetate			EPA 8260A	7-24-96	ND	5.00
39175	Vinyl chloride			EPA 8260A	7-24-96	ND	5.00
81551	Xylenes			EPA 8260A	7-24-96	ND	5.00

* Attach Laboratory Reports



BROWARD TESTING LABORATORY, INC.

4416 N.E. 11TH AVE., FORT LAUDERDALE, FLORIDA 33334



Date: 07/25/96 Report #: 7070306 Laboratory ID #: 86418

Client: PASCO COUNTY UTILITIES

ATTN: CANDY MULHERN

8864 GOVERNMENT DR.

NEW PORT RICHEY, FL 34654-

Date Collected: 07/19/96

Time Collected: 09:30

SOURCE: CLASS III LANDFILL

TANK-2

pH=6.69

Date received at lab: 07/22/96

Time received at lab: 10:35

Collected by : CC

ENVIRONMENTAL LABORATORY CERTIFICATION NUMBER 86035 LABORATORY PARAMETER ANALYSIS REPORT

Analysis Performed	Method	Analysis Result (mg/l)	Anal Date
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PARAMETERS WERE SUBCONTRACTED TO TOXIKON LABS, SEE ATTACHED.

Gary Meyer, Lab Director

Received: 07/22/96

Results by Sample

SAMPLE ID		<u>CLASS III LANDFILL TANK-2</u>		SAMPLE # <u>02</u>		FRACTIONS: <u>A</u>	
				Date & Time Collected		<u>07/19/96 09:30:00</u> Category <u>LIQUID</u>	
AG	ND	AS	ND	BA	ND	BE	ND
mg/L DL=0.010		mg/L DL=0.100		mg/L DL=0.025		mg/L DL=0.004	
8/5		8/5		8/5		8/5	
CD	ND	CO	ND	CR	ND	CU	ND
mg/L DL=0.010		mg/L DL=0.050		mg/L DL=0.050		mg/L DL=0.050	
8/5		7/26		7/26		8/5	
NI	ND	PB	ND	SB	ND	SE	ND
mg/L DL=0.010		mg/L DL=0.150		mg/L DL=0.250			
8/5		8/5		8/5			
TL	ND	V	ND	ZN	ND		
mg/L DL=0.005		mg/L DL=0.010		mg/L DL=0.050			
7/29		8/5		7/30			

7070306

Received: 07/22/96

Results by Sample

SAMPLE ID CLASS III LANDFILL TANK-2 FRACTION 02A TEST CODE 504 NAME EDB AND DBCP BY GC
7070306 Date & Time Collected 07/19/96 09:30:00 Category LIQUID

EPA METHOD 504

PARAMETER	RESULT	DETECT LIMIT	CAS NUMBER
ETHYLENE DIBROMIDE (EDB)	<u>ND</u>	<u>0.0200</u>	106-93-4
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	<u>ND</u>	<u>0.0200</u>	96-12-8

NOTES AND DEFINITIONS FOR THIS REPORT

DATE RUN..... 07/23/96

INSTRUMENT..... HP-2UNITS..... ug/L

ND = NOT DETECTED AT DETECTION LIMITS

Received: 07/22/96

Results by Sample

SAMPLE ID CLASS III LANDFILL TANK-2 FRACTION 02A TEST CODE 8260A NAME PURGEABLE ORGANICS VOA
 7070306 Date & Time Collected 07/19/96 09:30:00 Category LIQUID

EPA 8260A PURGEABLE ORGANICS

	RESULT	LIMIT		RESULT	LIMIT
Acetone	ND	50.0			
Acrylonitrile	ND	5.00	Ethylbenzene	ND	5.00
Benzene	ND	5.00	2-Hexanone	ND	10.0
Bromochloromethane	ND	5.00	Methyl bromide	ND	5.00
Bromodichloromethane	ND	5.00	Methyl chloride	ND	5.00
Bromoform	ND	5.00	Methylene bromide	ND	10.0
Carbon disulfide	ND	5.00	Methylene chloride	ND	10.0
Carbon tetrachloride	ND	10.0	Methyl ethyl ketone	ND	10.0
Chlorobenzene	ND	5.00	Methyl iodide	ND	10.0
Chloroethane	ND	10.0	4-Methyl-2-pentanone	ND	10.0
Chloroform	ND	5.00	Styrene	ND	5.00
Dibromochloromethane	ND	5.00	1,1,1,2-Tetrachloroethane	ND	5.00
1,2-Dichlorobenzene	ND	5.00	1,1,2,2-Tetrachloroethane	ND	5.00
1,4-Dichlorobenzene	ND	5.00	Tetrachloroethene	ND	5.00
trans-1,4-Dichloro-2-butene	ND	50.0	Toluene	ND	5.00
1,1-Dichloroethane	ND	5.00	1,1,1-Trichloroethane	ND	5.00
1,2-Dichloroethane	ND	5.00	1,1,2-Trichloroethane	ND	5.00
1,1-Dichloroethene	ND	5.00	Trichloroethene	ND	5.00
cis-1,2-Dichloroethene	ND	5.00	Trichlorofluoromethane	ND	5.00
trans-1,2-Dichloroethene	ND	5.00	1,2,3-Trichloropropane	ND	5.00
1,2-Dichloropropane	ND	5.00	Vinyl acetate	ND	5.00
cis-1,3-Dichloropropene	ND	5.00	Vinyl chloride	ND	5.00
trans-1,3-Dichloropropene	ND	5.00	Total xylenes	ND	5.00

Surrogates	% Recovery	Surrogate Limits
1,2-Dichloroethane-d4	102	86 - 118
Toluene-d8	94	88 - 110
Bromofluorobenzene	98	86 - 115

Notes and Definitions for this Report:

DATE RUN: 07/24/96ANALYST: CINSTRUMENT: GDIL. FACTOR: 1

COMMENTS: _____

UNITS: ug/L

ND = not detected at detection limit



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RECEIVED
NOV 18 1996
Department of Environmental Protection
SOUTHWEST DISTRICT

CLASS III LANDFILL
HAYS ROAD
SHADY HILLS, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: CL3 LEA Q3 1996
DATE: 08/26/96
DHRS # 44237, E44123

SAMPLE NUMBER- 48608 SAMPLE ID- TANK 1 @ CL III LEACHATE SAMPLE MATRIX- LE
DATE SAMPLED- 07/19/96 LOCATION- TIME SAMPLED- 1000
DATE RECEIVED- 07/19/96 SAMPLER- CHRIS CHILDRESS RECEIVED BY- AS
TIME RECEIVED- 1415 DELIVERED BY- CHRIS CHILDRESS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	TIME	BY	RESULT UNITS	
FIELD PH	EPA 150.1		07/19/96	1000	CHR	6.55 STD. UNITS	
FIELD TEMPERATURE	SM2550B		07/19/96	1000	CHR	28.9 DEGREES C	
FIELD CONDUCTIVITY	SM2510B		07/19/96	1000	CHR	2686 umhos/cm	
DISSOLVED OXYGEN, FIELD	SM4500-O G		07/19/96	1000	CHR	0.4 mg/L	
ALKALINITY, BICARB.	EPA310.1		07/22/96	1400	JK	673 mg/l	
CHLORIDE	EPA 325.3		07/24/96	1000	JK	453 mg/L	
COLOR	EPA 110.2		07/23/96	1100	JK	125 CPU	
AMMONIA NITROGEN	SM4500NH3E		07/30/96	1000	DN	4.04 mg/L	
UN-IONIZED AMMONIA N	DEP SOP		07/30/96	1630	CEM	0.02 mg/L	
NITRATE	EPA 353.2		07/29/96	1600	CEM	<0.15 mg/L	
TOTAL DISS. SOLIDS	EPA160.1		07/23/96	1500	JK	1800 mg/L	
IRON, TOTAL	236.2	07/29/96	TER	07/29/96	1540	TER	0.24 mg/L
MERCURY, TOTAL	245.1			07/31/96	1540	TER	<0.0005 mg/L
SODIUM, TOTAL	273.1	07/29/96	TER	07/29/96	1430	TER	342 mg/L

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

CLASS III LANDFILL
HAYS ROAD
SHADY HILLS, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: CL3 LEA Q3 1996
DATE: 08/26/96
DHRS # 44237, E44123

SAMPLE NUMBER- 48609 SAMPLE ID- TANK 2 @ CL III LEACHATE SAMPLE MATRIX- LE
DATE SAMPLED- 07/19/96 LOCATION- TIME SAMPLED- 0930
DATE RECEIVED- 07/19/96 SAMPLER- CHRIS CHILDRESS RECEIVED BY- AS
TIME RECEIVED- 1415 DELIVERED BY- CHRIS CHILDRESS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	TIME	BY	RESULT	UNITS
FIELD PH	EPA 150.1		07/19/96	0930	CHR	6.69	STD. UNITS
FIELD TEMPERATURE	SM2550B		07/19/96	0930	CHR	27.80	DEGREES C
FIELD CONDUCTIVITY	SM2510B		07/19/96	0930	CHR	506	umhos/cm
DISSOLVED OXYGEN, FIELD	SM4500-O G		07/19/96	0930	CHR	3.1	mg/L
ALKALINITY, BICARB.	EPA310.1		07/22/96	1400	JK	232	mg/l
CHLORIDE	EPA 325.3		07/24/96	1000	JK	24.6	mg/L
COLOR	EPA 110.2		07/23/96	1100	JK	110	CPU
AMMONIA NITROGEN	SM4500NH3E		07/30/96	1000	DN	1.87	mg/L
UN-IONIZED AMMONIA N	DEP SOP		07/30/96	1630	CEM	<0.02	mg/L
NITRATE	EPA 353.2		07/29/96	1600	CEM	<0.15	mg/L
TOTAL DISS. SOLIDS	EPA160.1		07/23/96	1500	JK	402	mg/L
IRON, TOTAL	236.2	07/29/96	TER	07/29/96	1540	TER	0.56 mg/L
MERCURY, TOTAL	245.1			07/31/96	1540	TER	<0.0005 mg/L
SODIUM, TOTAL	273.1	07/29/96	TER	07/29/96	1430	TER	13.1 mg/L

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

QC REPORT FOR CLASS III LANDFILL 08/26/96

QA/QC for SAMPLE Nos: 48608, 48609,

Page 1

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
ALKALINITY,8ICARB. EPA310.1 mg/l	48649	146	147	1.0	0.68	-----	STD	100	104	104.00
CHLORIDE EPA 325.3 mg/L	48588	16.9	17.1	0.20	1.18	-----	STD	20.0	20.5	102.50
	48646	991	993	2.0	0.20	-----	-----	-----	-----	-----
	48654	-----	-----	-----	-----	94.50	-----	-----	-----	-----
COLOR EPA 110.2 CPU	48649	5	4	1.0	22.22	-----	-----	-----	-----	-----
AMMONIA NITROGEN SM4500NH3E mg/L	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
UN-IONIZED AMMONIA N DEP SOP mg/L	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
NITRATE EPA 353.2 mg/L	48213	<0.15	<0.15	0.075	0.00	-----	STANDARD	4.00	3.57	89.25
	48566	<0.15	<0.15	0.075	0.00	-----	STANDARD	4.00	3.51	87.75
TOTAL DISS.SOLIDS EPA160.1 mg/L	48670	268	262	6.0	2.26	-----	STD	293	293	100.00



PASCO COUNTY, FLORIDA

QC REPORT FOR CLASS III LANDFILL 08/26/96

QA/QC for SAMPLE Nos: 48608, 48609,

Page 2

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data		
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found %
IRON, TOTAL 236.2 mg/L	48386	515	528	13	2.49	101.90	-----	-----	-----
MERCURY, TOTAL 245.1 mg/L	48386	0.19	0.21	0.020	10.00	110.30	-----	-----	-----
SODIUM, TOTAL 273.1 mg/L	48386	8.94	8.85	0.090	1.01	99.90	-----	-----	-----

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035 Sampling Date/Time: 07/19/96 @ 0930

Test Site ID #: NA Report Period: 1996 / Quarter III
(year/quarter)

Well Name: Tank #2 Well Purged (Y/N): YES

Classification of Groundwater: NA Well Type: () Background
() Intermediate
() Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): _____

RECEIVED
NOV 18 1996
Department of Environmental
SOUTHWEST DISTRICT
By _____ Date of Detection
Limits/Units

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/29/96 1600	<0.15 mg/L	0.15 mg/L
000940	Chloride	"	"	SM 4500Cl-B	07/24/96 1000	24.6 mg/L	0.15 mg/L
000400	pH-Field	"	"	EPA 150.1	07/19/96 0930	6.69 Std. Units	0.01 Std. Units
070300	Total Dis. Solids	"	"	SM 2540C	07/23/96 1500	402 mg/L	1 mg/L
000344	Dissolved Oxygen	"	"	SM 4500 O G	07/19/96 0930	3.1 mg/L	0.01 mg/L
000410	Bicarbonate	"	"	EPA 310.1	07/22/96 1400	232 mg/L	1 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/19/96 0930	506 μ mhos/cm	0.00 μ mhos/cm
000010	Temperature (Field)	"	"	SM 2550B	07/19/96 0930	27.80 °C	0 °C
000610	Ammonia	"	"	EPA 350.1	07/30/96 1000	1.87 mg/L	0.07 mg/L
900216	Color	"	"	EPA 110.2	07/23/96 1100	110 PCU	0.0 PCU
001045	Iron	"	"	EPA 236.1	07/29/96 1540	0.56 mg/L	0.001 mg/L
000929	Sodium	"	"	EPA 273.1	07/29/96 1430	13.1 mg/L	0.01 mg/L
071900	Mercury	"	"	EPA 245.1	07/31/96 1540	<0.0005 mg/L	0.0005 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/30/96 1630	<0.02 mg/L	0.02 mg/L

*Attach Laboratory Reports

PART III - ANALYTICAL RESULTS

Facility GMS #: _____

Sampling Date/Time: 7-19-96 9:30

Test Site ID #: _____

Report Period: _____
(Year/Quarter)WELL NAME: Class III Landfill Tank-2

Well Type: () Background

Classification of Ground Water: _____

() Intermediate

Ground Water Elevation (NGVD): _____

() Compliance

or (MSL): _____

() Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	* Analysis Results/ Units (mg/l)	Detection Limits/ Units (mg/l)
00010	Temperature (field)			EPA 170.1		degree,C	degree,C
00400	pH (field)			EPA 150.1		Std.Units	Std.Units
	Water Level Elev.			NA		Ft. NGVD	Ft. NGVD
00094	Specific Cond. (field)			EPA 120.1		μmhos/cm	μmhos/cm
01095	Antimony			EPA 204.2	8-05-96	ND	0.150
01000	Arsenic			EPA 206.2	8-05-96	ND	0.100
01005	Barium			EPA 208.2	8-05-96	ND	0.025
01010	Beryllium			EPA210.2	8-05-96	ND	0.004
01025	Cadmium			EPA 213.2	8-05-96	ND	0.010
01030	Chromium			EPA 218.2	8-05-96	ND	0.010
01035	Cobalt			EPA 219.2	8-05-96	ND	0.010
01040	Copper			EPA 220.1	7-26-96	ND	0.050
01049	Lead			EPA 239.2	8-05-96	ND	0.050
01065	Nickel			EPA 249.1	7-26-96	ND	0.050
01145	Selenium			EPA 270.2	8-05-96	ND	0.250
01075	Silver			EPA 272.2	8-05-96	ND	0.010
01057	Thallium			EPA 279.2	7-29-96	ND	0.005
01085	Vanadium			EPA 286.2	8-05-96	ND	0.010
01090	Zinc			EPA 289.1	7-30-96	ND	0.050

* Attach Laboratory Reports

PART III - ANALYTICAL RESULTS (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	* Analysis Results/ Units ($\mu\text{g/l}$)	Detection Limits/ Units ($\mu\text{g/l}$)
81552	Acetone			EPA 8260A	7-24-96	ND	50.0
34215	Acrylonitrile			EPA 8260A	7-24-96	ND	5.00
34235	Benzene			EPA 8260A	7-24-96	ND	5.00
N/A	Bromochloromethane			EPA 8260A	7-24-96	ND	5.00
32101	Bromodichloromethane			EPA 8260A	7-24-96	ND	5.00
32104	Bromoform			EPA 8260A	7-24-96	ND	5.00
77041	Carbon disulfide			EPA 8260A	7-24-96	ND	5.00
32102	Carbon tetrachloride			EPA 8260A	7-24-96	ND	10.0
34301	Chlorobenzene			EPA 8260A	7-24-96	ND	5.00
34311	Chloroethane			EPA 8260A	7-24-96	ND	10.0
32106	Chloroform			EPA 8260A	7-24-96	ND	5.00
32105	Dibromochloromethane			EPA 8260A	7-24-96	ND	5.00
38761	1,2-Dibromo-3-chloropropane			EPA 504	7-23-96	ND	0.0200
77651	1,2-Dibromoethane			EPA 504	7-23-96	ND	0.0200
34537	o-Dichlorobenzene			EPA 8260A	7-24-96	ND	5.00
34571	p-Dichlorobenzene			EPA 8260A	7-24-96	ND	5.00
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	7-24-96	ND	50.0
34496	1,1-Dichloroethane			EPA 8260A	7-24-96	ND	5.00
32103	1,2-Dichloroethane			EPA 8260A	7-24-96	ND	5.00
34502	1,1-Dichloroethene			EPA 8260A	7-24-96	ND	5.00
81686	cis-1,2-Dichloroethene			EPA 8260A	7-24-96	ND	5.00
34546	trans-1,2-Dichloroethene			EPA 8260A	7-24-96	ND	5.00
34541	1,2-Dichloropropane			EPA 8260A	7-24-96	ND	5.00
34704	cis-1,3-Dichloropropene			EPA 8260A	7-24-96	ND	5.00
34699	trans-1,3-Dichloropropene			EPA 8260A	7-24-96	ND	5.00
78113	Ethylbenzene			EPA 8260A	7-24-96	ND	5.00
77103	2-Hexanone			EPA 8260A	7-24-96	ND	10.0
34413	Methyl bromide			EPA 8260A	7-24-96	ND	5.00

* Attach Laboratory Reports

PART III - ANALYTICAL RESULTS (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date	* Analysis Results/ Units ($\mu\text{g/l}$)	Detection Limits/ Units ($\mu\text{g/l}$)
34418	Methyl chloride			EPA 8260A	7-24-96	ND	5.00
77596	Methylene bromide			EPA 8260A	7-24-96	ND	10.0
34423	Methylene chloride			EPA 8260A	7-24-96	ND	10.0
81595	Methyl ethyl ketone			EPA 8260A	7-24-96	ND	10.0
49262	Methyl iodide			EPA 8260A	7-24-96	ND	10.0
78133	4-Methyl-2-pentanone			EPA 8260A	7-24-96	ND	10.0
77128	Styrene			EPA 8260A	7-24-96	ND	5.00
77562	1,1,1,2-Tetrachloroethane			EPA 8260A	7-24-96	ND	5.00
34516	1,1,2,2-Tetrachloroethane			EPA 8260A	7-24-96	ND	5.00
34476	Tetrachloroethene			EPA 8260A	7-24-96	ND	5.00
78131	Toluene			EPA 8260A	7-24-96	ND	5.00
34506	1,1,1-Trichloroethane			EPA 8260A	7-24-96	ND	5.00
34511	1,1,2-Trichloroethane			EPA 8260A	7-24-96	ND	5.00
34485	Trichloroethene			EPA 8260A	7-24-96	ND	5.00
34488	Trichlorofluoromethane			EPA 8260A	7-24-96	ND	5.00
77443	1,2,3-Trichloropropane			EPA 8260A	7-24-96	ND	5.00
77057	Vinyl acetate			EPA 8260A	7-24-96	ND	5.00
39175	Vinyl chloride			EPA 8260A	7-24-96	ND	5.00
81551	Xylenes			EPA 8260A	7-24-96	ND	5.00

* Attach Laboratory Reports

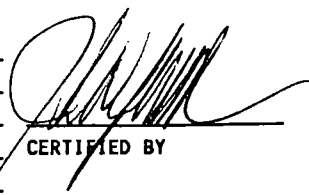
Received: 07/22/96

09/09/96 15:53:18

REPORT NATIONAL TESTING LABORATORY
TO 6555 WILSON MILLS ROAD
CLEVELAND, OHIO 44143
1(800)458-3330 F(216)449-8585

ATTN SUSAN HENDERSON

PREPARED TOXIKON WEST PALM BEACH
BY 1860 OLD OKEECHOBEE RD. #401
WEST PALM BEACH, FL 33409
HRS #E86278 QA# 910150G

ATTN JOHN YAREMCHUKPHONE (407) 478-4803 FAX 478-0214CERTIFIED BY CONTACT JOHN

CLIENT NTL SAMPLES 7
COMPANY NATIONAL TESTING LABORATORY
FACILITY 6555 WILSON MILLS ROAD
CLEVELAND, OHIO 44143

Duplicate of report of 08/07/96.

WORK ID BTL 7070305-0308
TAKEN 07/19/96
TRANS COURIER
TYPE LIQUID
P.O. # _____
INV. # 4061

SAMPLE IDENTIFICATION

01 CLASS III LANDFILL TANK-1
02 CLASS III LANDFILL TANK-2
03 CLASS III LANDFILL 4MW-8
04 CLASS III LANDFILL 4MW-7
05 METHOD BLANK
06 MEAN % RECOVERY
07 RPD

TEST CODES and NAMES used on this workorder

504 EDB AND DBCP BY GC
8260A PURGEABLE ORGANICS VOA
AG SILVER
AS ARSENIC
BA BARIUM
BE BERYLLIUM
CD CADMIUM
CO COBALT
CR CHROMIUM
CU COPPER
MEX TW METALS, TOTAL EXT., WATER
NI NICKEL
PB LEAD
SB ANTIMONY
SE SELENIUM
TL THALLIUM
V VANADIUM
ZN Zinc



BROWARD TESTING LABORATORY, INC.

4416 N.E. 11TH AVE., FORT LAUDERDALE, FLORIDA 33334



Date: 07/25/96 Report #: 7070305 Laboratory ID #: 86418

Client: PASCO COUNTY UTILITIES
ATTN: CANDY MULHERN
8864 GOVERNMENT DR.
NEW PORT RICHEY, FL 34654

Date Collected: 07/19/96
Time Collected: 10:00
SOURCE: CLASS III LANDFILL
TANK-1
pH=6.55

Date received at lab: 07/22/96
Collected by : CC

Time received at lab: 10:35

ENVIRONMENTAL LABORATORY CERTIFICATION NUMBER 86035 LABORATORY PARAMETER ANALYSIS REPORT

Analysis Performed	Method	Analysis Result (mg/l)	Anal Date
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PARAMETERS WERE SUBCONTRACTED TO TOXIKON LABS, SEE ATTACHED.

Gary Meyer, Lab Director

Received: 07/22/96

Results by Sample

SAMPLE ID <u>CLASS III LANDFILL TANK-1</u>		SAMPLE # <u>01</u>		FRACTIONS: <u>A</u>	
Date & Time Collected <u>07/19/96 10:00:00</u> Category <u>LIQUID</u>					
AG	ND	AS	ND	BA	0.080
mg/L DL=0.010		mg/L DL=0.100		mg/L DL=0.025	
8/5		8/5		8/5	
BE	ND	CD	ND	CO	ND
mg/L DL=0.004		mg/L DL=0.010		mg/L DL=0.010	
8/5		8/5		8/5	
CR	0.020	CU	ND	NI	ND
mg/L DL=0.010		mg/L DL=0.050		mg/L DL=0.050	
8/5		7/26		7/26	
PB	ND	SB	ND	SE	ND
mg/L DL=0.050		mg/L DL=0.150		mg/L DL=0.250	
8/5		8/5		8/5	
TL	ND	V	ND	ZN	ND
mg/L DL=0.005		mg/L DL=0.010		mg/L DL=0.050	
7/29		8/5		7/30	

7070305

Received: 07/22/96

Results by Sample

SAMPLE ID CLASS III LANDFILL TANK-1 FRACTION 01A TEST CODE 504 NAME EDB AND DBCP BY GC
Date & Time Collected 07/19/96 10:00:00 Category LIQUID

EPA METHOD 504

PARAMETER	RESULT	DETECT LIMIT	CAS NUMBER
ETHYLENE DIBROMIDE (EDB)	<u>ND</u>	<u>0.0200</u>	106-93-4
1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	<u>ND</u>	<u>0.0200</u>	96-12-8

NOTES AND DEFINITIONS FOR THIS REPORT

DATE RUN..... 07/23/96

INSTRUMENT..... HP-2UNITS..... ug/L

ND = NOT DETECTED AT DETECTION LIMITS

7070305

Received: 07/22/96

Results by Sample

SAMPLE ID CLASS III LANDFILL TANK-1 FRACTION 01A TEST CODE 8260A NAME PURGEABLE ORGANICS VOA
 7070305 Date & Time Collected 07/19/96 10:00:00 Category LIQUID

EPA 8260A PURGEABLE ORGANICS

	RESULT	LIMIT		RESULT	LIMIT
Acetone	50.2	50.0			
Acrylonitrile	ND	5.00	Ethylbenzene	ND	5.00
Benzene	ND	5.00	2-Hexanone	10.4	10.0
Bromochloromethane	ND	5.00	Methyl bromide	ND	5.00
Bromodichloromethane	ND	5.00	Methyl chloride	ND	5.00
Bromoform	ND	5.00	Methylene bromide	ND	10.0
Carbon disulfide	7.2	5.00	Methylene chloride	ND	10.0
Carbon tetrachloride	ND	10.0	Methyl ethyl ketone	ND	10.0
Chlorobenzene	ND	5.00	Methyl iodide	ND	10.0
Chloroethane	ND	10.0	4-Methyl-2-pentanone	ND	10.0
Chloroform	ND	5.00	Styrene	ND	5.00
Dibromochloromethane	ND	5.00	1,1,1,2-Tetrachloroethane	ND	5.00
1,2-Dichlorobenzene	ND	5.00	1,1,2,2-Tetrachloroethane	ND	5.00
1,4-Dichlorobenzene	ND	5.00	Tetrachloroethene	ND	5.00
trans-1,4-Dichloro-2-butene	ND	50.0	Toluene	ND	5.00
1,1-Dichloroethane	ND	5.00	1,1,1-Trichloroethane	ND	5.00
1,2-Dichloroethane	ND	5.00	1,1,2-Trichloroethane	ND	5.00
1,1-Dichloroethene	ND	5.00	Trichloroethene	ND	5.00
cis-1,2-Dichloroethene	ND	5.00	Trichlorofluoromethane	ND	5.00
trans-1,2-Dichloroethene	ND	5.00	1,2,3-Trichloropropane	ND	5.00
1,2-Dichloropropane	ND	5.00	Vinyl acetate	ND	5.00
cis-1,3-Dichloropropene	ND	5.00	Vinyl chloride	ND	5.00
trans-1,3-Dichloropropene	ND	5.00	Total xylenes	ND	5.00

Surrogates	% Recovery	Surrogate Limits
1,2-Dichloroethane-d4	96	86 - 118
Toluene-d8	89	88 - 110
Bromofluorobenzene	98	86 - 115

Notes and Definitions for this Report:

DATE RUN: 07/24/96ANALYST: CINSTRUMENT: GDIL. FACTOR: 1

COMMENTS: _____

UNITS: ug/L

ND = not detected at detection limit