



PASCO COUNTY, FLORIDA

DADE CITY (352) 511-4274
LAND O' LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8145

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

19 Aug 1998

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

D.E.P.

AUG 21 1998

SOUTHWEST DISTRICT
TAMPA

RE: West Pasco Class III Landfill
Leachate Monitoring
Semester II, 1998

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 (Jul-Dec). The next sampling event for this facility is scheduled for January, 1999.

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

Sincerely,

Candia E. Mulhern
Laboratory Manager

Enc.: 1

cc: Chongman Lee, Florida Department of Environmental Protection, Waste Management Section, Twin Towers Bldg., 2600 Blair Stone Road, Tallahassee, Florida 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

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: 19 Aug '98 
 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

DEP Form # 62-522.900(2)
Form Title <u>GROUND WATER</u>
<u>MONITORING REPORT</u>
Effective Date _____
DEP Application No. _____

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)

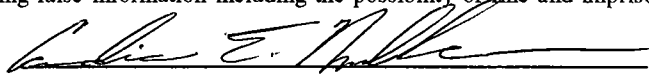
PART I - GENERAL INFORMATION

- (1) Facility Name: CLASS III Landfill
 Address: HAYS RD
 City, State, Zip: _____
 Telephone Number: _____
- (2) The GMS Identification Number: _____
- (3) DEP Permit Number: _____
- (4) Authorized Representative Name: _____
 Address: _____
 City, State, Zip: _____
 Telephone Number: _____
- (5) Type of Discharge: _____
- (6) Method of Discharge: _____

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: 19 AUG '98


 Signature of Owner or Authorized Representative

PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP #/HRS Certification #910150/E86278: 860214/E87143

 Comp QAP #/HRS Certification #

Lab Name: BROWARD TESTING LABORATORY

Address: 4416 NE 11TH AVE FT. LAUDERDALE, FL 33334

Phone Number: (440) 449-2525

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/13/98 @ 1230

Test Site ID #: NA

Report Period: 1998 / 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): _____

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	SM 4500NO ₃ F	07/14/98 1700	0.15 mg/L	0.11 mg/L
000940	Chloride	"	"	SM 4500Cl-B	07/17/98 1300	67.1 mg/L	0.15 mg/L
000400	pH-Field	"	"	SM 4500H + B	07/13/98 1230	6.50 Std. Units	0.01 Std. Units
070300	Total Dis. Solids	"	"	SM 2540C	07/13/98 1700	346 mg/L	1 mg/L
000344	Dissolved Olygen	"	"	SM 4500 O G	07/13/98 1230	0.15 mg/L	0.01 mg/L
000410	Bicarbonate	"	"	SM 2320B	07/13/98 1600	412 mg/L	1 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/13/98 1230	1218 μmhos/cm	0.00 μmhos/cm
000010	Temperature (Field)	"	"	SM 2550B	07/13/98 1230	29.20 °C	0 °C
000610	Ammonia	"	"	SM 4500NH ₃ B	07/21/98 1600	6.76 mg/L	0.03 mg/L
900216	Color	"	"	SM 2120B	07/13/98 1500	100 PCU	0.0 PCU
001045	Iron	"	"	SM 3113B	07/15/98 1140	0.36 mg/L	0.001 mg/L
000929	Sodium	"	"	SM 3111B	07/15/98 1510	50.1 mg/L	0.01 mg/L
071900	Mercury	"	"	SM 3112B	08/05/98 1530	0.001 mg/L	0.0002 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/23/98 0930	0.019 mg/L	0.02 mg/L

*Attach Laboratory Reports

PART III - ANALYTICAL RESULTS

Facility GMS #: _____

Sampling Date/Time: 07/13 @ 12:30

Test Site ID #: _____

Report Period: _____

(Year/Quarter)

WELL NAME: 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
01097	Antimony			EPA 200.7	07/20/98	<0.005	0.005
01002	Arsenic			EPA 200.7	07/20/98	0.034	0.005
01007	Barium			EPA 200.7	07/20/98	0.048	0.005
01012	Beryllium			EPA 200.7	07/20/98	<0.004	0.004
01027	Cadmium			EPA 200.7	07/20/98	<0.005	0.005
01034	Chromium			EPA 200.7	07/20/98	0.025	0.005
01037	Cobalt			EPA 200.7	07/20/98	<0.005	0.005
01042	Copper			EPA 200.7	07/20/98	0.005	0.005
01051	Lead			EPA 200.7	07/20/98	<0.005	0.005
01067	Nickel			EPA 200.7	07/20/98	<0.005	0.005
01147	Selenium			EPA 200.7	07/20/98	<0.005	0.005
01077	Silver			EPA 200.7	07/20/98	<0.005	0.005
01057	Thallium			EPA 200.7	07/20/98	<0.002	0.002
01085	Vanadium			EPA 200.7	07/20/98	<0.005	0.005
01092	Zinc			EPA 200.7	07/20/98	<0.100	0.100

PART III - ANALYTICAL RESULTS (Continued) TANK -1

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 8260B	07/27/98	16.1	10
34215	Acrylonitrile			EPA 8260B	07/27/98	<10	10
34235	Benzene			EPA 8260B	07/27/98	<1.0	1.0
N/A	Bromochloromethane			EPA 8260B	07/27/98	<5.0	5.0
32101	Bromodichloromethane			EPA 8260B	07/27/98	<5.0	5.0
32104	Bromoform			EPA 8260B	07/27/98	<5.0	5.0
77041	Carbon disulfide			EPA 8260B	07/27/98	<5.0	5.0
32102	Carbon tetrachloride			EPA 8260B	07/27/98	<3.0	3.0
34301	Chlorobenzene			EPA 8260B	07/27/98	<5.0	5.0
34311	Chloroethane			EPA 8260B	07/27/98	<5.0	5.0
32106	Chloroform			EPA 8260B	07/27/98	<5.0	5.0
32105	Dibromochloromethane			EPA 8260B	07/27/98	<5.0	5.0
38761	1,2-Dibromo-3-chloropropane			EPA 504	07/22/98	<0.02	0.02
77651	1,2-Dibromoethane			EPA 504	07/22/98	<0.02	0.02
34537	o-Dichlorobenzene			EPA 8260B	07/27/98	<5.0	5.0
34571	p-Dichlorobenzene			EPA 8260B	07/27/98	<5.0	5.0
49263	Trans-1,4-Dichloro-2-butene			EPA 8260B	07/27/98	<10	10
34496	1,1-Dichloroethane			EPA 8260B	07/27/98	<5.0	5.0
32103	1,2-Dichloroethane			EPA 8260B	07/27/98	<3.0	3.0
34502	1,1-Dichloroethene			EPA 8260B	07/27/98	<5.0	5.0
81686	cis-1,2-Dichloroethene			EPA 8260B	07/27/98	<5.0	5.0
34546	trans-1,2-Dichloroethene			EPA 8260B	07/27/98	<5.0	5.0
34541	1,2-Dichloropropane			EPA 8260B	07/27/98	<5.0	5.0
34704	cis-1,3-Dichloropropene			EPA 8260B	07/27/98	<5.0	5.0
34699	trans-1,3-Dichloropropene			EPA 8260B	07/27/98	<5.0	5.0
78113	Ethylbenzene			EPA 8260B	07/27/98	6.1	5.0
77103	2-Hexanone			EPA 8260B	07/27/98	<10	10
34413	Methyl bromide			EPA 8260B	07/27/98	<5.0	5.0

PART III - ANALYTICAL RESULTS (Continued) TANK-1

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 8260B	07/27/98	<5.0	5.0
77596	Methylene bromide			EPA 8260B	07/27/98	<5.0	5.0
34423	Methylene chloride			EPA 8260B	07/27/98	<5.0	5.0
81595	Methyl ethyl ketone			EPA 8260B	07/27/98	<10	10
49262	Methyl iodide			EPA 8260B	07/27/98	<10	10
78133	4-Methyl-2-pentanone			EPA 8260B	07/27/98	<10	10
77128	Styrene			EPA 8260B	07/27/98	<5.0	5.0
77562	1,1,1,2-Tetrachloroethane			EPA 8260B	07/27/98	<5.0	5.0
34516	1,1,2,2-Tetrachloroethane			EPA 8260B	07/27/98	<5.0	5.0
34476	Tetrachloroethene			EPA 8260B	07/27/98	<3.0	3.0
78131	Toluene			EPA 8260B	07/27/98	7.4	5.0
34506	1,1,1-Trichloroethane			EPA 8260B	07/27/98	<5.0	5.0
34511	1,1,2-Trichloroethane			EPA 8260B	07/27/98	<5.0	5.0
34485	Trichloroethene			EPA 8260B	07/27/98	<3.0	3.0
34488	Trichlorofluoromethane			EPA 8260B	07/27/98	<5.0	5.0
77443	1,2,3-Trichloropropane			EPA 8260B	07/27/98	<5.0	5.0
77057	Vinyl acetate			EPA 8260B	07/27/98	<10	10
39175	Vinyl chloride			EPA 8260B	07/27/98	<1.0	1.0
81551	Xylenes			EPA 8260B	07/27/98	<5.0	5.0

Received: 07/15/98

07/29/98 09:40:57

REPORT NATIONAL TESTING LABORATORIES
TO 6555 WILSON MILLS RD
CLEVELAND OHIO 44143
800-458-3330;FAX:216-449-8585
ATTEN ROSE STIBILA

PREPARED TOXIKON CORPORATION
BY 15 WIGGINS AVE
BEDFORD, MA 01730
ATTEN PAUL LEZBERG
PHONE (617)275-3330

Paul Lezberg
CERTIFIED BY
CONTACT MARKETING

CLIENT N T L SAMPLES 2
COMPANY NATIONAL TESTING LABORATORIES
FACILITY 6555 WILSON MILLS RD
CLEVELAND OHIO 44143

MA CERT # M-MA064: TRACE METALS, SULFATE, CYANIDE, RES. FREE
CHLORINE, Ca, TOTAL ALK., TDS, pH, THMs, VOC, PEST., NUTRIENTS,
DEMAND. O&G, PHENOLICS, PCBs, CT DHS #PH-0563, NY #10778
FL HRS E87143, NJ DEP, 59538, NC DNR286, SC 88002, NH 204091-C.

WORK ID PASCO COUNTY UTILITIES LAB
TAKEN 7/13/98
TRANS
TYPE LEACHATE
P.O. #
INVOICE under separate cover

VERIFIED BY: *[Signatures]*

SAMPLE IDENTIFICATION

TEST CODES and NAMES used on this workorder

01 TANK-1
02 TANK-2

- 8260NH PURGEABLE ORGANICS VOA
- AG SILVER
- AS ARSENIC
- BA BARIUM
- BE BERYLLIUM
- CD CADMIUM
- CO COBALT
- CR CHROMIUM
- CU COPPER
- DBCP DBCP
- EDB Ethylene Dibromide
- GENERC GENERIC TEST METHOD
- MEXTRC METALS, TOT WATER EXT. TRACE
- NI NICKEL
- PB LEAD
- SB ANTIMONY
- SE SELENIUM
- TL THALLIUM
- V VANADIUM
- ZN ZINC

Received: 07/15/98

Results by Sample

SAMPLE ID <u>TANK-1</u>		SAMPLE # <u>01</u>		FRACTIONS: <u>A</u>	
Date & Time Collected <u>07/13/98 12:30:00</u> Category <u>WATER</u>					
<u>AG</u>	<u>ND</u>	<u>AS</u>	<u>0.034</u>	<u>BA</u>	<u>0.048</u>
mg/L	DL=0.005	mg/L	DL=0.005	mg/L	DL=0.005
<u>BE</u>	<u>ND</u>	<u>CD</u>	<u>ND</u>	<u>CO</u>	<u>ND</u>
mg/L	DL=0.004	mg/L	DL=0.005	mg/L	DL=0.005
<u>CR</u>	<u>0.025</u>	<u>CJ</u>	<u>0.005</u>	<u>DBCP</u>	<u>ND</u>
mg/L	DL=0.005	mg/L	DL=0.005	ug/L	DL=0.02
<u>EDB</u>	<u>ND</u>	<u>NI</u>	<u>ND</u>	<u>PB</u>	<u>ND</u>
ug/L	DL=0.02	mg/L	DL=0.005	mg/L	DL=0.005
<u>SB</u>	<u>ND</u>	<u>SE</u>	<u>ND</u>	<u>TL</u>	<u>ND</u>
mg/L	DL=0.005	mg/L	DL=0.005	mg/L	DL=0.002
<u>V</u>	<u>ND</u>	<u>ZN</u>	<u>ND</u>		
mg/L	DL=0.005	mg/L	DL=0.100		

Received: 07/15/98

Results by Sample

SAMPLE ID TANK-1FRACTION 01ATEST CODE 8260NHNAME PURGEABLE ORGANICS VOADate & Time Collected 07/13/98 12:30:00Category WATER**EPA 8260 PURGEABLE ORGANICS**

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	5.0	o-Xylene	ND	5.0
Bromomethane	ND	5.0	m+p-Xylene	ND	5.0
Vinyl Chloride	ND	1.0	1,2-Dichlorobenzene	ND	5.0
Chloroethane	ND	5.0	1,3-Dichlorobenzene	ND	5.0
Methylene Chloride	ND	5.0	1,4-Dichlorobenzene	ND	5.0
1,1-Dichloroethene	ND	5.0	Naphthalene	ND	5.0
Trichlorofluoromethane	ND	5.0	n-Propylbenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Bromobenzene	ND	5.0
Trans-1,2-Dichloroethene	ND	5.0	Bromochloromethane	ND	5.0
Chloroform	ND	5.0	n-Butylbenzene	ND	5.0
1,2-Dichloroethane	ND	3.0	sec-Butylbenzene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	tert-Butylbenzene	ND	5.0
Carbon Tetrachloride	ND	3.0	2-Chlorotoluene	ND	5.0
Bromodichloromethane	ND	5.0	4-Chlorotoluene	ND	5.0
1,2-Dichloropropane	ND	5.0	1,2-Dibromo-3-chloropropane	ND	5.0
Trichloroethene	ND	3.0	1,2-Dibromomethane	ND	5.0
Dibromochloromethane	ND	5.0	Dibromomethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0	Dichlorodifluoromethane	ND	5.0
Benzene	ND	1.0	cis-1,2-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0	1,3-Dichloropropane	ND	5.0
2-2-Dichloropropane	ND	5.0	1,1,1,2-Tetrachloroethane	ND	5.0
Bromoform	ND	5.0	1,2,3-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Isopropylbenzene	ND	5.0	1,2,4-Trichlorobenzene	ND	5.0
Tetrachloroethene	ND	3.0	1,2,3-Trichloropropane	ND	5.0
Methyl tertiary butyl ether	7.6	5.0	1,2,4-Trimethylbenzene	ND	5.0
Toluene	7.4	5.0	1,3,5-Trimethylbenzene	ND	5.0
Chlorobenzene	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Ethyl Benzene	6.1	5.0	trans-1,3-Dichloropropene	ND	5.0
p-Isopropyltoluene	ND	5.0	Styrene	ND	5.0
Diethyl Ether	ND	5.0	Tetrahydrofuran	12.6	10
Acetone	16.1	10	4-Methyl-2-Pentanone	ND	10
Carbon disulfide	ND	5.0	2-Hexanone	ND	10
2-Butanone	ND	10			

Notes and definitions for this report:

DATE RUN 07/27/98

ANALYST XL

INSTRUMENT _____ B

DIL. FACTOR 1UNITS ug/L

COMMENTS _____

ND = Not detected at detection limit

SAMPLE ID TANK-1 FRACTION 01A TEST CODE GENERIC NAME GENERIC TEST METHOD
Date & Time Collected 07/13/98 12:30:00 Category WATER

SPECIAL TEST REPORT

ANALYTE	REPORTING	
	RESULT	LIMIT
<u>ACRYLONITRILE</u>	<u>ND</u>	<u>10</u>
<u>TRANS-1,4-DICHLORO-2-BUTENE</u>	<u>ND</u>	<u>10</u>
<u>METHYL IODIDE</u>	<u>ND</u>	<u>10</u>
<u>VINYL ACETATE</u>	<u>ND</u>	<u>10</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Notes and definitions for this report:

EXTRACTED...
DATE RUN.... 07/27/98
ANALYST..... XL
EPA METHOD.. 8260B
UNITS..... ug/L

ND = not detected at detection limits

Date extracted included when applicable.

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/13/98 @ 1330

Test Site ID #: NA

Report Period: 1998 / 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): _____

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	SM 4500NO ₃ F	07/14/98 1700	1.09 mg/L	0.11 mg/L
000940	Chloride	"	"	SM 4500Cl-B	07/17/98 1300	18.5 mg/L	0.15 mg/L
000400	pH-Field	"	"	SM 4500H + B	07/13/98 1330	6.64 Std. Units	0.01 Std. Units
070300	Total Dis. Solids	"	"	SM 2540C	07/13/98 1700	206 mg/L	1 mg/L
000344	Dissolved Olygen	"	"	SM 4500 O G	07/13/98 1330	2.80 mg/L	0.01 mg/L
000410	Bicarbonate	"	"	SM 2320B	07/13/98 1600	128 mg/L	1 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/13/98 1330	302 μmhos/cm	0.00 μmhos/cm
000010	Temperature (Field)	"	"	SM 2550B	07/13/98 1330	30.50 °C	0 °C
000610	Ammonia	"	"	SM 4500NH ₃ B	07/21/98 1600	2.91 mg/L	0.03 mg/L
900216	Color	"	"	SM 2120B	07/13/98 1500	400 PCU	0.0 PCU
001045	Iron	"	"	SM 3113B	07/15/98 1140	0.30 mg/L	0.001 mg/L
000929	Sodium	"	"	SM 3111B	07/15/98 1510	7.19 mg/L	0.01 mg/L
071900	Mercury	"	"	SM 3112B	08/05/98 1530	0.0008 mg/L	0.0002 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/23/98 0930	0.011 mg/L	0.02 mg/L

*Attach Laboratory Reports

PART III - ANALYTICAL RESULTS

Facility GMS #: _____

Sampling Date/Time: 07/13, @ 13:30

Test Site ID #: _____

Report Period: _____

(Year/Quarter)

WELL NAME: 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
01097	Antimony			EPA 200.7	07/20/98	<0.005	0.005
01002	Arsenic			EPA 200.7	07/20/98	<0.005	0.005
01007	Barium			EPA 200.7	07/20/98	<0.005	0.005
01012	Beryllium			EPA 200.7	07/20/98	<0.004	0.004
01027	Cadmium			EPA 200.7	07/20/98	<0.005	0.005
01034	Chromium			EPA 200.7	07/20/98	0.007	0.005
01037	Cobalt			EPA 200.7	07/20/98	<0.005	0.005
01042	Copper			EPA 200.7	07/20/98	0.007	0.005
01051	Lead			EPA 200.7	07/20/98	<0.005	0.005
01067	Nickel			EPA 200.7	07/20/98	<0.005	0.005
01147	Selenium			EPA 200.7	07/20/98	<0.005	0.005
01077	Silver			EPA 200.7	07/20/98	<0.005	0.005
01057	Thallium			EPA 200.7	07/20/98	<0.002	0.002
01085	Vanadium			EPA 200.7	07/20/98	<0.005	0.005
01092	Zinc			EPA 200.7	07/20/98	<0.100	0.100

PART III - ANALYTICAL RESULTS (Continued) TANK-2

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 8260B	07/27/98	< 10	10
34215	Acrylonitrile			EPA 8260B	07/27/98	< 10	10
34235	Benzene			EPA 8260B	07/27/98	< 1.0	1.0
N/A	Bromochloromethane			EPA 8260B	07/27/98	< 5.0	5.0
32101	Bromodichloromethane			EPA 8260B	07/27/98	< 5.0	5.0
32104	Bromoform			EPA 8260B	07/27/98	< 5.0	5.0
77041	Carbon disulfide			EPA 8260B	07/27/98	< 5.0	5.0
32102	Carbon tetrachloride			EPA 8260B	07/27/98	< 3.0	3.0
34301	Chlorobenzene			EPA 8260B	07/27/98	< 5.0	5.0
34311	Chloroethane			EPA 8260B	07/27/98	< 5.0	5.0
32106	Chloroform			EPA 8260B	07/27/98	< 5.0	5.0
32105	Dibromochloromethane			EPA 8260B	07/27/98	< 5.0	5.0
38761	1,2-Dibromo-3-chloropropane			EPA 504	07/22/98	< 0.02	0.02
77651	1,2-Dibromoethane			EPA 504	07/22/98	< 0.02	0.02
34537	o-Dichlorobenzene			EPA 8260B	07/27/98	< 5.0	5.0
34571	p-Dichlorobenzene			EPA 8260B	07/27/98	< 5.0	5.0
49263	Trans-1,4-Dichloro-2-butene			EPA 8260B	07/27/98	< 10	10
34496	1,1-Dichloroethane			EPA 8260B	07/27/98	< 5.0	5.0
32103	1,2-Dichloroethane			EPA 8260B	07/27/98	< 3.0	3.0
34502	1,1-Dichloroethene			EPA 8260B	07/27/98	< 5.0	5.0
81686	cis-1,2-Dichloroethene			EPA 8260B	07/27/98	< 5.0	5.0
34546	trans-1,2-Dichloroethene			EPA 8260B	07/27/98	< 5.0	5.0
34541	1,2-Dichloropropane			EPA 8260B	07/27/98	< 5.0	5.0
34704	cis-1,3-Dichloropropene			EPA 8260B	07/27/98	< 5.0	5.0
34699	trans-1,3-Dichloropropene			EPA 8260B	07/27/98	< 5.0	5.0
78113	Ethylbenzene			EPA 8260B	07/27/98	< 5.0	5.0
77103	2-Hexanone			EPA 8260B	07/27/98	< 10	10
34413	Methyl bromide			EPA 8260B	07/27/98	< 5.0	5.0

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 8260B	07/27/98	<5.0	5.0
77596	Methylene bromide			EPA 8260B	07/27/98	<5.0	5.0
34423	Methylene chloride			EPA 8260B	07/27/98	<5.0	5.0
81595	Methyl ethyl ketone			EPA 8260B	07/27/98	<10	10
49262	Methyl iodide			EPA 8260B	07/27/98	<10	10
78133	4-Methyl-2-pentanone			EPA 8260B	07/27/98	<10	10
77128	Styrene			EPA 8260B	07/27/98	<5.0	5.0
77562	1,1,1,2-Tetrachloroethane			EPA 8260B	07/27/98	<5.0	5.0
34516	1,1,2,2-Tetrachloroethane			EPA 8260B	07/27/98	<5.0	5.0
34476	Tetrachloroethene			EPA 8260B	07/27/98	<3.0	3.0
78131	Toluene			EPA 8260B	07/27/98	<5.0	5.0
34506	1,1,1-Trichloroethane			EPA 8260B	07/27/98	<5.0	5.0
34511	1,1,2-Trichloroethane			EPA 8260B	07/27/98	<5.0	5.0
34485	Trichloroethene			EPA 8260B	07/27/98	<3.0	3.0
34488	Trichlorofluoromethane			EPA 8260B	07/27/98	<5.0	5.0
77443	1,2,3-Trichloropropane			EPA 8260B	07/27/98	<5.0	5.0
77057	Vinyl acetate			EPA 8260B	07/27/98	<10	10
39175	Vinyl chloride			EPA 8260B	07/27/98	<1.0	1.0
81551	Xylenes			EPA 8260B	07/27/98	<5.0	5.0

PART III - ANALYTICAL RESULTS (Continued) TANK-2

Store 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 8260B	07/27/98	< 5.0	5.0
77596	Methylene bromide			EPA 8260B	07/27/98	< 5.0	5.0
34423	Methylene chloride			EPA 8260B	07/27/98	< 5.0	5.0
81595	Methyl ethyl ketone			EPA 8260B	07/27/98	< 10	10
49262	Methyl iodide			EPA 8260B	07/27/98	< 10	10
78133	4-Methyl-2-pentanone			EPA 8260B	07/27/98	< 10	10
77128	Styrene			EPA 8260B	07/27/98	< 5.0	5.0
77562	1,1,1,2-Tetrachloroethane			EPA 8260B	07/27/98	< 5.0	5.0
34516	1,1,2,2-Tetrachloroethane			EPA 8260B	07/27/98	< 5.0	5.0
34476	Tetrachloroethene			EPA 8260B	07/27/98	< 3.0	3.0
78131	Toluene			EPA 8260B	07/27/98	< 5.0	5.0
34506	1,1,1-Trichloroethane			EPA 8260B	07/27/98	< 5.0	5.0
34511	1,1,2-Trichloroethane			EPA 8260B	07/27/98	< 5.0	5.0
34485	Trichloroethene			EPA 8260B	07/27/98	< 3.0	3.0
34488	Trichlorofluoromethane			EPA 8260B	07/27/98	< 5.0	5.0
77443	1,2,3-Trichloropropane			EPA 8260B	07/27/98	< 5.0	5.0
77057	Vinyl acetate			EPA 8260B	07/27/98	< 10	10
39175	Vinyl chloride			EPA 8260B	07/27/98	< 1.0	1.0
81551	Xylenes			EPA 8260B	07/27/98	< 5.0	5.0

SAMPLE ID <u>TANK-2</u>		SAMPLE # <u>02</u>		FRACTIONS: <u>A</u>							
Date & Time Collected <u>07/13/98 13:30:00</u> Category <u>WATER</u>											
<u>AG</u>	<u>ND</u>	<u>AS</u>	<u>ND</u>	<u>BA</u>	<u>ND</u>	<u>BE</u>	<u>ND</u>	<u>CD</u>	<u>ND</u>	<u>CO</u>	<u>ND</u>
mg/L	DL=0.005	mg/L	DL=0.005	mg/L	DL=0.005	mg/L	DL=0.004	mg/L	DL=0.005	mg/L	DL=0.005
<u>CR</u>	<u>0.007</u>	<u>CJ</u>	<u>0.007</u>	<u>DBCP</u>	<u>ND</u>	<u>EDB</u>	<u>ND</u>	<u>NI</u>	<u>ND</u>	<u>PB</u>	<u>ND</u>
mg/L	DL=0.005	mg/L	DL=0.005	ug/L	DL=0.02	ug/L	DL=0.02	mg/L	DL=0.005	mg/L	DL=0.005
<u>SB</u>	<u>ND</u>	<u>SE</u>	<u>ND</u>	<u>TL</u>	<u>ND</u>	<u>V</u>	<u>ND</u>	<u>ZN</u>	<u>ND</u>		
mg/L	DL=0.005	mg/L	DL=0.005	mg/L	DL=0.002	mg/L	DL=0.005	mg/L	DL=0.100		

SAMPLE ID TANK-2 FRACTION 02A TEST CODE 8260NH NAME PURGEABLE ORGANICS VOA
 Date & Time Collected 07/13/98 13:30:00 Category WATER

EPA 8260 PURGEABLE ORGANICS

	RESULT	LIMIT		RESULT	LIMIT
Chloromethane	ND	5.0	o-Xylene	ND	5.0
Bromomethane	ND	5.0	m+p-Xylene	ND	5.0
Vinyl Chloride	ND	1.0	1,2-Dichlorobenzene	ND	5.0
Chloroethane	ND	5.0	1,3-Dichlorobenzene	ND	5.0
Methylene Chloride	ND	5.0	1,4-Dichlorobenzene	ND	5.0
1,1-Dichloroethene	ND	5.0	Naphthalene	ND	5.0
Trichlorofluoromethane	ND	5.0	n-Propylbenzene	ND	5.0
1,1-Dichloroethane	ND	5.0	Bromobenzene	ND	5.0
Trans-1,2-Dichloroethene	ND	5.0	Bromochloromethane	ND	5.0
Chloroform	ND	5.0	n-Butylbenzene	ND	5.0
1,2-Dichloroethane	ND	3.0	sec-Butylbenzene	ND	5.0
1,1,1-Trichloroethane	ND	5.0	tert-Butylbenzene	ND	5.0
Carbon Tetrachloride	ND	3.0	2-Chlorotoluene	ND	5.0
Bromodichloromethane	ND	5.0	4-Chlorotoluene	ND	5.0
1,2-Dichloropropane	ND	5.0	1,2-Dibromo-3-chloropropane	ND	5.0
Trichloroethene	ND	3.0	1,2-Dibromomethane	ND	5.0
Dibromochloromethane	ND	5.0	Dibromomethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0	Dichlorodifluoromethane	ND	5.0
Benzene	ND	1.0	cis-1,2-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0	1,3-Dichloropropane	ND	5.0
2,2-Dichloropropane	ND	5.0	1,1,1,2-Tetrachloroethane	ND	5.0
Bromoform	ND	5.0	1,2,3-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0	1,1,2,2-Tetrachloroethane	ND	5.0
Isopropylbenzene	ND	5.0	1,2,4-Trichlorobenzene	ND	5.0
Tetrachloroethene	ND	3.0	1,2,3-Trichloropropane	ND	5.0
Methyl tertiary butyl ether	ND	5.0	1,2,4-Trimethylbenzene	ND	5.0
Toluene	ND	5.0	1,3,5-Trimethylbenzene	ND	5.0
Chlorobenzene	ND	5.0	cis-1,3-Dichloropropene	ND	5.0
Ethyl Benzene	ND	5.0	trans-1,3-Dichloropropene	ND	5.0
p-Isopropyltoluene	ND	5.0	Styrene	ND	5.0
Diethyl Ether	ND	5.0	Tetrahydrofuran	ND	10
Acetone	ND	10	4-Methyl-2-Pentanone	ND	10
Carbon disulfide	ND	5.0	2-Hexanone	ND	10
2-Butanone	ND	10			

Notes and definitions for this report:
 DATE RUN 07/27/98
 ANALYST XL
 INSTRUMENT _____ B
 DIL. FACTOR 1
 UNITS ug/L
 COMMENTS _____
 ND = Not detected at detection limit

SAMPLE ID TANK-2 FRACTION 02A TEST CODE GENERC NAME GENERIC TEST METHOD
Date & Time Collected 07/13/98 13:30:00 Category WATER

SPECIAL TEST REPORT

ANALYTE	REPORTING	
	RESULT	LIMIT
<u>ACRYLONITRILE</u>	<u>ND</u>	<u>10</u>
<u>TRANS-1,4-DICHLORO-2-BUTENE</u>	<u>ND</u>	<u>10</u>
<u>METHYL IODIDE</u>	<u>ND</u>	<u>10</u>
<u>VINYL ACETATE</u>	<u>ND</u>	<u>10</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Notes and definitions for this report:

EXTRACTED...
DATE RUN.... 07/27/98
ANALYST..... XL
EPA METHOD.. 8260B
UNITS..... ug/L

ND = not detected at detection limits
Date extracted included when applicable.

Received: 07/15/98

Test Methodology

TEST CODE 8260NH NAME PURGEABLE ORGANICS VOA

EPA METHOD: 8260: Gas Chromatography/Mass Spectrometry for Volatile Organics.

Reference: Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods.
EPA SW-846 (Third Edition) 1986. Office of Solid Waste, USEPA.

RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

TEST CODE DBCP NAME DBCP

EPA METHOD:504 1,2-DIBROMO-3-CHLOROPROPANE

REFERENCE:Methods for the Determination of Organic Compounds in Drinking Water.
EPA 600/4-88/039,December 1988,pg.89. 1,2-Dibromoethane (EDB) and
1,2-Dibromo-3-Chloropropane (DBCP) in water by Microextraction and
Gas Chromatography.

TEST CODE EDB NAME Ethylene Dibromide

EPA METHOD: 504

Reference: Methods for the Determination of Organic Compounds in Drinking Water.
EPA/600/4-88/039, December 1988, pg. 89. 1,2-Dibromoethane (EDB) and
1,2,-Dibromo-3-Chloropropane (DBCP) in Water by Microextraction and
Gas Chromatography.

CASE NARRATIVE

Work Order: 9807275

All samples were analyzed within the method holding times.

No target compounds were detected in the method blanks.

TOXIKON

QC SUMMARY - METALS

PROJECT : 9807275
 MATRIX : WATER

SPIKE SAMPLE: 9807275.1
 HG SPIKE SAMPLE: NA

ANALYTE	METHOD BLANK	LCS (% REC)	MS (% REC)	DUPLICATE (% RPD)
Ag	ND	88	84	0
As	ND	98	92	0.878
Ba	ND	98	90	2.9
Be	ND	104	94	0
Cd	ND	96	85	0
Co	ND	99	89	0
Cr	ND	101	89	0
Cu	ND	103	100	50.7
Ni	0.009	100	88	0
Pb	ND	100	92	0
Sb	ND	99	93	0
Se	ND	96	98	0
Tl	ND	94	87	0
V	ND	103	93	0
Zn	ND	90	81	106

ACCEPTANCE CRITERIA

ANALYTE	METHOD BLANK	MS (% REC)	LCS (% REC)	DUPLICATE (% RPD)
Ag	BDL	65 - 125	80 - 120	<25
Hg	BDL	75 - 125	80 - 120	<25
All Others	BDL	80 - 120	80 - 120	<25

TOXIKON

SPIKE RECOVERY DATA SHEET (METHOD 504/8011)

PROJECT : 9807275

MATRIX : WATER

LABORATORY CONTROL SPIKE: 980716EDB

COMPOUND	SPIKE ADDED (ug/L)	LCS CONC. (ug/L)	LCS % RECOVERY	QC LIMITS % REC.
EDB	0.25	0.182	73	70 - 112
DBCP	0.25	0.227	90.8	70 - 112

MATRIX SPIKE

MS9807268.4

COMPOUND	SPIKE ADDED (ug/L)	MS CONC. (ug/L)	MS % RECOVERY	QC LIMITS % REC.
EDB	0.25	0.227	90.8	70 - 112
DBCP	0.25	0.268	107.2	70 - 112

D - Indicates Diluted Out

INT - Indicates Interference

MATRIX SPIKE DUP

MD9807268.

COMPOUND	SPIKE ADDED (ug/L)	MSD CONC. (ug/L)	MSD % RECOVERY	% RPD	QC LIMITS
EDB	0.25	0.275	110	19	<15
DBCP	0.25	0.261	104.4	2.85	<15

D - Indicates Diluted Out

INT - Indicates Interference



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(813) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

REPORT OF ANALYSES

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

PROJECT NAME: CL-III LEACHATE
DATE: 08/07/98

(Page 1 of 1)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
69009	07/13/98	1230	CHRIS CHILDRESS	07/13/98	1420 LE
69010	07/13/98	1330	CHRIS CHILDRESS	07/13/98	1420 LE

CLIENT STATION ID:	TANK-1	TANK-2
LAB #:	69009	69010

	FEET	-----	-----
WATER LEVEL			
FIELD PH	STD. UNITS	6.50	6.64
FIELD TEMPERATURE	DEGREES C	29.20	30.50
FIELD CONDUCTIVITY	umhos/cm	1218	302
DISSOLVED OXYGEN, FIELD	mg/L	0.15	2.80
ALKALINITY, BICARB.	mg/l	412	128
CHLORIDE	mg/L	67.1	18.5
COLOR	PCU	100	400
AMMONIA NITROGEN	mg/L	6.76	2.91
UN-IONIZED AMMONIA N	mg/L	.019	.011
NITRATE	mg/L	0.15	1.09
TOTAL DISS. SOLIDS	mg/L	346	206
IRON, TOTAL	mg/L	0.36	0.30
MERCURY, TOTAL	mg/L	0.001	0.0008
SODIUM, TOTAL	mg/L	50.1	7.19

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
 8864 GOVERNMENT DRIVE
 NEW PORT RICHEY, FL 34654
 (813) 847-8902

DHRS # 44237, E44123
 CombQAP # 8701676

QC REPORT FOR CLASS III LANDFILL 08/07/98

QA/QC for SAMPLE Nos: 69009, 69010.

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, BICARB. SM2320B mg/l	69009	408	417	9.0	2.18	-----	STANDARD	10	10.12	101.20
CHLORIDE SM4500CL E mg/L	69009	65.3	68.9	3.6	5.37	-----	STANDARD	80	79.8	99.75
	69010	-----	-----	-----	-----	103.90	STANDARD	80	84.3	105.40
	69089	26240	25036	1204	4.70	-----	-----	-----	-----	-----
	69122	15359	15604	245	1.58	-----	-----	-----	-----	-----
COLOR SM 2120B PCU	69010	400	400	0	0.00	-----	-----	-----	-----	-----
AMMONIA NITROGEN SM4500NH3H mg/L	69046	-----	-----	-----	-----	95.31	NH3 STD	1.200	1.118	93.16
	69116	4.37	4.25	0.12	2.78	-----	NH3 STD	1.200	1.159	96.65
	69118	1.44	1.55	0.11	7.36	-----	-----	-----	-----	-----
UN-IONIZED AMMONIA N DEP SOP mg/L	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
NITRATE SM4500NO3F mg/L	69009	-----	-----	-----	-----	94.36	NO3 STD	4.000	4.054	101.35
	69010	1.06	1.11	0.050	4.61	-----	NO3 STD	4.000	3.930	98.26



PASCO COUNTY, FLORIDA

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 CombQAP # 8701676

QC REPORT FOR CLASS III LANDFILL 08/07/98

QA/QC for SAMPLE Nos: 69009, 69010.

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	% Recovery
TOTAL DISS.SOLIDS SM2540C mg/L	69048	232	227	5.0	2.18	-----	STD	293	309	94.80
IRON, TOTAL SM31138 mg/L	69009	376	365	11	2.97	102.10	-----	-----	-----	-----
MERCURY, TOTAL SM31128 mg/L	69334	0.61	0.80	0.19	26.95	95.40	-----	-----	-----	-----
SODIUM, TOTAL SM31118 mg/L	69009	5.14	5.01	0.13	2.56	100.20	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(813) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

DATE. TIME. ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS		ANALYST	MDL
		DATE	TIME		
BICARB. ALK	SM2320B	07/13/98	1600	CEM	1
CL- (auto)	SM4500CL E	07/17/98	1300	CEM	0.62
COLOR	SM 2120B	07/13/98	1500	CSC	0.0
COND. FIELD	SM2510B	07/13/98	1230	CSC	1
DO. FIELD	SM4500-O G	07/13/98	1230	CSC	0.01
FE/T/AA	SM3113B	07/15/98	1140	TER	0.001
FIELD TEMP	SM2550B	07/13/98	1230	CSC	0
H2O LEVEL	FIELD	07/13/98	1230	CSC	0.00
HG/T/CVAA	SM3112B	08/05/98	1530	TER	0.0005
NA/T/FLAA	SM3111B	07/15/98	1510	TER	0.01
NH3 (AUTO)	SM4500NH3H	07/21/98	1600	IF	0.03
NH3-UNION	DEP SOP	07/23/98	0930	CEM	0.02
NO3	SM4500NO3F	07/14/98	1700	IF	0.11
PH. FIELD	SM4500-H+B	07/13/98	1230	CSC	0.01
TDS	SM2540C	07/13/98	1700	DN	1