



4051M30035

PASCO COUNTY, FLORIDA

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

WACS 45799
2nd SEMI-ANNUAL 1997 GWMR = III

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

19 Nov 1997

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

RECEIVED

NOV 24 1997

RE: West Pasco Class III Landfill
Groundwater Monitoring
Semester II, 1997

Solid Waste Section

Dear Ms. Amram:

Enclosed please find the groundwater monitoring analyses from monitoring wells 2MW3A, 2MW7, 2MW8, 2MW9, 2MW10, 4MW3A, 4MW7, 4MW8, and 4mw9 at the West Pasco Class III landfill for the second semester (July-Dec) sampling period. These wells were analyzed for the parameters listed in 62-701(8)(a) Florida Administrative Code. All associated Quality Assurance/Quality Control data is also included for all analyses.

Groundwater monitoring well 4MW3A exceeded the MCL for Antimony and 4MW8 exceeded the MCL for Antimony and Trichloroethene. Both wells were resampled for confirmation of these findings and in both cases the exceeded analytes were non-detectable. A groundwater summary table of the original exceedence and the resample results are included with this submittal. Finally, a groundwater contour map for this site is included.

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: 08/07/97 Candia E. Mulhern
 Signature of Owner or Authorized Representative

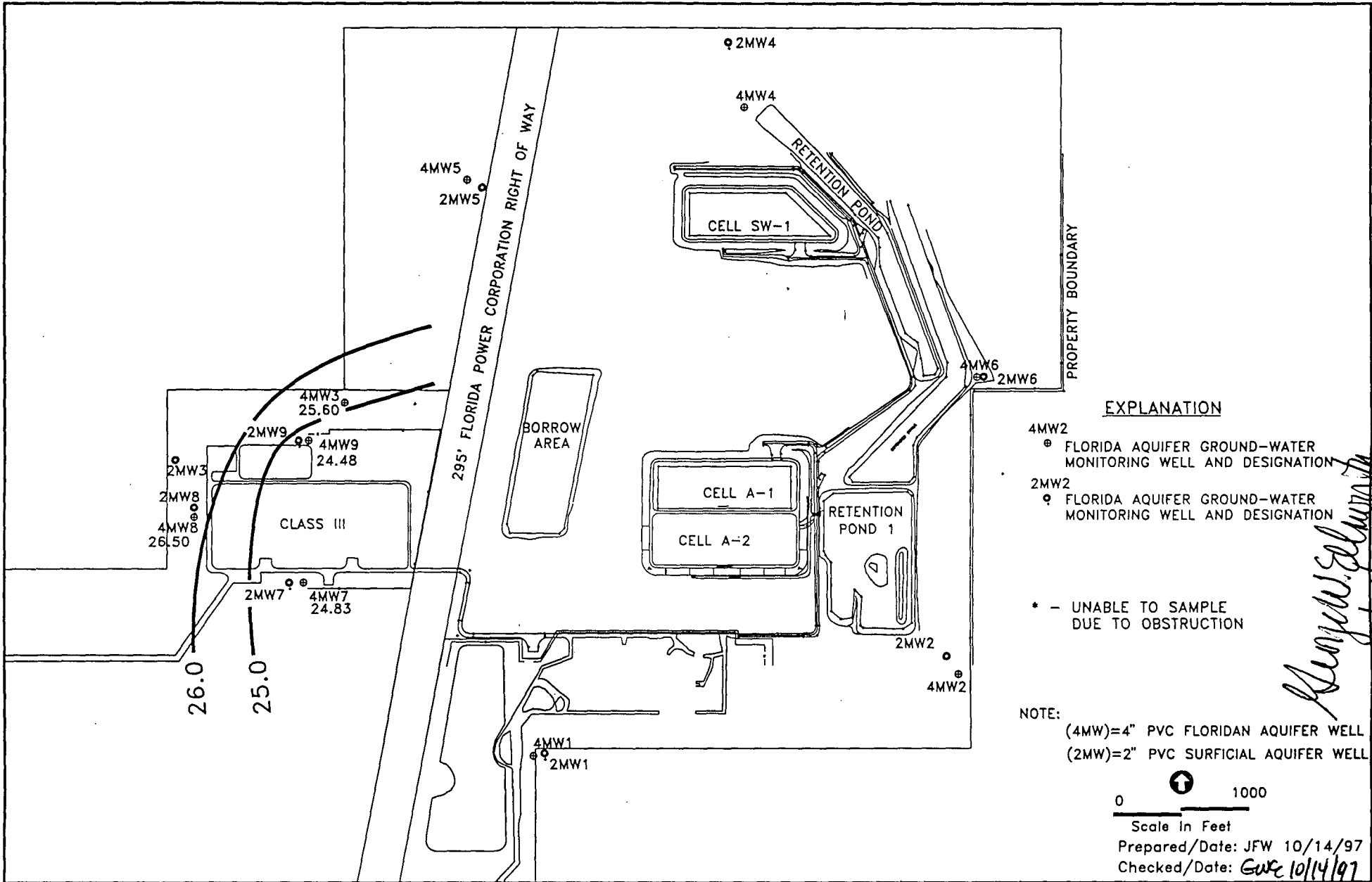
PART II QUALITY ASSURANCE REQUIREMENTS

- 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

**WEST PASCO CLASS III LANDFILL
EXCEEDED ANALYTES
SEMESTER II - 1997**

WELL	ANALYTE	RESULT (mg/L)	RESAMPLE (mg/L)
4MW3A	ANTIMONY	0.0082	<0.001
4MW8	ANTIMONY	0.0067	<0.001
	TRICHLOROETHENE	0.0113	<0.183

ACAD=41508692



EXPLANATION

- 4MW2
⊙ FLORIDA AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION
- 2MW2
⊙ FLORIDA AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION

* - UNABLE TO SAMPLE DUE TO OBSTRUCTION

NOTE:
 (4MW)=4" PVC FLORIDAN AQUIFER WELL
 (2MW)=2" PVC SURFICIAL AQUIFER WELL



Scale In Feet
 Prepared/Date: JFW 10/14/97
 Checked/Date: GWC 10/14/97

Handwritten signature: Raymond Edmonds
Handwritten date: 10/14/97

West Pasco Class III Landfill
 Pasco County
 Board of County Commissioners
 Utility Services Branch
 Pasco County, Florida



LAW
 ENGINEERING AND ENVIRONMENTAL
 SERVICES

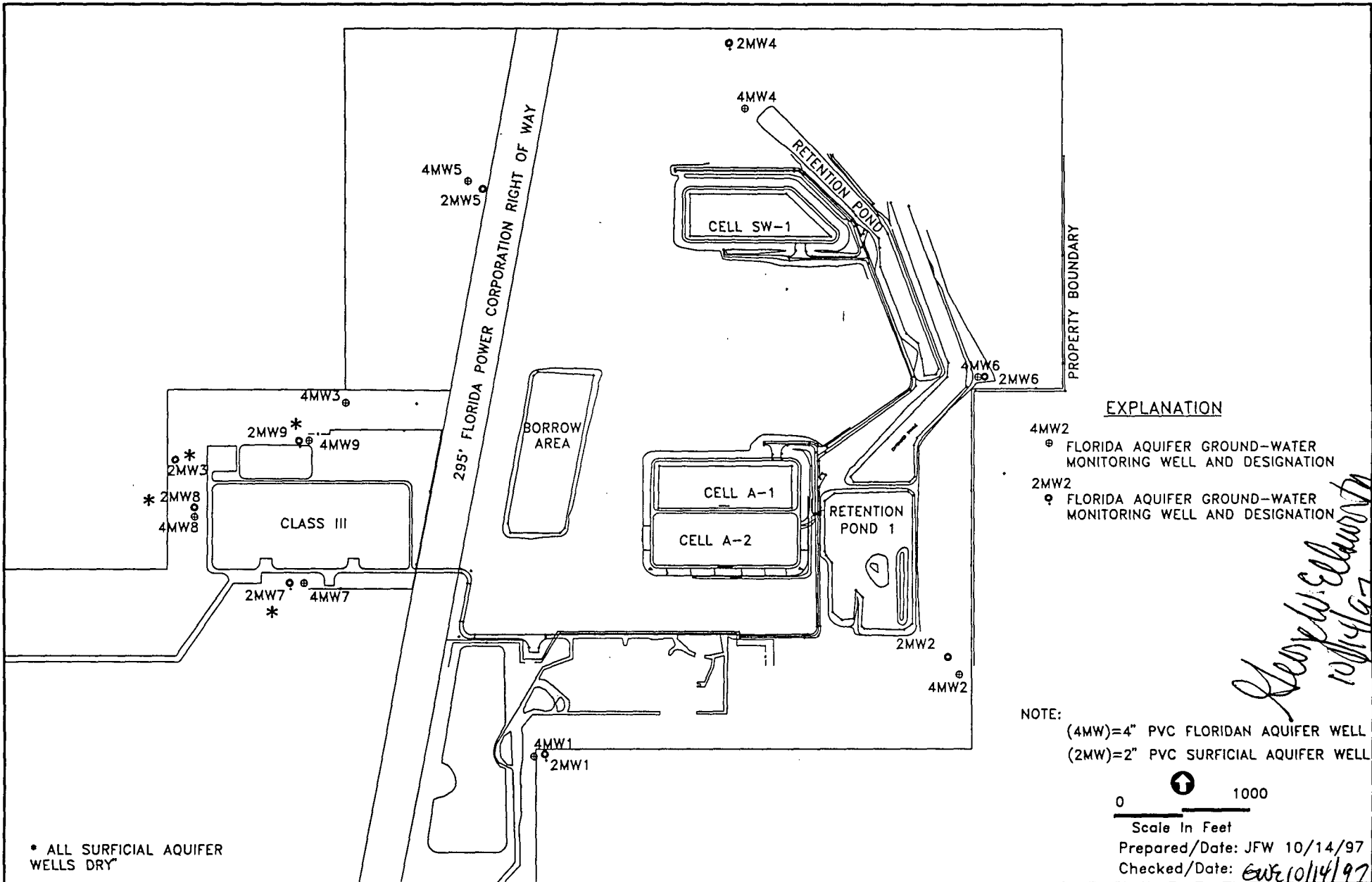
Ground-Water Monitoring

Floridan Aquifer Potentiometric Surface Map
 JULY 1997

Project 40141-5-0869

Figure 2

ACAD=41508692



• ALL SURFICIAL AQUIFER WELLS DRY

West Pasco Class III Landfill
Pasco County
Board of County Commissioners
Utility Services Branch
Pasco County, Florida



LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

Ground-Water Monitoring

Surficial Aquifer Water Table Map
JULY 1997

Project 40141-5-0869

Figure 1

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97 @ 1310

Test Site ID #: 4051A16325

Report Period: 1997 / Quarter III
(year/quarter)

Well Name: 4MW-3A

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

Well Type: (XXX) Background
() Intermediate
() Compliance
() Other

Groundwater Elevation (NGVD): _____

or (MSL): 25.60

6322
-B

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limts/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/16/97 1230	<0.11 mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1	08/05/97 1430	~ 10.7 mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B	07/15/97 1430	~ 1.18 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	07/21/97 1000	~ 41.9 mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	07/17/97 1630	~ 305 mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1	07/15/97 1310	~ 7.25 Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1	08/05/97 1510	~ 0.21 mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/06/97 1445	~ 0.0007 mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4	07/18/97 0830	~ 4.68 mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1	07/18/97 0900	~ 0.12 mg/L	0.10 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/22/97 0730	<0.02 mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B	07/15/97 1310	~ 25.1 °C	0 °C
000680	TOC	"	"	EPA 415.1	07/17/97 1100	~ 2.19 mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/15/97 1310	~ 383 μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1	07/17/97 1630	~ 148 mg/L	1 mg/L
072020	Water Level (MSL)	"	"		07/15/97 1310	f 25.60 Feet	Feet

*Attach Laboratory Reports

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw3A

FCEL LAB # 9707-170

PART III - ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: July 15, 1997 / 1250 hr.
 Test Site ID #: _____ Report Date: _____
 (Year / Quarter)
 Well Name: 4mw3A 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	Temp. (Field)					degree.C	degree.C
00400	pH (Field)					Std. Units	Std. Units
	Water Level Elev.					Ft. NGVD	Ft. NGVD
00094	Specific Cond. (Field)					umhos/cm	umhos/cm
01095	Antimony			EPA 204.2	7-23-97	0.0082	0.0013
01000	Arsenic			EPA 206.2	7-18-97	0.0029	0.00074
01005	Barium			EPA 200.7	7-25-97	< 0.0048	0.0048
01010	Beryllium			EPA 200.7	7-21-97	< 0.0016	0.0016
01025	Cadmium			EPA 213.2	7-28-97	< 0.000068	0.000068
01030	Chromium			EPA 200.7	7-29-97	< 0.022	0.022
01035	Cobalt			EPA 200.7	9-04-97	< 0.011	0.011
01040	Copper			EPA 200.7	7-18-97	0.012	0.0029
01049	Lead			EPA 239.2	7-21-97	0.00056	0.0002
01065	Nickel			EPA 200.7	7-21-97	0.047	0.028
01145	Selenium			EPA 270.2	7-22-97	< 0.0016	0.0016
01075	Silver			EPA 200.7	7-21-97	< 0.003	0.003
01057	Thallium			EPA 279.2	7-17-97	< 0.00078	0.00078
01085	Vanadium			EPA 200.7	9-04-97	< 0.009	0.009
01090	Zinc			EPA 200.7	7-21-97	< 0.003	0.003



PASCO COUNTY, FLORIDA

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

REPORT OF ANALYSES

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

6322

PROJECT NAME: CLIII GWM 97
DATE: 10/13/97
DHRS # 44237, E44123

SAMPLE NUMBER- ~~61029~~ SAMPLE ID- 4MW-3A
DATE SAMPLED- 10/07/97 LOCATION-
DATE RECEIVED- 10/07/97 SAMPLER- CHRIS CHILDRESS
TIME RECEIVED- 1445 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW
TIME SAMPLED- 1030
RECEIVED BY- AS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT	UNITS
		DATE	BY	DATE	TIME		
WATER LEVEL	FIELD			10/07/97	1030	CHR	31.99 FEET
FIELD PH	EPA 150.1			10/07/97	1030	CHR	6.70 STD. UNITS
FIELD TEMPERATURE	SM2550B			10/07/97	1030	CHR	25.0 DEGREES C
FIELD CONDUCTIVITY	SM2510B			10/07/97	1030	CHR	1700 umhos/cm
DISSOLVED OXYGEN, FIELD	SM4500-O G			10/07/97	1030	CHR	0.87 mg/L
ANTIMONY, TOTAL	204.2	10/08/97	TER	10/10/97	0935	TER	<0.001 mg/L

LABORATORY DIRECTOR *Adrian E. Valle*

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97 @ 1010

Test Site ID #: 4051A16325

Report Period: 1997 / Quarter III
(year/quarter)

Well Name: 4MW-8

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

6233

Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____

or (MSL): 26.50

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	07/16/97 1230	<0.11 mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1	08/05/97 1430	3.51 mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B	07/15/97 1430	0.24 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	0721/97 1000	5.31 mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	07/17/97 1630	181 mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1	07/15/97 1010	7.02 Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1	08/05/97 1510	0.05 mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/06/97 1445	0.0006 mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4	07/18/96 0830	1.96 mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1	07/18/97 0900	<0.03 mg/L	0.10 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/22/97 0730	<0.02 mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B	07/15/97 1010	24.5 °C	0 °C
000680	TOC	"	"	EPA 415.1	07/17/97 1100	0.86 mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/15/97 1010	261 μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1	07/17/97 1630	146 mg/L	1 mg/L
072020	Water Level (MSL)	"	"		07/15/97 1010	26.50 Feet	Feet

*Attach Laboratory Reports

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw8

FCEL LAB # 9707-171

PART III - ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: July 15, 1997 / 1010 hr.
 Test Site ID #: _____ Report Date: _____
 (Year / Quarter)
 Well Name: 4mw8 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	Temp.(Field)					degree.C	degree.C
00400	pH (Field)					Std. Units	Std. Units
	Water Level Elev.					Ft. NGVD	Ft. NGVD
00094	Specific Cond.(Field)					umhos/cm	umhos/cm
01095	Antimony			EPA 204.2	7-23-97	0.0067	0.0013
01000	Arsenic			EPA 206.2	7-18-97	0.0009	0.00074
01005	Barium			EPA 200.7	7-25-97	< 0.0048	0.0048
01010	Beryllium			EPA 200.7	7-21-97	< 0.0016	0.0016
01025	Cadmium			EPA 213.2	7-28-97	< 0.000068	0.000068
01030	Chromium			EPA 200.7	7-29-97	0.061	0.022
01035	Cobalt			EPA 200.7	9-04-97	< 0.011	0.011
01040	Copper			EPA 200.7	7-18-97	0.010	0.0029
01049	Lead			EPA 239.2	7-21-97	< 0.0002	0.0002
01065	Nickel			EPA 200.7	7-21-97	0.070	0.028
01145	Selenium			EPA 270.2	7-22-97	< 0.0016	0.0016
01075	Silver			EPA 200.7	7-21-97	< 0.003	0.003
01057	Thallium			EPA 279.2	7-17-97	< 0.00078	0.00078
01085	Vanadium			EPA 200.7	9-04-97	< 0.009	0.009
01090	Zinc			EPA 200.7	7-21-97	< 0.003	0.003

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw8

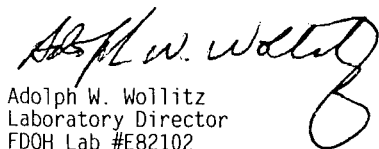
FCEL LAB # 9707-171

PART III - ANALYTICAL RESULTS - (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y) (N)	Analysis Method	Analysis Date	Analysis Results/ Units (ug/l)	Detection Limits Units (ug/l)
34418	Methyl chloride			EPA 8260A	7-21-97	< 0.155	0.155
77596	Methylene bromide			EPA 8260A	7-21-97	< 0.347	0.347
34423	Methylene chloride			EPA 8260A	7-21-97	< 0.282	0.282
81595	Methyl ethyl ketone			EPA 8260A	7-21-97	< 0.154	0.154
49262	Methyl iodide			EPA 8260A	7-21-97	< 0.506	0.506
78133	4-Methyl-2-pentanone			EPA 8260A	7-21-97	< 0.520	0.520
77128	Styrene			EPA 8260A	7-21-97	< 0.213	0.213
77562	1,1,1,2-Tetrachloroethane			EPA 8260A	7-21-97	< 0.192	0.192
34516	1,1,2,2-Tetrachloroethane			EPA 8260A	7-21-97	< 0.200	0.200
34476	Tetrachloroethene			EPA 8260A	7-21-97	< 0.188	0.188
78131	Toluene			EPA 8260A	7-21-97	< 0.249	0.249
34506	1,1,1-Trichloroethane			EPA 8260A	7-21-97	< 0.296	0.296
34511	1,1,2-Trichloroethane			EPA 8260A	7-21-97	< 0.115	0.115
34485	Trichloroethene			EPA 8260A	7-21-97	11.3	0.183
34488	Trichlorofluoromethane			EPA 8260A	7-21-97	< 0.423	0.423
77443	1,2,3-Trichloropropane			EPA 8260A	7-21-97	< 0.137	0.137
77057	Vinyl acetate			EPA 8260A	7-21-97	< 0.483	0.483
39175	Vinyl chloride			EPA 8260A	7-21-97	< 0.205	0.205
81551	Xylenes			EPA 8260A	7-21-97	< 0.108	0.108

Date Extraction: July 18, 1997

Respectfully submitted:


 Adolph W. Wollitz
 Laboratory Director
 FDOH Lab #E82102
 FDOH Lab #82110
 EPA #FL00062
 DEP Comp QAPP # 870222

AWW/tb



PASCO COUNTY, FLORIDA

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

REPORT OF ANALYSES

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

6233

PROJECT NAME: CLIII GWM 97
DATE: 10/13/97
DHRS # 44237, E44123

SAMPLE NUMBER- 61030 SAMPLE ID- 4MW-8
DATE SAMPLED- 10/07/97 LOCATION-
DATE RECEIVED- 10/07/97 SAMPLER- CHRIS CHILDRESS
TIME RECEIVED- 1445 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW
TIME SAMPLED- 0950
RECEIVED BY- AS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT	UNITS
		DATE	BY	DATE	TIME		
WATER LEVEL	FIELD			10/07/97	0950	CHR	26.25 FEET
FIELD PH	EPA 150.1			10/07/97	0950	CHR	7.07 STD. UNITS
FIELD TEMPERATURE	SM2550B			10/07/97	0950	CHR	24.0 DEGREES C
FIELD CONDUCTIVITY	SM2510B			10/07/97	0950	CHR	370 umhos/cm
DISSOLVED OXYGEN, FIELD	SM4500-O G			10/07/97	0950	CHR	1.00 mg/L
ANTIMONY, TOTAL	204.2	10/08/97	TER	10/10/97	0935	TER	<0.001 mg/L

LABORATORY DIRECTOR

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1060566/4MW8

FCEL LAB # 9710-77

PART III - ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: October 7, 1997 / 0950 hr.

Test Site ID #: _____ Report Date: _____
 (Year / Quarter)

Well Name: 4MW8 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	Temp. (Field)					degree.C	degree.C
00400	pH (Field)					Std. Units	Std. Units
	Water Level Elev.					Ft. NGVD	Ft. NGVD
00094	Specific Cond. (Field)					umhos/cm	umhos/cm
01095	Antimony			EPA 204.2			0.0013
01000	Arsenic			EPA 206.2			0.0037
01005	Barium			EPA 200.7			0.0048
01010	Beryllium			EPA 200.7			0.0016
01025	Cadmium			EPA 213.2			0.000068
01030	Chromium			EPA 200.7			0.022
01035	Cobalt			EPA 200.7			0.011
01040	Copper			EPA 220.1			0.011
01049	Lead			EPA 239.2			0.0002
01065	Nickel			EPA 200.7			0.028
01145	Selenium			EPA 270.2			0.0064
01075	Silver			EPA 200.7			0.003
01057	Thallium			EPA 279.2			0.00078
01085	Vanadium			EPA 200.7			0.009
01090	Zinc			EPA 289.1			0.003

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1060566/4MW8

FCEL LAB # 9710-77

PART III - ANALYTICAL RESULTS - (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y) (N)	Analysis Method	Analysis Date	Analysis Results/ Units (ug/l)	Detection Limits Units (ug/l)
34418	Methyl chloride			EPA 8260A			0.155
77596	Methylene bromide			EPA 8260A			0.347
34423	Methylene chloride			EPA 8260A			0.282
81595	Methyl ethyl ketone			EPA 8260A			0.154
49262	Methyl iodide			EPA 8260A			0.506
78133	4-Methyl-2-pentanone			EPA 8260A			0.520
77128	Styrene			EPA 8260A			0.213
77562	1,1,1,2-Tetrachloroethane			EPA 8260A			0.192
34516	1,1,2,2-Tetrachloroethane			EPA 8260A			0.200
34476	Tetrachloroethene			EPA 8260A			0.188
78131	Toluene			EPA 8260A			0.249
34506	1,1,1-Trichloroethane			EPA 8260A			0.296
34511	1,1,2-Trichloroethane			EPA 8260A			0.115
34485	Trichloroethene			EPA 8260A	10-9-97	< 0.183	0.183
34488	Trichlorofluoromethane			EPA 8260A			0.423
77443	1,2,3-Trichloropropane			EPA 8260A			0.137
77057	Vinyl acetate			EPA 8260A			0.483
39175	Vinyl chloride			EPA 8260A			0.205
81551	Xylenes			EPA 8260A			0.108

Date Extraction:

Respectfully submitted:



Adolph W. Wollitz
 Laboratory Director
 FDOH Lab #E82102
 FDOH Lab #B2110
 EPA #FL00062
 DEP Comp QAPP # 870222

AWW/tb

Page 4 of 4

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97 @ 1120

Test Site ID #: 4051A16325

Report Period: 1997 / Quarter III
(year/quarter)

Well Name: 4MW-9

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

6234

Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____

or (MSL): 24.48

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limts/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/16/97 1230	<0.11 mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1	08/05/97 1430	4.08 mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B	07/15/97 1430	0.15 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	07/21/97 1000	12.1 mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	07/17/97 1630	217 mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1	07/15/97 1120	7.11 Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1	08/05/97 1510	0.07 mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/06/97 1445	0.0006 mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4	07/18/97 0830	2.63 mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1	07/18/97 0900	<0.03 mg/L	0.10 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/22/97 0730	<0.02 mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B	07/15/97 1120	24.9 °C	0 °C
000680	TOC	"	"	EPA 415.1	07/17/97 1100	1.15 mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B	07/15/97 1120	315 μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1	07/17/97 1630	158 mg/L	1 mg/L
072020	Water Level (MSL)	"	"		07/15/97 1120	24.48 Feet	Feet

*Attach Laboratory Reports

FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw9

FCEL LAB # 9707-173

PART III - ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: July 15, 1997 / 1120 hr.
 Test Site ID #: _____ Report Date: _____
 (Year / Quarter)
 Well Name: 4mw9 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	Temp.(Field)					degree.C	degree.C
00400	pH (Field)					Std. Units	Std. Units
	Water Level Elev.					Ft. NGVD	Ft. NGVD
00094	Specific Cond.(Field)					umhos/cm	umhos/cm
01095	Antimony			EPA 204.2	7-23-97	0.0049	0.0013
01000	Arsenic			EPA 206.2	7-18-97	0.0043	0.00074
01005	Barium			EPA 200.7	7-25-97	< 0.0048	0.0048
01010	Beryllium			EPA 200.7	7-21-97	< 0.0016	0.0016
01025	Cadmium			EPA 213.2	7-28-97	< 0.000068	0.000068
01030	Chromium			EPA 200.7	7-29-97	0.036	0.022
01035	Cobalt			EPA 200.7	9-04-97	< 0.011	0.011
01040	Copper			EPA 200.7	7-18-97	0.035	0.0029
01049	Lead			EPA 239.2	7-21-97	0.00025	0.0002
01065	Nickel			EPA 200.7	7-21-97	0.055	0.028
01145	Selenium			EPA 270.2	7-22-97	< 0.0016	0.0016
01075	Silver			EPA 200.7	7-21-97	< 0.003	0.003
01057	Thallium			EPA 279.2	7-17-97	< 0.00078	0.00078
01085	Vanadium			EPA 200.7	9-04-97	< 0.009	0.009
01090	Zinc			EPA 200.7	7-21-97	< 0.003	0.003



PASCO COUNTY, FLORIDA

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

REPORT OF ANALYSES

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



PROJECT NAME: CLIII GWM QIII
DATE: 08/08/97
DHRS # 44237, E44123

SAMPLE NUMBER- 58602 SAMPLE ID- 4MW-3A SAMPLE MATRIX- WW
DATE SAMPLED- 07/15/97 LOCATION- TIME SAMPLED- 1310
DATE RECEIVED- 07/15/97 SAMPLER- CHRIS CHILDRESS RECEIVED BY- CEM
TIME RECEIVED- 1420 DELIVERED BY- CHRIS CHILDRESS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT	UNITS
		DATE	BY	DATE	TIME BY		
WATER LEVEL	FIELD			07/15/97	1310	CHR	25.60 FEET
FIELD PH	EPA 150.1			07/15/97	1310	CHR	7.25 STD. UNITS
FIELD TEMPERATURE	SM2550B			07/15/97	1310	CHR	25.1 DEGREES C
FIELD CONDUCTIVITY	SM2510B			07/15/97	1310	CHR	383 umhos/cm
DISSOLVED OXYGEN, FIELD	SM4500-O G			07/15/97	1310	CHR	0.4 mg/L
ALKALINITY, BICARB.	EPA310.1			07/17/97	1630	CMM	148 mg/l
TOT. ORGANIC CARBON	EPA 415.1			07/17/97	1100	IF	2.19 mg/L
CHLORIDE	EPA 325.2			07/21/97	1000	CMM	41.9 mg/L
COLOR	EPA 110.2			07/17/97	1430	CMM	5 PCU
FECAL COLIFORM MF	SM9222D			07/15/97	1500	JK	<1 MF/100 ml
AMMONIA NITROGEN	SM4500NH3E			07/18/97	0900	IF	0.12 mg/L
UN-IONIZED AMMONIA N	DEP SOP			07/22/97	0730	CEM	<0.02 mg/L
NITRATE	EPA 353.2			07/16/97	1230	IF	<0.11 mg/L
TOTAL DISS. SOLIDS	EPA160.1			07/17/97	1630	CMM	305 mg/L
SULFATE	EPA375.4			07/18/97	0830	CMM	4.68 mg/L
TURBIDITY	SM 2130 B			07/15/97	1430	CSC	1.18 NTU
IRON, TOTAL	SM3113B	07/18/97	TER	08/05/97	1510	TER	0.21 mg/L
MERCURY, TOTAL	245.1			08/06/97	1445	TER	0.0007 mg/L
SODIUM, TOTAL	273.1	07/18/97	TER	08/05/97	1430	TER	10.7 mg/L

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

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

REPORT OF ANALYSES

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

PROJECT NAME: CLIII GWM QIII
DATE: 08/08/97
DHRS # 44237, E44123

SAMPLE NUMBER- 58603 SAMPLE ID- 4MW-8 SAMPLE MATRIX- WW
DATE SAMPLED- 07/15/97 LOCATION- TIME SAMPLED- 1010
DATE RECEIVED- 07/15/97 SAMPLER- CHRIS CHILDRESS RECEIVED BY- CEM
TIME RECEIVED- 1420 DELIVERED BY- CHRIS CHILDRESS

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT	UNITS
		DATE	BY	DATE	TIME BY		
WATER LEVEL	FIELD			07/15/97	1010 CHR	26.50	FEET
FIELD PH	EPA 150.1			07/15/97	1010 CHR	7.02	STD. UNITS
FIELD TEMPERATURE	SM2550B			07/15/97	1010 CHR	24.5	DEGREES C
FIELD CONDUCTIVITY	SM2510B			07/15/97	1010 CHR	261	umhos/cm
DISSOLVED OXYGEN, FIELD	SM4500-O G			07/15/97	1010 CHR	0.6	mg/L
ALKALINITY, BICARB.	EPA310.1			07/17/97	1630 CMM	146	mg/l
TOT. ORGANIC CARBON	EPA 415.1			07/17/97	1100 IF	0.86	mg/L
CHLORIDE	EPA 325.2			07/21/97	1000 CMM	5.31	mg/L
COLOR	EPA 110.2			07/17/97	1430 CMM	2	PCU
FECAL COLIFORM MF	SM9222D			07/15/97	1500 JK	<1	MF/100 ml
AMMONIA NITROGEN	SM4500NH3E			07/18/97	0900 IF	<0.03	mg/L
UN-IONIZED AMMONIA N	DEP SOP			07/22/97	0730 CEM	<0.02	mg/L
NITRATE	EPA 353.2			07/16/97	1230 IF	<0.11	mg/L
TOTAL DISS. SOLIDS	EPA160.1			07/17/97	1630 CMM	181	mg/L
SULFATE	EPA375.4			07/18/97	0830 CMM	1.96	mg/L
TURBIDITY	SM 2130 B			07/15/97	1430 CSC	0.24	NTU
IRON, TOTAL	SM3113B	07/18/97	TER	08/05/97	1510 TER	0.05	mg/L
MERCURY, TOTAL	245.1			08/06/97	1445 TER	0.0006	mg/L
SODIUM, TOTAL	273.1	07/18/97	TER	08/05/97	1430 TER	3.51	mg/L

LABORATORY DIRECTOR 



PASCO COUNTY, FLORIDA

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

REPORT OF ANALYSES

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

PROJECT NAME: CLIII GWM QIII
DATE: 08/08/97
DHRS # 44237, E44123

SAMPLE NUMBER- 58604 SAMPLE ID- 4MW-9
DATE SAMPLED- 07/15/97 LOCATION-
DATE RECEIVED- 07/15/97 SAMPLER- CHRIS CHILDRESS
TIME RECEIVED- 1420 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW
TIME SAMPLED- 1120
RECEIVED BY- CEM

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT	UNITS
		DATE	BY	DATE	TIME		
WATER LEVEL	FIELD			07/15/97	1120	CHR	24.48 FEET
FIELD PH	EPA 150.1			07/15/97	1120	CHR	7.11 STD. UNITS
FIELD TEMPERATURE	SM2550B			07/15/97	1120	CHR	24.9 DEGREES C
FIELD CONDUCTIVITY	SM2510B			07/15/97	1120	CHR	315 umhos/cm
DISSOLVED OXYGEN, FIELD	SM4500-O G			07/15/97	1120	CHR	0.4 mg/L
ALKALINITY, BICARB.	EPA310.1			07/17/97	1630	CMM	158 mg/l
TOT. ORGANIC CARBON	EPA 415.1			07/17/97	1100	IF	1.15 mg/L
CHLORIDE	EPA 325.2			07/21/97	1000	CMM	12.1 mg/L
COLOR	EPA 110.2			07/17/97	1430	CMM	2 PCU
FECAL COLIFORM MF	SM9222D			07/15/97	1500	JK	<1 MF/100 ml
AMMONIA NITROGEN	SM4500NH3E			07/18/97	0900	IF	<0.03 mg/L
UN-IONIZED AMMONIA N	DEP SOP			07/22/97	0730	CEM	<0.02 mg/L
NITRATE	EPA 353.2			07/16/97	1230	IF	<0.11 mg/L
TOTAL DISS. SOLIDS	EPA160.1			07/17/97	1630	CMM	217 mg/L
SULFATE	EPA375.4			07/18/97	0830	CMM	2.63 mg/L
TURBIDITY	SM 2130 B			07/15/97	1430	CSC	0.15 NTU
IRON, TOTAL	SM3113B	07/18/97	TER	08/05/97	1510	TER	0.07 mg/L
MERCURY, TOTAL	245.1			08/06/97	1445	TER	0.0006 mg/L
SODIUM, TOTAL	273.1	07/18/97	TER	08/05/97	1430	TER	4.08 mg/L

LABORATORY DIRECTOR