



# 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 Nov 1997

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

*Date on cert.?*

**RECEIVED**  
NOV 21 1997

Department of Environmental Protection  
SOUTHWEST DISTRICT

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

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.

*ok - in lab report*

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

DEP Form # 62-522.600(21)  
 Form Title GROUND WATER MONITORING REPORT  
 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 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: 08/09/97 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

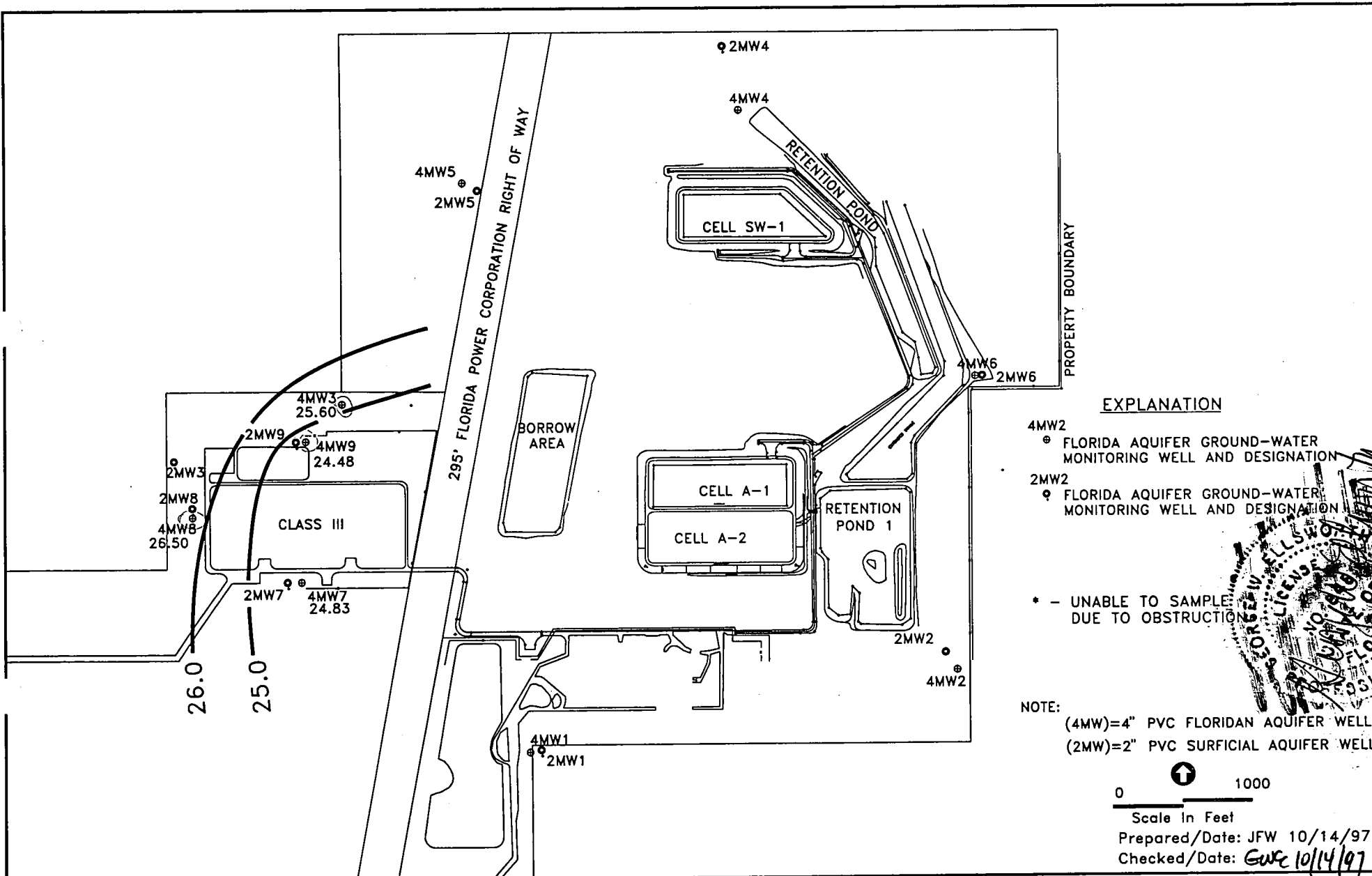
Address 8864 Government Drive, New Port Richey, FL 34654

Phone Number ( 813 ) 847-8902

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

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

AC:J=41508692



**EXPLANATION**

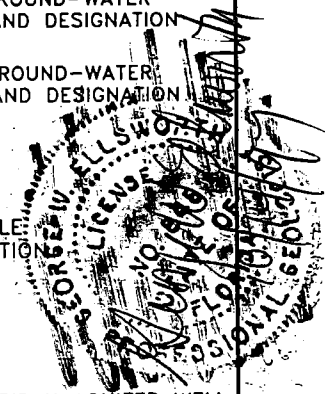
- 4MW2  
⊙ FLORIDA AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION
- 2MW2  
⊙ FLORIDA AQUIFER GROUND-WATER MONITORING WELL AND DESIGNATION

\* - 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



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



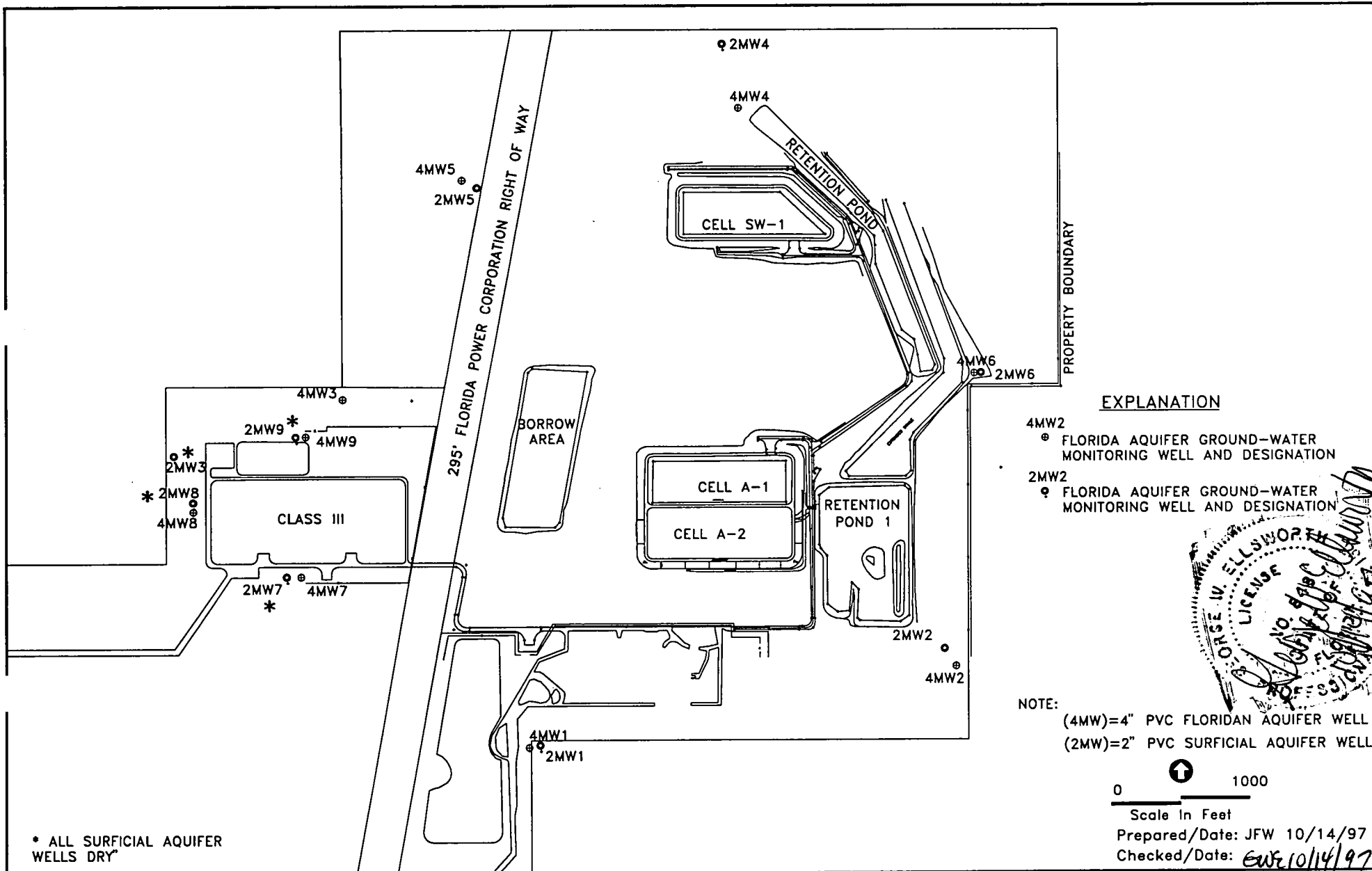
**Ground-Water Monitoring**

Floridan Aquifer Potentiometric Surface Map  
 JULY 1997

Project 40141-5-0869

Figure 2

ACAD=41508692



**EXPLANATION**

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

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



Prepared/Date: JFW 10/14/97  
 Checked/Date: *EWS 10/14/97*

\* ALL SURFICIAL AQUIFER WELLS DRY

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



**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

Test Site ID #: 4051A16325

Report Period: 1997 / Quarter III

Well Name: 2MW-3A

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
 ( ) Intermediate  
 (XXX) 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	EPA 353.2		Dry mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1		Dry mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		Dry mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		Dry mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1		Dry Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1		Dry mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1		Dry mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4		Dry mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1		Dry mg/L	0.10 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		Dry °C	0 °C
000680	TOC	"	"	EPA 415.1		Dry mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		Dry μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1		Dry mg/L	1 mg/L
072020	Water Level (MSL)	"	"			Dry Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97

Test Site ID #: 4051A16325

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

Well Name: 2MW-7

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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	EPA 353.2		Dry mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1		Dry mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		Dry mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		Dry mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1		Dry Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1		Dry mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1		Dry mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4		Dry mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1		Dry mg/L	0.10 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		Dry °C	0 °C
000680	TOC	"	"	EPA 415.1		Dry mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		Dry μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1		Dry mg/L	1 mg/L
072020	Water Level (MSL)	"	"			Dry Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97

Test Site ID #: 4051A16325

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

Well Name: 2MW-8

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 Limts/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2		Dry mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1		Dry mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		Dry mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		Dry mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1		Dry Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1		Dry mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1		Dry mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4		Dry mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1		Dry mg/L	0.10 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		Dry °C	0 °C
000680	TOC	"	"	EPA 415.1		Dry mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		Dry μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1		Dry mg/L	1 mg/L
072020	Water Level (MSL)	"	"			Dry Feet	Feet

\*Attach Laboratory Reports



PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97

Test Site ID #: 4051A16325

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

Well Name: 2MW-9

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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	EPA 353.2		Dry mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1		Dry mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		Dry mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		Dry mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1		Dry Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1		Dry mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1		Dry mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4		Dry mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1		Dry mg/L	0.10 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		Dry °C	0 °C
000680	TOC	"	"	EPA 415.1		Dry mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		Dry μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1		Dry mg/L	1 mg/L
072020	Water Level (MSL)	"	"			Dry Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97

Test Site ID #: 4051A16325

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

Well Name: 2MW-10

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 Limts/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2		Dry mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1		Dry mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		Dry mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		Dry mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1		Dry Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1		Dry mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1		Dry mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4		Dry mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1		Dry mg/L	0.10 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		Dry °C	0 °C
000680	TOC	"	"	EPA 415.1		Dry mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		Dry μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1		Dry mg/L	1 mg/L
072020	Water Level (MSL)	"	"			Dry Feet	Feet

\*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051M30035

Sampling Date/Time: 07/15/97

Test Site ID #: 4051A16325

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

Well Name 4MW-7

Well Purged (Y/N): YES

Classification of Groundwater: Floridan

Well Type: ( ) Background  
( ) Intermediate  
(XXX) 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 Limts/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2		Dry mg/L	0.15 mg/L
000929	Sodium	"	"	EPA 273.1		Dry mg/L	0.01 mg/L
082079	Turbidity	"	"	SM 2130B		Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B		Dry mg/L	0.15 mg/L
070300	Total Dis. Solids	"	"	SM 2540C		Dry mg/L	1 mg/L
000400	pH-Field	"	"	EPA 150.1		Dry Std. Units	0.01 Std. Units
001045	Iron	"	"	EPA 236.1		Dry mg/L	0.001 mg/L
071900	Mercury	"	"	EPA 245.1		Dry mg/L	0.0005 mg/L
000945	Sulfate	"	"	EPA 375.4		Dry mg/L	1 mg/L
000610	Ammonia	"	"	EPA 350.1		Dry mg/L	0.10 mg/L
000612	NH <sub>4</sub> -N	"	"	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000010	Temperature (Field)	"	"	SM 2550B		Dry °C	0 °C
000680	TOC	"	"	EPA 415.1		Dry mg/L	0.5 mg/L
000095	Specific Cond. (Field)	"	"	SM 2510B		Dry μmhos/cm	0.00 μmhos/cm
000410	Bicarbonate	"	"	EPA 310.1		Dry mg/L	1 mg/L
072020	Water Level (MSL)	"	"			Dry Feet	Feet

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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

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	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 <sub>4</sub> -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	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

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw3A

FCEL LAB # 9707-170

PART III - ANALYTICAL RESULTS - (Continued)

Storet Code	Parameter Monitored	Sampling Method	Field Filtered		Analysis Method	Analysis Date	Analysis Results/ Units (ug/l)	Detection Limits Units (ug/l)
			(Y)	(N)				
81552	Acetone				EPA 8260A	7-21-97	< 0.330	0.330
34215	Acrylonitrile				EPA 8260A	7-21-97	< 0.483	0.483
34235	Benzene				EPA 8260A	7-21-97	< 0.147	0.147
N/A	Bromochloromethane				EPA 8260A	7-21-97	< 0.300	0.300
32101	Bromodichloromethane				EPA 8260A	7-21-97	< 0.300	0.300
32104	Bromoform				EPA 8260A	7-21-97	< 0.226	0.226
77041	Carbon disulfide				EPA 8260A	7-21-97	< 0.459	0.459
32102	Carbon tetrachloride				EPA 8260A	7-21-97	< 0.316	0.316
34301	Chlorobenzene				EPA 8260A	7-21-97	< 0.234	0.234
34311	Chloroethane				EPA 8260A	7-21-97	< 0.148	0.148
32106	Chloroform				EPA 8260A	7-21-97	< 0.104	0.104
32105	Dibromochloromethane				EPA 8260A	7-21-97	< 0.185	0.185
38761	1,2-Dibromo-3-chloropropane				EPA 504	7-21-97	< 0.013	0.013
77651	1,2-Dibromoethane				EPA 504	7-21-97	< 0.014	0.014
34537	o-Dichlorobenzene				EPA 8260A	7-21-97	< 0.365	0.365
34571	p-Dichlorobenzene				EPA 8260A	7-21-97	< 0.298	0.298
49263	Trans-1,4-Dichloro-2-butene				EPA 8260A	7-21-97	< 0.221	0.221
34496	1,1-Dichloroethane				EPA 8260A	7-21-97	< 0.275	0.275
32103	1,2-Dichloroethane				EPA 8260A	7-21-97	< 0.128	0.128
34502	1,1-Dichloroethene				EPA 8260A	7-21-97	< 0.128	0.128
81686	cis-1,2-Dichloroethene				EPA 8260A	7-21-97	< 0.253	0.253
34546	trans-1,2-Dichloroethene				EPA 8260A	7-21-97	< 0.195	0.195
34541	1,2-Dichloropropane				EPA 8260A	7-21-97	< 0.147	0.147
34704	cis-1,3-Dichloropropene				EPA 8260A	7-21-97	< 0.157	0.157
34699	trans-1,3-Dichloropropene				EPA 8260A	7-21-97	< 0.198	0.198
78113	Ethylbenzene				EPA 8260A	7-21-97	< 0.173	0.173
77103	2-Hexanone				EPA 8260A	7-21-97	< 0.494	0.494
34413	Methyl bromide				EPA 8260A	7-21-97	< 0.177	0.177

Date Extraction: July 18, 1997

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw3A

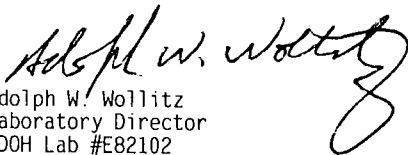
FCEL LAB # 9707-170

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	< 0.183	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



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

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 <sub>4</sub> -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.

DEP Form # 62-522.900(2)  
Form Title GROUND WATER MONITORING REPORT  
Effective Date \_\_\_\_\_  
DEP Application No. \_\_\_\_\_

BROWARD LAB # 1057997/4mw8

FCEL LAB # 9707-171

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

GROUND WATER MONITORING REPORT  
Rule 62-522.600(11)


PART I - GENERAL INFORMATION

- (1) Facility Name: WEST Pasco Class III
- Address: \_\_\_\_\_
- City, State, Zip: \_\_\_\_\_
- Telephone Number: \_\_\_\_\_
- (2) The GMS Identification #: \_\_\_\_\_
- (3) DEP Permit #: \_\_\_\_\_
- (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.

29 SEPT 197  
Date: \_\_\_\_\_

  
Signature of Owner or Authorized Representative

PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab	Comp QAP # / HRS Cert. #	<u>870222 / E82102 / 82110</u>
	Comp QAP # / HRS Cert. #	_____

Lab Name: BROWARD TESTING LABORATORY

Address: 4416 N.E. 11TH AVENUE

City, State, Zip: FT. LAUDERDALE, FLORIDA 33334

Telephone Number: 1-216/449-2525

# 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)
81552	Acetone			EPA 8260A	7-21-97	< 0.330	0.330
34215	Acrylonitrile			EPA 8260A	7-21-97	< 0.483	0.483
34235	Benzene			EPA 8260A	7-21-97	< 0.147	0.147
N/A	Bromochloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32101	Bromodichloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32104	Bromoform			EPA 8260A	7-21-97	< 0.226	0.226
77041	Carbon disulfide			EPA 8260A	7-21-97	< 0.459	0.459
32102	Carbon tetrachloride			EPA 8260A	7-21-97	< 0.316	0.316
34301	Chlorobenzene			EPA 8260A	7-21-97	< 0.234	0.234
34311	Chloroethane			EPA 8260A	7-21-97	< 0.148	0.148
32106	Chloroform			EPA 8260A	7-21-97	< 0.104	0.104
32105	Dibromochloromethane			EPA 8260A	7-21-97	< 0.185	0.185
38761	1,2-Dibromo-3-chloropropane			EPA 504	7-21-97	< 0.013	0.013
77651	1,2-Dibromoethane			EPA 504	7-21-97	< 0.014	0.014
34537	o-Dichlorobenzene			EPA 8260A	7-21-97	< 0.365	0.365
34571	p-Dichlorobenzene			EPA 8260A	7-21-97	< 0.298	0.298
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	7-21-97	< 0.221	0.221
34496	1,1-Dichloroethane			EPA 8260A	7-21-97	< 0.275	0.275
32103	1,2-Dichloroethane			EPA 8260A	7-21-97	< 0.128	0.128
34502	1,1-Dichloroethene			EPA 8260A	7-21-97	< 0.128	0.128
81686	cis-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.253	0.253
34546	trans-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.195	0.195
34541	1,2-Dichloropropane			EPA 8260A	7-21-97	< 0.147	0.147
34704	cis-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.157	0.157
34699	trans-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.198	0.198
78113	Ethylbenzene			EPA 8260A	7-21-97	< 0.173	0.173
77103	2-Hexanone			EPA 8260A	7-21-97	< 0.494	0.494
34413	Methyl bromide			EPA 8260A	7-21-97	< 0.177	0.177

Date Extraction: July 18, 1997

# 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

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

DEP Form # 62-522.900(2)  
Form Title GROUND WATER MONITORING REPORT  
Effective Date \_\_\_\_\_  
DEP Application No. \_\_\_\_\_

BROWARD LAB # 1060566/4MW8

FCEL LAB # 9710-77

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

## GROUND WATER MONITORING REPORT Rule 62-522.600(11)


### PART I - GENERAL INFORMATION

- (1) Facility Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_
- (2) The GMS Identification #: \_\_\_\_\_
- (3) DEP Permit #: \_\_\_\_\_
- (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: 18 Nov '97

  
Signature of Owner or Authorized Representative

### PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab Comp QAP # / HRS Cert. # 870222 / E82102 / 82110  
Comp QAP # / HRS Cert. # \_\_\_\_\_

Lab Name: BROWARD TESTING LABORATORY

Address: 4416 N.E. 11TH AVENUE

City, State, Zip: FT. LAUDERDALE, FLORIDA 33334

Telephone Number: 1-216/449-2525

# 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)
81552	Acetone			EPA 8260A			0.330
34215	Acrylonitrile			EPA 8260A			0.483
34235	Benzene			EPA 8260A			0.147
N/A	Bromochloromethane			EPA 8260A			0.300
32101	Bromodichloromethane			EPA 8260A			0.300
32104	Bromoform			EPA 8260A			0.226
77041	Carbon disulfide			EPA 8260A			0.459
32102	Carbon tetrachloride			EPA 8260A			0.316
34301	Chlorobenzene			EPA 8260A			0.234
34311	Chloroethane			EPA 8260A			0.148
32106	Chloroform			EPA 8260A			0.104
32105	Dibromochloromethane			EPA 8260A			0.185
38761	1,2-Dibromo-3-chloropropane			EPA 504			0.013
77651	1,2-Dibromoethane			EPA 504			0.014
34537	o-Dichlorobenzene			EPA 8260A			0.365
34571	p-Dichlorobenzene			EPA 8260A			0.298
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A			0.221
34496	1,1-Dichloroethane			EPA 8260A			0.275
32103	1,2-Dichloroethane			EPA 8260A			0.128
34502	1,1-Dichloroethene			EPA 8260A			0.128
81686	cis-1,2-Dichloroethene			EPA 8260A			0.253
34546	trans-1,2-Dichloroethene			EPA 8260A			0.195
34541	1,2-Dichloropropane			EPA 8260A			0.147
34704	cis-1,3-Dichloropropene			EPA 8260A			0.157
34699	trans-1,3-Dichloropropene			EPA 8260A			0.198
78113	Ethylbenzene			EPA 8260A			0.173
77103	2-Hexanone			EPA 8260A			0.494
34413	Methyl bromide			EPA 8260A			0.177

Date Extraction:



# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1060566/4MWB

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* Technical Director for A.W.W.

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

AWW/tb

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

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 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	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 <sub>4</sub> -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.

DEP Form # 62-522.900(2)  
Form Title GROUND WATER MONITORING REPORT  
Effective Date \_\_\_\_\_  
DEP Application No. \_\_\_\_\_

BROWARD LAB # 1057997/4mw9

FCEL LAB # 9707-173

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

## GROUND WATER MONITORING REPORT Rule 62-522.600(11)

### PART I - GENERAL INFORMATION

- (1) Facility Name: WEST PASCO Class III  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_
- (2) The GMS Identification #: \_\_\_\_\_
- (3) DEP Permit #: \_\_\_\_\_
- (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: 29 SEPT 1977

  
Signature of Owner or Authorized Representative

### PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab      Comp QAP # / HRS Cert. #      870222 / E82102 / 82110

                            Comp QAP # / HRS Cert. #      \_\_\_\_\_

Lab Name: BROWARD TESTING LABORATORY

Address: 4416 N.E. 11TH AVENUE

City, State, Zip: FT. LAUDERDALE, FLORIDA 33334

Telephone Number: 1-216/449-2525

# 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

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw9

FCEL LAB # 9707-173

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)
81552	Acetone			EPA 8260A	7-21-97	< 0.330	0.330
34215	Acrylonitrile			EPA 8260A	7-21-97	< 0.483	0.483
34235	Benzene			EPA 8260A	7-21-97	< 0.147	0.147
N/A	Bromochloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32101	Bromodichloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32104	Bromoform			EPA 8260A	7-21-97	< 0.226	0.226
77041	Carbon disulfide			EPA 8260A	7-21-97	< 0.459	0.459
32102	Carbon tetrachloride			EPA 8260A	7-21-97	< 0.316	0.316
34301	Chlorobenzene			EPA 8260A	7-21-97	< 0.234	0.234
34311	Chloroethane			EPA 8260A	7-21-97	< 0.148	0.148
32106	Chloroform			EPA 8260A	7-21-97	< 0.104	0.104
32105	Dibromochloromethane			EPA 8260A	7-21-97	< 0.185	0.185
38761	1,2-Dibromo-3-chloropropane			EPA 504	7-21-97	< 0.013	0.013
77651	1,2-Dibromoethane			EPA 504	7-21-97	< 0.014	0.014
34537	o-Dichlorobenzene			EPA 8260A	7-21-97	< 0.365	0.365
34571	p-Dichlorobenzene			EPA 8260A	7-21-97	< 0.298	0.298
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	7-21-97	< 0.221	0.221
34496	1,1-Dichloroethane			EPA 8260A	7-21-97	< 0.275	0.275
32103	1,2-Dichloroethane			EPA 8260A	7-21-97	< 0.128	0.128
34502	1,1-Dichloroethene			EPA 8260A	7-21-97	< 0.128	0.128
81686	cis-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.253	0.253
34546	trans-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.195	0.195
34541	1,2-Dichloropropane			EPA 8260A	7-21-97	< 0.147	0.147
34704	cis-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.157	0.157
34699	trans-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.198	0.198
78113	Ethylbenzene			EPA 8260A	7-21-97	< 0.173	0.173
77103	2-Hexanone			EPA 8260A	7-21-97	< 0.494	0.494
34413	Methyl bromide			EPA 8260A	7-21-97	< 0.177	0.177

Date Extraction: July 18, 1997

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/4mw9

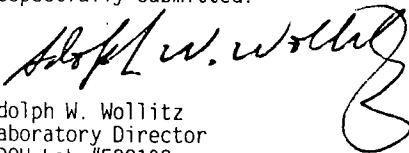
FCEL LAB # 9707-173

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	< 0.183	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

DATE: 10/14/97  
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



# 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

DATE: 10/14/97  
DHRS # 44237, E44123

SAMPLE NUMBER- 61030    SAMPLE ID- 4MW-8    SAMPLE MATRIX- WW  
DATE SAMPLED- 10/07/97    LOCATION-    TIME SAMPLED- 0950  
DATE RECEIVED- 10/07/97    SAMPLER- CHRIS CHILDRESS    RECEIVED BY- AS  
TIME RECEIVED- 1445    DELIVERED BY- CHRIS CHILDRESS

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





# PASCO COUNTY, FLORIDA

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

QC REPORT FOR CLASS III LANDFILL 10/14/97

QA/QC for SAMPLE Nos: 61029, 61030.

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
ANTIMONY, TOTAL 204.2 mg/L	61029	<0.001	<0.001	0.00050	0.00	93.30	9977	22.7	22.78	100.40



# 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

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- 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		
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 SAMPLE MATRIX- WW  
DATE SAMPLED- 07/15/97 LOCATION- TIME SAMPLED- 1120  
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	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







# PASCO COUNTY, FLORIDA

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

QC REPORT FOR CLASS III LANDFILL 08/08/97

QA/QC for SAMPLE Nos: 58602, 58603, 58604,  
 Page 3

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
IRON, TOTAL SM31138 mg/L	58649	.298	.284	0.014	4.81	-----	3418	292	312	106.80
MERCURY, TOTAL 245.1 mg/L	58812	0.57	0.55	0.020	3.57	100.00	-----	-----	-----	-----
SODIUM, TOTAL 273.1 mg/L	58812	3.86	3.82	0.040	1.04	100.50	-----	-----	-----	-----

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

DEP Form # 62-522.900(2)  
Form Title GROUND WATER MONITORING REPORT  
Effective Date \_\_\_\_\_  
DEP Application No. \_\_\_\_\_

BROWARD LAB # 1057997/Trip Blank

FCEL LAB # 9707-172

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

## GROUND WATER MONITORING REPORT Rule 62-522.600(11)

### PART I - GENERAL INFORMATION

- (1) Facility Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_
- (2) The GMS Identification #: \_\_\_\_\_
- (3) DEP Permit #: \_\_\_\_\_
- (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:

\_\_\_\_\_ Signature of Owner or Authorized Representative

### PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab Comp QAP # / HRS Cert. # 870222 / E82102 / 82110  
Comp QAP # / HRS Cert. # \_\_\_\_\_

Lab Name: BROWARD TESTING LABORATORY

Address: 4416 N.E. 11TH AVENUE

City, State, Zip: FT. LAUDERDALE, FLORIDA 33334

Telephone Number: 1-216/449-2525



# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/Trip Blank

FCEL LAB # 9707-172

PART III - ANALYTICAL RESULTS

Facility GMS #: \_\_\_\_\_ Sampling Date/Time: July 15, 1997 / 1010 hr.  
 Test Site ID #: \_\_\_\_\_ Report Date: \_\_\_\_\_  
 (Year / Quarter)  
 Well Name: Trip Blank 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			0.00074
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 200.7			0.0029
01049	Lead			EPA 239.2			0.0002
01065	Nickel			EPA 200.7			0.028
01145	Selenium			EPA 270.2			0.0016
01075	Silver			EPA 200.7			0.0033
01057	Thallium			EPA 279.2			0.00078
01085	Vanadium			EPA 200.7			0.0088
01090	Zinc			EPA 200.7			0.0032

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/Trip Blank

FCEL LAB # 9707-172

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)
81552	Acetone			EPA 8260A	7-21-97	< 0.330	0.330
34215	Acrylonitrile			EPA 8260A	7-21-97	< 0.483	0.483
34235	Benzene			EPA 8260A	7-21-97	< 0.147	0.147
N/A	Bromochloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32101	Bromodichloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32104	Bromoform			EPA 8260A	7-21-97	< 0.226	0.226
77041	Carbon disulfide			EPA 8260A	7-21-97	< 0.459	0.459
32102	Carbon tetrachloride			EPA 8260A	7-21-97	< 0.316	0.316
34301	Chlorobenzene			EPA 8260A	7-21-97	< 0.234	0.234
34311	Chloroethane			EPA 8260A	7-21-97	< 0.148	0.148
32106	Chloroform			EPA 8260A	7-21-97	< 0.104	0.104
32105	Dibromochloromethane			EPA 8260A	7-21-97	< 0.185	0.185
38761	1,2-Dibromo-3-chloropropane			EPA 504	7-21-97	< 0.013	0.013
77651	1,2-Dibromoethane			EPA 504	7-21-97	< 0.014	0.014
34537	o-Dichlorobenzene			EPA 8260A	7-21-97	< 0.365	0.365
34571	p-Dichlorobenzene			EPA 8260A	7-21-97	< 0.298	0.298
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	7-21-97	< 0.221	0.221
34496	1,1-Dichloroethane			EPA 8260A	7-21-97	< 0.275	0.275
32103	1,2-Dichloroethane			EPA 8260A	7-21-97	< 0.128	0.128
34502	1,1-Dichloroethene			EPA 8260A	7-21-97	< 0.128	0.128
81686	cis-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.253	0.253
34546	trans-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.195	0.195
34541	1,2-Dichloropropane			EPA 8260A	7-21-97	< 0.147	0.147
34704	cis-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.157	0.157
34699	trans-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.198	0.198
78113	Ethylbenzene			EPA 8260A	7-21-97	< 0.173	0.173
77103	2-Hexanone			EPA 8260A	7-21-97	< 0.494	0.494
34413	Methyl bromide			EPA 8260A	7-21-97	< 0.177	0.177

Date Extraction: July 18, 1997

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1057997/Trip Blank

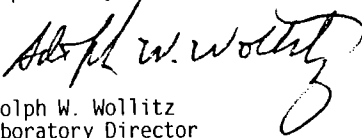
FCEL LAB # 9707-172

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	< 0.183	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

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

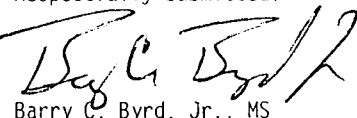
Appx I

Client: Broward Testing Lab./National Testing Lab.  
 Sample I.D. Method Blank  
 Sample Matrix: Water

Lab #:  
 Date Received:  
 Date Completed: July 21, 1997  
 Date Extraction:  
 Collection Date:

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y) (N)	Analysis Method	Analysis Date	Analysis Results/ Units (ug/l)	Detection Limits Units (ug/l)
81552	Acetone			EPA 8260A	7-21-97	< 0.330	0.330
34215	Acrylonitrile			EPA 8260A	7-21-97	< 0.483	0.483
34235	Benzene			EPA 8260A	7-21-97	< 0.147	0.147
N/A	Bromodichloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32101	Bromodichloromethane			EPA 8260A	7-21-97	< 0.300	0.300
32104	Bromoform			EPA 8260A	7-21-97	< 0.226	0.226
77041	Carbon disulfide			EPA 8260A	7-21-97	< 0.459	0.459
32102	Carbon tetrachloride			EPA 8260A	7-21-97	< 0.316	0.316
34301	Chlorobenzene			EPA 8260A	7-21-97	< 0.234	0.234
34311	Chloroethane			EPA 8260A	7-21-97	< 0.148	0.148
32106	Chloroform			EPA 8260A	7-21-97	< 0.104	0.104
32105	Dibromochloromethane			EPA 8260A	7-21-97	< 0.185	0.185
38761	1,2-Dibromo-3-chloropropane			EPA 504	7-21-97	< 0.013	0.013
77651	1,2-Dibromoethane			EPA 504	7-21-97	< 0.014	0.014
34537	o-Dichlorobenzene			EPA 8260A	7-21-97	< 0.365	0.365
34571	p-Dichlorobenzene			EPA 8260A	7-21-97	< 0.298	0.298
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	7-21-97	< 0.221	0.221
34496	1,1-Dichloroethane			EPA 8260A	7-21-97	< 0.275	0.275
32103	1,2-Dichloroethane			EPA 8260A	7-21-97	< 0.128	0.128
34502	1,1-Dichloroethene			EPA 8260A	7-21-97	< 0.128	0.128
81686	cis-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.253	0.253
34546	trans-1,2-Dichloroethene			EPA 8260A	7-21-97	< 0.195	0.195
34541	1,2-Dichloropropane			EPA 8260A	7-21-97	< 0.147	0.147
34704	cis-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.157	0.157
34699	trans-1,3-Dichloropropene			EPA 8260A	7-21-97	< 0.198	0.198
78113	Ethylbenzene			EPA 8260A	7-21-97	< 0.173	0.173
77103	2-Hexanone			EPA 8260A	7-21-97	< 0.494	0.494
34413	Methyl bromide			EPA 8260A	7-21-97	< 0.177	0.177
34418	Methyl chloride			EPA 8260A	7-21-97	< 0.155	0.155
77596	Methylene bromide			EPA 8260A	7-21-97	< 0.347	0.347
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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	< 0.183	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
x1551	Xylenes			EPA 8260A	7-21-97	< 0.108	0.108

Respectfully submitted:



Barry C. Byrd, Jr., MS  
 Technical Director  
 FDOH Lab #E82102  
 FDOH Lab #82110  
 EPA #FL00062  
 DEP Comp QAPP # 870222

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

## Analytical Quality Assurance Summary Organic Analysis

Client Broward Testing Lab./National Testing Lab.  
Sample I.D. 9707-199  
Date Rec'd \_\_\_\_\_  
Analysis Date July 21, 1997

### EPA Method 504

Analyte	Accuracy		Precision RPD	Acceptance Limits	
	% Recovery (MS)	% Recovery (MSD)		Accuracy	Precision
Ethylene Dibromide (EDB)	106	104	1.90	83 - 111	11
1,2-Dibromo-3-Chloropropane (DBCP)	91	88	3.35	84 - 110	12

Respectfully submitted:



Barry C. Byrd, Jr., MS  
Technical Director  
FDOH Lab #E82102  
FDOH Lab #82110  
EPA #FL00062  
DEP Comp QAPP # 870222

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

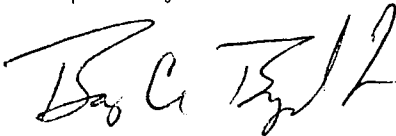
## Analytical Quality Assurance Summary Organic Analysis

Client Broward Testing Lab./National Testing Lab.  
Sample I.D. 9707-199  
Date Rec'd \_\_\_\_\_  
Analysis Date July 21, 1997

### EPA 8260A Pureable Organics

Analyte	Accuracy		Precision RPD	Acceptance Limits	
	% Recovery (MS)	% Recovery (MSD)		Accuracy	Precision
Benzene	98	98	0	78 - 116	17
Chlorobenzene	95	99	4.12	81 - 115	18
1,1-Dichloroethene	101	103	1.96	75 - 113	20
Toluene	90	97	7.49	78 - 126	24
Trichloroethene	98	99	1.02	70 - 110	22
<u>Surrogates</u>					
Dibromofluoromethane	100	102	----	81 - 135	--
Toluene-d8	97	95	----	74 - 122	--
Bromofluorobenzene	90	93	----	81 - 137	--

Respectfully submitted:



Barry C. Byrd, Jr., MS  
Technical Director  
FDOH Lab #E82102  
FDOH Lab #82110  
EPA #FL00062  
DEP Comp QAPP # 870222

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

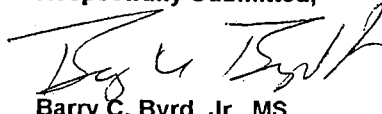
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-194  
Date Rec.'d: 17-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Thallium	279.2	93.6	91	2.82	63.5 - 142.4	24.3

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

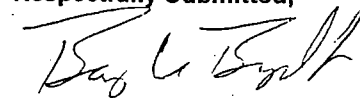
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-199  
Date Rec.'d: 18-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Arsenic	206.2	104.9	107.1	2.08	74.1 - 132	35
Barium	200.7	105.8	104.4	1.33	78 - 128.4	15.1
Chromium	200.7	103.5	101.4	2.05	82.7 - 118.5	12.7
Silver	200.7	78.3	79.9	1.52	77.6 - 126.2	11
Beryllium	200.7	86.6	85.2	1.63	75.6 - 142.1	9.5
Copper	200.7	111.38	108.07	3.01	77.2-118.4	11.1
Nickel	200.7	93.9	92.1	1.94	90.1 - 121.4	9.9
Zinc	200.7	89.2	88.6	0.68	78.8 - 114.9	9.31

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

8818 Arlington Expressway • Jacksonville, Florida 32211  
(904) 725-4847 • Fax (904) 725-2215



# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

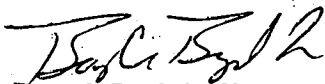
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-278  
Date Rec.'d: 24-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Arsenic	206.2	111.2	111.7	0.45	74.1 - 132	35
Barium	200.7	93.9	94.5	0.66	78 - 128.4	15.1
Chromium	200.7	92.4	103.1	10.9	82.7 - 118.5	12.7
Lead	239.2	106.9	111.5	4.21	66.8 - 132.9	22.9
Selenium	270.2	100.5	107.4	6.64	66.4 - 132.6	28
Silver	200.7	84.6	81.6	3.61	77.6 - 126.2	11
Beryllium	200.7	97.5	96.9	0.67	75.6 - 142.1	9.5
Copper	220.1	104.1	101.7	2.33	80.1 - 119.3	5.5
Nickel	200.7	95.44	93.41	2.15	90.1 - 121.4	9.9
Thallium	279.2	97.2	93.3	4.18	63.5 - 142.4	24.3
Zinc	200.7	95.7	93.5	2.33	78.8 - 114.9	9.31

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS

Technical Director/QA Officer

FL Dept. of Health Safe Drinking Water Lab #82110

FL Dept. of Health Environmental Lab #E82102

FL DEP Comprehensive QA Plan #870222

EPA Lab # FL00062

8818 Arlington Expressway • Jacksonville, Florida 32211

(904) 725-4847 • Fax (904) 725-2215

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

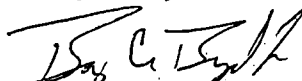
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-282  
Date Rec.'d: 24-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Lead	239.2	106.9	111.5	4.21	66.8 - 132.9	22.9
Silver	200.7	94.1	91.7	2.58	77.6 - 126.2	11
Copper	220.1	104.1	101.7	2.33	80.1 - 119.3	5.5
Zinc	289.1	96.11	96.28	0.18	86.7 - 110.5	4.99

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

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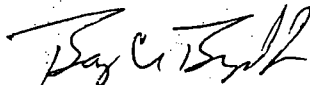
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-294  
Date Rec.'d: 25-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Arsenic	206.2	93.1	105.3	12.3	74.1 - 132	35
Lead	239.2	111.7	113.7	1.77	66.8 - 132.9	22.9
Selenium	270.2	100.5	107.4	6.64	66.4 - 132.6	28
Silver	200.7	94.1	91.7	2.58	77.6 - 126.2	11
Antimony	204.2	91.88	86.56	5.96	59.7 - 127.6	31
Copper	220.1	97.62	98.33	0.72	80.1 - 119.3	5.5
Nickel	200.7	95.44	93.41	2.15	90.1 - 121.4	9.9
Zinc	289.1	96.11	96.28	0.18	86.7 - 110.5	4.99

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Respectfully Submitted,



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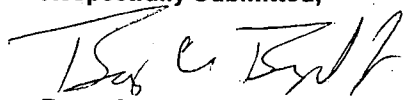
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-296  
Date Rec.'d: 25-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Cadmium	213.2	91.7	96.7	5.31	67 - 132	13.7

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted;

  
Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

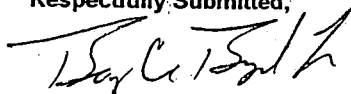
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-325  
Date Rec.'d: 29-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Arsenic	206.2	93.1	105.3	12.3	74.1 - 132	35
Barium	200.7	93.9	94.5	0.66	78 - 128.4	15.1
Cadmium	213.2	96.3	98.2	1.95	67 - 132	13.7
Chromium	200.7	91.9	89.1	3.09	82.7 - 118.5	12.7
Lead	239.2	111.7	113.7	1.77	66.8 - 132.9	22.9
Selenium	270.2	100.5	107.4	6.64	66.4 - 132.6	28
Silver	200.7	94.1	91.7	2.58	77.6 - 126.2	11
Antimony	204.2	91.88	86.56	5.96	59.7 - 127.6	31
Beryllium	200.7	97.5	96.9	0.67	75.6 - 142.1	9.5
Copper	220.1	97.62	98.33	0.72	80.1 - 119.3	5.5
Nickel	200.7	95.44	93.41	2.15	90.1 - 121.4	9.9
Zinc	289.1	96.11	96.28	0.18	86.7 - 110.5	4.99

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer

FL Dept. of Health Safe Drinking Water Lab #82110

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FL DEP Comprehensive QA Plan #870222

EPA Lab # FL00062

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Quality Assurance / Quality Control Program

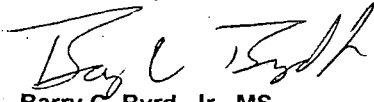
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-327  
Date Rec.'d: 29-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Chromium	200.7	91.9	89.1	3.09	82.7 - 118.5	12.7

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Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
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FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

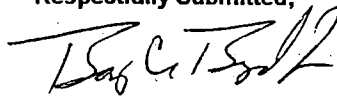
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-357  
Date Rec.'d: 30-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Arsenic	206.2	94.1	97.4	3.44	74.1 - 132	35
Barium	200.7	93.9	94.5	0.66	78 - 128.4	15.1
Cadmium	213.2	96.3	98.2	1.95	67 - 132	13.7
Chromium	200.7	93.1	92.7	0.39	82.7 - 118.5	12.7
Lead	239.2	100	103.6	3.54	66.8 - 132.9	22.9
Selenium	270.2	100.5	107.4	6.64	66.4 - 132.6	28
Silver	200.7	94.1	91.7	2.58	77.6 - 126.2	11
Antimony	204.2	91.88	86.56	5.96	59.7 - 127.6	31
Beryllium	200.7	97.5	96.9	0.67	75.6 - 142.1	9.5
Copper	220.1	97.62	98.33	0.72	80.1 - 119.3	5.5
Nickel	200.7	95.44	93.4	2.15	90.1 - 121.4	9.9
Zinc	289.1	96.11	96.28	0.18	86.7 - 110.5	4.99

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
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FL Dept. of Health Environmental Lab #E82102  
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EPA Lab # FL00062  
8818 Arlington Expressway • Jacksonville, Florida 32211  
(904) 725-4847 • Fax (904) 725-2215

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

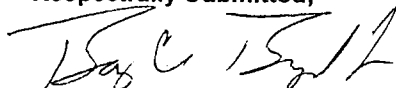
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-170  
Date Rec.'d: 17-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Lead	239.2	112	115.6	3.16	66.8 - 132.9	22.9
Thallium	279.2	106.51	102.58	3.76	63.5 - 142.4	24.3

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062



# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

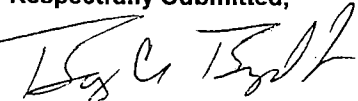
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-171  
Date Rec.'d: 17-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Thallium	279.2	106.51	102.58	3.76	63.5 - 142.4	24.3

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Respectfully Submitted,



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Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

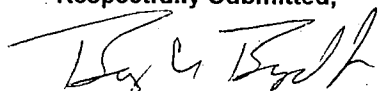
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-173  
Date Rec.'d: 17-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Thallium	279.2	106.51	102.58	3.76	63.5 - 142.4	24.3

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

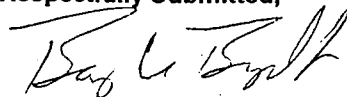
## Analytical Quality Assurance Summary Metals

Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9707-199  
Date Rec.'d: 18-Jul-97

Analyte	Method	Determined Accuracy (%Recovery)		Precision RPD	Acceptance Limits	
		MS	MSD		Accuracy	RPD
Arsenic	206.2	104.9	107.1	2.08	74.1 - 132	35
Barium	200.7	105.8	104.4	1.33	78 - 128.4	15.1
Chromium	200.7	103.5	101.4	2.05	82.7 - 118.5	12.7
Silver	200.7	78.3	79.9	1.52	77.6 - 126.2	11
Beryllium	200.7	86.6	85.2	1.63	75.6 - 142.1	9.5
Copper	200.7	111.38	108.07	3.01	77.2-118.4	11.1
Nickel	200.7	93.9	92.1	1.94	90.1 - 121.4	9.9
Zinc	200.7	89.2	88.6	0.68	78.8 - 114.9	9.31

MS = Matrix Spike      MSD = Matrix Spike Duplicate      RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

8818 Arlington Expressway • Jacksonville, Florida 32211  
(904) 725-4847 • Fax (904) 725-2215

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

DEP Form # 62-522.900(2)  
Form Title GROUND WATER MONITORING REPORT  
Effective Date \_\_\_\_\_  
DEP Application No. \_\_\_\_\_

BROWARD LAB # 1060566/Trip Blank

FCEL LAB # 9710-76

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

## GROUND WATER MONITORING REPORT Rule 62-522.600(11)

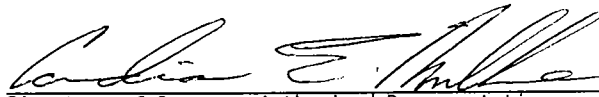
### PART I - GENERAL INFORMATION

- (1) Facility Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_
- (2) The GMS Identification #: \_\_\_\_\_
- (3) DEP Permit #: \_\_\_\_\_
- (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: 18 Nov '97

  
Signature of Owner or Authorized Representative

### PART II - QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # \_\_\_\_\_

Analytical Lab Comp QAP # / HRS Cert. # 870222 / E82102 / 82110  
Comp QAP # / HRS Cert. # \_\_\_\_\_

Lab Name: BROWARD TESTING LABORATORY

Address: 4416 N.E. 11TH AVENUE

City, State, Zip: FT. LAUDERDALE, FLORIDA 33334

Telephone Number: 1-216/449-2525

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1060566/Trip Blank

FCEL LAB # 9710-76

PART III - ANALYTICAL RESULTS

Facility GMS #: \_\_\_\_\_ Sampling Date/Time: \_\_\_\_\_  
 Test Site ID #: \_\_\_\_\_ Report Date: \_\_\_\_\_  
 (Year / Quarter)  
 Well Name: Trip Blank 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/Trip Blank

FCEL LAB # 9710-76

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)
81552	Acetone			EPA 8260A	10-9-97	< 0.330	0.330
34215	Acrylonitrile			EPA 8260A	10-9-97	< 0.483	0.483
34235	Benzene			EPA 8260A	10-9-97	< 0.147	0.147
N/A	Bromochloromethane			EPA 8260A	10-9-97	< 0.300	0.300
32101	Bromodichloromethane			EPA 8260A	10-9-97	< 0.300	0.300
32104	Bromoform			EPA 8260A	10-9-97	< 0.226	0.226
77041	Carbon disulfide			EPA 8260A	10-9-97	< 0.459	0.459
32102	Carbon tetrachloride			EPA 8260A	10-9-97	< 0.316	0.316
34301	Chlorobenzene			EPA 8260A	10-9-97	< 0.234	0.234
34311	Chloroethane			EPA 8260A	10-9-97	< 0.148	0.148
32106	Chloroform			EPA 8260A	10-9-97	< 0.104	0.104
32105	Dibromochloromethane			EPA 8260A	10-9-97	< 0.185	0.185
38761	1,2-Dibromo-3-chloropropane			EPA 504	10-9-97	< 0.013	0.013
77651	1,2-Dibromoethane			EPA 504	10-9-97	< 0.014	0.014
34537	o-Dichlorobenzene			EPA 8260A	10-9-97	< 0.365	0.365
34571	p-Dichlorobenzene			EPA 8260A	10-9-97	< 0.298	0.298
49263	Trans-1,4-Dichloro-2-butene			EPA 8260A	10-9-97	< 0.221	0.221
34496	1,1-Dichloroethane			EPA 8260A	10-9-97	< 0.275	0.275
32103	1,2-Dichloroethane			EPA 8260A	10-9-97	< 0.128	0.128
34502	1,1-Dichloroethene			EPA 8260A	10-9-97	< 0.128	0.128
81686	cis-1,2-Dichloroethene			EPA 8260A	10-9-97	< 0.253	0.253
34546	trans-1,2-Dichloroethene			EPA 8260A	10-9-97	< 0.195	0.195
34541	1,2-Dichloropropane			EPA 8260A	10-9-97	< 0.147	0.147
34704	cis-1,3-Dichloropropene			EPA 8260A	10-9-97	< 0.157	0.157
34699	trans-1,3-Dichloropropene			EPA 8260A	10-9-97	< 0.198	0.198
78113	Ethylbenzene			EPA 8260A	10-9-97	< 0.173	0.173
77103	2-Hexanone			EPA 8260A	10-9-97	< 0.494	0.494
34413	Methyl bromide			EPA 8260A	10-9-97	< 0.177	0.177

Date Extraction: October 8, 1997

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

BROWARD LAB # 1060566/Trip Blank

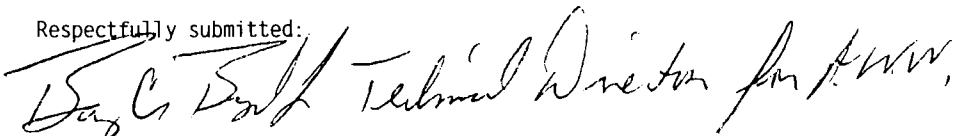
FCEL LAB # 9710-76

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	10-9-97	< 0.155	0.155
77596	Methylene bromide			EPA 8260A	10-9-97	< 0.347	0.347
34423	Methylene chloride			EPA 8260A	10-9-97	< 0.282	0.282
81595	Methyl ethyl ketone			EPA 8260A	10-9-97	< 0.154	0.154
49262	Methyl iodide			EPA 8260A	10-9-97	< 0.506	0.506
78133	4-Methyl-2-pentanone			EPA 8260A	10-9-97	< 0.520	0.520
77128	Styrene			EPA 8260A	10-9-97	< 0.213	0.213
77562	1,1,1,2-Tetrachloroethane			EPA 8260A	10-9-97	< 0.192	0.192
34516	1,1,2,2-Tetrachloroethane			EPA 8260A	10-9-97	< 0.200	0.200
34476	Tetrachloroethene			EPA 8260A	10-9-97	< 0.188	0.188
78131	Toluene			EPA 8260A	10-9-97	< 0.249	0.249
34506	1,1,1-Trichloroethane			EPA 8260A	10-9-97	< 0.296	0.296
34511	1,1,2-Trichloroethane			EPA 8260A	10-9-97	< 0.115	0.115
34485	Trichloroethene			EPA 8260A	10-9-97	< 0.183	0.183
34488	Trichlorofluoromethane			EPA 8260A	10-9-97	< 0.423	0.423
77443	1,2,3-Trichloropropane			EPA 8260A	10-9-97	< 0.137	0.137
77057	Vinyl acetate			EPA 8260A	10-9-97	< 0.483	0.483
39175	Vinyl chloride			EPA 8260A	10-9-97	< 0.205	0.205
81551	Xylenes			EPA 8260A	10-9-97	< 0.108	0.108

Date Extraction: October 8, 1997

Respectfully submitted:



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

AWW/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

First Coast Environmental Laboratory, Inc.  
Quality Assurance / Quality Control Program

## Analytical Quality Assurance Summary Organic Analyses

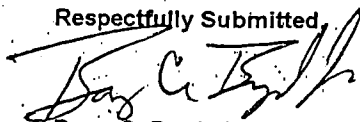
Client: National Testing Labs/Broward Testing Labs  
Sample ID: 9710-76  
Date Rec.'d: 08-Oct-97  
Analysis Date: 09-Oct-97

### EPA 8260A Purgeable Organics

Analyte	Accuracy		Precision RPD	Acceptance Limits	
	%Recovery (MS)	%Recovery (MSD)		Accuracy	Precision
Benzene	88.2	90.1	2.1	78 - 116	17
Chlorobenzene	92.3	97.4	5.4	81 - 115	18
1,1-Dichloroethene	101	98.6	2.4	75 - 113	20
Toluene	103	108	4.7	78 - 126	24
Trichloroethene	95.6	103	7.5	70 - 110	22
<b>Surrogates</b>					
Dibromofluoromethane	107	103	--	81 - 135	--
Toluene-d8	98.7	100	---	74 - 122	---
Bromofluorobenzene	98.2	98.7	--	81 - 137	--

MS = Matrix Spike    MSD = Matrix Spike Duplicate    RPD = Relative Percent Deviation

Respectfully Submitted,



Barry C. Byrd, Jr. MS  
Technical Director/QA Officer  
FL Dept. of Health Safe Drinking Water Lab #82110  
FL Dept. of Health Environmental Lab #E82102  
FL DEP Comprehensive QA Plan #870222  
EPA Lab # FL00062

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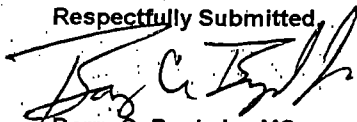
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