



# PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274  
NEW PORT RICHEY (813) 847-8902

ENVIRONMENTAL LABORATORY  
PASCO COUNTY GOVT. COMPLEX  
8864 GOVERNMENT DRIVE  
NEW PORT RICHEY, FL 34654

January 13, 1995

Ms. Allison Amram  
Environmental Specialist III  
Florida Department of  
Environmental Protection  
Waste Management Section  
3804 Coconut Palm Drive  
Tampa, FL 33619-8318

RECEIVED  
JAN 17 1995

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

RE: Groundwater Monitoring Analyses

Dear Ms. Amram:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MW1, 4MW1, 2MW2, 4MW2, 2MW4, 4MW4, 2MW5, 4MW6, 2MW6, and 4MW6 at the Resource Recovery Class I Landfill for the Quarter IV (October-December) sampling period.

Groundwater monitoring well 2MW2 exceeded the MCL for nitrates and 4MW2 was positive for total coliform. Both wells were subsequently resampled with 2MW2 confirming for nitrates and 4MW2 negative for total coliform. Both confirmation reports are included for your records.

Sincerely,

A handwritten signature in cursive script, appearing to read "Candia E. Mulhern".

Candia E. Mulhern  
Laboratory Manager

CEM/dlh/56:ltr

Enclosures

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



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2000

DER Form #	
Form Title	
Effective Date	
DER Application No.	Filed in DER

## QUARTERLY REPORT ON GROUND WATER MONITORING Rule 17-4.245(6)(k)2.

GMS # 4051C 000258

**RECEIVED**  
JAN 17 1995  
Department of Environmental Regulation  
BY DASG  
DER PERMIT # PA87-23

### RESOURCE RECOVERY - WEST PASCO CLASS I LANDFILL

Installation Name

HAYS ROAD	HUDSON	FLORIDA 34674	PASCO
Address	City	State Zip	County

<u>Candia E. Mulhern</u>	<u>Laboratory Supervisor</u>
Owner or Authorized Representative's Name	Title

Method of Discharge \_\_\_\_\_

Type of Industry LANDFILL

Report for Period Oct 1994 to Dec 1994  
date date

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to Rule 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the department and, if required by the department, submit a new report stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site boundary.

### 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.

Candia E. Mulhern  
Owner or Authorized Representative's Signature

01/11/95  
Date

DER Form 17-1.216(2)  
Effective January 1, 1983

Page 1 of 2

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GHS # 4051C 000258

Sample Date 12/15/94

Monitoring Well # 4051A16506

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 2mw-1

Classification of Groundwater Surficial

Well Developed\* Prior to Sample Collection (Yes/No) YES

Ground Water Elevation (above MSL) Dry ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.		Std units	Unfiltered	Field
	Specific-cond.		(SM 205) Reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric		NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
	TOC		415.1		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal-culation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal-culation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF		MF/100 ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 12/15/94

Monitoring Well # 4051A16511

Well Name 4mw-1

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Classification of Groundwater Floridan

Well Developed\* Prior to Sample Collection (Yes/No) yes

Ground Water Elevation (above MSL) 34.19 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	545	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1	0.02	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1	2.66	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1	32.6	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1	0.02	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.	7.07	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	840	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.14	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	206	mg/L	Unfiltered	4°C
	Sulfate		375.4	32.2	mg/L	Unfiltered	Cool 4°C
	<b>TDS</b>		SM 209B	<b>592</b>	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	124	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	5.41	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2	<0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Calculation	<0.02	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2	<0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Calculation	0.78	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2	0.78	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF	<1	MF/100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 12/14/94

Monitoring Well # 4051A16507

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 2mw-2

Classification of Groundwater Surficial

Well Developed\* Prior to  
Sample Collection (Yes/No) Yes

Ground Water Elevation  
(above MSL) \_\_\_\_\_ ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	35.1	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1	0.04	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1	3.35	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1	3.71	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1	< 0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.	5.45	Std units	Unfiltered	HNO <sub>3</sub> ; 4°C
	Specific-cond.		(SM 205) reference	61	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.25	NTU	Unfiltered	Field
	Chloride		SM 407A	6.7	mg/L	Unfiltered	Cool 4°C
	Sulfate		375.4	< 1	mg/L	Unfiltered	4°C
	TDS		SM 209B	122	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	9.0	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	1.46	mg/L	Unfiltered	Cool 4°C
	NH <sub>3</sub> -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Calculation	< 0.02	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Calculation	17.4	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2	17.4	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF	< 1	MF/100 ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.



**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 12/14/94

Monitoring Well # 4051A16512

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 4mw-2

Classification of Groundwater Floridan

Well Developed\* Prior to  
Sample Collection (Yes/No) Yes

Ground Water Elevation  
(above MSL) 34.51 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	66.6	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1	0.02	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1	0.71	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1	2.54	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1	0.03	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.	7.11	Std units	Unfiltered	Field
	Specific- cond.		(SM 205) reference	160	umhos/ cm	Unfiltered	Field
	Turbidity		Nephelo- metric	0.09	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	5.4	mg/L	Unfiltered	4°C
	Sulfate		375.4	1.6	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	74	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	78	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	4.10	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal- culation	< 0.02	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal- culation	0.22	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2	0.22	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF	9	MF/100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 12/14/94

Monitoring Well # 4051A16508

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 2mw-4

Classification of Groundwater Surficial

Well Developed\* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation Dry (above MSL) ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.		Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric		NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
	TOC		415.1		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Calculation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Calculation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF		MF/100 ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 12/14/94

Monitoring Well # 4051A16513

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 4mw-4

Classification of Groundwater Floridan

Well Developed\* Prior to  
Sample Collection (Yes/No) Yes

Ground Water Elevation  
(above MSL) 27.31 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	149	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1	1.30	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1	2.95	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1	0.19	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.	7.24	Std units	Unfiltered	Field
	Specific- cond.		(SM 205) Reference	292	umhos/ cm	Unfiltered	Field
	Turbidity		Nephelo- metric	2.36	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	9.4	mg/L	Unfiltered	4°C
	Sulfate		375.4	5.4	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	169	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	157	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	8.64	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal- culation	< 0.02	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal- culation	0.22	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2	0.22	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF	< 1	MF/100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.



**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 12/15/94

Monitoring Well # 4051A16509

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 2mw-5

Classification of Groundwater Surficial

Well Developed\* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) Dry ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.		Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric		NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
	TOC		415.1		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal-culation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal-culation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF		MF 100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 12/15/94

Monitoring Well # 4051A16514

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 4mw-5

Classification of Groundwater Floridan

Well Developed\* Prior to  
Sample Collection (Yes/No) YES

Ground Water Elevation  
(above MSL) 28.46 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	114	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1	0.96	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1	3.38	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1	0.03	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.	7.57	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) Reference	249	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.16	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	22.2	mg/L	Unfiltered	4°C
	Sulfate		375.4	2.8	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	149	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	107	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	4.82	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal-culation	< 0.02	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal-culation	< 0.10	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2	< 0.10	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF	< 1	MF/100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 12/14/94

Monitoring Well # 4051A16510

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 2 MW-6

Classification of Groundwater Surficial

Well Developed\* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) Dry

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1		mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.		Std units	Unfiltered	Field
	Specific cond.		(SM 205) Reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric		NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
	TOC		415.1		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal-culation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal-culation		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2		mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF		MF/100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

**PARAMETER MONITORING REPORT**  
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 12/14/94

Monitoring Well # 4051A16515

Well Type: ☐ Background  
☐ Site Boundary  
☐ Intermediate  
☐ Compliance

Well Name 4 MW-6

Classification of Groundwater Floridan

Well Developed\* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 32.13 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	55.7	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Magnesium	Mon.	242.1	0.54	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Sodium	System	273.1	2.89	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	Iron		236.1	<0.01	mg/L	Unfiltered	HNO <sub>3</sub> ; 4°C
	pH		Electro.	7.71	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	132	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.77	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	7.7	mg/L	Unfiltered	4°C
	Sulfate		375.4	3.0	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	55	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	58	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	2.97	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>3</sub> -N		EPA 350.2	<0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	NH <sub>4</sub> -N		Cal-culation	<0.02	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Org. N		EPA 351.2	<0.07	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	TN		Cal-culation	0.43	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Nitrate		EPA 353.2	0.43	mg/L	Unfiltered	H <sub>2</sub> SO <sub>4</sub> ; 4°C
	Total Colif.		MF	<1	MF/100ml	Unfiltered	Cool 4°C

\*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.



# PASCO COUNTY, FLORIDA

---

## REPORT OF ANALYSES

RESOURCE RECOVERY  
14230 HAYS ROAD  
SPRING HILL, FL 34610-  
Attn: VINCENT MANNELLA

PROJECT NAME: RR GWM RECHECK  
DATE: 01/04/95  
DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER IV 1994 - RECHECK

SAMPLE NUMBER- 31314 SAMPLE ID- 2MW2 RECHECK  
DATE SAMPLED- 12/20/94  
DATE RECEIVED- 12/20/94 SAMPLER- CHRIS CHILDRESS  
TIME RECEIVED- 1645 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WA  
TIME SAMPLED- 1645  
RECEIVED BY- CEM  
TYPE SAMPLE- Pumped

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
NITRATE	EPA 353.2	12/28/94	1100	IF	11.9 mg/L

LABORATORY DIRECTOR

A handwritten signature in cursive script, appearing to read "Patricia E. Miller", is written over a horizontal line.





# PASCO COUNTY, FLORIDA

---

## REPORT OF ANALYSES

RESOURCE RECOVERY  
14230 HAYS ROAD  
SPRING HILL, FL 34610-  
Attn: VINCENT MANNELLA

PROJECT NAME: RR GWM RECHECK  
DATE: 12/27/94  
DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER IV 1994 RECHECK

SAMPLE NUMBER- 31262 SAMPLE ID- 4MW2 RECHECK  
DATE SAMPLED- 12/19/94  
DATE RECEIVED- 12/19/94 SAMPLER- CHRIS CHILDRESS  
TIME RECEIVED- 1600 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WA  
TIME SAMPLED- 0940  
RECEIVED BY- CEM  
TYPE SAMPLE- Pumped

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
TOTAL COLIFORM MF	909A	12/19/94	1610	MR	A MF/100 ml
NON-COLIFORM MF	909A	12/19/94	1610	MR	A MF/100 ml

LABORATORY DIRECTOR

A handwritten signature in black ink, appearing to read "C. E. Thullen", is written over a horizontal line.