



PASCO COUNTY, FLORIDA

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UTILITIES SERVICES BRANCH
PASCO COUNTY GOVT. COMPLEX
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654

April 14, 1992

D. E. R.

APR 16 1992

SOUTHWEST DISTRICT
TAMPA

Mr. Steven G. Morgan
Environmental Specialist II
Florida Department of
Environmental Regulation
Waste Management Section
4520 Oak Fair Boulevard
Tampa, FL 33610-7347

RE: Groundwater Monitoring Analyses

Dear Mr. Morgan:

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

Sincerely,

A handwritten signature in cursive script that reads "Candia E. Mulhern".

Candia E. Mulhern
Laboratory Supervisor

CEM/mr

Enclosure

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



Florida Department of Environmental Regulation

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

DER Form # _____
Form Fee _____
Effective Date _____
DER Application No. _____ Filed in DEPR

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

GMS # _____

DATE _____

DER PERMIT # _____

RESOURCE RECOVERY - WEST PASCO CLASS I LANDFILL

Installation Name

HAYS ROAD HUDSON FLORIDA 34674 PASCO
Address City State Zip County

Candia E. Mulhern Laboratory Supervisor
Owner or Authorized Representative's Name Title

Method of Discharge _____

Type of Industry LANDFILL

Report for Period Jan 1992 to Mar 1992
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

04/14/92
Date

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

GMS # _____

Sample Date 03/02/92

Monitoring Well # 2MW1

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater Surficial

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

Ground Water Elevation (above MSL) 35.2

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample		Preservatives Added
						Filtered	Unfiltered	
	Calcium	Well	215.1	1.88	mg/L		Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	0.01	mg/L		Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	<0.01	mg/L		Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	1.27	mg/L		Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	5.82	mg/L		Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	0.15	mg/L		Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	4.55	Std units		Unfiltered	Field
	Specific-cond.		(SM 205) reference	55	umhos/cm		Unfiltered	Field
	Turbidity		Nephelometric	23.4	NTU		Unfiltered	Cool 4°C
	Chloride		SM 407A	2.5	mg/L		Unfiltered	4°C
	Sulfate		375.4	12.6	mg/L		Unfiltered	Cool 4°C
	TDS		SM 209B	59	mg/L		Unfiltered	Cool 4°C
	Bicarb.		310.1	7.8	mg/L		Unfiltered	Cool 4°C
	TOC		415.1	< 0.80	mg/L		Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L		Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	< 0.02	mg/L		Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L		Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	< 0.07	mg/L		Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	< 0.02	mg/L		Unfiltered	H ₂ SO ₄ ; 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 # _____

Sample Date 03/02/92

Monitoring Well # 4MW1

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 35.39

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well		215.1	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard		243.1	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.		289.1	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.		242.1	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System		273.1	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron			236.1	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.05	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) Reference	440	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.27	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	88.0	mg/L	Unfiltered	4°C
	Sulfate		375.4	19.0	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	418	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	117.6	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	<0.60	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	<0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	<0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	0.20	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	1.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.82	mg/L	Unfiltered	H ₂ SO ₄ ; 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 # _____

Sample Date 03/02/92

Monitoring Well # 2MW2

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater Surficial

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

Ground Water Elevation (above MSL) _____

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	6.09	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	0.10	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	4.00	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.88	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	1.58	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	6.01	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	100	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	34.7	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	4.0	mg/L	Unfiltered	4°C
	Sulfate		375.4	< 1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	142	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	6.2	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	1.12	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	0.33	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation	11.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	10.74	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	WATER LEVEL			21.15	Feet		

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

GMS # _____

Sample Date 03/02/92

Monitoring Well # 4MW2

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) _____

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample		Preservatives Added
						Filtered	Unfiltered	
	Calcium	Well	215.1	32.3	mg/L	Unfiltered		HNO ₃ ; 4°C
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered		HNO ₃ ; 4°C
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered		HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	0.73	mg/L	Unfiltered		HNO ₃ ; 4°C
	Sodium	System	273.1	2.75	mg/L	Unfiltered		HNO ₃ ; 4°C
	Iron		236.1	0.02	mg/L	Unfiltered		HNO ₃ ; 4°C
	pH		Electro.	7.95	Std units	Unfiltered		Field
	Specific-cond.		(SM 205) reference	120	umhos/cm	Unfiltered		Field
	Turbidity		Nephelometric	0.17	NTU	Unfiltered		Cool 4°C
	Chloride		SM 407A	4.0	mg/L	Unfiltered		4°C
	Sulfate		375.4	<1	mg/L	Unfiltered		Cool 4°C
	TDS		SM 209B	109	mg/L	Unfiltered		Cool 4°C
	Bicarb.		310.1	76.1	mg/L	Unfiltered		Cool 4°C
	TOC		415.1	1.104	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	<0.07	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	<0.02	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	<0.07	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	TN		Calculation	0.95	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.95	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	WATER LEVEL			21.3	Feet			

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

GMS # _____

Sample Date 03/03/92

Monitoring Well # 2MW4

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

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 ₃ ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1		mg/L	Unfiltered	HNO ₃ ; 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 ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C	
	Nitrate		EPA 353.2	mg/L	Unfiltered	H ₂ SO ₄ ; 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 # _____

Sample Date 03/03/92

Monitoring Well # 4MW4

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) _____

STORE# Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	58.2	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	1.39	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.21	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	0.04	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	6.88	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) Reference	200	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.490	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	5.0	mg/L	Unfiltered	4°C
	Sulfate		375.4	< 1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	171	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	142	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	< 0.60	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	0.13	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	0.724	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.594	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Water Level			22.75	Feet		

*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 # _____

Sample Date 03/03/92

Monitoring Well # 2MW5

Well Type: [] Background
[] Site Boundary
[] Intermediate
[] Compliance

Well Name _____

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 ₃ ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1		mg/L	Unfiltered	HNO ₃ ; 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 ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation		mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ ; 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 # _____

Sample Date 03/03/92

Monitoring Well # 4MW5

Well Type: [] Background
[] Site Boundary
[] Intermediate
[] Compliance

Well Name _____

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 28.91 f

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	4.65	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	0.33	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	7.74	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	9.14	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	80	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.233	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	4.0	mg/L	Unfiltered	4°C
	Sulfate		375.4	<1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	54	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	39	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	<0.50	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	<0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation	<0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	0.12	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation	0.329	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.209	mg/L	Unfiltered	H ₂ SO ₄ ; 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 # _____

Sample Date 03/03/92

Monitoring Well # 2MW6

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

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		Preservatives Added
						Filtered	Unfiltered	
	Calcium	Well	215.1	DRY	mg/L	Unfiltered		HNO ₃ ; 4°C
	Manganese	Wizard	243.1		mg/L	Unfiltered		HNO ₃ ; 4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered		HNO ₃ ; 4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered		HNO ₃ ; 4°C
	Sodium	System	273.1		mg/L	Unfiltered		HNO ₃ ; 4°C
	Iron		236.1		mg/L	Unfiltered		HNO ₃ ; 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 ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2		mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation		mg/L	Unfiltered		H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C	
	TN		Cal-culation	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C	
	Nitrate		EPA 353.2	mg/L	Unfiltered		H ₂ SO ₄ ; 4°C	

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

GMS # _____

Sample Date 03/03/92

Monitoring Well # 4MW6

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name _____

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 32.33 f

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	25.5	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	0.58	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.15	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.99	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	100	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.22	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	5.0	mg/L	Unfiltered	4°C
	Sulfate		375.4	< 1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	86	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	58.9	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	< 0.50	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation	0.92	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.92	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

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