gw file



PASCO COUNTY, FLORIDA

DADE CITY
NEW PORT RICHEY

(904) 521-4274

NEW PORT RICHEY (813) 847-8902

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

RE: Groundwater Monitoring Analyses

Dear Ms. Amram:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MWl, 4MWl, 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,

Candia E. Mulhern Laboratory Manager

CEM/d1h/56:1tr

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

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



Department of any iron mental Protection SOUTHWEST DISTRICT BY



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2

5530

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

JAN 1 7 1995

CHS . 405/C 000258

DER PERMIT PA87-23

RESOURCE RECOVERY - WEST PASCO CLASS I LANDFILL

Installation Name

HAYS ROAD

HUDSON

FLORIDA 34674

PASCO

Address

City

State Zip

County

Candia E. Mulhern

Owner or Authorized Representative's Name

Method of Discharge

Type of Industry

LANDFILL

Report for Period

Oct 1994

date

Dec 1994

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.

Owner or Authorized Representative's Signature

Date

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

Page 1 of 2

GHS # 4051C 000258

Manitoring Well 1 4051916506

Well Name 2mw-1

Classification of Groundwater <u>Surficial</u>

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

YES

Sample Date 12/15/94

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

Ground Water Elevation

(above MSL) Dry

TORE T	Parameter Monitored	Sampling Hethod	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO3;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
	рH		Electro.		Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference		umhos/	Unfiltered	Field
	Turbidity	<u>.</u>	Nephelo- metric		NTU	Unfiltered	Cool 4°C
	Chloride .	ļ	SM 407A		mg/L	Unfiltered	4°C
	Sulfate	ļ. 	375.4		mg/L	Unfiltered	Cool 4°C
1	TDS		SM 209B		mg/L		Cool 4°C
f	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
i	TOC		415.1		mg/L	i I	H ₂ SO ₄ ;4 ^o
	NH ₃ -N		EPA 350.2		mg/L		H ₂ SO ₄ ;4 ^o
- 1	NH ₄ -N		Cal- culation	,	mg/L	1	H ₂ SO ₄ ;4°
1	Org. N		EPA 351.2		mg/L		H ₂ SO ₄ ;4 ^o (
	ΓN		Cal- culation		mg/L		1,50,;4 ⁰
þ	Nitrate		EPA 353.2		1		H ₂ SO ₄ ;4 ^O (
- 1	Total Colif.	·	MF			` ! `	Cool 4°C

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

GHS . 4051C. 000258

Sample Date ___12/15/94

Monitoring Well # 4051A16511

Well Type: [] Background

Well Neme 4mw-1

[] Site Boundary
[] Intermediate
[] Compliance

Classification of Groundwater Floridan

Ground Water Elevation 2/ 10

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

RE T	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	200 200 200 200 200
	alcium	Well	215.1	545	mg/L	Unfiltered	HNO ₃ ;4
- 1	anganese	Wizard	243.1	<0.01	mg/L	Unfiltered	
- 1	inc	Ded.	289.1	0.02	mg/L	Unfiltered	HNO :4
- 1	agnesium	Mon.	242.1	2.66	mg/L	Unfiltered	HNO3;4
- 1	odium	System	273.1	32.6	mg/L	Unfiltered	HNO ₃ ;4°
1	ron		236.1	0.02	mg/L	Unfiltered	HNO ₃ ;40
рH			Electro.	7.07	Stdunits	Unfiltered	Field
Sp	ecific-		(SM 205) reference	840	umhos/	Unfiltered	
Tu	rbidity		Nephelo- metric	0.14	NTU	Unfiltered	Field
Ch	loride		SM 407A	206	mg/L	Unfiltered	Cool 4 ⁰ 4 ⁰ C
Su	lfate		375.4	32.2	mg/L		4 C Cool 4 ⁰
TD			SM 209B	592			Cool 4
1	carb.		310.1	124			Cool 4
TO			415.1	5.41			H ₂ SO ₄ ;4
NH	3 ^{-N}		EPA 350.2	<0.07			H ₂ SO ₄ ;4
1	4-N		Cal- culation	< 0.02			H ₂ SO ₄ ;4
	g. N	ŀ		∠0.07	1		H ₂ SO ₄ ;4
TN		ķ	Cal- culation	0.78	1		-
Nit	trate	1	EPA 353.2	0.78			1 ₂ SO ₄ ;4
Tot	al Colif.		1F	<1	- 1		¹ 280 ₄ ;4° Cool 4°C

^{*}Well development is the process of pumping the well prior to sampling in order to obtain :

GHS # 4051C 000258

Manitoring Well # 4051A16507

Well Name 2 mw-2

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes Well Type: [] Background
[] Site Boundary
[] Intermediate
[] Compliance

Ground Water Elevation (above MSL)

STORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
,	Calcium	Well	215.1	35.1	mg/L	Unfiltered	HNO ₃ ;4°C
	Manganese	Wizard	243.1	0.04	mg/L	Unfiltered	HNO3;4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO ₃ ;4°C
	Magnesium	Mon.	242.1	3.35	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.71	mg/L	Unfiltered	HNO ₃ ;4°C
	Iron		236.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	pН		Electro.	5.45	Stdunits	Unfiltered	Field
- 1	Specific-		(SM 205) reference	61	umhos/	Unfiltered	Field
- 1	Turbidity		Nephelo- metric	0.25	NTU	Unfiltered	Cool 4°C
1	Chloride		SM 407A	6.7	mg/L	Unfiltered	4°C
	Sulfate		375.,4	< 1	mg/L	The second secon	Cool 4°C
- 1	TDS		SM 209B	122	mg/L		Cool 4°C
- 1	Bicarb.	×-	310.1	9.0	mg/L		Cool 4°C
ľ	TOC		415.1	1.46	mg/L		H ₂ SO ₄ ;4°C
. 1	ин ₃ -и		EPA 350.2	< 0.07			H ₂ SO ₄ ;4°C
1	NH ₄ -N	k	Cal- culation	< 0.02			H ₂ SO ₄ ;4°C
1	Org. N	þ	EPA 351.2	< 0.07			H ₂ SO ₄ ;4°C
	ľN	k	Cal- culation	17.4			H ₂ SO ₄ ;4°C
N	litrate	į.	EPA 353.2	17.4			H ₂ SO ₄ ;4°C
г	otal Colif.		MF .				Cool 4°C

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

GHS . 4051C 000258

Monitoring Well # 405/A165/2

Hell Hame 4mw-2

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) Yes Well Type: [] Background

[] Site Boundary
[] Intermediate
[] Compliance

Ground Water Elevation

(above MSL) _ 34.51 ft

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	HNO3;4°0
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO3;4°C
	Zinc	Ded.	289.1	0.02	mg/L	Unfiltered	HNO3;40
	Magnesium	Mon.	242.1	0.71	mg/L	Unfiltered	HNO3;4°C
	Sodium	System	273.1	2.54	mg/L	Unfiltered	HNO3;4°C
	Iron	=	236.1	0.03	mg/L	Unfiltered	HNO3;4°C
	pН		Electro.	7.11	Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference	160	umhos/		Field
- 1	Turbidity		Nephelo- metric	0.09	NTU	Unfiltered	Cool 4°C
- 1	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	i i	Cool 4°C
- 1	Bicarb.		310.1	78	mg/L	1	Cool 4°C
	TOC		415.1	4.10	mg/L		H ₂ SO ₄ ;4°
- 1	ин ₃ -и		EPA 350.2	< 0.07	mg/L		H ₂ SO ₄ ;4°
. 1	NH ₄ -N		Cal- culation	< 0.02	mg/L	I	H ₂ SO ₄ ;4°
	Org. N		EPA 351.2	∠0.07	mg/L		H ₂ SO ₄ ;4°
]2	ľN		Cal- culation	0.22	mg/L		H ₂ SO ₄ ;4°
N	litrate		EPA 353.2	0.22			H ₂ SO ₄ ;4°
]3	Cotal Colif.		MF	9	_	Unfiltered	Cool 4°C
i							

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

GHS 1 4051C000258

Monitoring Well # 4051A16508

Well Neme _ 2mw-4

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 12/14/94

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

Ground Water Elevation Dry ft

TORE T	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO3;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	HNO3;4°C
	Sodium	System	273.1		mg/L	Unfiltered	HNO ₃ ;4°C
	Iron		236.1		mg/L	Unfiltered	HNO ₃ ;4 ^o c
	рH		Electro.		Stdunits	Unfiltered	Field
-	Specific-		(SM 205) reference		umhos/	Unfiltered	Field
	Turbidity		Nephelo- metric		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		Cool 4°C
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
ı	TOC	·	415.1		mg/L	f i	H ₂ SO ₄ ;4 ⁰
ı	ин ₃ -и	,	EPA 350.2		mg/L		H ₂ SO ₄ ;4 ^O
1	NH ₄ -N		Cal- culation	·	mg/L	4	H ₂ SO ₄ ;4 ^O
	Org. N		EPA 351.2		mg/L		H ₂ SO ₄ ;4°
	ΓN		Cal- culation	·	mg/L	1	H ₂ SO ₄ ;4 ^o
- 1	Nitrate		EPA 353.2	\ \	mg/L		H ₂ SO ₄ ;4 ^o
	Total Colif.		MF		MF/100 m1		Cool 4°C

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

GHS . 4051C 000258

Monitoring Well # 4051 A 16513

Well Name __ 4mw-4

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Oate 12/14/94

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

Ground Water Elevation (above MSL) ___27.31 ft

[] Compliance

E T	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	149	mg/L	Unfiltered	HNO3;4°C
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO3;4°C
- 1	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO ₃ ;4°C
	Magnesium	Mon.	242.1	1.30	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	2.95	mg/L	Unfiltered	, ,
- [Iron		236.1	0.19	mg/L	Unfiltered	HNO ₃ ;4°C
	рН		Electro.	7.24	Std	Unfiltered	HNO ₃ ;4 ^O C Field
ı	Specific-		(SM 205) reference	292	umhos/	Unfiltered	Field
Ĭ.	Turbidity		Nephelo-	2.36	NTU	Unfiltered	Cool 4°C
- 1	Chloride		SM 407A	9.4	mg/L	Unfiltered	4°C
1	Sulfate		375.4	5.4	mg/L.	Unfiltered	Cool 4°C
- 1	DS		SM 209B	169	mg/L	1 '	Cool 4°C
- 1	icarb.		310.1	157	mg/L	1	Cool 4°C
T	oc		415.1	8.64	mg/L	1	H ₂ SO ₄ ;4°
N	H ₃ -N		EPA 350.2	< 0.07	mg/L	!	H ₂ SO ₄ ;4 ^o (
N	H ₄ -N		Cal- culation	< 0.02		<u> </u>	H ₂ SO ₄ ;4°
ì	rg. N	}	EPA 351.2	< 0.07		1	H ₂ SO ₄ ;4 ^o 6
İ	N	Ì	Cal- culation	0.22	1		1 ₂ 50 ₄ ;4 ⁰ (
N	itrate		EPA 353.2	0.22	mg/L		1 ₂ SO ₄ ; 4 ⁰ (
Т	otal Colif.		MF	ζ 1	MF/100m1		Cool 4°C

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

chs . 4051C000258

Manitoring Well # 4051A16509

Well Name 2 mw-5

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 12/15/94

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

Ground Water Elevation (above MSL) Dry

TORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	HNO3;4°0
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO ₃ ;4°C
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO3;4°C
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO3;4°C
	Sodium	System	273.1		mg/L	Ünfiltered	HNO3;4°C
	Iron		236.1		mg/L	Unfiltered	HNO3;4°C
	pН		Electro.		Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference		umhos/	Unfiltered	Field
	Turbidity		Nephelo- metric		NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A		mg/L	Unfiltered	4°c
ļ	Sulfate		375.4		mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°C
1	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°C
	TOC		415.1		mg/L	Unfiltered	H ₂ SO ₄ ;4 ^o
.	NH ₃ -N	,	EPA 350.2		mg/L	1	H ₂ SO ₄ ;40
	NH ₄ -N		Cal- culation		mg/L	j i	H ₂ SO ₄ ;40
ı	Org. N		EPA 351.2		mg/L		H ₂ SO ₄ ;40
	TN		Cal- culation		mg/L		H ₂ SO ₄ ;4 ^o
Į1	Nitrate		EPA 353.2		mg/L	Į į	H ₂ SO ₄ ;4°
	Total Colif.		MF			<u> </u>	Cool 4°C

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

GHS . 4051C000258

Monitoring Well # 405/4/65/4

Nell Name 4 mw-5

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) YES Sample Date 12/15/94

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

[] Compliance

Ground Water Elevation (above MSL) 28.46

RE T	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	114	mg/L	Unfiltered	HNO3;4°C
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	0.96	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.38	mg/L	Unfiltered	HNO ₃ ;4°C
į	Iron		236.1	0.03	mg/L	Unfiltered	_
i	pН		Electro.	7.57	Std		HNO ₃ ;4 ^o C Field
	Specific-		(SM 205) reference	249	umhos/	Unfiltered	
ł	Turbidity		Nephelo- metric	0.16	NTU	Unfiltered	Field Cool 4 ⁰ 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
1	Bicarb.		310.1	107	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	4.82	mg/L		н ₂ so ₄ ; 4 ^o c
l	NH ₃ -N		EPA 350.2	< 0.07	mg/L	1	^н 2 ³⁰ 4,4 с
12	NH ₄ -N		Cal- culation	< 0.02	mg/L	<u>i</u> 1	H ₂ SO ₄ ;4°C
C	Org. N		EPA 351.2	< 0.07	mg/L	1	н ₂ s о ₄ ; 4 ° с
12	ſN		Cal- culation	< 0.10	mg/L		H ₂ SO ₄ ;4 ^o C
N	litrate		EPA 353.2	< 0.10		<u> </u>	•
T	Cotal Colif.		MF	< 1]	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.

GHS # 40510000258

Monitoring Well # 4051A16510

Well Nome 2 mw-6

Classification of Groundwater <u>Surficial</u>

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 12/14/94

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

Ground Water Elevation
(above MSL) ___ Dry

STORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	
	Calcium	Well	215.1	Dry	mg/L	Unfiltered	Added
	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
	pН		Electro.			Unfiltered	HNO ₃ ;4 ^O C Field
	Specific- cond.		(SM 205) reference		umhos/	Unfiltered	
}	Turbidity	j	Nephelo- metric		NTU	Unfiltered	Field
ŀ	Chloride		SM 407A		mg/L	Unfiltered	Cool 4 ^O C 4 ^O C
]:	Sulfate		375.4		mg/L		Cool 4 ^O C
:	rds		SM 209B		mg/L	1	Cool 4 C
1	Bicarb.		310.1		mg/L	1	Cool 4°C
]7	гос		415.1		mg/L	1	H ₂ SO ₄ ;4°C
. 1	¹ Н 3-И		EPA 350.2		mg/L		H ₂ SO ₄ ;4°C
N	NH ₄ -N	k	Cal- culation		mg/L]	H ₂ SO ₄ ;4 ^O C
· 1	org. N	ļ	EPA 351.2		mg/L	ł i	H ₂ SO ₄ ;4°C
T	N	ķ	Cal- culation				
N	itrate	1	PA 353.2				H ₂ SO ₄ ;4 ^o C
7	Total Colif.	į.	1F				H ₂ SO ₄ ;4 ^O C Coo1 4°C
1		İ	ļ				_ · •

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

CHS . 4051C 000258

Monitoring Well # 4051A16515

Well Name 4mw-6

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) Yes Well Type: [] Background [] Site Boundary [] Intermediate [] Compliance

Ground Water Elevation (above MSL) 32.13 ft

ORE T	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	55.7	mg/L	Unfiltered	HNO3;4°0
j	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO3;4°C
	Zinc	Ded.	289.1	0.03	mg/L	Unfiltered	HNO3;4°
	Magnesium	Mon.	242.1	0.54	mg/L	Unfiltered	HNO3;4°
	Sodium	System	273.1	2.89	mg/L	Unfiltered	HNO3;4°C
	Iron		236.1	<0.01	mg/L	Unfiltered	HNO ₃ ;4°C
	рH		Electro.	7.71	Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference	132	umhos/	Unfiltered	Field
ı	Turbidity		Nephelo-	0.77	NTU	Unfiltered	Cool 4°C
1	Chloride		SM 407A	7.7	mg/L	Unfiltered	4°C
ļ	Sulfate		375.4	3.0	mg/L	Unfiltered	Cool 4 ⁰ C
l	TDS		SM 209B	.55	mg/L	Unfiltered	Cool 4°C
1	Bicarb.		310.1	58	mg/L	Unfiltered	Cool 4°C
ľ	TOC		415.1	2.97	mg/L	Unfiltered	н ₂ so ₄ ;4°
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	1	H ₂ SO ₄ ;4 ^o
	NH ₄ -N		Cal- culation	< 0.02	mg/L	1	H ₂ SO ₄ ;4 ^o
ı	Org. N		EPA 351.2	<0.07	mg/L		H ₂ SO ₄ ;4 ^o
ľ	ΓN		Cal- culation	0.43	mg/L	}	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
ľ	Nitrate		EPA 353.2	0.43	mg/L		H ₂ SO ₄ ;4 ^o
- 1	Total Colif.	·	MF	ζ 1	1		Cool 4°C

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

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

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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

ANALYSIS

METHOD

DATE TIME BY RESULT UNITS

NITRATE

EPA 353.2 12/28/94 1100 IF 11.9 mg/L



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

ANALYSIS

METHOD

DATE TIME BY RESULT UNITS

TOTAL COLIFORM MF

909A

12/19/94 1610 MR 12/19/94 1610 MR

A MF/100 ml

NON-COLIFORM MF

909A

A MF/100 ml

LABORATORY DIRECTOR and English