



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

July 17, 1995

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

RE: Groundwater Monitoring Analyses
West Pasco Class I Landfill
Quarter II, 1995

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



Department of Environmental Protection SOUTHWEST DISTRICT BY

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Dear Ms. Amram:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MW1, 4MW1, 2MW2, 4MW2, 2MW4, 4MW4, 2MW5, 4MW5, 2MW6, and 4MW6 at the West Pasco Class I Landfill for the Quarter II (April-June) sampling period.

As in previous quarters, groundwater monitoring well 2MW2 exceeded the MCL for nitrate and 4MWl exhibited elevated chloride levels. Neither well was resampled since historical data supports these results.

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulherń

Laboratory

CEM/dh

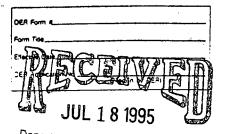
Enclosure

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 32399-2400



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

Department of Environmental Protection SOUTHWEST DISTRICT

GHS 1 405/C 000258

DER PERMIT # PA87-23

RESOURCE RECOVERY - WEST	PASCO CLASS I L.	ANDFILL	
Installation Name			
HAYS ROAD	HUDSON	FLORIDA 34674	PASCO
Address	City	State Zip	County
Candia E. Mulhern		Laboratory	Supervisor :
Owner or Authorized Representat:	ive's Name	Title	
Method of Discharge			
Type of Industry <u>LANDFILL</u>	· · · · · · · · · · · · · · · · · · ·		
Report for Period APR 199	75 to	June 1995	
Attach monitoring data as approforms. When applicable, att background water quality and the	ach additional s	heets describing any	changes in the

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

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 YES
Sample Collection (Yes/No)

Sample Date 06/20/95

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

Ground Water Elevation
(above MSL) __DRY_____

		Method	Analysis Method	Analysis Result	Units	Sample filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO3;40
	Manganese	Wizard	243.1	11	mg/L	Unfiltered	HNO3;40
	Zinc	Ded.	289.1	11	mg/L	Unfiltered	HNO ₃ ; 4°
	Magnesium	Mon.	242.1	11	mg/L	Unfiltered	HNO ₃ ; 4°
	Sodium	System	273.1	11	mg/L	Unfiltered	HNO ₃ ;40
Ī	Iron		236.1	11	mg/L	Unfiltered	HNO ₃ ;4 ^o
	рН		Electro.	11		Unfiltered	Field
	Specific- cond.		(SM 205) reference	11	umhos/	Unfiltered	Field
1	Turbidity		Nephelo-	11	NTU	Unfiltered	Cool 40
	Chloride		SM 407A	11	mg/L	Unfiltered	4°C
]:	Sulfate		375.4	11	mg/L		Cool 40
	TDS		SM 209B	11	1 -		Cool 4°
1	Bicarb.		310.1	11	_		Cool 4 0
7	roc		415.1	11	1		H ₂ SO ₄ ;4 ⁰
N	^{NН} 3-И		EPA 350.2	11			2 30 ₄ ;4 [.]
1	NH ₄ -N		Cal- culation	11			2 ³⁰ 4,4 Н ₂ SO ₄ ;4 ⁰
C	Org. N		EPA 351.2	11	l 1	1	H ₂ SO ₄ ;4 ^c
T	î N		Cal- culation	11			250 ₄ ,4
N	litrate	þ	EPA 353.2	11	mg/L		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 1 4051C 000258

Sample Date 06/20/95

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) __

Ground Water Elevation (above MSL) 32.54

TORET	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltere	Preser vative Added
	Calcium	Well	215.1	169	mg/L	Unfiltered	HNO3;4°
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO3;4°
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO3;40
	Magnesium	Mon.	242.1	3.21	mg/L	Unfiltered	HNO ₃ ; 4°
	Sodium	System	273.1	31.4	mg/L	Unfiltered	HNO ₃ ;40
	Iron		236.1	0.10	mg/L	Unfiltered	HNO ₃ ; 4°
- 1	рН		Electro.	6.98	Std	Unfiltered	Field
- 1	Specific-		(SM 205) reference	1094	umhos/	Unfiltered	Field
1	Turbidity		Nephelo-	0.08	NTU	Unfiltered	Cool 4°
- 1	Chloride		SM 407A	308	mg/L	Unfiltered	4°C
1	Sulfate		375.4	36.8	mg/L		Cool 4°
- 1	TDS		SM 209B	1104	mg/L		Cool 4°
	Bicarb.	-	310.1	113	mg/L		Cool 4°
13	roc		415.1	12.5	•		H ₂ SO ₄ ;4
I	ин 3-и		EPA 350.2	< 0.07	1		H ₂ SO ₄ ;4
1	NH ₄ -N	C	Culation	<0.02			H ₂ SO ₄ ;4
- 1	Org. N	Œ	EPA 351.2	0.14			H ₂ SO ₄ ;4
	N	k	culation	1.21			H ₂ SO ₄ ;4
N	itrate	E	PA 353.2	1.07			1 ₂ 50 ₄ ; 4 ^c
Ì		1				i	

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

GHS 1 4051C 000258

Monitoring Well # 4051A16507

Well Name _ 2 mw-2

Classification of Groundwater Surficial

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

Sample Date _____06/19/95 Well Type: [] Background [] Site Boundary [] Intermediate [] Compliance

Ground Water Elevation (above MSL) 33.06

STORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	11.2	mg/L	Unfiltered	HNO ₃ ;4°C
	Manganese	Wizard	243.1	0.04	mg/L	Unfiltered	HNO3;4°C
	Zinc	Ded.	289.1	0.01	mg/L	Unfiltered	HNO ₃ ;4°C
	Magnesium	Mon.	242.1	3.32	mg/L	Unfiltered	HNO ₃ ;4°C
	Sodium	System	273.1	3.14	mg/L	Unfiltered	HNO ₃ ;4°C
	Iron		236.1	0.20	mg/L	Unfiltered	HNO ₃ ;4°C
1	pН		Electro.	5.87	Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference	143	umhos/	Unfiltered	Field
	Turbidity		Nephelo-	1.50	NTU	Unfiltered	Cool 4°C
1	Chloride		SM 407A	5.75	mg/L	Unfiltered	4°C
	Sulfate	ē	375.4	1	mg/L	1	Cool 4°C
	TDS		SM 209B	161	mg/L		Cool 4°C
- 1	Bicarb.		310.1	5.3			Cool 4°C
1	roc		415.1	2.39	mg/L	I .	H ₂ SO ₄ ;4°C
	ин ₃ -и	,	EPA 350.2	<0.07	mg/L		H ₂ SO ₄ ;4°C
1	NH ₄ -N	1	Cal- culation	<0.02	mg/L		H ₂ SO ₄ ;4°C
- 1	Org. N		EPA 351.2	<0.07			H ₂ SO ₄ ;4°C
I	IN	k	Cal- culation	16.5			H ₂ SO ₄ ;4°C
N	litrate		EPA 353.2	16.50		1	H ₂ SO ₄ ;4°C
							2 4

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

GHS 1 4051C 000258

Monitoring Well # 4051 A 16512

Well Name 4mw-2

Classification of Groundwater F1 oridan

Well Developed* Prior to Sample Collection (Yes/No) <u>Yes</u> Sample Date 06/19/95

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

Ground Water Elevation (above MSL) 32.41

TORET	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltere	Preser- d vatives Added
	Calcium	Well	215.1	27.2	mg/L	Unfiltered	HNO3;40
	Manganese	Wizard	243.1	∠ 0.01	mg/L	Unfiltered	HNO3;40
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO ₃ ;4°
	Magnesium	Mon.	242.1	0.64	mg/L	Unfiltered	HNO ₃ ; 4°
	Sodium	System	273.1	2.53	mg/L	Unfiltered	, ,
	Iron		236.1	0.10	mg/L	Unfiltered	HNO ₃ ;4°(
	pН		Electro.	7.34	1 5 + 2	Unfiltered	Field
	Specific-		(SM 205) reference	151	umhos/	Unfiltered	
	Turbidity		Nephelo- metric	0.10	NTU	Unfiltered	Field Cool 4 ⁰ (
	Chloride		SM 407A	4.67	mg/L	Unfiltered	4 ⁰ C
	Sulfate		375.4	1.9	mg/L	Í	4 C Cool 4 O
ľ	TDS		SM 209B	115	mg/L		Cool 4 C
	Bicarb.		310.1	75.3		<u> </u>	Cool 4°C
	roc		415.1	6.35		l	
l	^{ин} з-и		EPA 350.2	< 0.07		j	H ₂ SO ₄ ;4 ^o
ı	NH ₄ -N		Calation Culation	<0.02	•		H ₂ SO ₄ ;4 ^o
I	Org. N	þ	EPA 351.2	0.10	_	1	H ₂ SO ₄ ;4 ^o
1	'N		Cal- culation	1.16	_		^H 2 ^{SO} 4;4 ^O
N	itrate	į	EPA 353.2	1.06	- 1		1 ₂ SO ₄ ;4 ^o

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

GHS 1 4051C000258

Monitoring Well # 405/14/6508

Well Name 2mw-4

Classification of Groundwater _Surficial

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

Sample Date 06/19/95

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	Preser- vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO3;4°C
	Manganese	Wizard	243.1	- 11	mg/L	Unfiltered	HNO ₃ ;4°C
	Zinc	Ded.	289.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
,	Magnesium	Mon.	242.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
	Iron		236.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
	рН		Electro.	ŧı	Stdunits	1	Field
-	Specific-		(SM 205) reference	11	umhos/		Field
	Turbidity		Nephelo-	11	NTU		Cool 4°C
	Chloride	}	SM 407A	11	mg/L	Unfiltered	4°C
}	Sulfate		375.4	ŧı	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	11	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	11	mg/L	Unfiltered	Cool 4°C
Ī	TOC		415.1	11	mg/L	1	H ₂ SO ₄ ;4 ^o (
	NH ₃ -N		EPA 350.2	T†	mg/L	1	H ₂ SO ₄ ;4 ^o (
	NH ₄ -N		Cal- culation	11	mg/L	1	H ₂ SO ₄ ;4 ^o (
	Org. N		EPA 351.2	11	Í	1	H ₂ SO ₄ ;4°0
ľ	ΓN		Cal- culation	11			H ₂ SO ₄ ;4 ^o (
ļ	Nitrate		EPA 353.2	11		i	H ₂ SO ₄ ;4 ^o 0

*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 # 405/A/65/3

Well Name 4mw-4

Classification of Groundwater Floridan

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

Sample Date 06/19/95Well Type: [] Background [] Site Boundary [] Intermediate [] Compliance

Ground Water Elevation (above MSL) _25.26 F

TORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	59.6	mg/L	Unfiltered	HNO3;4°
	Manganese	Wizard	243.1	∠0.01	mg/L	Unfiltered	HNO3;4°
	Zinc	Ded.	289.1	40.01	mg/L	Unfiltered	HNO ₃ ;4°
	Magnesium	Mon.	242.1	1.17	mg/L	Unfiltered	HNO3;4°
	Sodium	System	273.1	3.06	mg/L	Unfiltered	HNO ₃ ;40
1	Iron		236.1	0.08	mg/L	Unfiltered	HNO ₃ ; 4 ^o (
	рH		Electro.	6.96	Stdunits	Unfiltered	Field
- 1	Specific-		(SM 205) reference	273	umhos/	Unfiltered	Field
1	Turbidity		Nephelo- metric	0.04	NTU	Unfiltered	Cool 40
J	Chloride		SM 407A	6.81	mg/L	Unfiltered	4°C
j	Sulfate		375.4	6.2	mg/L.		Cool 4 ⁰ (
- 1	TDS		SM 209B	199	1		Cool 4 C
1	Bicarb.		310.1	151	1		Cool 4 C
1	roc		415.1	13.9	1	Į.,	H ₂ SO ₄ ;4 ⁰
	¹ Н ₃ -и		EPA 350.2	<0.07	1 1	ĺ	H ₂ SO ₄ ;4 ^o
	NH4-N		Cal- Culation	<0.02] '		H ₂ SO ₄ ;4 ^o
1	Org. N	þ	EPA 351.2	0.11		1	H ₂ SO ₄ ;4 ^o
T	CN	ķ	Cal- culation	0.60		ł	1 ₂ 50 ₄ ;4 ⁰
N	litrate	Į.	EPA 353.2	0.49	_		12 ³⁰ 4 ³⁴

*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 # 4051A16509

Well Name 2 mw-5

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 06/20/95

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/Unfiltere	Preser- d vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO3;40
	Manganese	Wizard	243.1	rt	mg/L	Unfiltered	HNO3;4°
	Zinc	Ded.	289.1	11	mg/L	Unfiltered	HNO ₃ ;4°
	Magnesium	Mon.	242.1	11	mg/L	Unfiltered	1
	Sodium	System	273.1	11	mg/L	Unfiltered	HNO ₃ ;4°
	Iron		236.1	11	mg/L	Unfiltered	, ,
	pН		Electro.	11	Std	Unfiltered	HNO ₃ ;4 ^o (Field
	Specific-		(SM 205) reference	11	umhos/	Unfiltered	
l	Turbidity		Nephelo-	11	NTU	Unfiltered	Field
	Chloride .	i 1	SM 407A	Ħ	mg/L	Unfiltered	Cool 4 ^O C
	Sulfate		375.4	11	mg/L	Unfiltered	
ľ	TDS		SM 209B	tt	mg/L	1	Cool 4°C
]1	Bicarb.		310.1	11	mg/L	i	Cool 4 ⁰ C
[:	roc		415.1	11	mg/L	i	
ı	NH ₃ -N		EPA 350.2	11	mg/L	ĺ	н ₂ sо ₄ ;4 ^о н ₂ sо ₄ ;4 ^о
1	IH ₄ -N	k	Cal- culation	tt .	f •		H ₂ SO ₄ ;4 ^o
1	Org. N		EPA 351.2	11	1	L_	H ₂ SO ₄ ;4 ^O
ł	CN	k	Calation	11			H ₂ SO ₄ ;4 ^o
N	itrate	Œ	EPA 353.2	11	1		12 ⁵⁰ 4;4 ⁰

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

GHS . 40510000258

Monitoring Well # 405/4165/4

Well Name 4 mw-5

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) __26.06

RET de	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltere	Preser- vatives Added
	Calcium	Well	215.1	47.5	mg/L	Unfiltered	HNO3;4°C
	Manganese	Wizard	243.1	く0.01	mg/L	Unfiltered	HNO3;4°C
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO ₃ ;4°C
	Magnesium	Mon.	242.1	0.91	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	4.09	mg/L	Unfiltered	HNO ₃ ;4°C
I	Iron		236.1	0.08	mg/L	Unfiltered	HNO ₃ ;4°C
	рH		Electro.	7.48	Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference	251	umhos/	Unfiltered	Field
	Turbidity		Nephelo-	0.10	NTU	Unfiltered	Cool 40C
ļ	Chloride .		SM 407A	29.9	mg/L	Unfiltered	4°C
	Sulfate		375.4	4.8	mg/L	Unfiltered	Cool 4°C
- [TDS		SM 209B	227	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	96.6	mg/L	Unfiltered	Cool 4°C
	гос		415.1	9.05	1	d	H ₂ SO ₄ ;4 ^O (
1	ин ₃ -и		EPA 350.2	<0.07	ł	l i	H ₂ SO ₄ ;4 ^O (
1	NH ₄ -N		Cal- culation	40.02	} ·		H ₂ SO ₄ ;4 ^O (
	Org. N		EPA 351.2	0.13	I '		H ₂ SO ₄ ;4 ^O (
]7	ſN		Cal- culation	0.58			H ₂ SO ₄ ;4 ^o (
N	litrate		EPA 353.2	0.45		1	H ₂ SO ₄ ;4 ^O C

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

GHS 1 4051000258

Monitoring Well # 4051A16510

Well Name 2 mw-6

Classification of Groundwater <u>Surficial</u>

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 06/19/95

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

Ground Water Elevation (above MSL) DRY f

TORET	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result_	Units	Sample filtered/Unfiltere	1
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	Added
	Manganese	Wizard	243.1	11	mg/L	Unfiltered	HNO ₃ ;4°
	Zinc	Ded.	289.1	tt	mg/L	Unfiltered	HNO ₃ ;4°
	Magnesium	Mon.	242.1	11	mg/L	Unfiltered	HNO ₃ ;4°
	Sodium	System	273.1	11	mg/L	Unfiltered	HNO ₃ ; 4°
	Iron		236.1	11	mg/L	Unfiltered	HNO ₃ ;4°
j	рН		Electro.	11	Stdunits	Unfiltered	HNO ₃ ;4°
	Specific-		(SM 205) reference	11	umhos/	Unfiltered	Field
İ	Turbidity		Nephelo- metric	11	NTU	Unfiltered	Field
	Chloride	1	SM 407A	11	mg/L	Unfiltered	Cool 4 ⁰ (
}	Sulfate		375.4	. !!	mg/L	Unfiltered	4°C
ŀ	TDS		SM 209B	11	1	Unfiltered	Cool 4°(
]:	Bicarb.		310.1	11	i .		Cool 4 ⁰ C
	roc		415.1	11	_	Unfiltered	Cool 4 ⁰ C
l	NH 3 - N	•	EPA 350.2	11	1		H ₂ SO ₄ ;4°
- 1	NH ₄ -N	i	Cal- culation	11		1	H ₂ SO ₄ ;4 ^o
- 1	org. N		Culation EPA 351.2	**	1 -	1	H ₂ SO ₄ ;4 ^o
1	: N	1	i		mg/L	Unfiltered	H ₂ SO ₄ ;4 ^o
	13 +		Cal- culation	11	mg/L	Unfiltered	H ₂ SO ₄ ;4 ^o
l ^r	itrate	Œ	EPA 353.2	ti .	mg/L	4	H ₂ SO ₄ ;4 ^o

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

GHS 1 4051C 000258

Monitoring Well # 405/A16515

Well Name 4mw-6

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 06/19/95

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

Ground Water Elevation (above MSL) 29.68

						(gDOV6 W2[29.00
TORET	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltere	Preser- vatives Added
	Calcium	Well	215.1	0.09	mg/L	Unfiltered	HNO3;40
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO3;40
	Zinc	Ded.	289.1	∠0.01	mg/L	Unfiltered	HNO3;4°
	Magnesium	Mon.	242.1	0.49	mg/L	Unfiltered	HNO ₃ ;4°C
	Sodium	System	273.1	3.07	mg/L	Unfiltered	HNO3;4°C
	Iron		236.1	0.08	mg/L	Unfiltered	HNO3;4°C
1	рH		Electro.	6.87	Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference	119	umhos/	Unfiltered	
	Turbidity		Nephelo-	0.09	NTU	Unfiltered	Field
j	Chloride		SM 407A	5.02	mg/L	Unfiltered	C001 4°C 4°C
	Sulfate	.,	375.4	3.1	mg/L		Cool 4 ^O C
[TDS		SM 209B	100	mg/L	1	Cool 4°C
]1	Bicarb.		310.1	57.5		i	Cool 4 C
	LOC	·	415.1	6.02	1		H ₂ SO ₄ ;4 ⁰
ì	^{ИН} 3 - И		EPA 350.2	<0.07	_	1	"2 ⁵⁰ 4,4" H ₂ SO ₄ ;4 ⁰
ı	NH ₄ -N		Cal- culation	40. 02	1		H ₂ SO ₄ ;4 ^o
C	Org. N		EPA 351.2	0.16		i	- ,
r	î N	ŀ	Cal- culation	0.86			H ₂ SO ₄ ;4 ^O
N	litrate	1	EPA 353.2	0.70	!!!		H ₂ SO ₄ ;4 ^o
-		ſ	333.2	3.70	mg/L	Unfiltered	H ₂ SO ₄ ;4 ^o (
- !		i	ľ			ļ	
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*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.



REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD

SPRING HILL, FL 34610-

Attn: VINCENT MANNELLA

DATE: 07/14/95

DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER II 1995 (Page 1 of 4)

SAMPLE		DELIVERY	TO LAB	
LAB No. DATE TIM	NE SAMPLER	DATE	TIME MATRIX	
37403 06/19/95 143	30 CHRIS CHILDRESS	06/19/95	1545 WA	
37404 06/19/95 140	00 CHRIS CHILDRESS	06/19/95	1545 WA	
37405 06/19/95 151	5 CHRIS CHILDRESS	06/19/95	1545 WA	
	CLIENT STATION ID:	RR 2MW2	RR 4MW2	RR 4MW4
	LAB #:	37403	37404	37405
WATER LEVEL	FEET	33.06	32.41	25.26
FIELD PH	STD. UNITS	5.87	7.34	6.96
FIELD TEMPERATURE	DEGREES C	24.9	25.0	25.1
FIELD CONDUCTIVITY	umhos/cm	143	151	273
DISSOLVED OXYGEN, FIELD	mg/L	4.1	1.7	2.0
ALKALINITY, BICARB.	mg/l	5.3	75.3	151
TOT.ORGANIC CARBON	mg/L	2.39	6.35	13.9
CHLORIDE	mg/L	5.75	4.67	6.81
TOTAL COLIFORM MF	MF/100 ml	<1	CG	<1
NON-COLIFORM MF	MF/100 ml	TNTC	CG	24
AMMONIA NITROGEN	mg/L	<0.07	<0.07	<0.07
UN-IONIZED AMMONIA N	mg/L	<0.02	<0.02	<0.02
TOTAL ORGANIC N	mg/L	<0.07	0.10	0.11
NITRATE/NITRITE	mg/l	16.50	1.06	0.49
TOTAL NITROGEN	MG/L	16.5	1.16	0.60
PH, LAB	std units	5.81	8.11	7.56
TOTAL DISS.SOLIDS	mg/L	161	115	199
SPEC.CONDUCTIVITY	umhos	113	120	224
SULFATE	mg/L	<1	1.9	6.2

LABORATORY DIRECTOR



REPORT OF ANALYSES

RESOURCE RECOVERY 14230 HAYS ROAD

SPRING HILL, FL 34610-

Attn: VINCENT MANNELLA

DATE: 07/14/95

DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER II 1995 (Page 3 of 4)

SAMPLE				DELIVERY	TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX	
37403	06/19/95	1430	CHRIS CHILDRESS	06/19/95	1545 WA	
37404	06/19/95	1400	CHRIS CHILDRESS	06/19/95	1545 WA	
37405	06/19/95	1515	CHRIS CHILDRESS	06/19/95	1545 WA	
		C	LIENT STATION ID:	RR 2MW2	RR 4MW2	RR 4MW4
			LAB #:	37403	37404	37405
TIDD IDITY			NECLI	1.50	0.10	0.04
TURBIDITY CALCIUM, TOTAL			NTU ma /I	11.2	27.2	59.6
,			mg/L	0.20	0.10	0.08
IRON, TOTA			mg/L		0.64	1.17
MAGNESIUM, TOTAL			mg/L	3.32		
MANGANESE, TOTAL			mg/L	0.04	<0.01	< 0.01
SODIUM, TO	TAL		mg/L	3.14	2.53	3.06
ZINC, TOTAL			mg/L	0.01	<0.01	<0.01

I ARORATORY DIRECTOR

L. E. Mille



REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD

SPRING HILL, FL 34610-

Attn: VINCENT MANNELLA

DATE: 07/14/95

DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER II 1995 (Page 2 of 4)

SAMPLE LAB No. DATE TIME 37406 06/19/95 1215 37475 06/20/95 1350 37476 06/20/95 1150	CHRIS CHILDRESS CHRIS CHILDRESS	DELIVERY DATE 06/19/95 06/20/95 06/20/95	TIME MATRIX 1545 WA	
	CLIENT STATION ID: LAB #:	RR 4MW6 37406	RR 4MW1 37475	RR 4MW5 37476
WATER LEVEL FIELD PH FIELD TEMPERATURE FIELD CONDUCTIVITY DISSOLVED OXYGEN, FIELD ALKALINITY, BICARB. TOT.ORGANIC CARBON CHLORIDE TOTAL COLIFORM MF NON-COLIFORM MF AMMONIA NITROGEN UN-IONIZED AMMONIA N TOTAL ORGANIC N NITRATE/NITRITE TOTAL NITROGEN PH, LAB TOTAL DISS.SOLIDS SPEC.CONDUCTIVITY SULFATE	FEET STD. UNITS DEGREES C umhos/cm mg/L mg/l mg/l mg/L MF/100 ml MF/100 ml MF/100 ml MG/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg	29.68 6.87 24.5 119 3.4 57.5 6.02 5.02 <1 TNTC <0.07 <0.02 0.16 0.70 0.86 8.31 100 104 3.1	32.54 6.98 25.1 1094 1.7 113 12.5 308 <1 4 <0.07 <0.02 0.14 1.07 1.21 7.38 1104 925 36.8	26.06 7.48 25.0 251 2.0 96.6 9.05 29.9 <1 18 <0.07 <0.02 0.13 0.45 0.58 8.01 227 199 4.8

LABORATORY DIRECTOR (2) 5. 1/pullo



REPORT OF ANALYSES

RESOURCE RECOVERY 14230 HAYS ROAD

SPRING HILL, FL 34610-

Attn: VINCENT MANNELLA

DATE: 07/14/95

DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER II 1995 (Page 4 of 4)

SAMPLE				DELIVERY	TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX	
37406	06/19/95	1215	CHRIS CHILDRESS	06/19/95	1545 WA	
37475	06/20/95	1350	CHRIS CHILDRESS	06/20/95	1430 WA	
37476	06/20/95	1150	CHRIS CHILDRESS	06/20/95	1430 WA	
		C	LIENT STATION ID:	RR 4MW6	RR 4MW1	RR 4MW5
			LAB #:	37406	37475	37476
TURBIDITY			NTU	0.09	0.08	0.10
CALCIUM, TOTAL			mg/L	21.3	169	47.5
IRON, TOTAL			mg/L	0.08	0.10	0.08
MAGNESIUM, TOTAL			mg/L	0.49	3.21	0.91
MANGANESE, TOTAL			mg/L	<0.01	0.01	<0.01
SODIUM, TOTAL			mg/L	3.07	31.4	4.09
ZINC, TOTAL			mg/L	<0.01	<0.01	<0.01

LABORATORY DIRECTOR