

gw file



PASCO COUNTY, FLORIDA

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

ENVIRONMENTAL LABORATORY
PASCO COUNTY GOVT. COMPLEX
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

October 20, 1995

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

RECEIVED
OCT 23 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, 4MW5, 2MW6, and 4MW6 at the West Pasco Class I Landfill for the Quarter III (July-September) sampling period.

As in previous quarters, Groundwater Monitoring Well 2MW2 exceeded the MCL for nitrate and 4MW1 exhibited elevated chloride levels. Additionally, Groundwater Monitoring Well 4MW2 was positive for total coliform. All three wells were resampled for confirmation, and the results of these resamples are included for your records. These exceedences are presented in the attached table as are the resample results.

Finally, the groundwater table contour map is presently being prepared and will be submitted under separate cover.

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

Sincerely,

A handwritten signature in cursive script, reading "Candia E. Mulhern".

Candia E. Mulhern
Laboratory Manager

CEM/DLH/r101907/56: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

**RESOURCE RECOVERY - CLASS I LANDFILL
GROUNDWATER EXCEEDENCE SUMMARY TABLE
QUARTER III, 1995**

<u>Well</u>	<u>Analyte</u>	<u>Result (mg/L)</u>	<u>Resample Results (mg/L)</u>
2MW2	Nitrate	15.7	14.6
4MW1	Chlorides	328	252
	TDS	1,020	948
4MW2	Total Coliform	3	3

Florida Department of Environmental Protection

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

DEP Form # 62-522.600(2)
Form Title <u>GROUND WATER MONITORING REPORT</u>
Effective Date _____
DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name Resource Recovery - West Pasco Class I Landfill
Address Hays Road
City Hudson, Florida Zip 34610
Telephone Number ()
- (2) The GMS Identification Number 4051C00030
- (3) DEP Permit Number PA87-23
- (4) Authorized Representative Name Candia E. Mulhern
Address 8864 Government Drive
City New Port Richey, Florida 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: 10/15/95 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 #1-86173 & 86418 Env. 86035

Lab Name Pasco County Environmental Laboratory

Address 8864 Government Drive, New Port Richey, FL 34654

Phone Number (813) 847-8902

ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95
 Test Site ID #: 4051A16506 Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: 2MW-1 Well Purged (Y/N): Yes
 Classification of Ground Water: Surficial Well Type: (☒) Background
 () Intermediate
 () Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1		DRY	0.1 mg/L
001055	Manganese	"	"	EPA 243.1		"	0.03 mg/L
001092	Zinc	"	"	EPA 289.1		"	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1		"	0.005 mg/L
000929	Sodium	"	"	EPA 273.1		"	0.01 mg/L
001045	Iron	"	"	EPA 236.1		"	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1		"	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B		"	0.00 umhos/cm
0082079	Turbidity	"	"	SM2130B		"	0.01 NTU
000940	Chloride	"	"	SM4500C1-B		"	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4		"	1 mg/L
0070300	Total Dis. Solids	"	"	SM2540C		"	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1		"	1 mg/L
000680	TOC	"	"	EPA 415.1		"	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1		"	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83		"	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		"	0.07 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95
 Test Site ID #: 4051A16506 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 2MW-1 Well Purged (Y/N): Yes
 Classification of Ground Water: Surficial Well Type: (☒) Background
 () Intermediate
 () Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1		DRY	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2		"	0.02 mg/L
031504	Total Coliform	"	"	SM9222B		"	1 MF per 100 m
072020	Water Level	"	"			"	Feet

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ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1510
 Test Site ID #: 4051A16511 Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: 4MW-1 Well Purged (Y/N): Yes
 Classification of Ground Water: Floridan Well Type: (☒) Background
 () Intermediate
 () Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): 34.54

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	10/02/95 1615	179	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	10/02/95 1500	< 0.01	0.03 mg/L
001092	Zinc	"	"	EPA 289.1	10/02/95 1450	0.02	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1	10/02/95 1600	4.03	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	10/03/95 1035	65.1	0.01 mg/L
001045	Iron	"	"	EPA 236.1	10/02/95 1430	0.03	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1	09/26/95 1510	7.09	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B	09/26/95 1510	1202	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B	09/26/95 1630	0.051	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	10/03/95 1110	328	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	09/27/95 1300	47.6	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C	10/03/95 1500	1020	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	09/29/95 1400	120	1 mg/L
000680	TOC	"	"	EPA 415.1	09/28/95 1400	5.83	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	10/06/95 1415	< 0.02	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	09/28/95 1600	0.28	0.07 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1510
 Test Site ID #: 4051A16511 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 4MW-1 Well Purged (Y/N): Yes

Classification of Ground Water: Floridan Well Type: (☒) Background
 () Intermediate

Ground Water Elevation (NGVD): _____
 () Compliance
 () Other

or (MSL): 34.54

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1	10/06/95 1415	0.97	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2	09/27/95 1500	0.69	0.02 mg/L
031504	Total Coliform	"	"	SM9222B	09/27/95 1230	< 1	1 MF per 100 m
072020	Water Level	"	"		09/26/95 1510	34.54	Feet

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/27/95 @ 1200
 Test Site ID #: 4051A16507 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 2MW-2 Well Purged (Y/N): Yes

Classification of Ground Water: Surficial Well Type: () Background
 () Intermediate

Ground Water Elevation (NGVD): _____
 or (MSL): 34.41 (X) Compliance
 () Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	10/02/95 1615	14.1	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	10/02/95 1500	0.04	0.03 mg/L
001092	Zinc	"	"	EPA 289.1	10/02/95 1450	0.02	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1	10/02/95 1500	4.23	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	10/03/95 1035	3.77	0.01 mg/L
001045	Iron	"	"	EPA 236.1	10/02/95 1430	0.14	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1	09/27/95 1200	5.27	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B	09/27/95 1200	153	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B	09/27/95 1630	0.87	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	10/03/95 1110	5.22	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	10/03/95 1300	< 1	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C	10/03/95 1500	118	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	09/29/95 1400	< 1	1 mg/L
000680	TOC	"	"	EPA 415.1	09/28/95 1400	2.13	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	10/06/95 1415	< 0.02	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/27/95 @ 1200
 Test Site ID #: 4051A16507 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 2MW-2 Well Purged (Y/N): Yes

Classification of Ground Water: Surficial Well Type: () Background
 () Intermediate

Ground Water Elevation (NGVD): _____ (X) Compliance
 () Other

or (MSL): 34.41

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1	10/06/95 1415	15.7	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2	09/28/95 1500	15.7	0.02 mg/L
031504	Total Coliform	"	"	SM9222B	09/28/95 1300	<1	1 MF per 100 m.
072020	Water Level	"	"		09/27/95 1200	34.41	Feet

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ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1300
 Test Site ID #: 4051A16512 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 4MW-2 Well Purged (Y/N): Yes
 Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD):
 or (MSL): 33.91

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	10/02/95 1615	30.8	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	10/02/95 1500	< 0.01	0.03 mg/L
001092	Zinc	"	"	EPA 289.1	10/02/95 1450	0.02	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1	10/02/95 1600	0.72	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	10/03/95 1035	2.78	0.01 mg/L
001045	Iron	"	"	EPA 236.1	10/02/95 1430	0.04	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1	09/26/95 1300	7.76	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B	09/26/95 1300	154	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B	09/26/95 1630	0.162	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	10/03/95 1110	4.28	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	09/27/95 1300	2.62	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C	10/03/95 1500	108	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	09/29/95 1400	75	1 mg/L
000680	TOC	"	"	EPA 415.1	09/28/95 1400	3.39	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	10/06/95 1415	< 0.02	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1300
 Test Site ID #: 4051A16512 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 4MW-2 Well Purged (Y/N): Yes

Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate

Ground Water Elevation (NGVD): _____ (X) Compliance
 () Other

or (MSL): 33.91

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1	10/06/95 1415	0.27	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2	09/27/95 1500	0.27	0.02 mg/L
031504	Total Coliform	"	"	SM9222B	09/27/95 1230	3	1 MF per 100 m
072020	Water Level	"	"		09/26/95 1300	33.91	Feet

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ART 10 ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/27/95
 Test Site ID #: 4051A16508 Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: 2MW-4 Well Purged (Y/N): Yes
 Classification of Ground Water: Surficial Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1		DRY	0.1 mg/L
001055	Manganese	"	"	EPA 243.1		"	0.03 mg/L
001092	Zinc	"	"	EPA 289.1		"	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1		"	0.005 mg/L
000929	Sodium	"	"	EPA 273.1		"	0.01 mg/L
001045	Iron	"	"	EPA 236.1		"	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1		"	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B		"	0.00 umhos/cm
0082079	Turbidity	"	"	SM2130B		"	0.01 NTU
000940	Chloride	"	"	SM4500C1-B		"	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4		"	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C		"	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1		"	1 mg/L
000680	TOC	"	"	EPA 415.1		"	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1		"	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83		"	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		"	0.07 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/27/95
 Test Site ID #: 4051A16508 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 2MW-4 Well Purged (Y/N): Yes

Classification of Ground Water: Surficial Well Type: () Background
 () Intermediate

Ground Water Elevation (NGVD): _____ (X) Compliance
 () Other

or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1		DRY	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2		"	0.02 mg/L
031504	Total Coliform	"	"	SM9222B		"	1 MF per 100 m.
072020	Water Level	"	"			"	Feet

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RT III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/27/95 @ 1100
 Well Site ID #: 4051A16513 Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: 4MW-4 Well Purged (Y/N): Yes
 Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): 28.11

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
00916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	10/02/95 1615	63.1	0.1 mg/L
01055	Manganese	"	"	EPA 243.1	10/02/95 1500	< 0.01	0.03 mg/L
01092	Zinc	"	"	EPA 289.1	10/02/95 1450	0.05	0.005 mg/L
00927	Magnesium	"	"	EPA 242.1	10/02/95 1500	1.32	0.005 mg/L
00929	Sodium	"	"	EPA 273.1	10/03/95 1035	3.21	0.01 mg/L
01045	Iron	"	"	EPA 236.1	10/02/95 1430	0.17	0.001 mg/L
00400	pH-Field	"	"	EPA 150.1	09/27/95 1100	7.26	0.01 St. Units
00095	Specific Conductance	"	"	SM2510B	09/27/95 1100	292	0.00 umhos/cm
82079	Turbidity	"	"	SM2130B	09/27/95 1630	0.89	0.01 NTU
00940	Chloride	"	"	SM4500C1-B	10/03/95 1110	6.23	0.15 mg/L
00945	Sulfate	"	"	EPA 375.4	10/03/95 1300	6.0	1 mg/L
70300	Total Dis. Solids	"	"	SM2540C	10/03/95 1500	230	1 mg/L
00410	Bicarbonate	"	"	EPA 310.1	09/29/95 1400	151	1 mg/L
00680	TOC	"	"	EPA 415.1	09/28/95 1400	6.86	0.5 mg/L
00610	Ammonia	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L
00612	NH ₄ -N	"	"	DEP SOP 10/03/83	10/06/95 1415	< 0.02	0.02 mg/L
00605	Organic Nitrogen	"	"	EPA 350.1	09/28/95 1600	0.15	0.07 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/27/95 @ 1100
 Test Site ID #: 4051A16513 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 4MW-4 Well Purged (Y/N): Yes

Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate

Ground Water Elevation (NGVD): _____ (X) Compliance
 () Other

or (MSL): 28.11

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1	10/06/95 1415	0.15	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2	09/28/95 1500	< 0.15	0.02 mg/L
031504	Total Coliform	"	"	SM9222B	09/28/95 1300	< 1	1 MF per 100 m.
072020	Water Level	"	"		09/27/95 1100	28.11	Feet

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ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95
 Test Site ID #: 4051A16509 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 2MW-5 Well Purged (Y/N): Yes
 Classification of Ground Water: Surficial Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1		DRY	0.1 mg/L
001055	Manganese	"	"	EPA 243.1		"	0.03 mg/L
001092	Zinc	"	"	EPA 289.1		"	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1		"	0.005 mg/L
000929	Sodium	"	"	EPA 273.1		"	0.01 mg/L
001045	Iron	"	"	EPA 236.1		"	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1		"	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B		"	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B		"	0.01 NTU
000940	Chloride	"	"	SM4500C1-B		"	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4		"	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C		"	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1		"	1 mg/L
000680	TOC	"	"	EPA 415.1		"	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1		"	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83		"	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		"	0.07 mg/L

Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95
Test Site ID #: 4051A16509 Report Period: 1995 / Quarter III
(year/quarter)

Well Name: 2MW-5 Well Purged (Y/N): Yes

Classification of Ground Water: Surficial Well Type: () Background
() Intermediate

Ground Water Elevation (NGVD): _____ (X) Compliance
() Other

or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1		DRY	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2		"	0.02 mg/L
031504	Total Coliform	"	"	SM9222B		"	1 MF per 100 m
072020	Water Level	"	"			"	Feet

* Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1400
 Test Site ID #: 4051A16514 Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: 4MW-5 Well Purged (Y/N): Yes
 Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): 28.96

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	10/02/95 1615	52.3	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	10/02/95 1500	< 0.01	0.03 mg/L
001092	Zinc	"	"	EPA 289.1	10/02/95 1450	0.05	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1	10/02/95 1600	1.02	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	10/03/95 1035	4.44	0.01 mg/L
001045	Iron	"	"	EPA 236.1	10/02/95 1430	0.04	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1	09/26/95 1400	7.68	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B	09/26/95 1400	267	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B	09/26/95 1630	0.245	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	10/03/95 1110	34.1	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	09/27/95 1300	5.39	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C	10/03/95 1500	199	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	09/29/95 1400	93	1 mg/L
000680	TOC	"	"	EPA 415.1	09/28/95 1400	3.60	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	10/06/95 1415	< 0.02	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	09/28/95 1600	0.18	0.07 mg/L

Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1400
 Test Site ID #: 4051A16514 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 4MW-5 Well Purged (Y/N): Yes
 Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): 28.96

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1	10/06/95 1415	0.18	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2	09/27/95 1500	<0.15	0.02 mg/L
031504	Total Coliform	"	"	SM9222B	09/27/95 1230	<1	1 MF per 100 m.
072020	Water Level	"	"		09/26/95 1400	28.96	Feet

* Attach Laboratory Reports

ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95
 Test Site ID #: 4051A16510 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 2MW-6 Well Purged (Y/N): Yes
 Classification of Ground Water: Surficial Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1		DRY	0.1 mg/L
001055	Manganese	"	"	EPA 243.1		"	0.03 mg/L
001092	Zinc	"	"	EPA 289.1		"	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1		"	0.005 mg/L
000929	Sodium	"	"	EPA 273.1		"	0.01 mg/L
001045	Iron	"	"	EPA 236.1		"	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1		"	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B		"	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B		"	0.01 NTU
000940	Chloride	"	"	SM4500C1-B		"	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4		"	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C		"	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1		"	1 mg/L
000680	TOC	"	"	EPA 415.1		"	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1		"	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83		"	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		"	0.07 mg/L

Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95

Test Site ID #: 4051A16510 Report Period: 1995 / Quarter III
(year/quarter)

Well Name: 2MW-6 Well Purged (Y/N): Yes

Classification of Ground Water: Surficial Well Type: () Background
() Intermediate
(X) Compliance
() Other

Ground Water Elevation (NGVD): _____
or (MSL): DRY

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1		DRY	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2		"	0.02 mg/L
031504	Total Coliform	"	"	SM9222B		"	1 MF per 100 m
072020	Water Level	"	"			"	Feet

* Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1135
 Test Site ID #: 4051A16515 Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: 4MW-6 Well Purged (Y/N): Yes

Classification of Ground Water: Floridan Well Type: () Background

Ground Water Elevation (NGVD): _____ () Intermediate
 (X) Compliance
 () Other

or (MSL): 31.58

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	10/02/95 1615	24.5	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	10/02/95 1500	<0.01	0.03 mg/L
001092	Zinc	"	"	EPA 289.1	10/02/95 1450	0.02	0.005 mg/L
000927	Magnesium	"	"	EPA 242.1	10/02/95 1600	0.55	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	10/03/95 1035	3.05	0.01 mg/L
001045	Iron	"	"	EPA 236.1	10/02/95 1430	0.04	0.001 mg/L
000400	pH-Field	"	"	EPA 150.1	09/26/95 1135	7.72	0.01 St. Units
000095	Specific Conductance	"	"	SM2510B	09/26/95 1135	125	0.00 umhos/cm
082079	Turbidity	"	"	SM2130B	09/26/95 1630	0.07	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	10/03/95 1110	4.47	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	09/27/95 1300	2.13	1 mg/L
070300	Total Dis. Solids	"	"	SM2540C	10/03/95 1500	103	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	09/29/95 1400	56	1 mg/L
000680	TOC	"	"	EPA 415.1	09/28/95 1400	2.45	0.5 mg/L
000610	Ammonia	"	"	EPA 350.1	09/28/95 1600	< 0.07	0.07 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	10/06/95 1415	< 0.02	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	09/28/95 1600	0.08	0.07 mg/L

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ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 09/26/95 @ 1135
 Test Site ID #: 4051A16515 Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: 4MW-6 Well Purged (Y/N): Yes
 Classification of Ground Water: Floridan Well Type: () Background
 () Intermediate
 (X) Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): 31.58

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000600	Total Nitrogen	Well Wiz. Ded. Mon. System	No	EPA 350.1	10/06/95 1415	0.08	0.07 mg/L
000620	Nitrate	"	"	EPA 353.2	09/27/95 1500	<0.15	0.02 mg/L
031504	Total Coliform	"	"	SM9222B	09/27/95 1230	<1	1 MF per 100 ml
072020	Water Level	"	"		09/26/95 1135	31.58	Feet

Attach Laboratory Reports



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RES GWM QIII 95
DATE: 10/11/95
DHRS # 54237, E44123

(Page 1 of 2)

SAMPLE				DELIVERY TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX
40571	09/27/95	1200	CHRIS CHILDRESS	09/27/95	1600 WA
40572	09/27/95	1100	CHRIS CHILDRESS	09/27/95	1600 WA

CLIENT STATION ID:	RES REC 2MW2	RES REC 4MW4
LAB #:	40571	40572

WATER LEVEL	FEET	34.41	28.11
FIELD PH	STD. UNITS	5.27	7.26
FIELD TEMPERATURE	DEGREES C	25.7	25.1
FIELD CONDUCTIVITY	umhos/cm	153	292
DISSOLVED OXYGEN, FIELD	mg/L	4.0	1.7
ALKALINITY, BICARB.	mg/l	<1	151
TOT. ORGANIC CARBON	mg/L	2.13	6.86
CHLORIDE	mg/L	5.22	6.23
TOTAL COLIFORM MF	MF/100 ml	<1	<1
NON-COLIFORM MF	MF/100 ml	TNTC	36
AMMONIA NITROGEN	mg/L	<0.07	<0.07
UN-IONIZED AMMONIA N	mg/L	<0.02	<0.02
TOTAL ORGANIC N	mg/L	<0.07	0.15
NITRATE/NITRITE	mg/l	15.7	<0.15
TOTAL NITROGEN	MG/L	15.7	0.15
PH, LAB	std units	5.43	7.53
TOTAL DISS. SOLIDS	mg/L	118	230
SPEC. CONDUCTIVITY	umhos	125	243
SULFATE	mg/L	<1	6.0

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RES GWM QIII 95
DATE: 10/11/95
DHRS # 54237, E44123

(Page 2 of 2)

SAMPLE				DELIVERY TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX
40571	09/27/95	1200	CHRIS CHILDRESS	09/27/95	1600 WA
40572	09/27/95	1100	CHRIS CHILDRESS	09/27/95	1600 WA

CLIENT STATION ID:	RES REC 2MW2	RES REC 4MW4
LAB #:	40571	40572

TURBIDITY	NTU	0.87	0.89
CALCIUM, TOTAL	mg/L	14.1	63.1
IRON, TOTAL	mg/L	0.14	0.17
MAGNESIUM, TOTAL	mg/L	4.23	1.32
MANGANESE, TOTAL	mg/L	0.04	<0.01
MERCURY, TOTAL	mg/L	0.0009	0.0006
SODIUM, TOTAL	mg/L	3.77	3.21
ZINC, TOTAL	mg/L	0.02	0.05

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 10/11/95

QA/QC for SAMPLE Nos: 40571, 40572,

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
ALKALINITY,BICARB. EPA310.1 mg/l	40572	151.6	151.0	0.60	0.40	-----	QC#9952	186	178	95.70

TOT.ORGANIC CARBON
EPA 415.1
mg/L

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

CHLORIDE	40507	9.44	9.46	0.020	0.21	-----	STD	60.00	59.7	99.50
EPA 325.3	40511	736	724	12	1.64	-----	STD	60.00	58.94	98.20
mg/L	40512	623	616	7.0	1.13	-----	-----	-----	-----	-----
	40567	-----	-----	-----	-----	95.70	-----	-----	-----	-----

TOTAL COLIFORM MF
909A
MF/100 ml

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

NON-COLIFORM MF
909A
MF/100 ml

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

AMMONIA NITROGEN
SM4500NH3E
mg/L

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

UN-IONIZED AMMONIA N
EPA 350.1
mg/L

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS



Page 2

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL ORGANIC N CALC-351.3 mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
NITRATE/NITRITE EPA 353.2 mg/l		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
TOTAL NITROGEN CALC. MG/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
PH,LAB EPA150.1 std units	40506	7.91	7.92	0.010	0.13	-----	-----	-----	-----	-----
TOTAL DISS.SOLIDS EPA160.1 mg/L	40572	230	233	3.0	1.30	-----	STD	293	291	99.30
SPEC.CONDUCTIVITY EPA120.1 umhos		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
SULFATE EPA375.4 mg/L	40332	84.7	82.9	1.8	2.15	-----	STD	20.00	20.78	103.90
	40572	-----	-----	-----	-----	100.70	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 10/11/95

QA/QC for SAMPLE Nos: 40571, 40572.

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Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TURBIDITY EPA180.1 NTU	40572	0.89	0.94	0.050	5.46	-----	-----	-----	-----	-----
CALCIUM, TOTAL 215.1 mg/L	40571	1.41	1.42	0.010	0.71	105.40	-----	-----	-----	-----
IRON, TOTAL 236.2 mg/L	40571	142	146	4.0	2.78	105.00	-----	-----	-----	-----
MAGNESIUM, TOTAL 242.1 mg/L	40571	0.423	0.425	0.0020	0.47	103.00	-----	-----	-----	-----
MANGANESE, TOTAL 243.2 mg/L	40571	0.04	0.04	0	0.00	107.30	-----	-----	-----	-----
MERCURY, TOTAL 245.1 mg/L	40571	0.91	0.82	0.090	10.40	102.10	3413	5.00	4.71	94.20
SODIUM, TOTAL 273.1 mg/L	40571	3.76	3.77	0.010	0.27	-----	-----	-----	-----	-----



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Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
ZINC, TOTAL 289.1 mg/L	40571	0.023	0.023	0	0.00	104.50	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS		ANALYST
		DATE	TIME	
BICARB. ALK	EPA310.1	09/29/95	1400	JK
CA/T/FLAA	215.1	10/02/95	1615	TER
CL-	EPA 325.3	10/03/95	1110	JK
COND	EPA120.1	09/27/95	1630	CSC
COND, FIELD	EPA 120.1	09/27/95	1100	CHR
DO, FIELD	EPA 360.1	09/27/95	1100	CHR
FE/T/AA	236.2	10/02/95	1430	TER
FIELD TEMP	EPA 170.1	09/27/95	1100	CHR
H2O LEVEL	FIELD	09/27/95	1100	CHR
HG/T/CVAA	245.1	10/03/95	1510	TER
MG/T/FLAA	242.1	10/02/95	1600	TER
MN/T/AA	243.2	10/02/95	1500	TER
NA/T/FLAA	273.1	10/03/95	1035	TER
NC MF	909A	09/28/95	1300	MR
NH3	SM4500NH3E	09/28/95	1600	TER
NH3-UNION	EPA 350.1	10/06/95	1415	CEM
NO2+N03	EPA 353.2	09/28/95	1500	IF
NO2+N03	EPA 353.2	10/02/95	1400	IF
PH	EPA150.1	09/26/95	1630	CSC
PH, FIELD	EPA 150.0	09/27/95	1100	CHR
SO4	EPA375.4	10/03/95	1300	JK
TC MF	909A	09/28/95	1300	MR
TDS	EPA160.1	10/03/95	1500	JK
TN	CALC.	10/06/95	1415	CEM
TOC	EPA 415.1	09/28/95	1400	IF
TON	CALC-351.3	09/28/95	1600	TER
TURB	EPA180.1	09/27/95	1630	JS
ZN/T/FLAA	289.1	10/02/95	1450	TER



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RES GWM QIII 95
DATE: 10/11/95
DHRS # 54237, E44123

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LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
40503	09/26/95	1510	CHRIS CHILDRESS	09/26/95	1600 WA
40504	09/26/95	1300	CHRIS CHILDRESS	09/26/95	1600 WA
40505	09/26/95	1400	CHRIS CHILDRESS	09/26/95	1600 WA
40506	09/26/95	1135	CHRIS CHILDRESS	09/26/95	1600 WA

CLIENT STATION ID:	RES REC 4MW1	RES REC 4MW2	RES REC 4MW5	RES REC 4MW6
LAB #:	40503	40504	40505	40506

H2O LEVEL	FEET	34.54	33.91	28.96	31.58
PH, FIELD	STD. UNITS	7.09	7.76	7.68	7.72
FIELD TEMP	DEGREES C	28.3	27.0	26.4	26.6
COND, FIELD	umhos/cm	1202	154	267	125
DO, FIELD	mg/L	1.3	1.2	1.9	3.4
BICARB. ALK	mg/l	120	75	93	56
TOC	mg/L	5.83	3.39	3.60	2.45
CL-	mg/L	328	4.28	34.1	4.47
TC MF	MF/100 ml	<1	3	<1	<1
NC MF	MF/100 ml	3	136	1	40
NH3	mg/L	<0.07	<0.07	<0.07	<0.07
NH3-UNION	mg/L	<0.02	<0.02	<0.02	<0.02
TON	mg/L	0.28	<0.07	0.18	0.08
NO2+N03	mg/l	0.69	0.27	<0.15	<0.15
TN	MG/L	0.97	0.27	0.18	0.08
PH	std units	7.15	7.65	7.80	7.91
TDS	mg/L	1020	108	199	103
COND	umhos	1043	123	212	105
SO4	mg/L	47.6	2.62	5.39	2.13

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RES GWM QIII 95
DATE: 10/11/95
DHRS # 54237, E44123

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LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
40503	09/26/95	1510	CHRIS CHILDRESS	09/26/95	1600 WA
40504	09/26/95	1300	CHRIS CHILDRESS	09/26/95	1600 WA
40505	09/26/95	1400	CHRIS CHILDRESS	09/26/95	1600 WA
40506	09/26/95	1135	CHRIS CHILDRESS	09/26/95	1600 WA

CLIENT STATION ID:	RES REC 4MW1	RES REC 4MW2	RES REC 4MW5	RES REC 4MW6
LAB #:	40503	40504	40505	40506

TURB	NTU	0.051	0.162	0.245	0.07
CA/T/FLAA	mg/L	179	30.8	52.3	24.5
FE/T/AA	mg/L	0.03	0.04	0.04	0.04
MG/T/FLAA	mg/L	4.03	0.72	1.02	0.55
MN/T/AA	mg/L	<0.01	<0.01	<0.01	<0.01
HG/T/CVAA	mg/L	0.0006	0.0009	0.0007	0.0008
NA/T/FLAA	mg/L	65.1	2.78	4.44	3.05
ZN/T/FLAA	mg/L	0.02	0.02	0.05	0.02

LABORATORY DIRECTOR



Page 1

EPA 350.1
mg/L



QA/QC for SAMPLE Nos: 40503, 40504, 40505, 40506.

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		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate	Replicate	Range	RPD %	% Spike Recovery	Reference	Target	Found	% Recovery
		A	B				Sample ID			

TOTAL ORGANIC N
CALC-351.3
mg/L

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

NITRATE/NITRITE
EPA 353.2
mg/l

40504	0.275	0.265	0.010	3.70	-----	N03 STD	4.000	4.089	102.22
40506	-----	-----	-----	-----	105.34	-----	-----	-----	-----

TOTAL NITROGEN
CALC.
MG/L

NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

PH, LAB
EPA150.1
std units

40506	7.91	7.92	0.010	0.13	-----	-----	-----	-----	-----
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TOTAL DISS.SOLIDS
EPA160.1
mg/L

40572	230	233	3.0	1.30	-----	STD	293	291	99.30
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SPEC. CONDUCTIVITY
EPA120.1
umhos

40506	105	108	3.0	2.82	-----	-----	-----	-----	-----
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SULFATE
EPA375.4
mg/L

40512	149	148	1.0	0.67	-----	STD	20.00	20.78	103.90
40572	-----	-----	-----	-----	100.70	STD	20.00	20.65	103.20



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 10/11/95

QA/QC for SAMPLE Nos: 40503, 40504, 40505, 40506.

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Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TURBIDITY EPA180.1 NTU	40506	0.07	0.092	0.022	27.16	-----	-----	-----	-----	-----
CALCIUM, TOTAL 215.1 mg/L	40571	1.41	1.42	0.010	0.71	105.40	-----	-----	-----	-----
IRON, TOTAL 236.2 mg/L	40571	142	146	4.0	2.78	105.00	-----	-----	-----	-----
MAGNESIUM, TOTAL 242.1 mg/L	40571	0.423	0.425	0.0020	0.47	103.00	-----	-----	-----	-----
MANGANESE, TOTAL 243.2 mg/L	40571	0.04	0.04	0	0.00	107.30	-----	-----	-----	-----
MERCURY, TOTAL 245.1 mg/L	40571	0.91	0.82	0.090	10.40	102.10	3413	5.00	4.71	94.20
SODIUM, TOTAL 273.1 mg/L	40571	3.76	3.77	0.010	0.27	-----	-----	-----	-----	-----



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Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
ZINC.TOTAL 289.1 mg/L	40571	0.023	0.023	0	0.00	104.50	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS DATE	TIME	ANALYST
BICARB. ALK	EPA310.1	09/29/95	1400	JK
CA/T/FLAA	215.1	10/02/95	1615	TER
CL-	EPA 325.3	10/03/95	1110	JK
COND	EPA120.1	09/26/95	1630	CSC
COND, FIELD	EPA 120.1	09/26/95	1135	CHR
DO, FIELD	EPA 360.1	09/26/95	1135	CHR
FE/T/AA	236.2	10/02/95	1430	TER
FIELD TEMP	EPA 170.1	09/26/95	1135	CHR
H2O LEVEL	FIELD	09/26/95	1135	CHR
HG/T/CVAA	245.1	10/03/95	1510	TER
MG/T/FLAA	242.1	10/02/95	1600	TER
MN/T/AA	243.2	10/02/95	1500	TER
NA/T/FLAA	273.1	10/03/95	1035	TER
NC MF	909A	09/27/95	1230	MR
NH3	SM4500NH3E	09/28/95	1600	TER
NH3-UNION	EPA 350.1	10/06/95	1415	CEM
NO2+N03	EPA 353.2	09/27/95	1500	IF
PH	EPA150.1	09/26/95	1630	CSC
PH, FIELD	EPA 150.0	09/26/95	1135	CHR
SO4	EPA375.4	09/27/95	1300	JK
TC MF	909A	09/27/95	1230	MR
TDS	EPA160.1	10/03/95	1500	JK
TN	CALC.	10/06/95	1415	CEM
TOC	EPA 415.1	09/28/95	1400	IF
TON	CALC-351.3	09/28/95	1600	TER
TURB	EPA180.1	09/26/95	1630	JS
ZN/T/FLAA	289.1	10/02/95	1450	TER



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RR GWM RESAMPLE
DATE: 10/19/95
DHRS # 54237, E44123

(Page 1 of 1)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
40754	10/04/95	1320	CHRIS CHILDRESS	10/04/95	1550 WW
40755	10/04/95	1255	CHRIS CHILDRESS	10/04/95	1550 WW

CLIENT STATION ID: RES 4MW1 RESAMP LE RES 4MW2 RESAMP LE
LAB #: 40754 40755

WATER LEVEL	FEET	34.74	33.91
FIELD PH	STD. UNITS	6.84	7.10
FIELD TEMPERATURE	DEGREES C	26.0	27.8
FIELD CONDUCTIVITY	umhos/cm	1109	1200
DISSOLVED OXYGEN, FIELD	mg/L	1.2	1.3
CHLORIDE	mg/L	252	N.R.
TOTAL COLIFORM MF	MF/100 ml	N.R.	3
NON-COLIFORM MF	MF/100 ml	N.R.	TNTC
FECAL COLIFORM MF	MF/100 ml	N.R.	<1
TOTAL DISS.SOLIDS	mg/L	948	N.R.
SODIUM, TOTAL	mg/L	58.3	N.R.

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: Q-III RESAMPLE
DATE: 10/19/95
DHRS # 54237, E44123

SAMPLE NUMBER- 41039 SAMPLE ID- RES REC 2MW2 RESAMPLE
DATE SAMPLED- 10/12/95
DATE RECEIVED- 10/12/95 SAMPLER- CHRIS CHILDRESS
TIME RECEIVED- 1600 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW
TIME SAMPLED- 0830
RECEIVED BY- DH
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
WATER LEVEL	FIELD	10/12/95	0830	CHR	34.96 FEET
NITRATE	EPA 353.2	10/16/95	1500	IF	14.6 mg/L

LABORATORY DIRECTOR