GW file

Board of County Commissioners

Department of Public Works

November 15, 1996

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Fl 34460

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

D.E.P.
NOV 25 1996
TAMPA

APRIL 1996
JAN 1996 (REVISED)
JULY 1995 (REVISED)

RE: REVISED REPORTS FOR THE CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER MONITORING - 60 AND 80 ACRE SITES-

Dear Ms. Amram:

Enclosed please find revised reports from Orlando Laboratories, Inc., the County's contracted laboratory, indicating changes in reporting of turbidity, and field filtering.

Please note, report 96-04-260 indicated field turbidity in MW-B at 1.04, (duplicate 1.75), with field filtering of metals and report 96-04-283 which did not indicate the unfiltered field turbidity for MW-AA, but the metals were filtered.

We have also enclosed a copy of a letter to Orlando Labs, reminding them of FDEP guidelines for this procedure.

Should further information or clarification be necessary, please do not hesitate to contact me.

Sincerely,

Susan J. Metcalfe

Susan J. Metcalfe, P.G.
Director, Division of Solid Waste Management

SJM:CJW:cjw

Administrative Office	Facilities Maintenance	Fleet Management	Road Maintenance	Solid Waste Management
Post Office Box 167	Post Office Box 143	Post Office Box 215	Post Office Box 167	Post Office Box 340
Lecanto, Florida 34460	Lecanto, Florida 34460	Lecanto, Florida 34460	Lecanto, Florida 34460	Lecanto, Florida 34460
(352) 746-4107	(352) 527-0333	(352) 746-6888	(352) 746-4107	(352) 746-5000
Fax 746-1203	Fax 527-0654	Fax 746-1203	Fax 746-1203	Fax 527-1204

Board of County Commissioners

Department of Public Works

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Fl 34460

November 15, 1996

Orlando Laboratories, Inc.
P. O. Box 149127
Orlando, Fl 32814

Att: Mr. William Billings, QA Officer

Re: Bid No. 94-87 - Collection and Analysis of Groundwater and Leachate Samples at the Citrus County Central Landfill

Dear Mr. Billings:

We have received the revised reports for Filtered and Unfiltered Turbidity Results for the Landfill's groundwater monitoring program. Thank you for your assistance.

Upon reviewing, we noted that the 96-04-260 report for MW-B indicated a field turbidity of 1.04, the duplicate 1.75 and the 96-04-283 report for MW-AA did not indicate a unfiltered turbidity report, but metals were filtered.

We understand that these cannot be corrected at this time, but wanted to reiterate the FDEP guidelines for filtering as follows:

> If the field turbidity is >5 NTU then field filtering for turbidity, metals and radionuclide samples may be completed is accordance with FDEP's January 1994 technical document Determining Representative Ground Water Samples, Filtered or Unfiltered. Filtering must be conducted in the field prior to sample preservation with an in-line molded and disposable 1.0 micron filter unit.
>
> Groundwater reports must record the unfiltered turbidity for the sample, and state the filter size.

ORLANDO LABS

Miami • Orlando • Atlanta • Raleigh

October 31, 1996

Suzie Metcalf
Citrus County
Dept. of Solid Waste
P.O. Box 340
Lecanto, FL 34460

RE: Filtered and Unfiltered Turbidity Results on Orlando Labs Work Order #'s: 95-07-138, 95-07-175, 96-01-231, 96-04-259, 96-04-260, and 96-04-283

Dear Ms. Metcalf:

I have gone back to review the above reports concerning the filtered and unfiltered turbidity. Data entry errors were found associated with the filtered and unfiltered turbidity results.

The errors were due to unclear or incomplete labeling on the field data sheet. As a result, I have revised the field data sheet to include fields for both measurements, and went over the procedure with the field department.

Enclosed are copies of corrected lab reports for the above work orders as well as a copy of the corrective action that was prompted from the errors found in the reports.

I apologize for any inconvenience this may have caused. Please feel free to contact me at (407) 896-6645 extension 305 if you have any questions.

Sincerely,

William Billings
QA Officer
Orlando Labs

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NOV - 7 1996
CITRUS COUNTY — DPW
SOLID WASTE MANAGEMENT DIV.

P.O. Box 149127 • Orlando, FL 32814 • (407) 896-6645 • Fax (407) 898-6588

ORLANDO LABS

Miami • Orlando • Atlanta • Raleigh

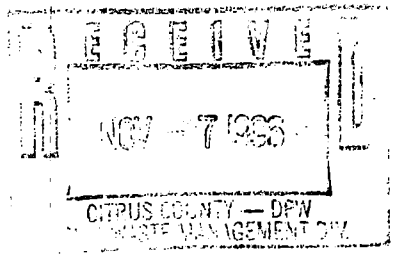
REPORT OF ANALYSIS

Citrus County
Department of Solid Waste
P. O. Box 340
Lecanto, FL 34460-0340
Attn: Cathy Winter

Work Order # : 96-01-231
Date Received: 01/17/96
Report Due by: 01/31/96
OLI Contact: D_STEVENS

Work ID: Task3
Samples collected by: OLI Field Team
Total Samples: 6

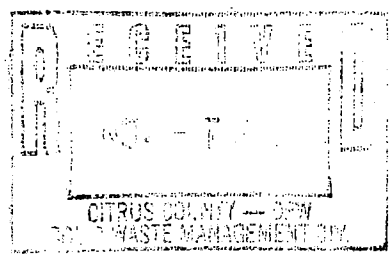
Sample Identification	Description of Analysis	Description of Analysis
01A MW-AA	Field Data for DER Samples	Purgeable Halocarbons
	Purgeable Aromatics	Aluminum
	Arsenic	Bicarbonate
	Cadmium	Chloride
	Color: Field	Chromium
	Iron	Mercury
	Manganese	Sodium
	Nitrogen: Ammonium	Nitrogen: Nitrate
	Lead	Total Dissolved Solids
	Total Organic Carbon	Field Turbidity
01B MW-AA	Field Data for DER Samples	Total Coliform Bact. MF
02A MW-C	Field Data for DER Samples	Purgeable Halocarbons
	Purgeable Aromatics	Aluminum
	Arsenic	Bicarbonate
	Cadmium	Chloride
	Color: Field	Chromium
	Iron	Mercury
	Manganese	Sodium
	Nitrogen: Ammonium	Nitrogen: Nitrate
	Lead	Total Dissolved Solids
	Total Organic Carbon	Field Turbidity
03A MW-D	Field Data for DER Samples	Purgeable Halocarbons
	Purgeable Aromatics	Aluminum
	Arsenic	Bicarbonate
	Cadmium	Chloride
	Color: Field	Chromium
	Iron	Mercury
	Manganese	Sodium
	Nitrogen: Ammonium	Nitrogen: Nitrate
	Lead	Total Dissolved Solids



Citrus County
Work ID: Task3

Work Order # : 96-01-231
C o n t i n u e d

Sample Identification	Description of Analysis	Description of Analysis
03A MW-D	Total Organic Carbon	Field Turbidity
04A MW-E	Field Data for DER Samples Purgeable Aromatics Arsenic Cadmium Color: Field Iron Manganese Nitrogen: Ammonium Lead Total Organic Carbon	Purgeable Halocarbons Aluminum Bicarbonate Chloride Chromium Mercury Sodium Nitrogen: Nitrate Total Dissolved Solids Field Turbidity
05A Equip Blank	Field Data for DER Samples Purgeable Aromatics Arsenic Cadmium Color: Field Iron Manganese Nitrogen: Ammonium Lead Total Organic Carbon	Purgeable Halocarbons Aluminum Bicarbonate Chloride Chromium Mercury Sodium Nitrogen: Nitrate Total Dissolved Solids Field Turbidity
06A Method Blank	Field Data for DER Samples Purgeable Aromatics QC for Microbiology	Purgeable Halocarbons QC for Metals QC for Wet Chemistry



Respectfully Submitted,
ORLANDO LABORATORIES, INC.

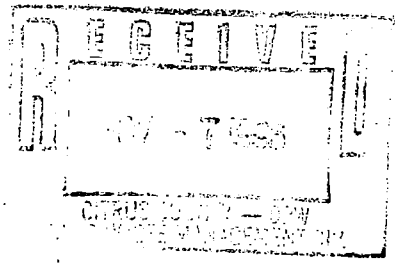
Authorized Laboratory Signature

Orlando Laboratories, Inc.
Work Order 96-01-231

Analytes Whose Results Exceed
Maximum Guidance Contamination Levels

OLI Number	Sample Identification	Test/Analyte Name	Result	MCL	Units
01A	MW-AA	Field Data for DER Samples			
		Field pH	6.05	6.5-8.5	UNITS
		Purgeable Halocarbons			
		Vinyl chloride	3.0	1	UG/L
		Iron	14000	300	UG/L
		Manganese	4000	50	UG/L
		Field Turbidity	5.98	1	NTU
01B	MW-AA	Field Data for DER Samples			
		Field pH	6.05	6.5-8.5	UNITS
02A	MW-C	Iron	590	300	UG/L
		Field Turbidity	3.94	1	NTU
03A	MW-D	Manganese	240	50	UG/L
		Field Turbidity	31.70	1	NTU
04A	MW-E	Field Data for DER Samples			
		Field pH	6.49	6.5-8.5	UNITS
		Purgeable Halocarbons			
		Vinyl chloride	3.0	1	UG/L
		Iron	20000	300	UG/L
		Manganese	1100	50	UG/L
		Field Turbidity	32.40	1	NTU

This summary page indicating compound concentrations above the June, 1994 FDEP Ground Water Guideline Concentrations 'MCL' is an enhancement to your standard reports. While Orlando Laboratories, Inc. has made every effort to ensure its validity, we would like to caution you to please verify its contents. If the summary page fails, please notify your Account Representative immediately.



Order #: 96-01-231-01
Client: Citrus County

Orlando Laboratories, Inc.
Report of Analysis for DER

RECEIVED
CITRUS COUNTY — DPW
SOLID WASTE MANAGEMENT DIV.

Citrus County Landfill

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: 4009A17271
Well Name: MW-AA
Classification of Groundwater: G-II

Ground Water Elevation (NGVD): _____
or (MSL): 6.69

Sampling Date/Time: 01/17/96 15:30:00
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES
Well type:
[ ] Background
[ ] Intermediate
[X] Compliance
[ ] Other

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
00400	Field pH	Grab	N	EPA_150_1	01/17/96	6.05 Units	NA Units
00010	Temperature	Grab	N	EPA_170_1	01/17/96	23.8 ^C	NA ^C
00094	Conductivity	Grab	N	EPA_120_1	01/17/96	220 umhos/cm	1.0 umhos/cm
72020	Water Level	Grab	N	Tape_Measu	01/17/96	99.42 Feet	NA Feet
00299	Dissolved Oxygen	Grab	N	EPA_360_1	01/17/96	2.2 mg/l	0.5 mg/l
82078	Field Filtered Turbidity	Grab	N	EPA_180_1	01/17/96	0.84 NTU	0.50 NTU
34418	Chloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34413	Bromomethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39175	Vinyl chloride	Grab	N	EPA_601	01/19/96	3.0 ug/l	1.0 ug/l
34668	Dichlorodifluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34311	Chloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34423	Methylene chloride	Grab	N	EPA_601	01/19/96	<4.0 ug/l	4.0 ug/l
34501	1,1-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34488	Trichlorofluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34496	1,1-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34546	t-1,2-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32106	Chloroform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34531	1,2-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34506	1,1,1-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32102	Carbon tetrachloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32101	Bromodichloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34541	1,2-Dichloropropane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34699	t-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39180	Trichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32105	Dibromochloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34511	1,1,2-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34704	c-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34576	2-Chloroethylvinylether	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32104	Bromoform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34516	1,1,2,2-Tetrachloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34475	Tetrachloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Citrus County Landfill

PARAMETER MONITORING REPORT

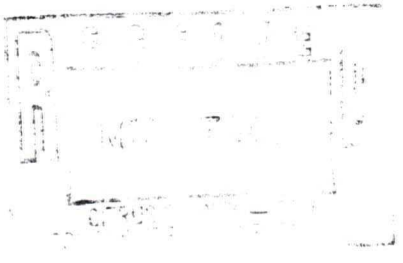
Part III: Analytical Results
Facility GMS #: 4009C00086
Test Site ID #: 4009A17271
Well Name: MW-AA

Sampling Date/Time: 01/17/96
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34536	1,2-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_601	01/19/96	8.0 ug/l	1.0 ug/l
	Cis-1,2-dichloroethylene	Grab	N	EPA_601	01/19/96	4.0 ug/l	1.0 ug/l
78124	Benzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
78131	Toluene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34371	Ethylbenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
81551	Total Xylenes	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_602	01/19/96	8.0 ug/l	1.0 ug/l
22417	MTBE	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
01105	Aluminum	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
01002	Arsenic	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00440	Bicarbonate	Grab	N	EPA_SM2320B	01/19/96	526 mgHCO3/l	2.4 mgHCO3/l
01027	Cadmium	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00940	Chloride	Grab	N	EPA_325_2	01/22/96	5.7 mg/l	1.0 mg/l
NA081	Color, Field	Grab	N	VISUAL	01/17/96 15:30	Clear NA	NA NA
01034	Chromium	Grab	N	EPA_6010	01/22/96	<10 ug/l	10 ug/l
01045	Iron	Grab	N	EPA_6010	01/22/96	14000 ug/l	100 ug/l
71900	Mercury	Grab	N	EPA_245.1	01/21/96	<0.10 ug/l	0.2 ug/l
01055	Manganese	Grab	N	EPA_6010	01/22/96	4000 ug/l	10 ug/l
00929	Sodium	Grab	N	EPA_6010	01/22/96	7.2 mg/l	1.0 mg/l
83341	Nitrogen: Ammonium	Grab	N	EPA_DER_SOP	01/24/96	0.31 mg/l	0.01 mg/l
00620	Nitrogen: Nitrate	Grab	N	EPA_353_2	01/22/96	<0.02 mg/l	0.02 mg/l
01051	Lead	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
70300	Total Dissolved Solids	Grab	N	EPA_160_1	01/19/96	384 mg/l	10 mg/l
00680	Total Organic Carbon	Grab	N	EPA_SM5310C	01/24/96	60 mg/l	1.0 mg/l
82078	Field Turbidity	Grab	N	EPA_180_1	01/17/96	5.98 NTU	0.02 NTU

T. Coli: Setup Date/Time: 01/17/96 18:15:00 Read Date/Time: 01/18/96 16:40:00

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994



Citrus County Landfill

PARAMETER MONITORING REPORT

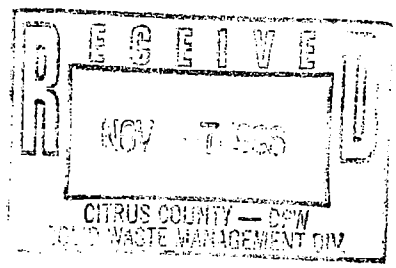
Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: 4009A17271
Well Name: MW-AA

Sampling Date/Time: 01/17/96
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
31501	Total Coliform	Grab	N	EPA_SM9222B	01/17/96 18:15	65 cfu/100ml	1 cfu/100m

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994



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CITRUS COUNTY — DPW
SOLID WASTE MANAGEMENT DIV.

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: 4009A13196
Well Name: MW-C
Classification of Groundwater: G-II

Ground Water Elevation (NGVD):
or (MSL): 6.88

Sampling Date/Time: 01/17/96 15:15:00
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES
Well type:
[ ] Background
[ ] Intermediate
[X] Compliance
[ ] Other

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
00400	Field pH	Grab	N	EPA_150_1	01/17/96	7.40 Units	NA Units
00010	Temperature	Grab	N	EPA_170_1	01/17/96	22.7 ^C	NA ^C
00094	Conductivity	Grab	N	EPA_120_1	01/17/96	110 umhos/cm	1.0 umhos/cm
72020	Water Level	Grab	N	Tape_Measu	01/17/96	108.30 Feet	NA Feet
00299	Dissolved Oxygen	Grab	N	EPA_360_1	01/17/96	4.1 mg/l	0.5 mg/l
34418	Chloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34413	Bromomethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39175	Vinyl chloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34668	Dichlorodifluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34311	Chloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34423	Methylene chloride	Grab	N	EPA_601	01/19/96	<4.0 ug/l	4.0 ug/l
34501	1,1-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34488	Trichlorofluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34496	1,1-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34546	t-1,2-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32106	Chloroform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34531	1,2-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34506	1,1,1-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32102	Carbon tetrachloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32101	Bromodichloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34541	1,2-Dichloropropane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34699	t-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39180	Trichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32105	Dibromochloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34511	1,1,2-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34704	c-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34576	2-Chloroethylvinylether	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32104	Bromoform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34516	1,1,2,2-Tetrachloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34475	Tetrachloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Citrus County Landfill

PARAMETER MONITORING REPORT

Part III: Analytical Results
Facility GMS #: 4009C00086
Test Site ID #: 4009A13196
Well Name: MW-C

Sampling Date/Time: 01/17/96
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34566	1,3-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
78124	Benzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
78131	Toluene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34371	Ethylbenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
81551	Total Xylenes	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
22417	MTBE	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
01105	Aluminum	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
01002	Arsenic	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00440	Bicarbonate	Grab	N	EPA_SM2320B	01/19/96	115 mgHCO3/l	2.4 mgHCO3/l
01027	Cadmium	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00940	Chloride	Grab	N	EPA_325_2	01/22/96	4.6 mg/l	1.0 mg/l
NA081	Color, Field	Grab	N	VISUAL	01/17/96 15:15	Clear NA	NA NA
01034	Chromium	Grab	N	EPA_6010	01/22/96	<10 ug/l	10 ug/l
01045	Iron	Grab	N	EPA_6010	01/22/96	590 ug/l	100 ug/l
71900	Mercury	Grab	N	EPA_245.1	01/21/96	<0.10 ug/l	0.2 ug/l
01055	Manganese	Grab	N	EPA_6010	01/22/96	<30 ug/l	10 ug/l
00929	Sodium	Grab	N	EPA_6010	01/22/96	2.7 mg/l	1.0 mg/l
83341	Nitrogen: Ammonium	Grab	N	EPA_DER_SOP	01/24/96	<0.01 mg/l	0.01 mg/l
00620	Nitrogen: Nitrate	Grab	N	EPA_353_2	01/22/96	0.03 mg/l	0.02 mg/l
01051	Lead	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
70300	Total Dissolved Solids	Grab	N	EPA_160_1	01/19/96	124 mg/l	10 mg/l
00680	Total Organic Carbon	Grab	N	EPA_SM5310C	01/24/96	1.0 mg/l	1.0 mg/l
82078	Field Turbidity	Grab	N	EPA_180_1	01/17/96	3.94 NTU	0.02 NTU

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994



Citrus County Landfill

PARAMETER MONITORING REPORT

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Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: 4009A11578
Well Name: MW-D
Classification of Groundwater: G-II

Ground Water Elevation (NGVD): _____
or (MSL): 6.77

Sampling Date/Time: 01/17/96 14:45:00
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES
Well type:
[ ] Background
[ ] Intermediate
[X] Compliance
[X] Other

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
00400	Field pH	Grab	N	EPA_150_1	01/17/96	7.34 Units	NA Units
00010	Temperature	Grab	N	EPA_170_1	01/17/96	3.4 ^C	NA ^C
00094	Conductivity	Grab	N	EPA_120_1	01/17/96	95 umhos/cm	1.0 umhos/cm
72020	Water Level	Grab	N	Tape_Measu	01/17/96	103.0 Feet	NA Feet
00299	Dissolved Oxygen	Grab	N	EPA_360_1	01/17/96	3.4 mg/l	0.5 mg/l
82078	Field Filtered Turbidity	Grab	N	EPA_180_1	01/17/96	0.20 NTU	0.50 NTU
34418	Chloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34413	Bromomethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39175	Vinyl chloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34668	Dichlorodifluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34311	Chloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34423	Methylene chloride	Grab	N	EPA_601	01/19/96	<4.0 ug/l	4.0 ug/l
34501	1,1-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34488	Trichlorofluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34496	1,1-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34546	t-1,2-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32106	Chloroform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34531	1,2-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34506	1,1,1-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32102	Carbon tetrachloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32101	Bromodichloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34541	1,2-Dichloropropane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34699	t-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39180	Trichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32105	Dibromochloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34511	1,1,2-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34704	c-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34576	2-Chloroethylvinylether	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32104	Bromoform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34516	1,1,2,2-Tetrachloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34475	Tetrachloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.

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PARAMETER MONITORING REPORT

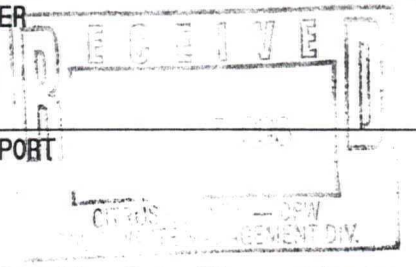
Part III: Analytical Results
Facility GMS #: 4009C00086
Test Site ID #: 4009A11578
Well Name: MW-D

Sampling Date/Time: 01/17/96
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34536	1,2-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
78124	Benzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
78131	Toluene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34371	Ethylbenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
81551	Total Xylenes	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
22417	MTBE	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
01105	Aluminum	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
01002	Arsenic	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00440	Bicarbonate	Grab	N	EPA_SM2320B	01/19/96	151 mgHCO3/l	2.4 mgHCO3/l
01027	Cadmium	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00940	Chloride	Grab	N	EPA_325_2	01/22/96	5.5 mg/l	1.0 mg/l
NA081	Color, Field	Grab	N	VISUAL	01/17/96 14:45	Clear NA	NA NA
01034	Chromium	Grab	N	EPA_6010	01/22/96	<10 ug/l	10 ug/l
01045	Iron	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
71900	Mercury	Grab	N	EPA_245.1	01/21/96	<0.10 ug/l	0.2 ug/l
01055	Manganese	Grab	N	EPA_6010	01/22/96	240 ug/l	10 ug/l
00929	Sodium	Grab	N	EPA_6010	01/22/96	3.0 mg/l	1.0 mg/l
83341	Nitrogen: Ammonium	Grab	N	EPA_DER_SOP	01/24/96	<0.01 mg/l	0.01 mg/l
00620	Nitrogen: Nitrate	Grab	N	EPA_353_2	01/22/96	0.02 mg/l	0.02 mg/l
01051	Lead	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
70300	Total Dissolved Solids	Grab	N	EPA_160_1	01/19/96	150 mg/l	10 mg/l
00680	Total Organic Carbon	Grab	N	EPA_SM5310C	01/24/96	2.6 mg/l	1.0 mg/l
82078	Field Turbidity	Grab	N	EPA_180_1	01/17/96	31.70 NTU	0.02 NTU

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Citrus County Landfill



PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: MW-E
Classification of Groundwater: G-II

Ground Water Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 01/17/96 16:00:00
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES
Well type:
[ ] Background
[ ] Intermediate
[ ] Compliance
[ ] Other

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
00400	Field pH	Grab	N	EPA_150_1	01/17/96	6.49 Units	NA Units
00010	Temperature	Grab	N	EPA_170_1	01/17/96	23.7 ^C	NA ^C
00094	Conductivity	Grab	N	EPA_120_1	01/17/96	220 umhos/cm	1.0 umhos/cm
72020	Water Level	Grab	N	Tape_Measu	01/17/96	102.80 Feet	NA Feet
00299	Dissolved Oxygen	Grab	N	EPA_360_1	01/17/96	2.9 mg/l	0.5 mg/l
82078	Field Filtered Turbidity	Grab	N	EPA_180_1	01/17/96	0.27 NTU	0.50 NTU
34418	Chloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34413	Bromomethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39175	Vinyl chloride	Grab	N	EPA_601	01/19/96	3.0 ug/l	1.0 ug/l
34668	Dichlorodifluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34311	Chloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34423	Methylene chloride	Grab	N	EPA_601	01/19/96	<4.0 ug/l	4.0 ug/l
34501	1,1-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34488	Trichlorofluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34496	1,1-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34546	t-1,2-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32106	Chloroform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34531	1,2-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34506	1,1,1-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32102	Carbon tetrachloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32101	Bromodichloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34541	1,2-Dichloropropane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34699	t-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39180	Trichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32105	Dibromochloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34511	1,1,2-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34704	c-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34576	2-Chloroethylvinylether	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32104	Bromoform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34516	1,1,2,2-Tetrachloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34475	Tetrachloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.

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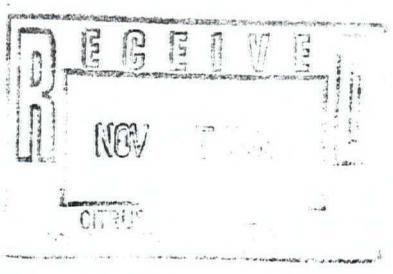
PARAMETER MONITORING REPORT

Part III: Analytical Results
Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: MW-E

Sampling Date/Time: 01/17/96
Report Period: 1996/1st Quarter
Well Purged (Y/N) YES

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34536	1,2-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_601	01/19/96	8.0 ug/l	1.0 ug/l
78124	Benzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
78131	Toluene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34371	Ethylbenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
81551	Total Xylenes	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_602	01/19/96	8.0 ug/l	1.0 ug/l
22417	MTBE	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
01105	Aluminum	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
01002	Arsenic	Grab	N	EPA_6010	01/22/96	21 ug/l	5.0 ug/l
00440	Bicarbonate	Grab	N	EPA_SM2320B	01/19/96	1090 mgHC03/l	2.4 mgHC03/l
01027	Cadmium	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00940	Chloride	Grab	N	EPA_325_2	01/22/96	7.2 mg/l	1.0 mg/l
NA081	Color, Field	Grab	N	VISUAL	01/17/96 16:00	Tan NA	NA NA
01034	Chromium	Grab	N	EPA_6010	01/22/96	<10 ug/l	10 ug/l
01045	Iron	Grab	N	EPA_6010	01/22/96	20000 ug/l	100 ug/l
71900	Mercury	Grab	N	EPA_245.1	01/21/96	<0.10 ug/l	0.2 ug/l
01055	Manganese	Grab	N	EPA_6010	01/22/96	1100 ug/l	10 ug/l
00929	Sodium	Grab	N	EPA_6010	01/22/96	3.5 mg/l	1.0 mg/l
83341	Nitrogen: Ammonium	Grab	N	EPA_DER_SOP	01/24/96	<0.01 mg/l	0.01 mg/l
00620	Nitrogen: Nitrate	Grab	N	EPA_353_2	01/22/96	0.09 mg/l	0.02 mg/l
01051	Lead	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
70300	Total Dissolved Solids	Grab	N	EPA_160_1	01/19/96	454 mg/l	10 mg/l
00680	Total Organic Carbon	Grab	N	EPA_SM5310C	01/26/96	2.2 mg/l	1.0 mg/l
82078	Field Turbidity	Grab	N	EPA_180_1	01/17/96	32.40 NTU	0.02 NTU

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994



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PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: _____
Test Site ID #: NA
Well Name: EQUIPMENT BLANK
Classification of Groundwater: NA

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

Sampling Date/Time: 01/17/96 14:25:00
Report Period: 1996/1st Quarter
Well Purged (Y/N) NA
Well type: [ ] Background
[ ] Intermediate
[ ] Compliance
[ ] Other

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
00400	Field pH	Grab	N	EPA_150_1	01/17/96	8.36 Units	NA Units
00010	Temperature	Grab	N	EPA_170_1	01/17/96	23.0 ^C	NA ^C
00094	Conductivity	Grab	N	EPA_120_1	01/17/96	<5.0 umhos/cm	1.0 umhos/cm
00299	Dissolved Oxygen	Grab	N	EPA_360_1	01/17/96	7.1 mg/l	0.5 mg/l
34418	Chloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34413	Bromomethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39175	Vinyl chloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34668	Dichlorodifluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34311	Chloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34423	Methylene chloride	Grab	N	EPA_601	01/19/96	<4.0 ug/l	4.0 ug/l
34501	1,1-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34488	Trichlorofluoromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34496	1,1-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34546	t-1,2-Dichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32106	Chloroform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34531	1,2-Dichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34506	1,1,1-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32102	Carbon tetrachloride	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32101	Bromodichloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34541	1,2-Dichloropropane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34699	t-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39180	Trichloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32105	Dibromochloromethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34511	1,1,2-Trichloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34704	c-1,3-Dichloropropene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34576	2-Chloroethylvinylether	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32104	Bromoform	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34516	1,1,2,2-Tetrachloroethane	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34475	Tetrachloroethene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Citrus County Landfill

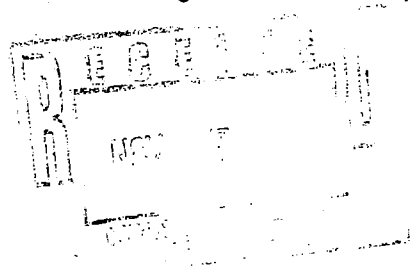
PARAMETER MONITORING REPORT

Part III: Analytical Results
Facility GMS #:
Test Site ID #: NA
Well Name: EQUIPMENT BLANK

Sampling Date/Time: 01/17/96
Report Period: 1996/1st Quarter
Well Purged (Y/N) NA

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34571	1,4-Dichlorobenzene	Grab	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
78124	Benzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
78131	Toluene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34371	Ethylbenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
81551	Total Xylenes	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
22417	MTBE	Grab	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
01105	Aluminum	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
01002	Arsenic	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00440	Bicarbonate	Grab	N	EPA_SM2320B	01/19/96	<2.4 mgHCO3/l	2.4 mgHCO3/l
01027	Cadmium	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
00940	Chloride	Grab	N	EPA_325_2	01/22/96	<1.0 mg/l	1.0 mg/l
NA081	Color, Field	Grab	N	VISUAL	01/17/96 14:25	Clear NA	NA NA
01034	Chromium	Grab	N	EPA_6010	01/22/96	<10 ug/l	10 ug/l
01045	Iron	Grab	N	EPA_6010	01/22/96	<100 ug/l	100 ug/l
71900	Mercury	Grab	N	EPA_245.1	01/21/96	<0.10 ug/l	0.2 ug/l
01055	Manganese	Grab	N	EPA_6010	01/22/96	<30 ug/l	10 ug/l
00929	Sodium	Grab	N	EPA_6010	01/22/96	<1.0 mg/l	1.0 mg/l
83341	Nitrogen: Ammonium	Grab	N	EPA_DER_SOP	01/24/96	<0.01 mg/l	0.01 mg/l
00620	Nitrogen: Nitrate	Grab	N	EPA_353_2	01/22/96	<0.02 mg/l	0.02 mg/l
01051	Lead	Grab	N	EPA_6010	01/22/96	<5.0 ug/l	5.0 ug/l
70300	Total Dissolved Solids	Grab	N	EPA_160_1	01/19/96	<10 mg/l	10 mg/l
00680	Total Organic Carbon	Grab	N	EPA_SM5310C	01/26/96	<1.0 mg/l	1.0 mg/l
82078	Field Turbidity	Grab	N	EPA_180_1	01/17/96	0.06 NTU	0.02 NTU

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994



Citrus County Landfill

RECEIVED
NOV 1996
CITRUS COUNTY — DPW
SOLID WASTE MANAGEMENT DIV.

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: METHOD BLANK
Classification of Groundwater: NA

Ground Water Elevation (NGVD): ____
or (MSL): NA

Sampling Date/Time: ____
Report Period: 1996/1st Quarter
Well Purged (Y/N) NA
Well type:
[ ] Background
[ ] Intermediate
[ ] Compliance
[ ] Other

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34418	Chloromethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34413	Bromomethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39175	Vinyl chloride	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34668	Dichlorodifluoromethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34311	Chloroethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34423	Methylene chloride	NA	N	EPA_601	01/19/96	<4.0 ug/l	4.0 ug/l
34501	1,1-Dichloroethene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34488	Trichlorofluoromethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34496	1,1-Dichloroethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34546	t-1,2-Dichloroethene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32106	Chloroform	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34531	1,2-Dichloroethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34506	1,1,1-Trichloroethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32102	Carbon tetrachloride	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32101	Bromodichloromethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34541	1,2-Dichloropropane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34699	t-1,3-Dichloropropene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
39180	Trichloroethene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32105	Dibromochloromethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34511	1,1,2-Trichloroethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34704	c-1,3-Dichloropropene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34576	2-Chloroethylvinylether	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
32104	Bromoform	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34301	Chlorobenzene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34516	1,1,2,2-Tetrachloroethane	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34475	Tetrachloroethene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
	Cis-1,2-dichloroethylene	NA	N	EPA_601	01/19/96	<1.0 ug/l	1.0 ug/l
78124	Benzene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
78131	Toluene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Citrus County Landfill

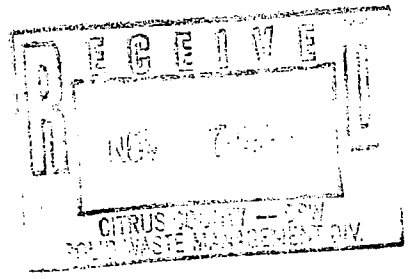
PARAMETER MONITORING REPORT

Part III: Analytical Results
Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: METHOD BLANK

Sampling Date/Time:
Report Period: 1996/1st Quarter
Well Purged (Y/N) NA

STORET Code	Parameter Monitored	Samp Meth	Fld Filt Y/N	Analysis Method	Analysis Date/Time	Analysis Results/Units	Detection Limits/Units
34301	Chlorobenzene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34371	Ethylbenzene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
81551	Total Xylenes	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34536	1,2-Dichlorobenzene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34566	1,3-Dichlorobenzene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
34571	1,4-Dichlorobenzene	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l
22417	MTBE	NA	N	EPA_602	01/19/96	<1.0 ug/l	1.0 ug/l

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994



Citrus County
Attn: Cathy Winter
Work ID: Task3

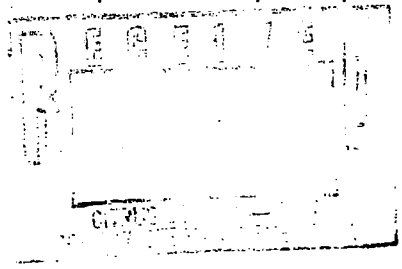
Report Number: 96-01-231

Quality Control Data Sheets

Parameter	OLI Sample #	Amt Spike	Sample Result	MS Result	MS %Rec	MSD or Duplicate Result	MSD %Rec	RPD	Analysis Date	Analyst	* QC Limits * Min/Max		RPD
Mercury	9601231-01	1.00	<0.2	0.81	81	0.78	78	4	01/21/96	DH	67	128	12
Aluminum	9601225-03	2000	17.5	2056	102	2078	103	1	01/22/96	DM	64	155	18
Arsenic	9601225-03	500	<5.0	494.7	99	505.8	101	2	01/22/96	DM	86	115	14
Cadmium	9601225-03	50	<5.0	50.6	101	51.8	104	2	01/22/96	DM	83	116	10
Chromium	9601225-03	200	1.9	200.7	99	205.6	102	2	01/22/96	DM	83	115	11
Iron	9601225-03	1000	2239	3448	121	3580	134	4	01/22/96	DM	79	121	13
Manganese	9601225-03	500	23.5	532.6	102	544.7	104	2	01/22/96	DM	85	119	9
Sodium	9601225-03	10000	1246	11030	98	11240	100	2	01/22/96	DM	75	145	10
Lead	9601225-03	500	<5.0	504.3	101	518.5	104	3	01/22/96	DM	81	119	11
Total Coliform*	9601231-01		40		NA	60	NA	40	01/17/96	SP			28
Total Coliform*	9601231-01		40		NA	60	NA	40	01/17/96	SP			28
Nitrite	9601224-03	1.0	<0.02	1.09	109	1.09	109	0	01/18/96	SS	61	136	4
Alkalinity	9601231-02	50	94	142	96	146	104	3	01/19/96	LC	77	106	7
Total Dissolve*	9601231-01		384		NA	384	NA	0	01/19/96	GP			14
Nitrate/Nitrite	9601224-03	1.0	<0.02	0.79	79	0.80	80	1	01/19/96	SS	53	127	7
Chloride	9601278-01	50	<1.0	48	96	48	96	0	01/22/96	SS	89	115	4
Ammonia Nitroge	9601249-02	1.0	0.13	0.80	67	0.81	68	1	01/24/96	ORV	42	119	11
Total Organic C	9601222-01	50	<1.0	50	100	50	100	0	01/24/96	LC	89	113	4
Total Organic C	9601231-04	50	2.2	52	100	52	100	0	01/26/96	LC	89	113	4

Parameter	Sample #	Case Narrative for 96-01-231
Iron	QC	Digestion spike recovery out of QC limits due to chemical interferences present during digestion. Procedural spike recovery was 104%.
Total Coliform*	QC	High relative percent difference (RPD) is due to low analyte concentration.
Total Coliform*	01	Total coliform was confirmed positive.

* Relative Percent Difference (RPD) was calculated from results of sample and sample duplicate.



ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : Water
REPORT DATE: 1-22-1996
EPA METHOD : 601/8010

LAB SAMPLE #: 9601243-01
ANALYSIS DATE: 01/19/96

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD % RECOVERY	RPD
1,1-Dichloroethane	50	0	56.0	112	57.0	114	2
1,1,1-Trichloroethane	50	0	54.0	108	57.0	114	5
1,1,2,2-Tetrachloroethane	50	0	59.0	118	59.0	118	0

MATRIX SPIKE QUALITY CONTROL LIMITS

COMPOUND	WATER LOWER	WATER UPPER	WATER RPD	SOIL LOWER	SOIL UPPER	SOIL RPD
1,1-Dichloroethane	68	135	29	NA	NA	NA
1,1,1-Trichloroethane	74	130	21	NA	NA	NA
1,1,2,2-Tetrachloroethane	65	134	34	NA	NA	NA

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : Water
REPORT DATE: 1-22-1996
EPA METHOD : 602/8020

LAB SAMPLE #: 9601243/01
ANALYSIS DATE: 01/19/96

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD % RECOVERY	RPD
toluene	50	0	53.0	106	53.0	106	0
chlorobenzene	100	0	104	104	100	100	4
ethylbenzene	50	0	50.0	100	49.0	98	2

MATRIX SPIKE QUALITY CONTROL LIMITS

COMPOUND	WATER LOWER	WATER UPPER	WATER RPD	SOIL LOWER	SOIL UPPER	SOIL RPD
toluene	87	109	18	NA	NA	NA
chlorobenzene	84	121	16	NA	NA	NA
ethylbenzene	83	117	19	NA	NA	NA

Orlando Laboratories, Inc.
P.O. Box 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page 1 of 1

904-256-3000

① INVOICE TO: (Company and Individual) / ADDRESS (City, State, Zip)	② CONTACT PERSON/PHONE # INVOICE	③ RB NUMBER	④ OLI WORK ORDER #
Citrus County Dept of Solid Waste P.O. Box 340 Lecanto, FL 34460-0340	Cathy Winters	A9595	
⑤ ORIGINAL REPORT TO: (Company and Individual) / ADDRESS (City, State, Zip)	⑥ CONTACT PERSON/PHONE # REPORT		
Same As Above	Same	9601231	
⑦ (OPTIONAL) ADDITIONAL REPORTS SENT TO: / ADDRESS (City, State, Zip)			
None			
⑧ CLIENT PROJECT NAME	⑨ CLIENT PROJECT #		
Task #3			

	⑩ SAMPLE IDENTIFICATION	⑪ DATE/TIME	⑫ COMP	GRAB	WATER	SOIL	OTHER	⑬ SAMPLE DESCRIPTION	⑰ NUMBER OF CONTAINERS	⑱ REQUESTED ANALYSIS: Task 3	F. Filtered	TOTCOL	FECOL	⑲ REMARKS
1	MW-AA	1.17.96 1530		X	X				6	X	X	X	X	
2	MW-C	1.17.96 1515		X	X				5	X				
3	MW-D	1.17.96 1445		X	X				5	X	X			
4	MW-E	1.17.96 1600		X	X				5	X	X			
5	Equip. Blk.	1.17.96 1425		X	X				5	X	X			

TRANSFER NUMBER	⑭ RELINQUISHED BY	⑮ DATE/TIME	⑯ ACCEPTED BY
1st		1/16/96 0815	
2nd		1/17/96 1815	Cooler A
3rd	Cooler A	1-18-96 8:00	

⑳ ADDITIONAL REMARKS: OLI

㉑ COOLER #: 1 of 5

㉒ SAMPLER'S SIGNATURE

FILE

Orlando Laboratories. Inc. Field Sheet

Revised: December 2

Client: CITRUS County - CENTRAL L.F.

Project Name / Number: TASK - 3 PWSID#

Site Location: LECANTO, FL

Sample ID:	Sampling Date & Time:	Number of Bottles:
MW - 11A	1.17.96 1530	6 3 3

Sample Type:	Sample Matrix:	Sampling Method:	Well Evacuation Method:
GRB.	G.W.	BAT.	SUB

Well Specifications			Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height
Diameter	2	in.	Well Casing Composition:
Water Level	99.42	ft.	GPF(x) =CR Gallons
Total Depth	107.0	ft.	X 1.63 = 3.70
Column Height	7.58	ft.	~~X .653 =~~ 1.23
Column Volume	1.23	gal.	3X = 3.70
Min Evac.	3.70	gal.	5X = 6.15
Actual ≈	9.0	gal.	Well Purged: Dry, or 3x and field tests within 5%, or (6x)

In Place Plumbing Data		
Plumbing Material	SS/PF	
Purge Flow Rate	≈ 2.25	Gal/m
Purge Time	≈ 4.0	m
Sample Flow Rate	6.0-8.0	ml/m

NGVD. MSL/TOC	(-) WL/TOC	(=) WATER LEVEL/ MSL.NGVD

Well Purging Data

Gallons/Time					
Temperature	N			N	
Conductivity	A			A	
pH					
Begin time	1026	End time	1030		

Purging Comments:

Field Parameters

Tests	1st	2nd
Temp.	23.8	N/A
Cond.	220	
pH	6.05	
D.O.	2.2	

Additional Test Results:

Sampling Information

	Depth		
Surface Water	N/A	Drums:	
Soil/Sediments	N/A	Type	N/A
		Contents	
		Layer Sampled	
Wastewater:			
Type of Composite		Drilling/boring method	
Begin time		Drilling mud used	
End time			

Sample Appearance		Environmental Conditions	
Tint	NONE	Air Temp.	26.0
Color	CLEAR	Wind	ESTO
Turbidity	0.84	Rain	NONE
Odor	LIGHT	Atmosphere	P.C.
		Other	
DRB B. FILTERED	5.98		

Additional Information:

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? (Y) or N

Waste Contained? Y or (N)

Sampler's Signature: JIM W & DALE D —

Field Identification of Containers

Workorder # _____ # of Containers 6 J 6

Field Code	Containers	Presv. Check	Amt. Added
GC - 601/602	2-A	HCL	N/A
AA - METALS	1-K	HNO3 <2.0	✓
WC - NH4-N, NO3-N TOC	1-M	H2SO4 <2.0	✓
WC - BICARB, CL, TDS NO3-N	1-K	NONE	N/A
MC - TTCOL	1-L	NA2S2O3	N/A

Field Codes (order of sampling)

GC	VOC's
MS	VOC's (mass spec)
EW	Extractable Organics (water)
ES	Extractable Organics (soil)
LC	Liquid Chromatography
AA	Total Metals
MC	Microbiological
WC	Wet Chemistry
PS	Wet Chemistry (percent solid)

Containers

Vials	(A)	Mason Jars	(G)
Glass:		Plastic:	
gallon	(B)	gallon	(H)
80 oz.	(C)	1/2 gallon	(I)
32 oz.	(D)	32 oz.	(J)
16 oz.	(E)	16 oz.	(K)
4 oz.	(F)	8 oz.	(L)
		4 oz.	(M)

Orlando Laboratories, Inc. Field Sheet

Revised: December 29

Client: CITRUS County - CENTRAL L.F.

Project Name / Number: TASK - 3 PWSID#

Site Location: LECANTO, FL

Sample ID:	Sampling Date & Time:	Number of Bottles:
MW - C	1.17.96 1515	6

Sample Type:	Sample Matrix:	Sampling Method:	Well Evacuation Method:
GRB.	G.W.	BAT.	SUB IPP

Well Specifications			Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height
Diameter	4	in.	Well Casing Composition:
Water Level	108.30	ft.	GPF(x) =CR Gallons
Total Depth	121.0	ft.	X .653 = 8.29
Column Height	12.70	ft.	3X = 24.88
Column Volume	8.29	gal.	5X = 41.0
Min Evac.	24.88	gal.	Well Purged: Dry, or 3x and field tests within 5%, or 6x
Actual ≈	50.0	gal.	NGVD. MSL/TOC (-) WL/TOC (=) WATER LEVEL/ MSL.NGVD

In Place Plumbing Data		
Plumbing Material	SS/PF	
Purge Flow Rate	≈ 10.0	Gal/
Purge Time	≈ 5.0	
Sample Flow Rate	6.0 - 8.0	ml/

Well Purging Data

Gallons/Time					
Temperature	N/A			N/A	
Conductivity					
pH					
Begin time	0955	End time 1000			

Purging Comments:

Field Parameters

Tests	1st	2nd
Temp.	22.7	N/A
Cond.	110	
pH	7.40	
D.O.	4.1	

Additional Test Results:

Sampling Information

	Depth	Drums:		Sample Appearance		Environmental Conditions	
Surface Water		Type		Tint	NONE	Air Temp.	26.0
Soil/Sediments	N/A	Contents	N/A	Color	CLEAR	Wind	ES-10
		Layer Sampled		Turbidity	3.94	Rain	NONE
Wastewater:				Odor	NONE	Atmosphere	P.C.
Type of Composite		Drilling/boring method				Other	
Begin time		Drilling mud used					
End time							

Additional Information:

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? (Y) or N

Waste Contained? Y or (N)

Sampler's Signature: JIM LI & DALE D —

Field Identification of Containers

Workorder #_____ # of Containers 5

Field Code	Containers	Presv. Check	Amt. Added
GC - 601/602	2-A	HCL	N/A
AA - METALS	1-K	HNO3 <2.0	/
WC - NH4-N, NO3-N TOC	1-M	H2SO4 <2.0	/
WC - BICHR, CL, TDS NO3-N	1-K	NONE	N/A

Field Codes (order of sampling)

GC	VOC's
MS	VOC's (mass spec)
EW	Extractable Organics (water)
ES	Extractable Organics (soil)
LC	Liquid Chromatography
AA	Total Metals
MC	Microbiological
WC	Wet Chemistry
PS	Wet Chemistry (percent solid)

Containers

Vials	(A)	Mason Jars	(G)
Glass:		Plastic:	
gallon	(B)	gallon	(H)
80 oz.	(C)	1/2 gallon	(I)
32 oz.	(D)	32 oz.	(J)
16 oz.	(E)	16 oz.	(K)
4 oz.	(F)	8 oz.	(L)
		4 oz.	(M)

Orlando Laboratories, Inc. Field Sheet

Revised: December 29,

Client: CITRUS County CENTRAL L.F.

Project Name / Number: TASK - 3 PWSID#

Site Location: LECANTO, FL

Sample ID:	Sampling Date & Time:	Number of Bottles:
MW - D	1.17.96 1445	6 & 5

Sample Type:	Sample Matrix:	Sampling Method:	Well Evacuation Method:
GRB.	G.W.	BAT.	SUB

Well Specifications			Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height		
Diameter	4	in.	Well Casing Composition: PVC	In Place Plumbing Data	
Water Level	103.0	ft.	GPF(x) (6) =CR Gallons	Plumbing Material	SS/PF
Total Depth	209.77	ft.	106.77 X .653 = 69.72	Purge Flow Rate	≈ 360' 3.0 Gal/m
Column Height	106.77	ft.	3X = 209.16	Purge Time	≈ 77.0 m
Column Volume	69.72	gal.	5X = 348.60	Sample Flow Rate	6.0-8.0 ml/m
Min Evac.	209.16	gal.	Well Purged: Dry, or 5x and field tests within 5%, or 6x (6x)		
Actual ≈	228.0	gal.	NGVD. MSL/TOC	(-) WL/TOC	(=) WATER LEVEL/ MSL NGVD

Well Purging Data

Gallons/Time	210 / 70	213 / 71	219/73	225/75	228/76
Temperature	23.8	23.8	23.8	23.9	23.2
Conductivity	180	160	165	160	160
pH	7.30	7.31	7.35	7.34	7.38
Begin time	1245	End time	1402		

Purging Comments:

Field Parameters

Tests	1st	2nd
Temp.	22.9	N/A
Cond.	95	N/A
pH	7.34	
D.O.	3.4	

Additional Test Results:

Sampling Information

	Depth	Drums:		Sample Appearance		Environmental Conditions	
Surface Water	N/A	Type	N/A	Tint	NONE	Air Temp.	26.0
Soil/Sediments	N/A	Contents	N/A	Color	CLEAR	Wind	E 0-5
		Layer Sampled		Turbidity	0.20	Rain	NONE
Wastewater:				Odor	NONE	Atmosphere	P.C.
Type of Composite		Drilling/boring method				Other	
Begin time		Drilling mud used		TDEB B. FILTERED	31.70		
End time							

Additional Information:

4" IRON PIPE RUNNING - RAT IN SAMPLE (BW)

Fuel Power Unit Downline? (Y) or N (BW)

Field Decon Performed? (Y) or N

Waste Contained? Y or (N)

Sampler's Signature JIM W & DALE A.

Field Identification of Containers

Workorder # _____ # of Containers 6 5

Field Code	Containers	Presv. Check	Amt. Added
GC - 601/602	2-A	HCL	N/A
AA - METALS	1-K	HNO3 <2.0	✓
WC - NH4-N, NO3-N TOC	1-M	H2SO4 <2.0	✓
WC - BICARB, CL, TDS NO3-N	1-K	NONE	N/A

Field Codes (order of sampling)

GC	VOC's
MS	VOC's (mass spec)
EW	Extractable Organics (water)
ES	Extractable Organics (soil)
LC	Liquid Chromatography
AA	Total Metals
MC	Microbiological
WC	Wet Chemistry
PS	Wet Chemistry (percent solid)

Containers

Vials	(A)	Mason Jars	(G)
Glass:		Plastic:	
gallon	(B)	gallon	(H)
80 oz.	(C)	1/2 gallon	(I)
32 oz.	(D)	32 oz.	(J)
16 oz.	(E)	16 oz.	(K)
4 oz.	(F)	8 oz.	(L)
		4 oz.	(M)

Orlando Laboratories. Inc. Field Sheet

Revised: December 2

Client: CITRUS County - CENTRAL L.F.

Project Name / Number: TASK - 3 PWSID#

Site Location: LECANTO, FL

Sample ID:	Sampling Date & Time:	Number of Bottles:
MW - E	1.17.96 1600	5

Sample Type:	Sample Matrix:	Sampling Method:	Well Evacuation Method:
GRB.	G.W.	BAT.	~~SUB~~ BAT

Well Specifications		Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height		
Diameter	2 in.	Well Casing Composition:	In Place Plumbing Data	
Water Level	102.80 ft.	GPF(x) =CR Gallons	Plumbing Material	SS/PF
Total Depth	117.70 ft.	X 1.63 = 2.42	Purge Flow Rate	≈ 0.25 Gal
Column Height	14.90 ft.	~~X 1.653 =~~	Purge Time	≈ 40.0
Column Volume	2.42 gal.	3X = 7.26	Sample Flow Rate	6.0-8.0 ml/
Min Evac.	7.26 gal.	5X = 12.10	Well Purged: Dry, or 3x and field tests within 5%, or 6x	
Actual ≈	12.5 gal.	NGVD. MSL/TOC	(-) WL/TOC	(=) WATER LEVEL/ MSL.NGVD

Well Purging Data

Gallons/Time					
rature	N/A				
Conductivity			N/A		
pH					
Begin time	1020	End time ~~1130~~ 1100			

Purging Comments:

Field Parameters

Tests	1st	2nd
Temp.	23.7	N/A
Cond.	220	
pH	6.49	
D.O.	2.9	

Additional Test Results:

Sampling Information

	Depth	Drums:		Sample Appearance		Environmental Condition	
Surface Water	N/A	Type	N/A	Tint	LIGHT	Air Temp.	26.0
Soil/Sediments	N/A	Contents	N/A	Color	TAN	Wind	E 5-10
		Layer Sampled		Turbidity	0.27	Rain	NONE
Wastewater:				Odor	MEDIUM	Atmosphere	P.C.
Type of Composite		Drilling/boring method		Field B. Filtered	32.40	Other	
Begin time		Drilling mud used					
End time							

Additional Information:

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? (Y) or N

Waste Container? Y or (N)

Sampler's Signature: Jim Li & DALE D —

Field Identification of Containers

Workorder # _____ # of Containers 5

Field Code	Containers	Presv. Check	Amt. Added
GC - 601/602	2-A	HCL	N/A
AA - METALS	1-K	HNO3 <2.0	✓
WC - NH4-N, NO3-N TOC	1-M	H2SO4 <2.0	✓
WC - BICARB, CL, TDS NO3-N	1-K	NONE	N/A

Field Codes (order of sampling)

GC	VOC's
MS	VOC's (mass spec)
EW	Extractable Organics (water)
ES	Extractable Organics (soil)
LC	Liquid Chromatography
AA	Total Metals
MC	Microbiological
WC	Wet Chemistry
PS	Wet Chemistry (percent solid)

Containers

Vials	(A)	Mason Jars	(G)
Glass:		Plastic:	
gallon	(B)	gallon	(H)
80 oz.	(C)	1/2 gallon	(I)
32 oz.	(D)	32 oz.	(J)
16 oz.	(E)	16 oz.	(K)
4 oz.	(F)	8 oz.	(L)
		4 oz.	(M)

Orlando Laboratories. Inc. Field Sheet

Revised: December 2

Client: CITRUS County - CENTRAL L.F.

Project Name / Number: TASK - 3 PWSID#

Site Location: LECANTO, FL

Sample ID:	Sampling Date & Time:	Number of Bottles:
MW - EQUIP. BLK.	1-17-96 1425	5

Sample Type:	Sample Matrix:	Sampling Method:	Well Evacuation Method:
GRB.	G.W.	BAT.	SUB

Well Specifications		Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height		
Diameter	in.	Well Casing Composition:	In Place Plumbing Data	
Water Level	ft.	GPF(x) =CR Gallons	Plumbing Material	SS/PF
Total Depth	ft.	X 1.63 =	Purge Flow Rate	2 Gal/
Column Height	ft.	X .653 =	Purge Time	2
Column Volume	gal.		Sample Flow Rate	6.0-8.0 ml/
Min Evac.	gal.	Well Purged: Dry, or 3x and field tests within 5%, or 6x		
Actual ~2	gal.	NGVD. MSL/TOC	(-) WL/TOC	(=) WATER LEVEL/ MSL.NGVD

Well Purging Data					Field Parameters		
Gallons/Time					Tests	1st	2nd
Temperature		N/A.		N/A	Temp.	23.0	
Conductivity					Cond.	45.0	N/A.
pH					pH	8.36	
Begin time		End time			D.O.	7.1	
Purging Comments:					Additional Test Results:		

Sampling Information				Sample Appearance		Environmental Conditions	
	Depth	Drums:		Tint	NONE	Air Temp.	26.0
Surface Water	N/A.	Type	N/A.	Color	CLEAR	Wind	E 5-10
Soil/Sediments	N/A	Contents	N/A	Turbidity	0.06	Rain	NONE
		Layer Sampled		Odor	NONE	Atmosphere	P.C.
Wastewater:						Other	
Type of Composite		Drilling/boring method					
Begin time		Drilling mud used					
End time							

Additional Information:

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? (Y) or N

Waste Contained? Y or (N)

Sampler's Signature: JIM W & DALE D —

Field Identification of Containers

Workorder # _____ # of Containers 65

Field Code	Containers	Presv. Check	Amt. Added
GC - 601/602	2-A	HCL	N/A
AP - METALS	1-K	HNO3 <2.0	—
WC - NH4-N, NO3-N TOC	1-M	H2SO4 <2.0	—
WC - BICHR, CL, TDS NO3-N	1-K	NONE	N/A

Field Codes (order of sampling)

GC	VOC's
MS	VOC's (mass spec)
EW	Extractable Organics (water)
ES	Extractable Organics (soil)
LC	Liquid Chromatography
AA	Total Metals
MC	Microbiological
WC	Wet Chemistry
PS	Wet Chemistry (percent solid)

Containers

Vials	(A)	Mason Jars	(G)
Glass:		Plastic:	
gallon	(B)	gallon	(H)
80 oz.	(C)	1/2 gallon	(I)
32 oz.	(D)	32 oz.	(J)
16 oz.	(E)	16 oz.	(K)
4 oz.	(F)	8 oz.	(L)
		4 oz.	(M)