

APR 04 2007

April 2, 2007

Southwest District

Mr. John Morris, P.G.
Florida Department of Environmental Protection – Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Assessment Well Sampling Report – February 2007
Citrus County Landfill
Permit No. 21375-008-SO/01 & Consent Agreement 05-1078
Jones Edmunds Project No. 03860-021-01

Dear Mr. Morris:

This report presents data from the February 28, 2007 sampling of MW-1R, MW-10, and newly installed assessment wells MW-18 and MW-19 for Methylene Chloride, Benzene, and Vinyl Chloride. MW-18 and MW-19 were installed as horizontal and vertical delineation wells respectively under 62-780 due to exceedances of Benzene, Vinyl Chloride, and Methylene Chloride reported in compliance well MW-10. All parameters were below the laboratory detection limit with the exception of Benzene (1.1 µg/L) and Vinyl Chloride (1.2 µg/L) in MW-10.

Data collected from these two assessment wells will also be included and discussed in the Site Assessment Report due to the Department by May 27, 2007. A table presenting all parameters which were detected above the laboratory detection limit, Parameter Monitoring Report forms (PMRs), and laboratory data are attached.

Pressure transducers have been installed in piezometers PZ-1 and PZ-2 and in wells MW-10 and MW-18. The pressure transducers are set to collect water level data every two hours in order to see if there is a correlation between rainfall collection and infiltration through the nearby drainage retention area and the observed groundwater mound around MW-10. We have had minimal rain since the installation of the pressure transducers making any correlation improbable. Data collected by the pressure transducers will be downloaded near the end of April and submitted with the Site Assessment Report. At that time it will be determined if the pressure transducers need to be deployed for additional groundwater level data collection.

If you have any questions regarding this report, please contact us at (352) 377-5821.

Sincerely,



Katherine S. Weitz
Project Manager

xc: Susan Metcalfe, P.G.

M:\EnvDocs\Citrus County\2007\07m2\07m2CitrusLet.doc

Attachments

730 NE Waldo Rd
Gainesville, FL 32641

352.377.5821 Phone
352-377.3166 Fax
www.jonesedmunds.com

**PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
FEBRUARY 2007**

PARAMETER	CONDUC- TIVITY (FIELD)	DISSOLVED OXYGEN (FIELD)	pH (FIELD)	REDOX POTENTIAL	TEMPER- ATURE (FIELD)	TURBIDITY (FIELD)	BENZENE	VINYL CHLORIDE	
STANDARD UNITS	(1) umhos/cm	(1) ppm	6.5-8.5 S.U.** S.U.	(1) mV	(1) deg C	(1) NTU	1 µg/L* µg/L	1 µg/L* µg/L	
Background									
MW-1R	2/28/07	109	3.57	4.98	485.1	27.20	0.57	<0.48	<0.52
Other, Assessment									
MW-10	2/28/07	55	0.23	4.00	336.9	25.94	11.7	1.1	1.2
MW-18	2/28/07	673	1.61	6.07	383.7	24.58	13.7	<0.48	<0.52
MW-19	2/28/07	139	5.41	5.88	433.4	26.26	0.99	<0.48	<0.52

LEGEND

* =Primary Drinking Water Standard	I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
** =Secondary Drinking Water Standard	J = Estimated value
*** =Florida Groundwater Guidance Concentration	B = Analyte found in associated method blank
(1) =No Standard	Q = Estimated value; analyte analyzed after acceptable holding time
- =Not Analyzed	

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #: 165

Well Name: MW-1R

Classification of Ground Water: GII

Ground Water Elevation (NGVD): 4.76

Sampling Date/Time: 2/28/07 2:49:00 PM

Report Period: FEBRUARY 2007

Well Purged: YES

Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
000094	CONDUCTIVITY (FIELD)	SP	No	EPA 120.1	2/28/07 2:49:00 PM	109	µmhos/cm	
000400	pH (FIELD)	SP	No	EPA 150.1	2/28/07 2:49:00 PM	4.98	pH Units	
000010	TEMPERATURE (FIELD)	SP	No	EPA 170.1	2/28/07 2:49:00 PM	27.20	°C	
082078	TURBIDITY (FIELD)	SP	No	EPA 180.1	2/28/07 2:49:00 PM	0.57	NTU	
000299	DISSOLVED OXYGEN (FIELD)	SP	No	EPA 360.1	2/28/07 2:49:00 PM	3.57	mg/L	
034030	BENZENE	SP	No	EPA 8260B	3/7/07 2:32:00 AM	<0.48	µg/L	0.48µg/L
034423	METHYLENE CHLORIDE	SP	No	EPA 8260B	3/7/07 2:32:00 AM	<1.0	µg/L	1.0µg/L
039175	VINYL CHLORIDE	SP	No	EPA 8260B	3/7/07 2:32:00 AM	<0.52	µg/L	0.52µg/L
046480	REDOX POTENTIAL (FIELD)	SP	No	SM 2580B	2/28/07 2:49:00 PM	485.1	mV	

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name: MW-10

Classification of Ground Water: GII

Ground Water Elevation (NGVD): 5.81

Sampling Date/Time: 2/28/07 9:16:00 AM

Report Period: FEBRUARY 2007

Well Purged: Yes

Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
000094	CONDUCTIVITY (FIELD)	SP	No	EPA 120.1	2/28/07 9:16:00 AM	55	µmhos/cm	
000400	pH (FIELD)	SP	No	EPA 150.1	2/28/07 9:16:00 AM	4.00	pH Units	
000010	TEMPERATURE (FIELD)	SP	No	EPA 170.1	2/28/07 9:16:00 AM	25.94	°C	
082078	TURBIDITY (FIELD)	SP	No	EPA 180.1	2/28/07 9:16:00 AM	11.7	NTU	
000299	DISSOLVED OXYGEN (FIELD)	SP	No	EPA 360.1	2/28/07 9:16:00 AM	0.23	mg/L	
034030	BENZENE	SP	No	EPA 8260B	3/7/07 12:34:00 AM	1.1	µg/L	0.48µg/L
034423	METHYLENE CHLORIDE	SP	No	EPA 8260B	3/7/07 12:34:00 AM	<1.0	µg/L	1.0µg/L
039175	VINYL CHLORIDE	SP	No	EPA 8260B	3/7/07 12:34:00 AM	1.2	µg/L	0.52µg/L
046480	REDOX POTENTIAL (FIELD)	SP	No	SM 2580B	2/28/07 9:16:00 AM	336.9	mV	

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name: MW-18

Classification of Ground Water: GII

Ground Water Elevation (NGVD):

Sampling Date/Time: 2/28/07 12:36:00 PM

Report Period: FEBRUARY 2007

Well Purged: Yes

Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
000094	CONDUCTIVITY (FIELD)	SP	No	EPA 120.1	2/28/07 12:36:00 PM	673	µmhos/cm	
000400	pH (FIELD)	SP	No	EPA 150.1	2/28/07 12:36:00 PM	6.07	pH Units	
000010	TEMPERATURE (FIELD)	SP	No	EPA 170.1	2/28/07 12:36:00 PM	24.58	°C	
082078	TURBIDITY (FIELD)	SP	No	EPA 180.1	2/28/07 12:36:00 PM	13.7	NTU	
000299	DISSOLVED OXYGEN (FIELD)	SP	No	EPA 360.1	2/28/07 12:36:00 PM	1.61	mg/L	
034030	BENZENE	SP	No	EPA 8260B	3/7/07 2:02:00 AM	<0.48	µg/L	0.48µg/L
034423	METHYLENE CHLORIDE	SP	No	EPA 8260B	3/7/07 2:02:00 AM	<1.0	µg/L	1.0µg/L
039175	VINYL CHLORIDE	SP	No	EPA 8260B	3/7/07 2:02:00 AM	<0.52	µg/L	0.52µg/L
046480	REDOX POTENTIAL (FIELD)	SP	No	SM 2580B	2/28/07 12:36:00 PM	383.7	mV	

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name: MW-19

Classification of Ground Water: GII

Ground Water Elevation (NGVD):

Sampling Date/Time: 2/28/07 10:59:00 AM

Report Period: FEBRUARY 2007

Well Purged: Yes

Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
000094	CONDUCTIVITY (FIELD)	SP	No	EPA 120.1	2/28/07 10:59:00 AM	139	µmhos/cm	
000400	pH (FIELD)	SP	No	EPA 150.1	2/28/07 10:59:00 AM	5.88	pH Units	
000010	TEMPERATURE (FIELD)	SP	No	EPA 170.1	2/28/07 10:59:00 AM	26.26	°C	
082078	TURBIDITY (FIELD)	SP	No	EPA 180.1	2/28/07 10:59:00 AM	0.99	NTU	
000299	DISSOLVED OXYGEN (FIELD)	SP	No	EPA 360.1	2/28/07 10:59:00 AM	5.41	mg/L	
034030	BENZENE	SP	No	EPA 8260B	3/7/07 1:33:00 AM	<0.48	µg/L	0.48µg/L
034423	METHYLENE CHLORIDE	SP	No	EPA 8260B	3/7/07 1:33:00 AM	<1.0	µg/L	1.0µg/L
039175	VINYL CHLORIDE	SP	No	EPA 8260B	3/7/07 1:33:00 AM	<0.52	µg/L	0.52µg/L
046480	REDOX POTENTIAL (FIELD)	SP	No	SM 2580B	2/28/07 10:59:00 AM	433.4	mV	

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name: TRIP (TB)

Classification of Ground Water:

Ground Water Elevation (NGVD):

Sampling Date/Time: 2/28/07

Report Period: FEBRUARY 2007

Well Purged:

- Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
034030	BENZENE		No	EPA 8260B	3/7/07 3:01:00 AM	<0.48	µg/L	0.48µg/L
034423	METHYLENE CHLORIDE		No	EPA 8260B	3/7/07 3:01:00 AM	<1.0	µg/L	1.0µg/L
039175	VINYL CHLORIDE		No	EPA 8260B	3/7/07 3:01:00 AM	<0.52	µg/L	0.52µg/L

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945



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Wednesday, March 7, 2007

Jones Edmunds & Associates, Inc. (JO006)

Attn: Lynne McDaniel

730 N.E. Waldo Road Bldg. A

Gainesville, FL 32641

**RE: Project Number: 03860-025-01, Project Name/Desc: Citrus Co. LF - New Wells
ENCO Workorder: A700819**

Dear Lynne McDaniel,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, March 1, 2007.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "David M. Camacho".

David Camacho
Project Manager

Enclosure(s)



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LAB #		A700819-01	A700819-02	A700819-03	A700819-04	A700819-05	A700819-06
MATRIX	Minimum	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
SAMPLE ID	Reporting Limit	MW-10::07FebCC-10	EQB-1::07FebCC-EQ1	MW-19::07FebCC-19	MW-18::07FebCC-18	MW-1R::07FebCC-1R	TB

Volatile Organic Compounds by GCMS (Water)

Benzene	1 ug/L	1.1	<0.48 [2]	<0.48 [2]	<0.48 [2]	<0.48 [2]	<0.48 [2]
Methylene Chloride	2 ug/L	<1.0 [2]	<1.0 [2]	<1.0 [2]	<1.0 [2]	<1.0 [2]	<1.0 [2]
Vinyl chloride	1 ug/L	1.2	<0.52 [2]	<0.52 [2]	<0.52 [2]	<0.52 [2]	<0.52 [2]
Toluene-d8	125 [surr]	93%	94%	92%	93%	91%	94%
4-Bromofluorobenzene	133 [surr]	98%	97%	96%	96%	98%	97%
Dibromofluoromethane	137 [surr]	50% [1]	56% [1]	53% [1]	50% [1]	52% [1]	53% [1]

Field Parameters (Water)

Specific Conductance (EC)	0 umhos/cm	55	-	139	673	109	-
Dissolved Oxygen	0.00 mg/L	0.23	-	5.41	1.61	3.57	-
pH	0.00 pH Units	4.00	-	5.88	6.07	4.98	-
Oxidation/Reduction Potential	mV	336.9	-	433.4	383.7	485.1	-
Temperature	0.00 °C	25.94	-	26.26	24.58	27.20	-
Turbidity	0.0 NTU	11.7	-	0.99	13.7	0.57	-



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Volatile Organic Compounds by GCMS - Quality Control										
<i>Batch 7C06024 - EPA 5030B_MS</i>										
Blank (7C06024-BLK1)				Prepared: 03/06/2007 15:17 Analyzed: 03/06/2007 17:43						
Benzene	0.48 U	1.0	ug/L							
Methylene Chloride	1.0 U	2.0	ug/L							
Vinyl chloride	0.52 U	1.0	ug/L							
<i>Surrogate: Toluene-d8</i>		45	ug/L	50.0		90	76-125			
<i>Surrogate: 4-Bromofluorobenzene</i>		50	ug/L	50.0		99	64-133			
<i>Surrogate: Dibromofluoromethane</i>		37	ug/L	50.0		73	66-137			
LCS (7C06024-BS1)				Prepared: 03/06/2007 15:17 Analyzed: 03/06/2007 17:14						
1,1-Dichloroethene	21	1.0	ug/L	20.0		105	55.1-177			
Benzene	18	1.0	ug/L	20.0		89	64.9-144			
Chlorobenzene	16	1.0	ug/L	20.0		82	63.5-136			
Toluene	18	1.0	ug/L	20.0		89	68.4-128			
Trichloroethene	15	1.0	ug/L	20.0		77	70.2-128			
Freon 22	1.0 U	1.0	ug/L				0-200			
Diethyl ether	0.0 U		ug/L				0-200			
<i>Surrogate: Toluene-d8</i>		47	ug/L	50.0		94	76-125			
<i>Surrogate: 4-Bromofluorobenzene</i>		44	ug/L	50.0		87	64-133			
<i>Surrogate: Dibromofluoromethane</i>		43	ug/L	50.0		87	66-137			
Matrix Spike (7C06024-MS1)				Source: A701010-01 Prepared: 03/06/2007 15:17 Analyzed: 03/06/2007 18:12						
1,1-Dichloroethene	16	1.0	ug/L	20.0	0.83 U	82	55.1-177			
Benzene	18	1.0	ug/L	20.0	0.48 U	89	65-143			
Chlorobenzene	16	1.0	ug/L	20.0	0.21 U	82	63.5-136			
Toluene	17	1.0	ug/L	20.0	0.47	85	68.4-128			
Trichloroethene	16	1.0	ug/L	20.0	0.71 U	80	70.2-128			
Freon 22	1.0 U	1.0	ug/L		1.0 U		0-200			
Diethyl ether	0.0 U		ug/L		0.0		0-200			
<i>Surrogate: Toluene-d8</i>		46	ug/L	50.0		92	76-125			
<i>Surrogate: 4-Bromofluorobenzene</i>		43	ug/L	50.0		85	64-133			
<i>Surrogate: Dibromofluoromethane</i>		46	ug/L	50.0		93	66-137			
Matrix Spike Dup (7C06024-MSD1)				Source: A701010-01 Prepared: 03/06/2007 15:17 Analyzed: 03/06/2007 18:42						
1,1-Dichloroethene	16	1.0	ug/L	20.0	0.83 U	82	55.1-177	0.4	15.6	
Benzene	18	1.0	ug/L	20.0	0.48 U	89	65-143	0.1	11.8	
Chlorobenzene	16	1.0	ug/L	20.0	0.21 U	80	63.5-136	2	18.9	
Toluene	17	1.0	ug/L	20.0	0.47	83	68.4-128	2	12.4	
Trichloroethene	16	1.0	ug/L	20.0	0.71 U	79	70.2-128	0.8	13.3	
Freon 22	1.0 U	1.0	ug/L		1.0 U		0-200		200	
Diethyl ether	0.0 U		ug/L		0.0		0-200		200	
<i>Surrogate: Toluene-d8</i>		47	ug/L	50.0		94	76-125			
<i>Surrogate: 4-Bromofluorobenzene</i>		44	ug/L	50.0		87	64-133			
<i>Surrogate: Dibromofluoromethane</i>		35	ug/L	50.0		71	66-137			



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Special Notes

- [1] S-GC = Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- [2] U = Analyte included in the analysis, but not detected



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LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Extended	Water	NELAC	E83182



ENVIRONMENTAL CONSERVATION LABORATORIES

QSARF # A700819

4810 Executive Park Court, Suite 211
 Jacksonville, Florida 32216-6069
 Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
 Orlando, Florida 32824-8529
 Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way
 Cary, North Carolina 27513
 Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE NEW Citrus Co. LF - WELLS		PROJECT NO. 03860-025-01	P.O. NUMBER	MATRIX TYPE		REQUIRED ANALYSIS		PAGE 1 OF 1			
PROJECT LOC. (State) FL	SAMPLER(S) NAME DAN Lichterwalter		PHONE (352) 377-5821	SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER SOIL/SOLID/SEDIMENT NONAQUEOUS LIQUID (oil, solvent, etc.) AIR SLUDGE OTHER		See Attached 1/2/07 8260		<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY <input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge)			
CLIENT NAME Jones, Edmunds + Assoc		CLIENT PROJECT MANAGER K. Weitz						Date Due: _____			
CLIENT ADDRESS (CITY, STATE, ZIP) 730 NE Waldo Rd Gville, FL 32641								HCl PRESERVATIVE NUMBER OF CONTAINERS SUBMITTED		REMARKS	
SAMPLE								STATION DATE TIME GRAB COMP SAMPLE IDENTIFICATION			
MW-10	2/28/07	0916	✓		07FebCC-10	✓					
EQB-1		0959	✓		-EQ1				EQ Blank - 1		
MW-19		1059	✓		-19	✓					
MW-18		1236	✓		-18	✓					
MW-1R		1449	✓		-1R	✓					
6TB									Trip Blank		
7											
8									* Questions?		
9									Call K. Weitz		
10									@(352) 377-5821		
11											
12											
13											
14											
SAMPLE KIT PREPARED BY: <input type="checkbox"/> JACKSONVILLE <input checked="" type="checkbox"/> ORLANDO JF		DATE 2/13/07	TIME 15:25	RELINQUISHED BY: (SIGNATURE) J. Fournie		DATE 2/13/07	TIME 15:25	RECEIVED BY: (SIGNATURE) Dan Lichterwalt		DATE 2/23/07	TIME 1100
RELINQUISHED BY: (SIGNATURE) Dan Lichterwalt		DATE 2/28/07	TIME 1740	RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature]		DATE 3/1/07	TIME 1120	CUSTODY INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	ENCO LOG NO. A700819	REMARKS Shipped Greyhound from Gainesville, to Orlando Medford, 2/20/07					