

February 15, 2006

Ms. Deborah A. Getzoff District Director Florida Department of Environmental Protection – Southwest District 13051 N Telecom Parkway Temple Terrace, FL 33632-0926

Re:

Citrus County Central Class I Landfill

Additional Groundwater Investigation Results Jones Edmunds Project No.: 03860-021-01

Dear Ms. Getzoff:

The initial groundwater investigation activities required by Article 8 of Consent Agreement 05-1078 have been completed. The Groundwater Investigation Report summarizing the investigation activities and findings was submitted to your office on January 4, 2006. The initial laboratory analytical results reported for the groundwater sample collected from monitoring well MW-15 indicated the possible presence of Vinyl Chloride above the Primary Drinking Water Standard (PDWS) of 1 µg/L. The January 4<sup>th</sup> submittal included a recommendation to re-sample MW-15 to confirm the reported Vinyl Chloride exceedance. The re-sampling was performed on January 5, 2006 and the results were forwarded to your office on February 6, 2006. The January 5<sup>th</sup> re-sampling data indicated a Vinyl Chloride concentration below the PDWS, however the presence of Vinyl Chloride in the equipment blank rendered the data somewhat suspect. Therefore, a second resampling was performed on January 27, 2006. A copy of the January 27<sup>th</sup> data is attached to this letter. The second re-sampling data for MW-15 indicated the presence of Vinyl Chloride at the PDWS of 1 µg/L. Therefore, in accordance with Article 11b and Exhibit A of the Consent Agreement the County shall commence with site assessment activities to address the groundwater contamination reported for monitoring well MW-15.

Article 11b of the Consent Agreement requires commencement of site assessment activities within 150 days of the effective date of the agreement. However, the Department granted an extension of several deadlines including 11b in your February 2, 2006 letter to the County. The revised deadline is April 4, 2006. Therefore, site assessment activities will commence prior to April 4, 2006. In accordance with Rule 62-780, F.A.C., we will contact Mr. Morris to discuss details of the site assessment activities prior to implementation.

> 730 NE Waldo Rd Gainesville, FL 32641

Ms. Getzoff February 15, 2006 Page 2

Please feel free to call me at (352) 377-5821 if you have any questions regarding this request. Thank you.

Sincerely,

John Locklear

Project Manager

xc:

Susan Metcalfe, P.G. John Morris, P.G. Stephanie Watson

**PART III Analytical Results** 

Facility GMS #:

SWD/09/39859

Test Site ID #:

Well Name:

MW-15

**Classification of Ground Water:** 

GII

**Ground Water Elevation (NGVD):** 

Sampling Date/Time: 01/05/06 8:50:00 AM

Report Period:

**JANUARY 2006** 

Well Purged:

Well Type: []

Background

Intermediate

[] Compliance []

Yes

[X] Other

[]

Detection

SOUTHWEST DISTRICT

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
00094	CONDUCTIVITY (FIELD)	SP	No	EPA 120.1	01/05/06 8:50:00 AM	81	μmhos/cm	
00406	pH (FIELD)	SP	No	EPA 150.1	01/05/06 8:50:00 AM	5.22	S.U.	
00010	TEMPERATURE (FIELD)	SP	No	EPA 170.1	01/05/06 8:50:00 AM	25.1	Deg. C	
82078	TURBIDITY (FIELD)	SP	No	EPA 180.1	01/05/06 8:50:00 AM	9.85	NTU	
00299	DISSOLVED OXYGEN (FIELD)	SP	No	EPA 360.1	01/05/06 8:50:00 AM	.66	mg/L	
39175	VINYL CHLORIDE	SP	No	EPA 8260	01/09/06 10:32:00 PM	<0.5	μg/L	.5µg/L

<sup>\*</sup> Attach Laboratory Reports

**PART III Analytical Results** Facility GMS #:

SWD/09/39859

Test Site ID #:

Well Name: **EQUBLK Classification of Ground Water:** 

**QAQC** 

(CCIR-EQ1)

Well Purged: Well Type: []

Report Period:

Background

Intermediate Compliance

**JANUARY 2006** 

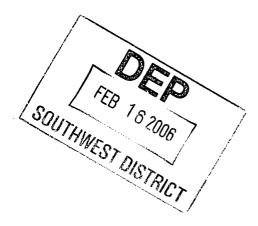
Other

Sampling Date/Time: 01/05/06 8:06:00 AM

**Ground Water Elevation (NGVD):** 

Detection

STORET PARAMETER MONITORED SAMPLING FIELD ANALYSIS ANALYSIS ANALYSIS RESULT \* UNITS DETECTION METHOD FILTERED METHOD CODE DATE/TIME LIMIT/UNITS 39175 VINYL CHLORIDE EPA 8260 01/09/06 10:02:00 PM μg/L .5µg/L



PART III Analytical Results		Sampling Date/Time: 01/05/06							
Facility GMS #: SWD/09/39859		Report Period: JANUARY 2006 Well Purged:							
Test Site ID #:									
Well Name: TRIP Classification of Ground Water:	(CCIR-TB1) OAOC	Well Type: [ ] Background [ ] Intermediate							
Ground Water Elevation (NGVD):		[ ] Complian [ ] Other [ ] Detection							
STORET PARAMETER MONITORED CODE	SAMPLING FIELD METHOD FILTERED	ANALYSIS ANALYSIS ANAL METHOD DATE/TIME RESUI		DETECTION LIMIT/UNITS					
39175 VINYL CHLORIDE	No	EPA 8260 01/09/06 11:02:00 PM <0.	5 μg/L	.5μg/L					

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive Orlando, Florida 32824-7009 407 / 826-5314 Fax 407 / 850-6945 www.encolabs.com



Laboratories

DHRS Certification No. E83182

CLIENT : Jones Edmunds & Associates, Inc.

ADDRESS: 730 N.E.Waldo Road

Bldq.A

Gainesville, FL 32641

REPORT #

: ORL40561

DATE SUBMITTED: January 6, 2006

DATE REPORTED: January 13, 2006

ATTENTION: Tim Cully

#### SAMPLE IDENTIFICATION

Samples submitted and identified by client as:

REFERENCE: CITRUS CO.

03860-022-01-1000

01/05/06

ORL40561-1 : EQB#1 (CCIR-EQ1) @ 08:06 ORL40561-2 : MW-15 (CCIR-15) @ 08:50

ORL40561-3 : TB#1 (CCIR-TB1)

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

Note: Data within this document has been reported to the laboratory Method Detection Limit (MDL). Where positive results are obtained at levels below the lowest calibration standard, an appropriate qualifier has been assigned.

PROJECT MANAGER

 REPORT #
 :
 ORL40561

 DATE REPORTED
 :
 JANUARY 13, 2006

 REFERENCE
 :
 03860-022-01-1000

 PROJECT NAME
 :
 CITRUS CO LF.

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
EQB#1	VINYL CHLORIDE	1.	ug/L	EPA 8260

 REPORT #
 : ORL40561

 DATE REPORTED
 : JANUARY 13, 2006

 REFERENCE
 : 03860-022-01-1000

 PROJECT NAME
 : CITRUS CO LF.

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
MW-15	SPEC COND-FIELD	81	umhos/cm	EPA 120.1
MW-15	PH-FIELD	5.22	S.U.	EPA 150.1
MW-15	TEMP-FIELD	25.1	Deg. C	EPA 170.1
MW-15	TURBIDITY-FIELD	9.85	NTU	EPA 180.1
MW-15	DISSOLVED OXYGEN	.66	mg/L	EPA 360.1
MW-15	VINYL CHLORIDE	<0.5	ug/L	EPA 8260

REPORT #
DATE REPORTED
REFERENCE

ORL40561 JANUARY 13, 2006 03860-022-01-1000

PROJECT NAME

CITRUS CO LF.

STATION NAME	PARAMETER	RESULT	UNITS	метнор
TB#1	VINYL CHLORIDE	<0.5	ug/L	EPA 8260

REPORT # : ORL40561

DATE REPORTED: January 13, 2006

REFERENCE : CITRUS CO.

**PROJECT NAME**: 03860-022-01-1000

PAGE 1 OF 3

### RESULTS OF ANALYSIS

EPA METHOD 8260 -VOLATILE ORGANICS

Vinyl Chloride

<u>Surrogate:</u> Bromofluorobenzene

Date Analyzed

LAB BLANK

0.5 U

% RECOV 93

01/09/06 15:32

Units

ug/L

LIMITS 52-167

**REPORT #** : ORL40561

DATE REPORTED: January 13, 2006

REFERENCE : CITRUS CO.

**PROJECT NAME**: 03860-022-01-1000

PAGE 2 OF 3

### LABORATORY CERTIFICATIONS

Laboratory Certification: NELAC: E83182

All analyses reported with this project were analyzed by the facility indicated unless identified below.

REPORT # : ORL40561

DATE REPORTED: January 13, 2006

REFERENCE : CITRUS CO.

**PROJECT NAME**: 03860-022-01-1000

PAGE 3 OF 3

### QUALITY CONTROL DATA

Parameter	% RECOVERY LCS/MS/MSD	LCS LIMITS	MS/MSD LIMITS	RPD MS/MSD	RPD LIMITS
EPA Method 8260					
1,1-Dichloroethene	131/132/141	49-156	36-185	6	34
Benzene	118/111/116	64-132	65-143	4	25
Trichloroethene	103/103/105	66-130	51-152	2	28
Toluene	98/ 95/ 98	58-132	62-144	3	24
Chlorobenzene	92/ 94/ 97	68-135	64-140	3	23

< = Less Than</pre>

MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

### Environmental Conservation Laboratories, Inc. Login Sample Disposition Form

		TEA				Login	#: (	RLY	0261			
Client Name: Proj. Name:				o. LF	-	Date F			Logged By	- I: <u>JF</u>	<del></del>	
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Containers	None	HCI	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	Other	, otal it	Cooler Nur		Re	ceipt Tem	perature
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1 L Plastic	1						<u> </u>	,,,		2-6°	On Ice	No Ice
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250 ml Plastic	<del> </del>						<b> </b>			2-6°	On Ice	No Ice
250 ml Glass	<del> </del>						-			2-6°	On Ice	No Ice
										1		
4 oz Jars					ļ					2-6°	On Ice	No Ice
40 ml Vial	<u> </u>	6								2-6°	On Ice	No ice
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# QSARF # Pangs Only Suite 244



4810 Executive Park Court, Suite 211 Jacksonville, Florida 32216-6069 Ph. (904) 296-3007 • Fax (904) 296-6210 10775 Central Port Drive

1015 Passport Way Orlando, Florida 32824 Cary, North Carolina 27513
Ph. (407) 826-5314 • Fax (407) 850-6945 Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

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**PART III Analytical Results** 

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name:

MW-15 R

GII

Classification of Ground Water:

Ground Water Elevation (NGVD):

Sampling Date/Time: 01/27/06 8:27:00 AM

Report Period: JANUARY 2006

Well Purged: Yes

Well Type: [ ] Background

[ ] Intermediate [ ] Compliance

[ ] Compl

] Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
39175	VINYL CHLORIDE	SP	No	EPA 624	02/02/06 1:09:00 AM	1	μg/L	0.5μg/L
00094	CONDUCTIVITY (FIELD)	SP	No	Field	01/27/06 8:27:00 AM	61	μmhos/cm	μmhos/cm
00299	DISSOLVED OXYGEN (FIELD)	SP	No	Field	01/27/06 8:27:00 AM	0.29	mg/L	mg/L
00406	pH (FIELD)	SP	No	Field	01/27/06 8:27:00 AM	4.93	pH Units	pH Units
00010	TEMPERATURE (FIELD)	SP	No	Field	01/27/06 8:27:00 AM	25.31	°C	°C
82078	TURBIDITY (FIELD)	SP	No	Field	01/27/06 8:27:00 AM	2.38	NTU	NTU

PART II	I Analytical Results		Sampling Date/Time: 01/27/06							
Facility (	GMS #: SWD/09/39859		Report Period: JANUARY 2006 Well Purged:							
Test Site	ID #:									
Well Nar	ne: TRIP R	Well Type: [ ] Background [ ] Intermediate								
Classifica	ation of Ground Water:	QAQC		[ ] Co	mpliance					
Ground '	Water Elevation (NGVD):				her etection					
STORET PA	ARAMETER MONITORED	SAMPLING FIELD METHOD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS			
39175 V	INYL CHLORIDE	No	EPA 624	02/02/06 1:39:00 AM	<0.5	μg/L	0.5µg/L			

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



February 14, 2006

Jones Edmunds & Associates, Inc. (JO006)

Attn: J. Locklear

730 N.E. Waldo Road Bldg.A

Gainesville, FL 32641

RE: Project Number: 03860-022-01, Project Name/Desc: Citrus Co. LF

ENCO Workorder: A600411

Dear J. Locklear,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 1/28/06 10:00:00AM.

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.

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

Sincerely,

Kelly Samples

Project Manager

Enclosure(s)

TO: 13523773166

P.4/10

**ENCO LABORATORIES** 

REPORT# DATE REPORTED REFERENCE

A600411 2/14/2006 03860-022-01

PROJECT NAME

: Citrus Co. LF Resample

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
MW-15	Vinyl chloride	1	ug/L	EPA 624
MW-15	Dissolved Oxygen	0.29	mg/L	Field
MW-15	pН	4.93	pH Units	Field
MW-15	Specific Conductance (EC)	61	umhos/cm	Field
MW-15	Temperature	25.31	°C	Field
MW-15	Turbidity	2.38	NTU	Field

TO: 13523773166

P.5/10

**ENCO LABORATORIES** 

REPORT #

DATE REPORTED REFERENCE

PROJECT NAME

: A600411 : 2/14/2006 : 03860-022-01 : Citrus Co. LF Resample

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
TB#3	Vinyl chloride	<0.5	ug/L	EPA 624





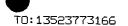
### QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Volatile Organic Compounds by		ty Control								
Batch 6B01010 - EPA 5030B_MS	S									
Blank (6B01010-BLK1)				Prepared						
1,1,1-Trichloroethane	0.2 U	l	ug/L				. — — — — — — — — — — — — — — — — — — —			
1,1,2,2-Tetrachloroethane	0.2 U	0.2	ug/L			1				
1,1,2-Trichloroethane	0.4 U	1	ug/L		1					
1,1-Dichloroethane	0.3 U	I	ug/L							
1,1-Dichloroethene	0.8 U	1	ug/L			^				
1,2-Dichlorobenzene	0.3 U	I	ug/L				16 200 DISTRIL			
1,2-Dichloroethane	0.3 U	1	ug/L		J.	/ FFO	A STATE OF THE PARTY OF THE PAR			
1,2-Dichloropropane	0.2 U	i	ug/L	į	So.	ر`` ۵۰	7.			
1,3-Dichlorobenzene	0.2 U	1	ug/L	`	2001	,	0.200		7	
1,4-Dichlorobenzene	0.2 U	1	ug/L			Ylain		5 /		
Bromodichloromethane	0.2 U	0.4	ug/L			$<\!\!<\!\!<\!\!<\!\!<\!\!<\!\!>>$		1		
Bromoform	0.5 U	1	ug/L				Din.	<b>√</b>	/	
Bromomethane	١U	1	ug/L			****	(0)/p/	_ /		
Carbon tetrachloride	0.2 U	1	ug/L				\'!!	ያ /		
Chlorobenzene	0.1 U	1	ug/L					<b>:</b> /		
Chloroethane	0.5 U	1	ug/L					~		
Chloroform	0.2 U	1	ug/L							
Chloromethane	0.6 U	1	ug/L							
cis-1,2-Dichloroethene	0.3 U	i	ug/L							
cis-1,3-Dichloropropene	0.1 U	0.2	ug/L							
Dibromochloromethane	0.2 U	0.2	ug/L							
Dichlorodifluoromethane	0.5 U	1	ug/L							
Methylene chloride	1 U	2	ug/L							
Tetrachloroethene	0.6 U	1	ug/L							
trans-1,2-Dichloroethene	0.8 U	1	սջ/Ն							
trans-1,3-Dichloropropene	0.2 U	0.2	ug/L							
Trichloroethene	0.3 U	1	ug/L							
Trichlorofluoromethane	0.7 U	i	ug/L							
Vinyl chloride	0.5 U	1	ug/L							
Surrogate: Toluene-d8	60.6		ug/L	50.0		121	70-132			
Surrogate: 4-Bromofluorobenzene	54.0		ug/L	50.0		108	60-135			
Surrogate: 1,2-Dichloroethane-d4	0.00		ug/L	50.0			50-150			S-GC
LCS (6B01010-BS1)	0.40				& Analyze	ed: 01-Feb				
1,1-Dichloroethene	26.8	1	ug/L	20.0		134	49-156			
Chlorobenzene	18.7	i	ug/L	20.0		94	68-135			
Trichloroethene	20.3	1	ug/L	20.0		102	66-130			
Surrogate: Toluene-d8	61.5		ug/L	50.0		123	70-132			
Surrogate: 4-Bromofluorobenzene	49.8		ug/L	50.0		100	60-135			
Surrogate: 1,2-Dichloroethane-d4	0.00		ug/L	50.0			50-150			S-GC
Matrix Spike (6B01010-MS1)		Source: A600	_		& Analyz	ed: 01-Feb				
1,1-Dichloroethene	25.5	1	ug/L	20.0	0.8 U	128	36-185			
Chlorobenzene	19.8	i	ug/L	20.0	0.1 U	99	64-140			
Trichloroethene	19.4	i	ug/L	20.0	0.3 U	97	51-152			



### **QUALITY CONTROL**

Analyte R	esult	MRL Units		Spike Source Level Result		%REC	%REC Limits	RPD	RPD Limit	Notes
olatile Organic Compounds by Go	CMS - Qu	ality Control								
Batch 6B01010 - EPA 5030B_MS										
Matrix Spike (6B01010-MS1) Contin	ued	Source: A600	288-08	Prepared	l & Analyz					
Surrogate: Toluene-d8	60	60.8		50.0		122	70-132			
Surrogate: 4-Bromofluorobenzene	55	5.8	ug/L	50.0		112	60-135			
Surrogate: 1,2-Dichloroethane-d4	0.	00	ug/L	50.0			50-150			S-GC,
Matrix Spike Dup (6B01010-MSD1)		Source: A600288-08 Prepared & Analyzed: 01-Feb-06								
I,1-Dichloroethene	25.8	ı	ug/L	20.0	0.8 U	129	36-185	1	34	
Chlorobenzene	19.4	1	ug/L	20.0	0.1 U	97	64-140	2	23	
Trichloroethene	19.2	1	ug/L	20.0	0.3 U	96	51-152	1	28	
Surrogate: Toluene-d8	61	1.4	ug/L	50.0		123	70-132			
Surrogate: 4-Bromofluorobenzene	53	1.8	ug/L	50.0		108	60-135			
Surrogate: 1,2-Dichloroethane-d4	0.	00	ug/L	50.0			50-150			S-GC,



P.8/10



### Notes and Definitions

U	Analyte included in the analysis, but not detected
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
1	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

### QSARF#\_ **ENVIRONMENTAL CONSERVATION LABORATORIES**

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10775 Central Port Drive Orlando, Florida 32824

1015 Passport Way Cary, North Carolina 27513 Ph. (904) 296-3007 • Fax (904) 296-6210 Ph. (407) 826-5314 • Fax (407) 850-6945 Ph. (919) 677-1669 • Fax (919) 677-9846

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