



Environmental Consulting & Technology, Inc.

July 10, 2009  
090213-0300

Ms. Ashley Keough  
**Gulf Power**  
One Energy Place  
Pensacola, Florida 32520

**Re: Additional Phase II Environmental Site Assessment (ESA) Results  
Celia Site  
Escambia County, Florida**

Dear Ms. Keough:

Environmental Consulting & Technology, Inc. (ECT) has completed additional phase II ESA activities at the above-referenced property located in unincorporated Escambia County, Florida (see Figures 1 and 2). This letter reports summarizes the activities and results of the additional phase II ESA activities.

#### **BACKGROUND**

Initial phase I ESA investigations identified recognized environmental conditions (RECs) associated with the northern adjacent, upgradient Camp Five Landfill and the northern adjacent, upgradient Escambia County Roads Department facility. The landfill has buried waste extending onto the northern portion of the subject site and has documented groundwater and surface water (Mitchell Creek and Camp Five Branch) impacts. The Escambia County Roads Department facility has a documented release of petroleum products, the extent of which is unknown. Two previous rounds of groundwater sampling activities were conducted, as summarized in ECT's April 2009 *Limited Phase II Environmental Site Assessment Report*. As a result of the prior analyses, additional assessment activities were recommended. Below is a description of the scope of work, results, and conclusions for the additional assessment activities.

#### **PHASE II ESA SCOPE OF WORK**

On June 2, 2009, two additional monitoring wells were installed in the locations of previous grab sample locations GW-F and GW-J, as depicted on Figure 3. The monitoring well installation was performed using a hollow stem auger drill rig operated by Universal Engineering Sciences personnel. The drilling activities were overseen by ECT and Gulf Power personnel. Soil boring logs and monitoring well installation logs are provided as Attachment A. Following monitoring well installation, Mr. Brett Surles of RDH Environmental collected groundwater samples from the two newly installed wells and from existing wells GW-K, GW-L, GW-M, and GW-N. Existing wells MW-9, MW-10, MW-13, and MW-14, previously installed by the County for landfill monitoring and located on the subject property, were also sampled. Groundwater sampling logs are

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289-9338

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provided as Attachment B. Following collection, the samples were placed on ice and transported to SunLabs, Inc. for laboratory analysis. All of the samples were analyzed for iron by U.S. Environmental Protection Agency (EPA) Method 6010 and for total dissolved solids (TDS) by Method SM2540C. Additionally, monitoring wells GW-F, GW-J, MW-9, MW-10, MW-13, and MW-14 were analyzed for arsenic, chromium, and lead by EPA Method 6010, for nitrogen ammonia (as nitrogen) by EPA Method 350.2, and for mercury by EPA Method 7470.

## **RESULTS**

The groundwater sampling field parameters (pH, temperature, conductivity, dissolved oxygen, turbidity, and oxygen reducing potential) are summarized in Table 1. The field parameter measurements detected substantial differences in conductivity (higher), dissolved oxygen (lower), and oxygen reducing potential (lower) measurements between monitoring wells MW-9 and MW-10 and the other wells.

The groundwater sampling analytical results are summarized in Table 2 and the complete laboratory analytical report is provided as Attachment C. The analytical results of the groundwater samples collected are compared to the applicable groundwater cleanup target levels (GCTLs) and natural attenuation default source concentrations (NADSCs), pursuant to Chapter 62-777 of the Florida Administrative Code, Tables I and V, respectively.

The laboratory analytical results indicate that all of the constituents analyzed for were below the respective GCTLs, with the exception of the observed iron concentration in landfill monitoring wells MW-9 and MW-10. The observed iron concentrations in monitoring wells MW-9 and MW-10 (16,000 micrograms per liter [ $\mu\text{g/L}$ ]) exceeded both the GCTL (300  $\mu\text{g/L}$ ) and the NADSC (3,000  $\mu\text{g/L}$ ) for iron. In addition, the highest concentrations of TDS and nitrogen ammonia were detected in the groundwater samples collected from existing monitoring wells MW-9 and MW-10.

## **CONCLUSIONS AND RECOMMENDATIONS**

Based on the results of the phase II ESA investigations, concentrations of contaminants of concern were detected at concentrations below the GCTLs in all of the sampled wells, with the exception of the two existing monitoring wells located immediately downgradient from the landfill. No additional sampling is recommended at this time. ECT recommends installing concrete pads and metal housings around the onsite wells for potential future sampling events. Additionally, top-of-casing elevations should be surveyed in order to obtain accurate groundwater flow data for plume migration monitoring.

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### **LIMITATIONS**

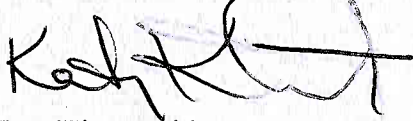
ECT investigated the environmental conditions associated with the above-referenced property located in unincorporated Escambia County, Florida. In performing its work, ECT used reasonable care and performed its work in accordance with currently accepted hydrological and engineering practices, and standard agency procedures as appropriate. Other than this, no warranty is implied or intended.

It is understood that the phase II ESA described herein generally cannot, and does not in this case, lead to a full knowledge of site conditions, but indicates conditions only for those exact locations and specific times where observations were made. There can be no assurance, and ECT offers no assurance, that site conditions do not exist or could not exist in the future that were undetected and that could lead to liability in connection with the site. In conducting its investigation, ECT has conducted the subsurface investigations in keeping with existing environmental standards and enforcement practices, but cannot accurately predict what actions any given agency may take in the future.

If you have any questions or need additional information, please call either of the undersigned at (813) 289-9338. We have appreciated this opportunity to be of service.

Sincerely,

### **ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.**



Katy Kitanovski  
Senior Associate Scientist



Darren L. Stowe, CFEA  
Project Manager

KAK/dtm

Attachments

## TABLES

**Table 1 - Groundwater Sampling Field Parameters**

Sample	Date	pH (S.U.)	Temperature (°C)	Conductivity (µmhos/cm)	D.O. (mg/L)	Turbidity (NTU)	ORP (mV)	Total Gallons Purged
GW-F	06/09/09	4.11	20.80	34	8.27	6.31	276	22
GW-J	06/09/09	4.16	20.60	20	8.89	2.53	240	14
GW-K	06/09/09	4.30	19.50	19	9.52	1.24	259	10
GW-L	06/09/09	5.01	20.80	16	9.52	3.90	218	19.8
GW-M	06/09/09	4.12	21.10	20	8.45	13.30	262	21
GW-N	06/09/09	4.17	22.20	21	8.36	5.42	284	28
MW-9	06/10/09	5.74	21.80	99	0.96	4.88	-5	52
MW-10	06/10/09	5.57	22.30	240	0.02	4.79	-26	40
MW-13	06/10/09	4.23	21.70	70	1.94	1.31	275	12.8
MW-14	06/10/09	3.90	21.90	37	7.05	2.44	197	10.2

**Notes:**

Recorded field parameters represent the final data prior to sample collection

D.O. = Dissolved Oxygen

ORP = Oxygen Reducing Potential

S.U. = Standard Units

°C = Degrees Centigrade

µmhos/cm = Micromhos per Centimeter

mg/L = Milligrams per Liter

NTU = Nephelometric Turbidity Units

mV = Millivolts

Source: ECT, 2009.

**Table 2 - Groundwater Sampling Analytical Summary**

Sample		Arsenic	Chromium	Iron	Lead	Mercury	Nitrogen Ammonia (as N)	Total Dissolved Solids
Location	Date							
<i>GCTLs</i>		<i>10</i>	<i>100</i>	<i>300</i>	<i>15</i>	<i>2</i>	<i>NS</i>	<i>500,000</i>
<i>NADCS</i>		<i>100</i>	<i>1,000</i>	<i>3,000</i>	<i>150</i>	<i>20</i>	<i>NS</i>	<i>5,000,000</i>
GW-F	6/9/2009	<4.8	< 3.5	77	< 4.4	< 0.2	< 5	40,000
GW-J	6/9/2009	< 4.8	< 3.5	62	< 4.4	< 0.2	< 5	32,000
GW-K	6/9/2009	NA	NA	32	NA	NA	NA	8,000 I
GW-L	6/9/2009	NA	NA	26	NA	NA	NA	< 7,260
GW-M	6/9/2009	NA	NA	190	NA	NA	NA	40,000
GW-N	6/9/2009	NA	NA	140	NA	NA	NA	32,000
MW-9	6/10/2009	< 4.8	< 3.5	<b>16,000</b>	< 4.4	< 0.2	1,030	68,000
MW-10	6/10/2009	< 4.8	< 3.5	<b>16,000</b>	< 4.4	< 0.2	3,880	136,000
MW-13	6/10/2009	< 4.8	< 3.5	33	< 4.4	< 0.2	20	52,000
MW-14	6/10/2009	< 4.8	< 3.5	230	< 4.4	< 0.2	< 5	40,000

Notes:

I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

All units in micrograms per liter (ug/L)

GCTL = Groundwater Cleanup Target Level, pursuant to Chapter 62-777, F.A.C., Table I

NADSC = Natural Attenuation Default Source Concentration, pursuant to Chapter 62-777, F.A.C., Table V

NA = Not analyzed

NS = No Standard

**Bold = Value is above the GCTL, but below the NADSC**

**Bold = Value is above both the GCTL and NADSC**

## FIGURES

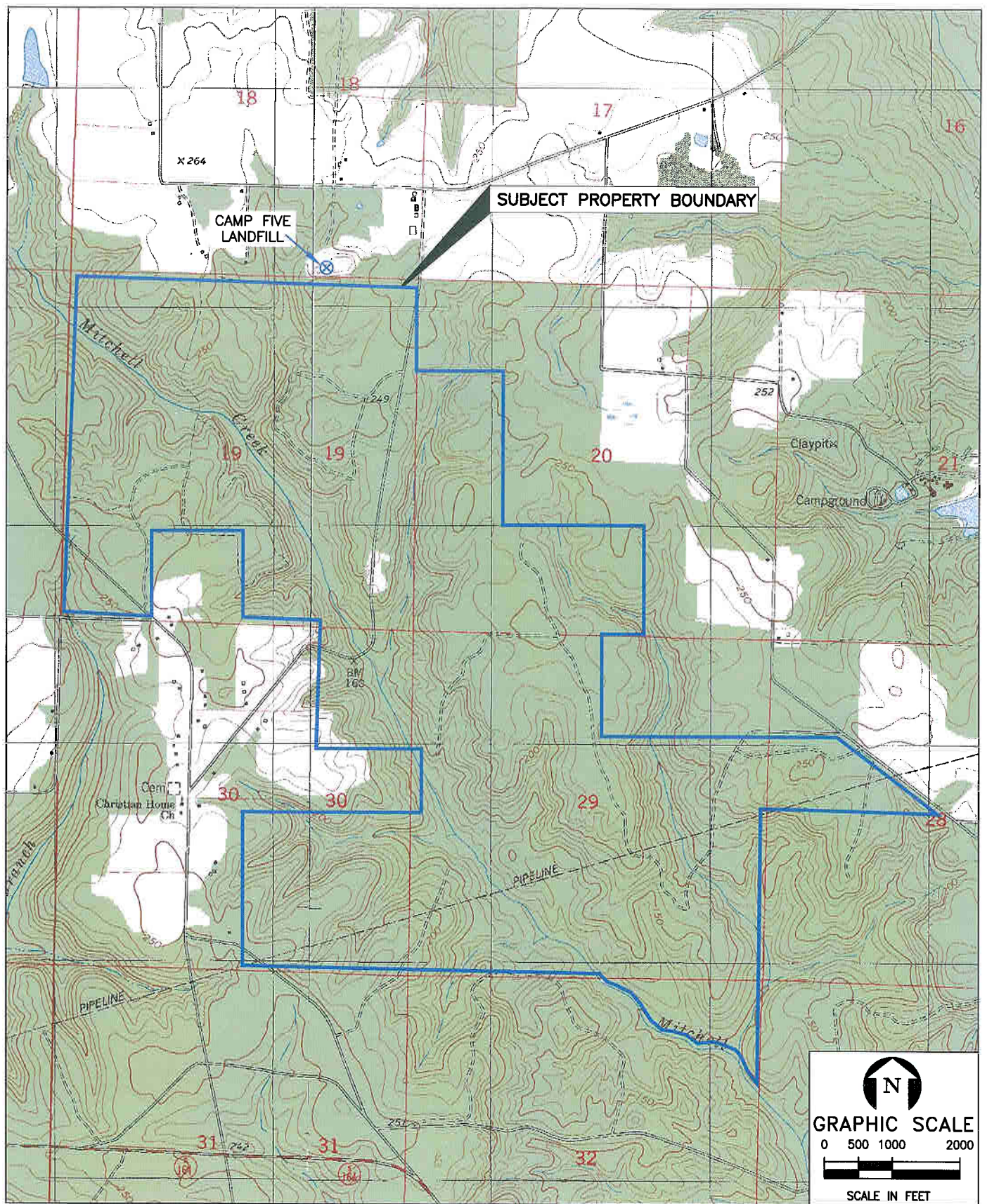


FIGURE 1.  
SITE VICINITY MAP  
CELIA SITE  
ESCAMBIA COUNTY, FLORIDA

Source: ECT, 2009.





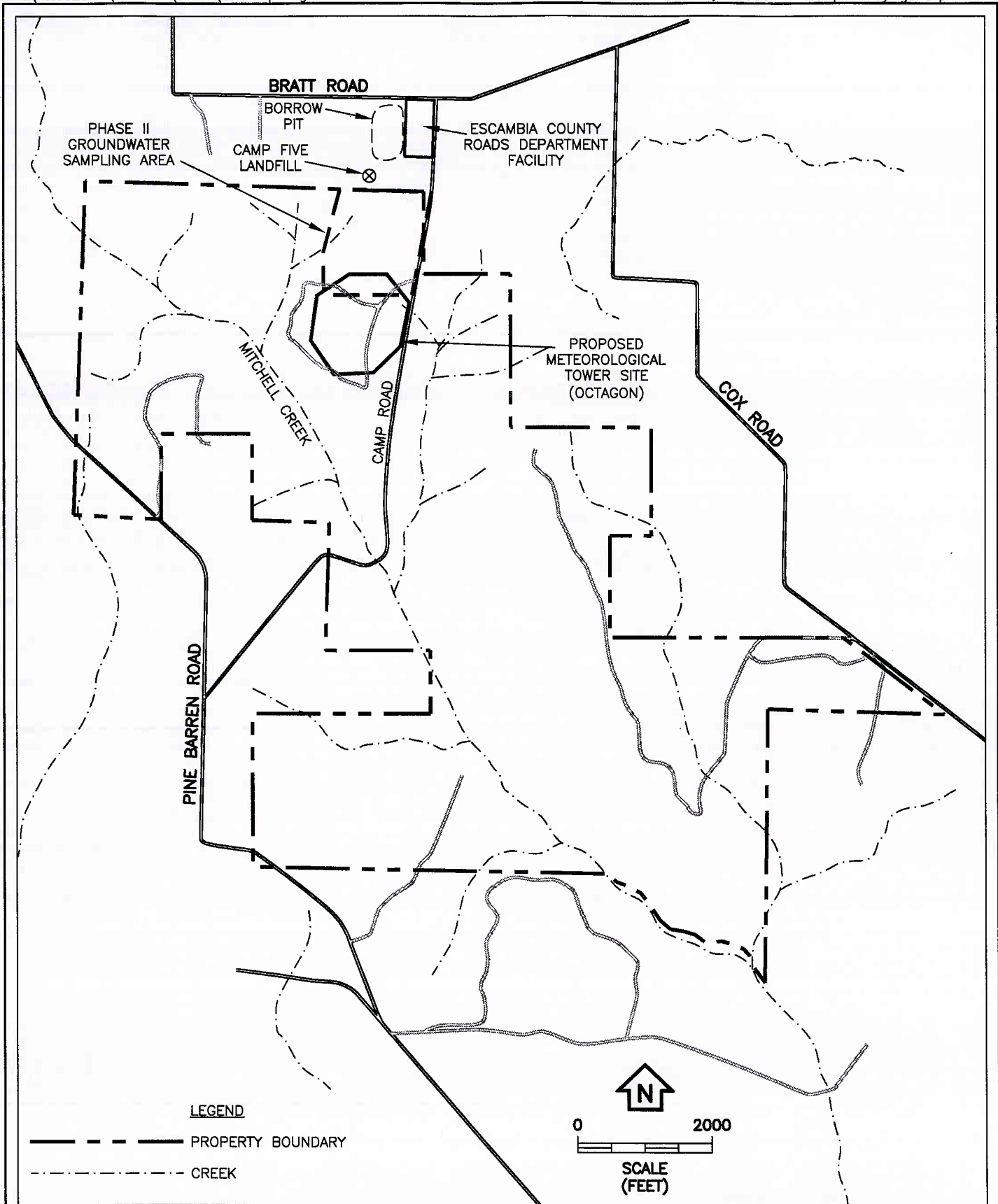
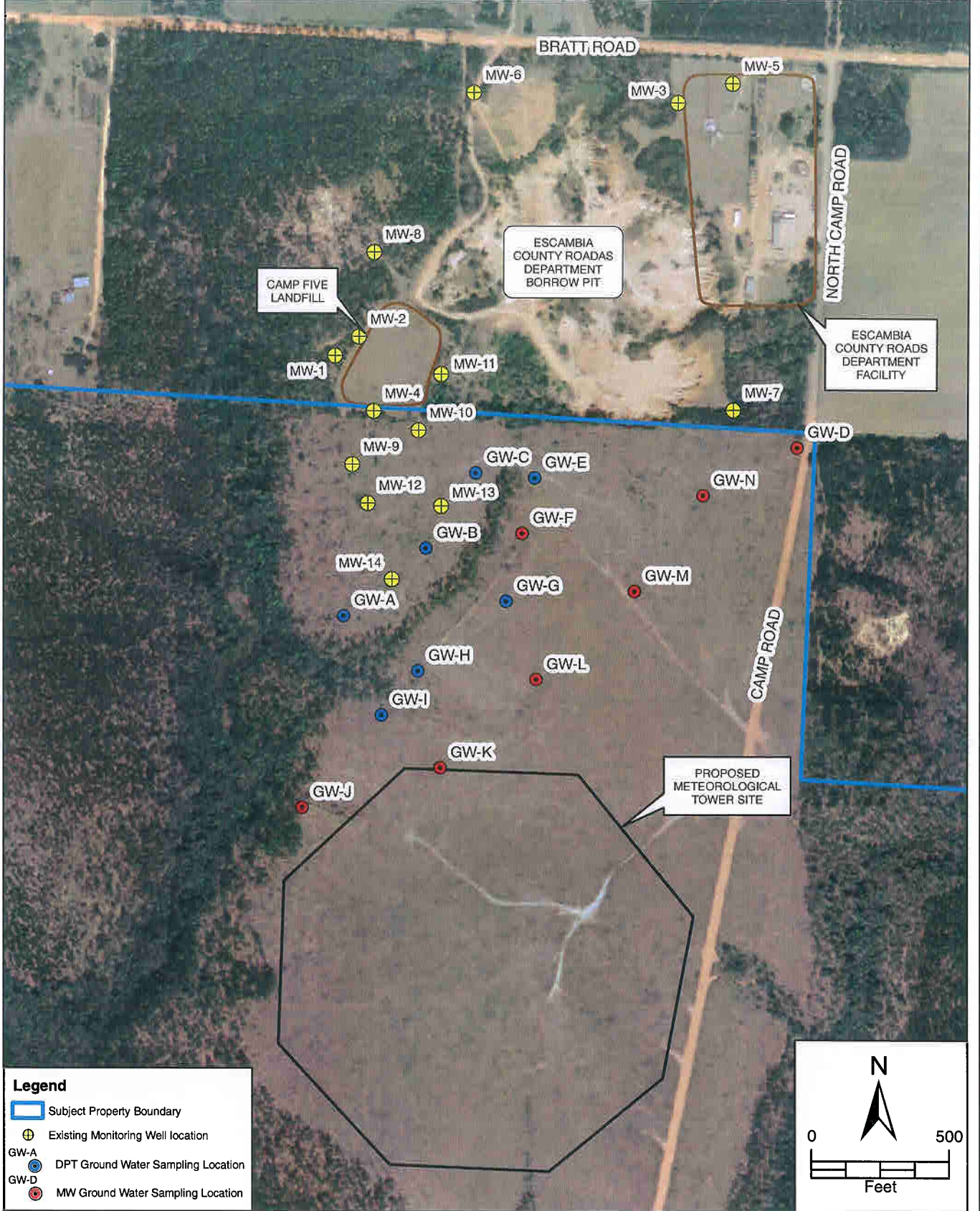


FIGURE 2.  
SITE MAP  
CELIA SITE  
ESCAMBIA COUNTY, FLORIDA

Source: ECT, 2009.

**ECT**  
Environmental Consulting & Technology, Inc.



**FIGURE 3.**  
**GROUND WATER SAMPLING LOCATION MAP**  
**CELIA SITE**  
**ESCAMBIA COUNTY, FLORIDA**

Sources: www.labins.org, Aerial Photograph, 2004; ECT, 2009.

**ECT**  
 Environmental Consulting & Technology, Inc

**ATTACHMENT A**  
**SOIL BORING LOGS**

# BORING LOG

Boring/Well Number: <b>GW-FR</b>		Permit Number: <b>P200901409-12</b>		FDEP Facility Identification Number: <b>N/A</b>	
Site Name: <b>Celia Site</b>		Borehole Start Date: <b>6/2/09</b>	Borehole Start Time: <b>10:00</b>	<input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	End Date: <b>6/2/09</b>
Environmental Contractor: <b>ECT</b>		Geologist's Name: <b>Katy Kitanovski</b>		Environmental Technician's Name: <b>N/A</b>	
Drilling Company: <b>Universal</b>		Pavement Thickness (inches): <b>N/A</b>	Borehole Diameter (inches): <b>4</b>		Borehole Depth (feet): <b>30</b>
Drilling Method(s): <b>HSA</b>	Apparent Borehole DTW (in feet from soil moisture content): <b>28</b>	Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <b>N/A</b> <input type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings (check method(s)): <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input checked="" type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Red-orange fine to medium grained sands loose	Sp	D	
			1				2				
			3				3	SAA		D	
			2				4				
			2				5	SAA		D	
							6				
			2				7	SAA		D	
			5				8				
			10				9	SAA		D	
			4				10				
							11	SAA		M	
			3				12				

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# BORING LOG

Boring/Well Number:		FDEP Facility Identification Number:		Site Name:		Borehole Start Date:		End Date:			
GW-FR		N/A		Celia		6/2/09		6/2/09			
Sample Type	Sample Depth Interval (feet)	Sample Recovery (Inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil or Groundwater Samples (in sample number and depth or temporary acre interval)
			3				13	medium coarse grained sands tan & orange mottled, interspersed w/ riverstone, silts		M	
			5				14				
			6				15	white (barium) clay possible perched water table		M	
							16				
			3				17	SAA			
			4				18			M	
			6				19	SAA w/ mottled orange sandy silty clay		M	
			7				20				
							21	SAA w/ ~50% hard sandy clay orange tan		M	
			5				22				
			6				23				
			6				24	SAA		M	
			9				25	Medium to coarse grained silty sand orange & tan mottled w/ minimal riverstone		W	
							26				
							27				
			3				28	SAA		W	
							29				
			3				30	SAA		S	
			4								

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Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings  
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

# BORING LOG

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Boring/Well Number: <i>GW-FR</i>		Permit Number: <i>See Page 1</i>		FDEP Facility Identification Number: <i>N/A</i>	
Site Name: <i>Celia</i>		Borehole Start Date: <i>6/2/09</i> End Date: <i>6/2/09</i>		Borehole Start Time: <input type="checkbox"/> AM <input type="checkbox"/> PM End Time: <input type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor:		Geologist's Name:		Environmental Technician's Name:	
Drilling Company:		Pavement Thickness (inches):	Borehole Diameter (inches):		Borehole Depth (feet):
Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):		Measured Well DTW (in feet after water recharges in well):		OVA (list model and check type): <input type="checkbox"/> FID <input type="checkbox"/> PID
Disposition of Drill Cuttings (check method(s)): <input type="checkbox"/> Drum <input type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked): see</i>					
Borehole Completion (check one): <input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
			<i>5</i>				<i>31</i>	<i>Medium to coarse grained silty sand orange w/riverstone</i>			
						<i>32</i>					
							<i>33</i>	<i>SAA</i>			
						<i>34</i>					
							<i>35</i>	<i>SAA</i>			
						<i>36</i>					
							<i>37</i>	<i>Set well at 36 ft blr</i>			
							<i>38</i>				
							<i>39</i>				
							<i>40</i>				
							<i>41</i>				

## WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>GW-FR</u>		Site Name: <u>Celia Site</u>		FDEP Facility I.D. Number: <u>N/A</u>	
Well Install Date(s): <u>6/2/09</u>		Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)	
Well Install Method: <u>HSA</u>		Surface Casing Install Method: <u>N/A</u>			
If AG, list feet of riser above land surface:					
Borehole Depth (feet): <u>36</u>	Well Depth (feet): <u>36</u>	Borehole Diameter (inches): <u>4</u>	Manhole Diameter (inches): <u>N/A</u>	Well Pad Size: <u>N/A</u> feet by <u>   </u> feet	
Riser Diameter and Material: <u>2" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>29</u> feet from <u>+3</u> feet to <u>26</u> feet	
Screen Diameter and Material: <u>2" PVC</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>10</u> feet from <u>26</u> feet to <u>36</u> feet	
1 <sup>st</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 <sup>st</sup> Surface Casing I.D. (inches): <u>1.315</u>		1 <sup>st</sup> Surface Casing Length: <u>   </u> feet from <u>0</u> feet to <u>   </u> feet	
2 <sup>nd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 <sup>nd</sup> Surface Casing I.D. (inches): <u>   </u>		2 <sup>nd</sup> Surface Casing Length: <u>   </u> feet from <u>0</u> feet to <u>   </u> feet	
3 <sup>rd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 <sup>rd</sup> Surface Casing I.D. (inches): <u>   </u>		3 <sup>rd</sup> Surface Casing Length: <u>   </u> feet from <u>0</u> feet to <u>   </u> feet	
Filter Pack Material and Size: <u>16/30</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: <u>12</u> feet from <u>24</u> feet to <u>36</u> feet	
Filter Pack Seal Material and Size: <u>30/65</u>		Filter Pack Seal Length: <u>2</u> feet from <u>22</u> feet to <u>24</u> feet			
Surface Seal Material: <u>Grout</u>		Surface Seal Length: <u>   </u> feet from <u>0</u> feet to <u>22</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date: <u>6/3/09</u>		Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <u>Submersible</u> <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Total Development Water Removed (gallons):		Development Duration (minutes): <u>43</u>	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Water Appearance (color and odor) At Start of Development: <u>orange, silty, no odor</u>	
Water Appearance (color and odor) At End of Development: <u>clear, no odor</u>			

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

# ECT WELL CONSTRUCTION INFORMATION

Project No.: <b>090213-0300</b>	Well ID: <b>GW-FR</b>
Project Name: <b>Celia Site</b>	Location (QTR, QTR, S,T,R): Geologist: <b>Katy K.</b>
	Land Surface (ft. ngvd): Measuring Point (ft. ngvd):

DEPTH	SCHEMATIC	BOREHOLE LITHOLOGY	DRILLING & CONSTRUCTION DETAILS
0			Company: <b>Universal</b>
5			Start (d/m/y): <b>02/06/09</b>
10			Permit No.: <b>P200901409-12</b>
15			Finish (d/m/y): <b>02/06/09</b>
20			Drilling Method: <b>HSA</b>
25			Total Depth:
30			Borehole Diameter: <b>4 1/2"</b>
35			Well Diameter: <b>2"</b>
40			Fluid Additives: <b>N/A</b>
45			Screen Interval:
50	<b>MATERIALS</b>		
55	Surface Casing (dia. material connection depth): <b>N/A</b>		
	Casing (dia. material connection depth): <b>2" PVC Flush thread</b>		
	Screen (dia. material slot size depth interval): <b>2" PVC, 0.010 slot</b>		
	Filter pack (size material depth range): <b>16/30 sand</b>		
	Filter pack cap (size material depth range): <b>30/65 sand</b>		
	Completion (protective casing pad): <b>locking cap, ~3' stickup</b>		
	<b>DEVELOPMENT</b>		
	Method and total time: <b>3/06/09 submersible pump</b>		
	Water quality and pumping rate: <b>43 min. until clear</b>		
	<b>TESTING / SAMPLING</b>		
	Static W.L. (btoc) at Time & Date:		
	Specific Capacity (gpm/ft): <b>N/A</b>		
	Soil Sampling:		
	Other: <b>16/30 sand pack 30/65 seal filter</b>		



# BORING LOG

Boring/Well Number: <i>GW-JR</i>		Permit Number: <i>P200901409-12</i>		FDEP Facility Identification Number: <i>N/A</i>	
Site Name: <i>Celia</i>		Borehole Start Date: <i>6/2/09</i> End Date: <i>6/2/09</i>		Borehole Start Time: <i>2:05</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM End Time: <i>3:25</i> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
Environmental Contractor: <i>ECT</i>		Geologist's Name: <i>Katy Kitanovski</i>		Environmental Technician's Name: <i>N/A</i>	
Drilling Company: <i>Universal</i>		Pavement Thickness (inches): <i>N/A</i>	Borehole Diameter (inches): <i>4</i>	Borehole Depth (feet): <i>35</i>	
Drilling Method(s): <i>HSA</i>	Apparent Borehole DTW (in feet from soil moisture content): <i>28</i>	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): <i>N/A</i> <input type="checkbox"/> FID <input type="checkbox"/> PID		
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	<i>orange fine to medium grained sands, loose w/ minimal silt</i>		<i>D</i>	
							2				
							3	<i>SAA</i>			
							4				
							5	<i>SAA</i>			
							6				
							7	<i>SAA</i>			
							8				
							9	<i>SAA</i>			
							10				
							11	<i>SAA</i>			
							12				

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# BORING LOG

Boring/Well Number:		FDEP Facility Identification Number:			Site Name:		Borehole Start Date:		End Date:		
GW-IR		N/A			Celia		6/2/09		6/2/09		
Sample Type	Sample Depth Interval (feet)	Sample Recovery (Inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (No sample number and depth or temporary screen interval)
			3				13				
			4				14	SAA			
			6				15	SAA			
			4				16	to coarse			
			3				17	medium grained sand, loose, interbedded orange tan w/ minimal silts & riverstone			
			4				18				
			8				19	SAA			
			8				20				
			5				21	orange silty clayey sand, loose to medium,			
			2				22				
			3				23	SAA		M	
			3				24				
			3				25	medium to coarse grained orange silty sand		W	
			6				26				
			4				27			W	
			4				28	SAA			
			5				29				
			5				30	SAA		S	

160186-OPC-PCD-90-149

# BORING LOG

Page 3 of 3

Boring/Well Number: <b>GW-JR</b>		Permit Number:		FDEP Facility Identification Number: <b>W/A</b>	
Site Name:		Borehole Start Date: End Date: <b>1</b>		Borehole Start Time: <input type="checkbox"/> AM <input type="checkbox"/> PM End Time: <input type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor:		Geologist's Name: <b>Page</b>		Environmental Technician's Name:	
Drilling Company:		Pavement Thickness (inches): <b>see</b>		Borehole Diameter (inches):	
Drilling Method(s):		Apparent Borehole DTW (in feet from soil moisture content):		Measured Well DTW (in feet after water recharges in well):	
Disposition of Drill Cuttings [check method(s)]:		OVA (list model and check type):		<input type="checkbox"/> FID <input type="checkbox"/> PID	
<i>(describe if other or multiple items are checked):</i>		<input type="checkbox"/> Drum <input type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other			
Borehole Completion (check one):		<input type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)			

Sample Type	Sample Depth Interval (feet)	Sample Recovery (feet)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description <small>(include grain size based on USCS, odors, staining, and other remarks)</small>	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples <small>(list sample number and depth or temporary screen interval)</small>
							31	orange medium to coarse grained silty sand			
							32				
							33	SAA			
							34				
							35	orange medium grained silty sandy clay, stiff			
							36				
							7	Set well at 35 ft 6 in			
							8				
							9				
							10				
							11				
							12				

160186-OPC-POD-90-150

## WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: <u>GW-JR</u>		Site Name: <u>Celia Site</u>		FDEP Facility I.D. Number: <u>N/A</u>	Well Install Date(s): <u>6/2/09</u>
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input type="checkbox"/> Flush-to-Grade If AG, list feet of riser above land surface:			Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>HSA</u>
			Surface Casing Install Method: <u>N/A</u>		
Borehole Depth (feet): <u>35</u>	Well Depth (feet): <u>35</u>	Borehole Diameter (inches): <u>4</u>	Manhole Diameter (inches): <u>N/A</u>	Well Pad Size: <u>N/A</u> feet by <u>   </u> feet	
Riser Diameter and Material: <u>2" PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)	Riser Length: <u>28</u> feet from <u>+3</u> feet to <u>25</u> feet		
Screen Diameter and Material: <u>2" PVC</u>		Screen Slot Size: <u>0.010</u>	Screen Length: <u>10</u> feet from <u>25</u> feet to <u>35</u> feet		
1 <sup>st</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 <sup>st</sup> Surface Casing I.D. (inches): <u>N/A</u>	1 <sup>st</sup> Surface Casing Length: <u>   </u> feet from <u>0</u> feet to <u>   </u> feet		
2 <sup>nd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 <sup>nd</sup> Surface Casing I.D. (inches): <u>   </u>	2 <sup>nd</sup> Surface Casing Length: <u>   </u> feet from <u>0</u> feet to <u>   </u> feet		
3 <sup>rd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 <sup>rd</sup> Surface Casing I.D. (inches): <u>   </u>	3 <sup>rd</sup> Surface Casing Length: <u>   </u> feet from <u>0</u> feet to <u>   </u> feet		
Filter Pack Material and Size: <u>16/30 sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Filter Pack Length: <u>12</u> feet from <u>23</u> feet to <u>35</u> feet		
Filter Pack Seal Material and Size: <u>30/65 sand</u>		Filter Pack Seal Length: <u>2</u> feet from <u>21</u> feet to <u>23</u> feet			
Surface Seal Material: <u>concrete</u>		Surface Seal Length: <u>21</u> feet from <u>0</u> feet to <u>21</u> feet			

WELL DEVELOPMENT DATA			
Well Development Date: <u>6/3/09</u>		Well Development Method (check one): <input type="checkbox"/> Surge/Pump <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet):	
Pumping Rate (gallons per minute):		Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons):	Development Duration (minutes): <u>28</u>	Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: <u>orange, silty, no odor</u>		Water Appearance (color and odor) At End of Development: <u>clear, no odor</u>	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

# ECT WELL CONSTRUCTION INFORMATION

Project No.: <b>090213-0300</b>	Well ID: <b>GW-JR</b>
Project Name: <b>Celia Site</b>	Location (QTR, QTR, S,T,R):
	Geologist: <b>Kathy K.</b>
	Land Surface (ft. ngvd):
	Measuring Point (ft. ngvd):

DEPTH	SCHEMATIC	BOREHOLE LITHOLOGY	DRILLING & CONSTRUCTION DETAILS										
0			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Company: <b>Universal</b></td> <td>Start: (d/m/y) <b>02/06/09</b></td> </tr> <tr> <td>Permit No.: <b>P200901409-12</b></td> <td>Finish: (d/m/y) <b>02/06/09</b></td> </tr> <tr> <td>Drilling Method: <b>HSA</b></td> <td>Total Depth:</td> </tr> <tr> <td>Borehole Diameter: <b>2</b></td> <td>Well Diameter:</td> </tr> <tr> <td>Fluid Additives:</td> <td>Screen Interval:</td> </tr> </table>	Company: <b>Universal</b>	Start: (d/m/y) <b>02/06/09</b>	Permit No.: <b>P200901409-12</b>	Finish: (d/m/y) <b>02/06/09</b>	Drilling Method: <b>HSA</b>	Total Depth:	Borehole Diameter: <b>2</b>	Well Diameter:	Fluid Additives:	Screen Interval:
Company: <b>Universal</b>		Start: (d/m/y) <b>02/06/09</b>											
Permit No.: <b>P200901409-12</b>		Finish: (d/m/y) <b>02/06/09</b>											
Drilling Method: <b>HSA</b>		Total Depth:											
Borehole Diameter: <b>2</b>		Well Diameter:											
Fluid Additives:		Screen Interval:											
				MATERIALS									
				Surface Casing (dia. material. connection. depth): <b>N/A</b>									
				Casing (dia. material. connection. depth): <b>2" PVC, flush thread</b>									
				Screen (dia. material. slot size. depth interval): <b>2" PVC, 0.010</b>									
			Filter pack (size. material. depth range): <b>16/30 sand</b>										
			Filter pack cap (size. material. depth range): <b>30/65 sand</b>										
			Completion (protective casing. pad): <b>3' stickup Grout, locking cap</b>										
			DEVELOPMENT										
			Method and total time: <b>3/06/09 Submersible pump</b>										
			Water quality and pumping rate: <b>28 min. until clear</b>										
			TESTING / SAMPLING										
			Static W.L. (bloc) at Time & Date:										
			Specific Capacity (gpm/ft):										
			Soil Sampling:										
			Other: <b>N/A</b>										

**ATTACHMENT B**  
**GROUNDWATER SAMPLING LOG**

**Form FD 9000-24  
GROUNDWATER SAMPLING LOG**

SITE NAME: <b>G.P.</b>	SITE LOCATION: <b>McDavid Fl</b>
WELL NO:	SAMPLE ID: <b>GW-K</b> DATE: <b>6/9/09</b>

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH:      feet to      feet	STATIC DEPTH TO WATER (feet): <b>29.03</b>	PURGE PUMP TYPE OR BAILER: <b>ESP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY <small>(only fill out if applicable)</small> = ( <b>40.0</b> feet - <b>29.03</b> (OAT) feet ) X <b>.16</b> gallons/foot = <b>1.75</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>(only fill out if applicable)</small>				

WELL PUMP OR TUBING DEPTH IN WELL (feet): <b>32</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>32</b>	PURGING INITIATED AT: <b>0713</b>	PURGING ENDED AT: <b>0803</b>	TOTAL VOLUME PURGED (gallons): <b>10.0</b>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <small>µmhos/cm @ 25°C</small>	DISSOLVED OXYGEN (circle units) <small>mg/L or % saturation</small>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0723	2.0	2.0	.2	29.12	4.18	19.3	19	9.57	20.4	cloudy	none	+250
0733	2.0	4.0	.2	29.11	4.19	19.4	19	9.56	5.93	clear	none	+256
0743	2.0	6.0	.2	29.11	4.22	19.5	19	9.55	3.82	clear	none	+258
0753	2.0	8.0	.2	29.11	4.27	19.5	19	9.54	2.19	clear	none	+258
0803	2.0	10.0	.2	29.11	4.30	19.5	19	9.52	1.24	clear	none	+259

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Breth Scales / RDH</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>0804</b>	SAMPLING ENDED AT: <b>0807</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>32</b>	TUBING MATERIAL CODE: <b>4Hm15</b>	FIELD-FILTERED: <b>Y</b> <b>N</b>	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> <b>N</b>	TUBING <b>Y</b> <input checked="" type="checkbox"/> <b>(replaced)</b>	DUPLICATE: <b>Y</b> <input checked="" type="checkbox"/> <b>N</b>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250	HNO3	free	<2	Iron	ESP	800
	1	PE	500	none		4.30	TDS	ESP	800

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH: ± 0.2 units    Temperature: ± 0.2 °C    Specific Conductance: ± 5%    Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater)    Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>G.P.</u>	SITE LOCATION: <u>McDavid #1</u>
WELL NO: _____	SAMPLE ID: <u>GLL</u> DATE: <u>6/9/09</u>

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): <u>25.75</u>	PURGE PUMP TYPE OR BAILER: <u>ESP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY <small>(only if not applicable)</small> = ( <u>38.50</u> feet - <u>25.75</u> (12.75) feet ) x <u>.16</u> gallons/foot = <u>2.04</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>(only if not applicable)</small> <u>N/A</u> = _____ gallons + ( _____ gallons/foot X _____ feet ) + _____ gallons = _____ gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>28</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>28</u>	PURGING INITIATED AT: <u>0620</u>	PURGING ENDED AT: <u>0959</u>	TOTAL VOLUME PURGED (gallons): <u>19.8</u>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <small>µmhos/cm @ 25°C</small>	DISSOLVED OXYGEN (circle units) <small>(mg/L or % saturation)</small>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
0831	2.2	2.2	.2	25.88	4.52	20.5	15	9.59	44.1	cloudy	none	+252
0842	2.2	4.4	.2	25.87	4.80	20.5	16	9.39	22.4	cloudy	none	+248
0853	2.2	6.6	.2	25.87	5.19	20.5	16	9.41	15.5	cloudy	none	+238
0904	2.2	8.8	.2	25.87	5.72	20.7	16	9.47	9.67	clear	none	+226
0915	2.2	11.0	.2	25.87	5.56	20.8	16	9.47	7.79	clear	none	+224
0926	2.2	13.2	.2	25.87	5.26	20.7	16	9.49	5.27	clear	none	+220
0937	2.2	15.4	.2	25.87	5.04	20.8	16	9.51	3.98	clear	none	+218
0948	2.2	17.6	.2	25.87	5.02	20.8	16	9.51	3.94	clear	none	+218
0959	2.2	19.8	.2	25.87	5.01	20.8	16	9.52	3.90	clear	none	+218

ORP ?

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Brett Surles / RDA</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1000</u>	SAMPLING ENDED AT: <u>1003</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>28</u>	TUBING MATERIAL CODE: <u>4Hm15</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> <small>Filteration Equipment Type:</small>	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> <small>(replaced)</small>	DUPLICATE: Y <input checked="" type="checkbox"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	200ml	HNO3	PRE	2.2	Iron	ESP	800
	1	PE	500ml	none		5.01	TDS	ESP	800

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH: ± 0.2 units    Temperature: ± 0.2 °C    Specific Conductance: ± 5%    Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater)    Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009



Form FD 9000-2  
**GROUNDWATER SAMPLING LOG**

SITE NAME: G.P. SITE LOCATION: M'david  
 WELL NO: \_\_\_\_\_ SAMPLE ID: GW-M DATE: 6/9/09

**PURGING DATA**

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 3/8 WELL SCREEN INTERVAL DEPTH: \_\_\_\_\_ TO WATER (feet): 37.16 STATIC DEPTH TO WATER (feet): 37.16 PURGE PUMP TYPE OR BAILER: ESP  
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 = ( 45.60 feet - 37.16 ( 8.44 ) feet ) X .16 gallons/foot = 1.35 gallons  
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 = N/A = gallons + ( gallons/foot X feet ) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39 PURGING INITIATED AT: 1012 PURGING ENDED AT: 1157 TOTAL VOLUME PURGED (gallons): 21.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (microhm/cm or µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)	
1029	1.4	1.4	.2	37.20	5.16	20.4	21	8.53	108	cloudy	none	+218
1033	2.8	4.2	.2	37.21	6.01	20.7	20	8.61	70.1	cloudy	none	+216
1047	2.8	7.0	.2	37.21	5.76	20.7	20	8.55	45.3	cloudy	none	+237
1101	2.8	9.8	.2	37.21	5.26	20.8	20	8.55	32.9	cloudy	none	+254
1115	2.8	12.6	.2	37.21	4.63	20.9	20	8.51	22.6	cloudy	none	+258
1129	2.8	15.4	.2	37.21	4.31	20.9	20	8.50	14.4	clear	none	+260
1136	1.4	16.8	.2	37.21	4.26	20.9	20	8.48	14.6	clear	none	+260
1143	1.4	18.2	.2	37.21	4.19	21.0	20	8.46	14.1	clear	none	+261
1150	1.4	19.6	.2	37.21	4.15	21.0	20	8.46	13.8	clear	none	+261
1157	1.4	21.0	.2	37.21	4.12	21.1	20	8.45	13.3	clear	none	+262

ORP

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Brett Sikes / RDH SAMPLER(S) SIGNATURE(S): \_\_\_\_\_  
 SAMPLING INITIATED AT: 1158 SAMPLING ENDED AT: 1202  
 PUMP OR TUBING DEPTH IN WELL (feet): 39 TUBING MATERIAL CODE: 4HM15 FIELD-FILTERED: Y N FILTER SIZE: \_\_\_\_\_ µm  
 FIELD DECONTAMINATION: PUMP  N TUBING  Y (replaced) DUPLICATE: Y  N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE Q CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	HNO3	Pre	<2	Iron	ESP	800
	1	PE	500ml	none		4.12	TDS	ESP	800

REMARKS: \_\_\_\_\_  
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: <b>G.P.</b>	SITE LOCATION: <b>Mcdavid Pl</b>
WELL NO:	SAMPLE ID: <b>GW-N</b> DATE: <b>6/9/09</b>

**PURGING DATA**

WELL DIAMETER (Inches): <b>2</b>	TUBING DIAMETER (Inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>46.31</b>	PURGE PUMP TYPE OR BAILER: <b>ESP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY <small>only if not applicable</small> $= (60.10 \text{ feet} - 46.31 \text{ (13.79) feet}) \times 16 \text{ gallons/foot} = 220 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>only if not applicable</small> <b>N/A</b> = gallons + (gallons/foot X feet) + gallons = gallons				
N.A. PUMP OR TUBING DEPTH IN WELL (feet): <b>49</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>49</b>	PURGING INITIATED AT: <b>1215</b>	PURGING ENDED AT: <b>1435</b>	TOTAL VOLUME PURGED (gallons): <b>280</b>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <small>µmhos/cm at 25°C</small>	DISSOLVED OXYGEN (circle units) <small>mg/L or % saturation</small>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
2:27	2.4	2.4	.2	46.55	4.82	22.3	21	8.51	20.6	cloudy	none	+270
2:29	4.0	6.4	.2	46.54	4.88	22.2	21	8.35	26.2	cloudy	none	+274
2:59	2.4	8.8	.2	46.54	4.81	22.1	21	8.39	19.3	cloudy	none	+276
3:01	2.4	11.2	.2	46.54	4.72	22.3	21	8.38	16.0	cloudy	none	+278
3:23	2.4	13.6	.2	46.54	4.51	22.0	21	8.41	8.63	clear	none	+280
3:35	2.4	16.0	.2	46.54	4.44	22.0	21	8.45	8.64	clear	none	+282
3:47	2.4	18.4	.2	46.54	4.39	22.1	21	8.42	8.79	clear	none	+279
3:59	2.4	20.8	.2	46.54	4.27	22.1	21	8.41	8.11	clear	none	+281
4:11	2.4	23.2	.2	46.54	4.21	22.0	21	8.40	7.01	clear	none	+283
4:23	2.4	25.6	.2	46.54	4.18	22.1	21	8.38	5.68	clear	none	+284
4:35	2.4	28.0	.2	46.54	4.17	22.2	21	8.36	5.42	clear	none	+284

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Beth Sures / RTH</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>1436</b>	SAMPLING ENDED AT: <b>1440</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>49</b>	TUBING MATERIAL CODE: <b>44M15</b>	FIELD-FILTERED: <b>Y</b> (N)	FILTER SIZE: <b>   </b> µm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: <b>Y</b> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE C CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	HNO3	Pre	<2	Iron	ESP	800
	1	PE	500ml	none		4.17	TDS	ESP	800

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH: ± 0.2 units    Temperature: ± 0.2 °C    Specific Conductance: ± 5%    Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater)    Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24  
GROUNDWATER SAMPLING LOG**

SITE NAME: <b>G.P.</b>	SITE LOCATION: <b>McDAVID F1</b>
WELL NO:	SAMPLE ID: <b>GW-F</b> DATE: <b>6/9/09</b>

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH:      feet to      feet	STATIC DEPTH TO WATER (feet): <b>28.13</b>	PURGE PUMP TYPE OR BAILER: <b>ESP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <b>= (40.20 feet - 28.13 (207) feet) x .16 gallons/foot = 1.93 gallons</b>				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <b>N/A = gallons + (gallons/foot X feet) + gallons = gallons</b>				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	PURGING INITIATED AT: <b>1450</b>	PURGING ENDED AT: <b>1645</b>	TOTAL VOLUME PURGED (gallons): <b>22.0</b>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1500	2.0	2.0	.2	28.25	4.32	21.3	30	6.95	287	cloudy	none	+250
1520	4.0	6.0	.2	28.29	4.28	21.3	34	7.45	67.7	cloudy	none	+252
1530	2.0	8.0	.2								none	
1545	2.0	10.0	.2	28.29	4.22	20.9	33	8.09	111	cloudy	none	+263
1605	4.0	14.0	.2	28.31	4.16	21.0	34	8.14	14.2	clear	none	+269
1615	2.0	16.0	.2	28.31	4.15	20.9	34	8.24	7.35	clear	none	+271
1625	2.0	18.0	.2	28.31	4.12	20.9	34	8.25	6.74	clear	none	+274
1635	2.0	20.0	.2	28.31	4.12	20.9	34	8.27	6.42	clear	none	+276
1645	2.0	22.0	.2	28.31	4.11	20.8	34	8.27	6.31	clear	none	+276

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.18; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Brett Surles / R20H</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>1646</b>	SAMPLING ENDED AT: <b>1651</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>36</b>	TUBING MATERIAL CODE: <b>4HM15</b>	FIELD-FILTERED: <b>Y (N)</b>	FILTER SIZE: _____ $\mu\text{m}$
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING <input checked="" type="checkbox"/> Y (N/Replaced)	DUPLICATE: <b>Y (N)</b>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	HNO3	pre	<2	metals	ESP	800
	1	PE	500ml	H2SO4	pre	<2	Ammonia N	ESP	800
	1	PE	500ml	none		4.11	TDS	ESP	800

REMARKS: **Pump Stopped @ 15:30 Restart @ 15:35**

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
pH:  $\pm 0.2$  units    Temperature:  $\pm 0.2$  °C    Specific Conductance:  $\pm 5\%$     Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater)    Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: <b>G. P.</b>	SITE LOCATION: <b>McDavid Fl</b>
SAMPLE ID: <b>GW-J</b>	DATE: <b>6/9/09</b>

**PURGING DATA**

TUBING DIAMETER (inches): <b>2</b>	WELL SCREEN INTERVAL DEPTH: <b>3 1/8</b> feet to feet	STATIC DEPTH TO WATER (feet): <b>26.68</b>	PURGE PUMP TYPE OR BAILER: <b>ESP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = ( <b>38.35</b> feet - <b>26.68</b> (11.67) ) feet X <b>1.16</b> gallons/foot = <b>1.86</b> gallons			
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <b>N/A</b> = gallons + ( gallons/foot X feet ) + gallons = gallons			

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	PURGING INITIATED AT: <b>0550</b>	PURGING ENDED AT: <b>0700</b>	TOTAL VOLUME PURGED (gallons): <b>14.0</b>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
0500	2.0	2.0	.2	26.90	4.27	20.2	20	8.92	80.9	cloudy	none	+206
0510	2.0	4.0	.2	26.91	4.06	20.3	20	8.94	21.3	cloudy	none	+223
0520	2.0	6.0	.2	26.91	4.05	20.3	20	8.93	12.7	clear	none	+229
0530	2.0	8.0	.2	26.91	4.09	20.4	20	8.93	6.03	clear	none	+234
0540	2.0	10.0	.2	26.91	4.12	20.5	20	8.92	4.00	clear	none	+235
0550	2.0	12.0	.2	26.91	4.14	20.5	20	8.90	3.25	clear	none	+238
0700	2.0	14.0	.2	26.91	4.16	20.6	20	8.89	2.53	clear	none	+241

ORP

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Brett Soles / RDT</b>	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: <b>0701</b>	SAMPLING ENDED AT: <b>0703</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	TUBING MATERIAL CODE: <b>4HM15</b>	FIELD-FILTERED: <b>Y</b> <input checked="" type="checkbox"/>	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING <b>Y</b> <input checked="" type="checkbox"/> (replaced)	DUPLICATE: <b>Y</b> <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPLE C CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	HNO3	pre	4.2	metals	ESP	800
	1	PE	500ml	None		4.16	TDS	ESP	800
	1	PE	500ml	H2SO4	pre	4.2	Arsenic	ESP	800

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME: <b>G.P.</b>	SITE LOCATION: <b>McDavid fl</b>
WELL NO:	SAMPLE ID: <b>MW-9</b> DATE: <b>6/16/09</b>

**PURGING DATA**

WELL DIAMETER (inches): <b>4</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH:      feet to      feet	STATIC DEPTH TO WATER (feet): <b>38.83</b>	PURGE PUMP TYPE OR BAILER: <b>ESP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( <del>38.83</del> <sup>38.45</sup> feet - <b>38.83</b> (19.92) feet) X <b>.65</b> gallons/foot = <b>12.94</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <b>N/A</b> =      gallons + (      gallons/foot X      feet) +      gallons =      gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>42</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>42</b>	PURGING INITIATED AT: <b>0925</b>	PURGING ENDED AT: <b>1109</b>	TOTAL VOLUME PURGED (gallons): <b>52.0</b>

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
0951	13.0	13.0	.5	39.35	5.77	21.7	100	.78	19.5	cloudy	none	-25
1017	13.0	26.0	.5	39.35	5.71	21.8	95	.91	8.32	clear	none	-10
1043	13.0	39.0	.5	39.35	5.70	21.8	98	.94	6.47	clear	none	-7
1109	13.0	52.0	.5	39.35	5.74	21.8	99	.96	4.88	clear	none	-5

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Erin Sudes / RDH</b>		SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>		SAMPLING INITIATED AT: <b>1110</b>	SAMPLING ENDED AT: <b>1112</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>42</b>		TUBING MATERIAL CODE: <b>4HM15</b>	FIELD-FILTERED: <b>Y</b> <input checked="" type="checkbox"/>	FILTER SIZE: _____ $\mu\text{m}$	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N		TUBING <b>Y</b> <input checked="" type="checkbox"/> (replaced)	DUPLICATE: <b>Y</b> <input checked="" type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE C CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	HNO <sub>3</sub>	Pre	<2	metals	ESP	800
	1	PE	500ml	H <sub>2</sub> SO <sub>4</sub>	Pre	<2	amonia	ESP	800
	1	PE	500ml	none		5.74	TDS	ESP	800

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicons; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
pH:  $\pm 0.2$  units    Temperature:  $\pm 0.2$  °C    Specific Conductance:  $\pm 5\%$     Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater)    Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24  
GROUNDWATER SAMPLING LOG**

SITE NAME: <u>G.P.</u>	SITE LOCATION: <u>McDavid #1</u>
WELL NO:	SAMPLE ID: <u>mw-10</u> DATE: <u>6/10/08</u>

**PURGING DATA**

WELL DIAMETER (inches): <u>4</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH:      feet to      feet	STATIC DEPTH TO WATER (feet): <u>38.15</u>	PURGE PUMP TYPE OR BAILER: <u>ESP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <u>52.70</u> feet - <u>38.15</u> ( <u>14.55</u> ) feet X <u>.65</u> gallons/foot = <u>9.45</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <u>N/A</u> = gallons + (gallons/foot X feet) + gallons = gallons				
N/A PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	PURGING INITIATED AT: <u>1120</u>	PURGING ENDED AT: <u>1240</u>	TOTAL VOLUME PURGED (gallons): <u>40.0</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	10.0	10.0	.5	40.96	6.32	22.4	260	.06	30.2	cloudy	none
	10.0	20.0	.5	41.00	5.71	22.4	250	.04	10.4	clear	none
	10.0	30.0	.5	41.03	5.60	22.4	245	.03	6.42	clear	none
	10.0	40.0	.5	41.05	5.57	22.3	240	.02	4.79	clear	none

ORP  
-21  
-22  
-24  
-26

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.018  
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Earth Sales / RDH</u>	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1241</u>	SAMPLING ENDED AT: <u>1245</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	TUBING MATERIAL CODE: <u>4XN15</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ $\mu\text{m}$
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250ml	HNO <sub>3</sub>	Pre	<2	metals	ESP	800
	1	PE	500ml	H <sub>2</sub> SO <sub>4</sub>	Pre	<2	Ammonia	ESP	800
	1	PE	500ml	none		5.67	TDS	ESP	800

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 82-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH:  $\pm 0.2$  units    Temperature:  $\pm 0.2$  °C    Specific Conductance:  $\pm 5\%$     Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater)    Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24  
GROUNDWATER SAMPLING LOG**

SITE NAME: <b>G.P.</b>	SITE LOCATION: <b>M' David Fl</b>
WELL NO:	SAMPLE ID: <b>MW-13</b> DATE: <b>6/10/09</b>

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>3/8</b>	WELL SCREEN INTERVAL DEPTH:      feet to      feet	STATIC DEPTH TO WATER (feet): <b>33.24</b>	PURGE PUMP TYPE OR BAILER:								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <b>= (67.50 feet - 33.24 (19.26) feet) X .16 gallons/foot = 3.68 gallons</b>												
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <b>N/A = gallons + (gallons/foot X feet) + gallons = gallons</b>												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>35</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>35</b>	PURGING INITIATED AT: <b>0640</b>	PURGING ENDED AT: <b>0744</b>	TOTAL VOLUME PURGED (gallons): <b>12.8</b>								
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or (US/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
<b>0656</b>	<b>3.2</b>	<b>3.2</b>	<b>.2</b>	<b>33.68</b>	<b>4.11</b>	<b>21.5</b>	<b>71</b>	<b>1.94</b>	<b>3.53</b>	<b>clear</b>	<b>none</b>	<b>+260</b>
<b>0712</b>	<b>3.2</b>	<b>6.4</b>	<b>.2</b>	<b>33.69</b>	<b>4.15</b>	<b>21.6</b>	<b>70</b>	<b>1.91</b>	<b>2.40</b>	<b>clear</b>	<b>none</b>	<b>+268</b>
<b>0728</b>	<b>3.2</b>	<b>9.6</b>	<b>.2</b>	<b>33.69</b>	<b>4.21</b>	<b>21.6</b>	<b>70</b>	<b>1.93</b>	<b>1.86</b>	<b>clear</b>	<b>none</b>	<b>+272</b>
<b>0744</b>	<b>3.2</b>	<b>12.8</b>	<b>.2</b>	<b>33.70</b>	<b>4.23</b>	<b>21.7</b>	<b>70</b>	<b>1.94</b>	<b>1.31</b>	<b>clear</b>	<b>none</b>	<b>+275</b>
<small>WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88  TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)</small>												

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Brett Seales / NDH</b>				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <b>0745</b>		SAMPLING ENDED AT: <b>0748</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>35</b>				TUBING MATERIAL CODE: <b>4HM15</b>				FIELD-FILTERED: Y <input checked="" type="checkbox"/>		FILTER SIZE: _____ $\mu\text{m}$	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (N/replaced)				DUPLICATE: Y <input checked="" type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	<b>1</b>	<b>PE</b>	<b>250 mL</b>	<b>HNO<sub>3</sub></b>	<b>ire</b>	<b>&lt;2</b>	<b>metals</b>	<b>ESP</b>	<b>800</b>		
	<b>1</b>	<b>PE</b>	<b>500 mL</b>	<b>H<sub>2</sub>SO<sub>4</sub></b>	<b>ire</b>	<b>&lt;2</b>	<b>Ammonia</b>	<b>ESP</b>	<b>800</b>		
	<b>1</b>	<b>PE</b>	<b>500 mL</b>	<b>none</b>		<b>4.23</b>	<b>TDS</b>	<b>ESP</b>	<b>800</b>		
REMARKS:											
<small>MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)</small>											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
pH:  $\pm 0.2$  units    Temperature:  $\pm 0.2$  °C    Specific Conductance:  $\pm 5\%$     Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater)    Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24  
**GROUNDWATER SAMPLING LOG**

SITE NAME <b>C.P.</b>	SITE LOCATION <b>M'david F1</b>
WELL NO.	SAMPLE ID: <b>mw-14</b> DATE: <b>6/10/09</b>

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>3/16</b>	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): <b>27.25</b>	PURGE PUMP TYPE OR BAILER: <b>ESP</b>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY <small>only fill out if applicable</small> = ( <b>47.25</b> feet - <b>27.25</b> (20.0) feet ) X <b>1.6</b> gallons/foot = <b>3.20</b> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME <small>only fill out if applicable</small> <b>N/A</b> = gallons + ( gallons/foot X feet ) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH - A WELL (feet): <b>30</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	PURGING INITIATED AT: <b>0535</b>	PURGING ENDED AT: <b>0626</b>	TOTAL VOLUME PURGED (gallons): <b>10.2</b>
---	--	-----------------------------------	-------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) $\text{mg/L}$ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
<b>0552</b>	<b>3.4</b>	<b>3.4</b>	<b>.2</b>	<b>28.20</b>	<b>3.84</b>	<b>21.5</b>	<b>37</b>	<b>4.97</b>	<b>5.95</b>	<b>clear</b>	<b>none</b>	<b>+186</b>
<b>0609</b>	<b>3.4</b>	<b>6.8</b>	<b>.1</b>	<b>28.15</b>	<b>3.87</b>	<b>21.8</b>	<b>37</b>	<b>7.00</b>	<b>3.13</b>	<b>clear</b>	<b>none</b>	<b>+193</b>
<b>0626</b>	<b>3.4</b>	<b>10.2</b>	<b>.2</b>	<b>28.13</b>	<b>3.90</b>	<b>21.9</b>	<b>37</b>	<b>7.05</b>	<b>2.44</b>	<b>clear</b>	<b>none</b>	<b>+197</b>

**ORP**  
**+186**  
**+193**  
**+197**

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.68  
 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; **ESP** = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Beth Sinks RDH</b>	SAMPLER(S) SIGNATURE: <i>[Signature]</i>	SAMPLING INITIATED AT: <b>0627</b>	SAMPLING ENDED AT: <b>0630</b>
PUMP OR TUBING DEPTH IN WELL (feet): <b>30</b>	TUBING MATERIAL CODE: <b>4HM15</b>	FIELD-FILTERED: <b>Y</b> <input checked="" type="checkbox"/> <b>N</b> <input type="checkbox"/>	FILTER SIZE: _____ $\mu\text{m}$
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> <b>N</b> TUBING <input checked="" type="checkbox"/> <b>Y</b> <input type="checkbox"/> <b>N</b> (replaced)	DUPLICATE: <b>Y</b> <input checked="" type="checkbox"/> <b>N</b> <input type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml. per minute)
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml.)	FINAL pH			
	<b>1</b>	<b>PE</b>	<b>250ml</b>	<b>HNO3</b>	<b>Pre</b>	<b>&lt;2</b>	<b>metals</b>	<b>ESP</b>	<b>800</b>
	<b>1</b>	<b>PE</b>	<b>500ml</b>	<b>H2SO4</b>	<b>.5ml</b>	<b>&lt;2</b>	<b>Amelia</b>	<b>ESP</b>	<b>800</b>
	<b>1</b>	<b>PE</b>	<b>500ml</b>	<b>NONE</b>		<b>3.90</b>	<b>TDS</b>	<b>ESP</b>	<b>800</b>

REMARKS:

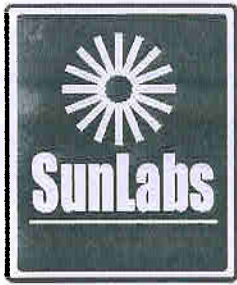
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
 pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

Revision Date: February 12, 2009



**ATTACHMENT C**  
**LABORATORY ANALYTICAL REPORT**



June 17, 2009

Katy Kitanovski  
Environmental Consulting & Technology, Inc.  
1408 N Westshore Blvd., Suite 115  
Tampa, FL 33607

Re: SunLabs Project Number: **090611.02**  
Client Project Description: **Celia Site**

Dear Ms. Kitanovski:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
85650	GW-J	6/9/2009
85651	GW-K	6/9/2009
85652	GW-L	6/9/2009
85653	GW-M	6/9/2009
85654	GW-N	6/9/2009
85655	GW-F	6/9/2009
85656	MW-14	6/10/2009
85657	MW-13	6/10/2009
85658	MW-9	6/10/2009
85659	MW-10	6/10/2009

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E84167.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer  
Vice President, Laboratory Operations

Enclosures

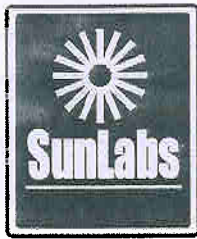
SunLabs, Inc.  
5460 Beaumont Center Blvd., Suite 520  
Tampa, FL 33634

Cover Page 1 of 1

Unless Otherwise Noted and Where Applicable:

Phone: (813) 881-9401  
Email: [Info@SunLabsInc.com](mailto:Info@SunLabsInc.com)  
Website: [www.SunLabsInc.com](http://www.SunLabsInc.com)

These samples were received at the proper temperature and were analyzed as received. The results herein relate only to the items tested or to the samples as received by the laboratory. This report shall not be reproduced except in full, without the written approval of the laboratory. Results for all solid matrices are reported on a dry weight basis. All samples will be disposed of within 45 days of the date of receipt of the samples. All samples in the body of the report are environmental samples. All results in the Quality Control (QC) section are labeled appropriately. All results meet the requirements of the NELAC standards. Footnotes are given at the end of the report. Uncertainty values are available upon request.



# Report of Laboratory Analysis

SunLabs  
Project Number  
**090611.02**

Environmental Consulting &  
Technology, Inc.  
Project Description  
**Celia Site**

June 17, 2009

SunLabs Sample Number **85650**  
Sample Designation **GW-J**

Matrix Groundwater  
Date Collected 6/9/2009 07:01  
Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		6/12/2009						06/12/09 09:00
Date Analyzed			6/14/2009	1				06/14/09 15:17	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	06/14/09 15:17	06/12/09 09:00
Chromium	6010	mg/L	0.0035 U	1	0.0035	0.014	7440-47-3	06/14/09 15:17	06/12/09 09:00
Iron	6010	mg/L	0.062	1	0.0023	0.0092	7439-89-6	06/12/09 18:23	06/12/09 09:00
Lead	6010	mg/L	0.0044 U	1	0.0044	0.018	7439-92-1	06/14/09 15:17	06/12/09 09:00
<b>Ammonia</b>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.005 U	1	0.005	0.020		06/15/09 14:19	
<b>Mercury</b>									
Date Digested	7470		6/12/2009						06/12/09 10:45
Date Analyzed	7470		6/16/2009	1				06/16/09 15:02	
Mercury	7470	mg/L	0.0002 U	1	0.0002	0.0008	7439-97-6	06/16/09 15:02	06/12/09 10:45
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	32	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

SunLabs Project Number	Environmental Consulting & Technology, Inc.
<b>090611.02</b>	Project Description
	<b>Celia Site</b>

June 17, 2009

SunLabs Sample Number **85651**  
 Sample Designation **GW-K**

Matrix Groundwater  
 Date Collected 6/9/2009 08:04  
 Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Iron</b>									
Date Digested	3005		6/12/2009						06/12/09 09:00
Date Analyzed	6010		6/12/2009	1				06/12/09 18:42	
Iron	6010	mg/L	0.032	1	0.0024	0.0096	7439-89-6	06/12/09 18:42	06/12/09 09:00
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	8 I	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

SunLabs Project Number	Environmental Consulting & Technology, Inc.
<b>090611.02</b>	Project Description
	<b>Celia Site</b>

June 17, 2009

SunLabs Sample Number **85652**  
 Sample Designation **GW-L**

Matrix Groundwater  
 Date Collected 6/9/2009 10:00  
 Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Iron</b>									
Date Digested	3005		6/12/2009						06/12/09 09:00
Date Analyzed	6010		6/12/2009	1				06/12/09 18:45	
Iron	6010	mg/L	0.026	1	0.0024	0.0096	7439-89-6	06/12/09 18:45	06/12/09 09:00
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	7.26 U	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

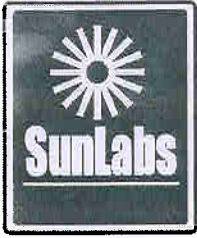
SunLabs Project Number	<b>Environmental Consulting &amp; Technology, Inc.</b>
<b>090611.02</b>	Project Description
	<b>Celia Site</b>

June 17, 2009

SunLabs Sample Number **85653**  
 Sample Designation **GW-M**

Matrix Groundwater  
 Date Collected 6/9/2009 11:58  
 Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Iron</b>									
Date Digested	3005		6/12/2009						06/12/09 09:00
Date Analyzed	6010		6/12/2009	1				06/12/09 18:47	
Iron	6010	mg/L	0.19	1	0.0024	0.0096	7439-89-6	06/12/09 18:47	06/12/09 09:00
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	40	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

SunLabs  
Project Number  
**090611.02**

Environmental Consulting &  
Technology, Inc.  
Project Description  
**Celia Site**

June 17, 2009

SunLabs Sample Number **85654**  
Sample Designation **GW-N**

Matrix Groundwater  
Date Collected 6/9/2009 14:36  
Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Iron</b>									
Date Digested	3005		6/12/2009						06/12/09 09:00
Date Analyzed	6010		6/12/2009	1				06/12/09 18:50	
Iron	6010	mg/L	0.14	1	0.0024	0.0096	7439-89-6	06/12/09 18:50	06/12/09 09:00
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	32	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

SunLabs Project Number <b>090611.02</b>	Environmental Consulting & Technology, Inc. Project Description <b>Celia Site</b>
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June 17, 2009

SunLabs Sample Number **85655**  
 Sample Designation **GW-F**

Matrix Groundwater  
 Date Collected 6/9/2009 16:46  
 Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		6/12/2009						06/12/09 09:00
Date Analyzed			6/14/2009	1				06/14/09 15:42	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	06/14/09 15:42	06/12/09 09:00
Chromium	6010	mg/L	0.0035 U	1	0.0035	0.014	7440-47-3	06/14/09 15:42	06/12/09 09:00
Iron	6010	mg/L	0.077	1	0.0023	0.0092	7439-89-6	06/12/09 18:26	06/12/09 09:00
Lead	6010	mg/L	0.0044 U	1	0.0044	0.018	7439-92-1	06/14/09 15:42	06/12/09 09:00
<b>Ammonia</b>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.005 U	1	0.005	0.020		06/15/09 14:19	
<b>Mercury</b>									
Date Digested	7470		6/12/2009						06/12/09 10:45
Date Analyzed	7470		6/16/2009	1				06/16/09 15:02	
Mercury	7470	mg/L	0.0002 U	1	0.0002	0.0008	7439-97-6	06/16/09 15:02	06/12/09 10:45
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	40	1	7.26	29.04		06/15/09 16:00	

SunLabs, Inc.  
 5460 Beaumont Center Blvd., Suite 520  
 Tampa, FL 33634

Laboratory ID Number - E84809

Phone: (813) 881-9401  
 Email: Info@SunLabsInc.com  
 Website: www.SunLabsInc.com





# Report of Laboratory Analysis

SunLabs Project Number	Environmental Consulting & Technology, Inc.
<b>090611.02</b>	Project Description
	<b>Celia Site</b>

June 17, 2009

SunLabs Sample Number **85656**  
 Sample Designation **MW-14**

Matrix Groundwater  
 Date Collected 6/10/2009 06:27  
 Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		6/12/2009						06/12/09 09:00
Date Analyzed			6/14/2009	1				06/14/09 15:45	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	06/14/09 15:45	06/12/09 09:00
Chromium	6010	mg/L	0.0035 U	1	0.0035	0.014	7440-47-3	06/14/09 15:45	06/12/09 09:00
Iron	6010	mg/L	0.23	1	0.0023	0.0092	7439-89-6	06/12/09 18:28	06/12/09 09:00
Lead	6010	mg/L	0.0044 U	1	0.0044	0.018	7439-92-1	06/14/09 15:45	06/12/09 09:00
<b>Ammonia</b>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.005 U	1	0.005	0.020		06/15/09 14:19	
<b>Mercury</b>									
Date Digested	7470		6/12/2009						06/12/09 10:45
Date Analyzed	7470		6/16/2009	1				06/16/09 15:02	
Mercury	7470	mg/L	0.0002 U	1	0.0002	0.0008	7439-97-6	06/16/09 15:02	06/12/09 10:45
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	40	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

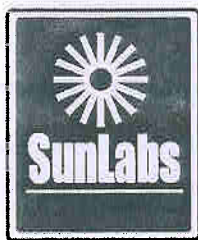
SunLabs Project Number	Environmental Consulting & Technology, Inc.
<b>090611.02</b>	Project Description <b>Celia Site</b>

June 17, 2009

SunLabs Sample Number **85657**  
Sample Designation **MW-13**

Matrix Groundwater  
Date Collected 6/10/2009 07:45  
Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		6/12/2009						06/12/09 09:00
Date Analyzed			6/14/2009	1				06/14/09 15:49	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	06/14/09 15:49	06/12/09 09:00
Chromium	6010	mg/L	0.0035 U	1	0.0035	0.014	7440-47-3	06/14/09 15:49	06/12/09 09:00
Iron	6010	mg/L	0.033	1	0.0023	0.0092	7439-89-6	06/12/09 18:31	06/12/09 09:00
Lead	6010	mg/L	0.0044 U	1	0.0044	0.018	7439-92-1	06/14/09 15:49	06/12/09 09:00
<b>Ammonia</b>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.020	1	0.005	0.020		06/15/09 14:19	
<b>Mercury</b>									
Date Digested	7470		6/12/2009						06/12/09 10:45
Date Analyzed	7470		6/16/2009	1				06/16/09 15:02	
Mercury	7470	mg/L	0.0002 U	1	0.0002	0.0008	7439-97-6	06/16/09 15:02	06/12/09 10:45
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	52	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

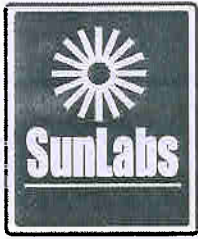
SunLabs Project Number <b>090611.02</b>	Environmental Consulting & Technology, Inc. Project Description <b>Celia Site</b>
---	--

June 17, 2009

SunLabs Sample Number **85658**  
Sample Designation **MW-9**

Matrix Groundwater  
Date Collected 6/10/2009 11:10  
Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		6/12/2009						06/12/09 09:00
Date Analyzed			6/14/2009	1				06/14/09 16:03	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	06/14/09 16:03	06/12/09 09:00
Chromium	6010	mg/L	0.0035 U	1	0.0035	0.014	7440-47-3	06/14/09 16:03	06/12/09 09:00
Iron	6010	mg/L	16	5	0.012	0.046	7439-89-6	06/12/09 18:54	06/12/09 09:00
Lead	6010	mg/L	0.0044 U	1	0.0044	0.018	7439-92-1	06/14/09 16:03	06/12/09 09:00
<b>Ammonia</b>									
Nitrogen Ammonia (as N)	350.2	mg/L	1.03	1	0.005	0.020		06/15/09 14:19	
<b>Mercury</b>									
Date Digested	7470		6/12/2009						06/12/09 10:45
Date Analyzed	7470		6/16/2009	1				06/16/09 15:02	
Mercury	7470	mg/L	0.0002 U	1	0.0002	0.0008	7439-97-6	06/16/09 15:02	06/12/09 10:45
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09	S7	1			06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	68	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

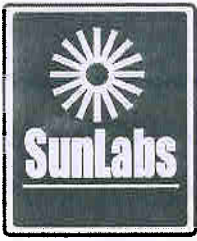
SunLabs Project Number <b>090611.02</b>	Environmental Consulting & Technology, Inc. Project Description <b>Celia Site</b>
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June 17, 2009

SunLabs Sample Number **85659**  
Sample Designation **MW-10**

Matrix Groundwater  
Date Collected 6/10/2009 12:41  
Date Received 6/11/2009 08:00

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<b>Metals by EPA Method 6010</b>									
Date Digested	3010		6/12/2009						06/12/09 09:00
Date Analyzed			6/14/2009	1				06/14/09 16:38	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	06/14/09 16:07	06/12/09 09:00
Chromium	6010	mg/L	0.0035 U	1	0.0035	0.014	7440-47-3	06/14/09 16:07	06/12/09 09:00
Iron	6010	mg/L	16	5	0.012	0.046	7439-89-6	06/12/09 18:57	06/12/09 09:00
Lead	6010	mg/L	0.0044 U	1	0.0044	0.018	7439-92-1	06/14/09 16:38	06/12/09 09:00
<b>Ammonia</b>									
Nitrogen Ammonia (as N)	350.2	mg/L	3.88	1	0.005	0.020		06/15/09 14:19	
<b>Mercury</b>									
Date Digested	7470		6/12/2009						06/12/09 10:45
Date Analyzed	7470		6/16/2009	1				06/16/09 15:02	
Mercury	7470	mg/L	0.0002 U	1	0.0002	0.0008	7439-97-6	06/16/09 15:02	06/12/09 10:45
<b>Total Dissolved Solids</b>									
Date Analyzed			6/15/09 S7	1				06/15/09 16:00	
Total Dissolved Solids	SM2540C	mg/L	136	1	7.26	29.04		06/15/09 16:00	



# Report of Laboratory Analysis

SunLabs  
Project Number

**090611.02**

Environmental Consulting &  
Technology, Inc.

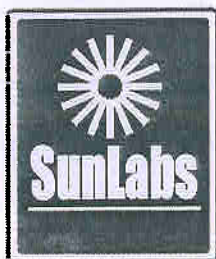
Project Description

**Celia Site**

June 17, 2009

## Footnotes

- \* *SunLabs is not currently NELAC certified for this analyte.*
- I *The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.*
- LCS *Laboratory Control Sample*
- LCSD *Laboratory Control Sample Duplicate*
- MB *Method Blank*
- MS *Matrix Spike*
- MSD *Matrix Spike Duplicate*
- NA *Sample not analyzed at client's request.*
- RL *RL(reporting limit) = PQL(practical quantitation limit).*
- RPD *Relative Percent Difference*
- S7 *This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167.*
- U *Compound was analyzed for but not detected.*
- V *Indicates that the analyte was detected in both the sample and the associated method blank.*



# Quality Control Data

Project Number  
**090611.02**

Environmental Consulting &

Project Description  
**Celia Site**

June 17, 2009

Batch No: **C9546**

Test: **Metals by EPA Method 6010**

TestCode: 6010-L

Associated Samples

85650, 85651, 85652, 85653, 85654, 85655, 85656, 85657, 85658, 85659

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	---QC Limits---		MS Spike	MS %Rec	MSD %Rec	RPD %	---QC Limits---		Dup RPD	Qualifiers
						RPD	LCS					RPD	MS		
<i>Parent Sample Number</i>		<i>85650 85650</i>													
Arsenic	0.0048 U	1000	100	101	1	8	88-112	1000	103	100	3	8	78-117		
Barium	0.001 U	1000	93	94	1	10	87-116	1000	96	96	0	11	70-120		
Cadmium	0.0006 U	1000	95	96	1	3	87-110	1000	98	97	1	10	73-116		
Chromium	0.0035 U	1000	100	99	1	10	91-112	1000	101	102	1	4	70-122		
Iron	0.0023 U	1000	91	91	0	20	80-126	1000	95	93	2	55	0-289		
Lead	0.0044 U	1000	99	100	1	8	87-113	1000	101	100	1	10	64-118		
Selenium	0.0047 U	1000	100	99	1	4	88-110	1000	102	103	1	6	81-114		
Silver	0.0033 U	1000	93	92	1	10	85-111	1000	96	95	1	6	74-114		

Batch No: **C9555**

Test: **Mercury**

TestCode: Hg-L

Associated Samples

85650, 85655, 85656, 85657, 85658, 85659

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	---QC Limits---		MS Spike	MS %Rec	MSD %Rec	RPD %	---QC Limits---		Dup RPD	Qualifiers
						RPD	LCS					RPD	MS		
<i>Parent Sample Number</i>		<i>85655 85655</i>													
Date Digested	3/12/2009 U														
Date Analyzed	3/16/2009 U														
Mercury	0.0002 U	5.0	97	93	4	11	81-118	5.0	108	95	13	17	67-126		

\* indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

### Footnotes

U Compound was analyzed for but not detected.

SunLabs, Inc.  
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Tampa, FL 33634

Laboratory ID Number - E84809

Page QC-1 of 1

Phone: (813) 881-9401  
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Website: www.SunLabsInc.com

SunLabs, Inc. Chain of Custody

NO 21457

Client Name: EOT

SunLabs Project #

090611.02

Project Name: Celia Site

Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone / Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Sample #	Sample Description	Sample Date	Sample Time	# of Bottles	Analysis / Method Requested
851050	GW-J	6/9/09	0701	3	Total Iron
851051	GW-K	6/9/09	0804	2	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851052	GW-L	6/9/09	1000	2	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851053	GW-M	6/9/09	1158	2	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851054	GW-N	6/9/09	1436	2	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851055	GW-F	6/9/09	1414	3	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851056	MW-14	6/10/09	0627	3	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851057	MW-13	6/10/09	0745	3	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851058	MW-9	6/10/09	1110	3	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S
851059	MW-10	6/10/09	1241	3	As, Pb, Cd, Hg, Ni, Cr, Mn, Fe, Zn, Cu, V, Se, Mo, U, W, B, Cl, F, S, P, T, N, S, P, S

Due Date Requested: 5-7 day turnaround  
 FDEP Preapproval site  
 Current rates  Old rates  
 Cash rates  
 Remarks / Comments:

Sampler Signature / Date:	Printed Name / Affiliation:	Internal Use Only	Relinquished By:	Relinquished To:	Date:	Time:
<u>Brett Sales / 6/10/09</u>	<u>Brett Sales / R2H Env</u>	Sample Condition Used? <u>Y/N/NA</u> Custody Seals present? <u>Y/N/NA</u> Shipping Bills attached? <u>Y/N/NA</u> S sample containers intact? <u>Y/N/NA</u> Samples within holding times? <u>Y/N/NA</u> Sufficient volume for all analyses? <u>Y/N/NA</u> Are vials head-space free? <u>Y/N/NA</u> Proper containers and preservatives? <u>Y/N/NA</u>	<u>WPS</u>	<u>WPS</u>	<u>6/11/09</u>	<u>8:00</u>

SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES.

Bottle Type Codes: GV = Glass Vial, GA = Glass Amber, P = Plastic, S = Soil Jar  
 Matrix Codes: A = Air, DW = Drinking Water, GW = Ground Water, SE = Sediment  
 Preservative Codes: H = Hydrochloric Acid + Ica, GA = Glass Amber, P = Plastic, S = Soil Jar  
 Internal Use Only: Sample Condition Used?, Custody Seals present?, Shipping Bills attached?, S sample containers intact?, Samples within holding times?, Sufficient volume for all analyses?, Are vials head-space free?, Proper containers and preservatives?

Relinquished By: WPS Date: 6/11/09 Time: 8:00  
 Relinquished To: WPS Date: \_\_\_\_\_ Time: \_\_\_\_\_

SunLabs, Inc.  
 5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634  
 Phone: 813-881-9401 / Fax: 813-354-4661  
 e-mail: info@SunLabsInc.com www.SunLabsInc.com