

LOW- SCORED SITE INITIATIVE PROGRAM SITE ASSESSMENT REPORT

City of Gainesville Regional Transit System
100 SE 10th Avenue
Gainesville, FL
Facility ID#01/85\$8076

Prepared For:
City of Gainesville Regional Transit System
Mr. Paul Starling

And

FDEP
Petroleum Cleanup Section 5
Mr. Vince Molosky
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508-A Capital Circle S.E.
Tallahassee, FL 32301

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STORAGE STATEMS

RECEIVED

DEPARTMENT OF
ENVIRONMENT OL PROTECTION

Prepared By:
AAG Environmental, Inc
P.O. Box 959
Newberry, FL 32669

August 22, 2011

PROFESSIONAL GEOLOGIST CERTIFICATION

This Low-Scored Site Initiative (LSSI) Program Site Assessment Report (SAR) and associated analytical data for the City of Gainesville RTS Site, 100 S.E 10th Avenue, Gainesville, Alachua County, Florida was reviewed by Robert J. Momberger (Florida P.G. #439), AAG Environmental, Inc. This work appears to comply with the current standards and practices exercised in the handling of SARs in the State of Florida. A monitor well abandonment completion report has also been included in this SAR. This site is recommended for a Site Rehabilitation Completion Order (SRCO)

These professional services have been performed using the degree of care and skill exercised under similar circumstances by other geologists, hydrogeologists and engineers practicing in this field. No other warranty, expressed or implied, is made as to the professional advice in this report.

emberger, P.G. No. 439

geologist

1.0 INTRODUCTION

The City of Gainesville Regional Transit System (RTS) site located at 100 S.E. 10th Avenue, Gainesville, Alachua County, Florida, was approved as an Early Detection Incentive (EDI) Program site in 1987 with a FDEP Facility ID#01/8518076.

The City of Gainesville RTS filed a Discharge Notification Form (DNF) in February 2, 1987 reporting "positive test results on January 5, 1987 from a vapor gas monitoring probe" in the area of vent pipes near a 10,000-gallon (gal) diesel UST. Also, during a replacement of a concrete tank fueling station pad in January 5, 1988, petroleum vapors were detected and Photovac TIP readings of 136 and 155 ppm were measured in the soil. As it was an EDI Site, the City of Gainesville was instructed by FDEP to return the soil to the excavation (see January 14, 1988 RTS letter). The diesel UST and a 10,000-gal premium unleaded UST were removed on March 31, 1991. Also a 500 gal waste oil UST was reportedly removed at the same time. A site map along with historical site information is included in Attachment A.

In 2011, the Florida Legislature authorized the FDEP Bureau of Petroleum Storage Systems (BPSS) to provide funding for a Low-Scored Site Initiative (LSSI) Program to establish procedures for sites with a priority ranking score of 10 points or less. The procedural and technical guidance for the LSSI Program became effective February 21, 2011. An abbreviated site assessment (of six months or less) meeting certain conditions would enable the FDEP to issue three qualifying designations for an LSSI site:

- if no contamination is detected, a Site Rehabilitation Completion Order (SRCO)
- if minimal contamination is detected, an LSSI No Further Action (LSSI NFA)
- if minimal contamination is detected and institutional or engineering controls are necessary, a LSSI NFA with Conditions Administrative Order (LSSI NFAC).

There is also the option for the owner of a LSSI site to have the site be returned to the original program (with the same priority ranking score) and discontinue the site assessment if the owner does not wish to accept a particular LSSI designation.

Since it has been over 24 years since potentially contaminated soil was detected and twenty years since the potential source (UST/Dispensers/Lines) was removed at the Gainesville RTS site, it was reasonable to assume that bio-degradation has occurred and the site may qualify for a Site Rehabilitation Cleanup Order (SRCO) or an LSSI No Further Action (NFA). If it became apparent that the LSSI conditions (a through f) would not be met for the SRCO or LSSI NFA, all work would be stopped as the City of Gainesville did not want to accept an LSSI NFA with Conditions (NFAC). The proposed assessment activities for this LSSI site were to center near the former diesel UST and vent location.

This LSSI Site Assessment Report (SAR) details the activities performed by AAG Environmental, Inc (AAG) as provided by Work Order (WO) #2011-95-W94266. All work was performed in accordance with Chapter 62-770 F.A.C., BPSS 10/08 SOP, DEP SOP 001/01 and the 2/21/11 LSSI guidance.

Figure 1 shows the Gainesville RTS location on a quadrangle map, Figure 2 shows the site on an aerial map, Figure 3 shows the soil boring and monitor well locations, Figure 4 shows the soil sample locations with analytical data and Figure 5 shows the monitor well location with analytical data.

Table 1 provides the site analytical data, Table 2 provides the soil analytical data and Table 3 provides the soil screening summary.

Appendix A contains site historical information. Appendix B contains the soil and groundwater analytical data, chain-of-custodies, field equipment calibration forms and groundwater sampling logs. Appendix C contains the soil boring logs, well construction and development log, well completion report and well abandonment report.

2.0 LSSI FIELD ACTIVITIES

On June 3, 2011, an AAG geologist and technician performed 10 direct push technology (DPT) borings to the water table (generally about 9 to 10 ft), recording organic vapor analyses (OVA) readings with a photo-ionization detector (PID) at every one-ft interval. The borings were made in and around the former UST pit and vent area to the west of the former USTs (Figure 1). AAG also installed one monitor well (MW1) adjacent to the boring with the highest OVA reading to a 15 ft depth; the well was constructed of one inch outer diameter PVC with 10 ft of pre-filter packed screen and 5 ft of solid PVC casing. The well was completed below grade with a man-hole cover. Environmental Drilling Services, Inc (EDS) provided the DPT drilling rig and drilling services.

AAG collected three soil samples; two in the upper two ft of the soil with the highest OVA readings and one below two ft at the highest OVA reading. The samples were delivered in a cooler on ice to Advanced Environmental Laboratories (AEL) to be analyzed for BTEX/MTBE (EPA8260B), PAHs (EPA 8270C) and TRPH (FL-PRO). Encore samplers were also filled at each of the three locations to be analyzed for SPLP and MADEP/VPH analyses if the soil leachability soil cleanup target levels (SCTLs) were exceeded with the initial analyses.

On June 15, 2011, AAG collected groundwater samples from MW1: during the well purging activities, water level measurements were determined and field parameters were recorded for pH, specific conductivity, temperature, dissolved oxygen and turbidity. The samples were analyzed for Chapter 62-770 Table B parameters by AEL.

On August 16, 2011, monitor well MW1 was properly abandoned by a licensed driller; the well pad was removed and the 15 ft deep well was grouted and sealed from the bottom to the surface with neat cement.

3.0 RESULTS

Soil:

All OVA readings in SB1 through SB10 were below 10 part per million (ppm) and no petroleum staining of soil was noted in any boring. The highest OVA reading in the upper two ft was at SB10 at 3.8 ppm and soil sample SS1 was collected from the 1-2 ft interval.

The highest OVA reading below a 2 ft depth was at SB2 from 7 - 8 ft at 8.2 ppm. Soil sample SS2 was collected at the SB2 interval of 7 - 8 ft.

An additional soil sample (SS3) was collected at the SB1 interval of 1-2 ft, which had an OVA reading of 1.2 ppm.

All three soil samples were below detection for all BTEX/MTBE and PAH analytes. SS1 and SS2 were both below detection for TRPH and the SS3 TRPH concentration was 5.1 mg/kg, well below the SCTL for TRPH for direct contact of 460 mg/kg and for leachability of 340 mg/kg. Table 2 provides soil analytical data for the LSSI sampling event. No leachability SCTLs were exceeded: additional SPLP and TRPH analyses were not necessary.

Groundwater:

All BTEX/MTBE and PAH analytes were below the detection limits for the MW1 groundwater sample. Total lead and EDB were also below their respective detection limit for the MW1 sample. The TRPH concentration of 190 ug/L was between the laboratory method detection limit (mdl) and practical quantitation limit (pql). The groundwater cleanup target level (GCTL) for TRPH is 5,000 ug/L.

Although an accurate shallow groundwater aquifer flow direction could not be verified from only one monitor well onsite, the site topography sloped to the west of both the former UST pit and monitor well location towards a large pond (see Figure 2). It does appear that MW1, which is located near the former UST vents is also down-gradient of the former UST pit.

4.0 RECOMMENDATION(S)

All soil and groundwater samples collected at the site were either below detection limits or well below the SCTLs and GCTLs. Any potential soil or groundwater contamination appears to have undergone bio-degradation over the past twenty or more years since the reported discharge in 1987.

The Gainesville RTS site should qualify for and be issued a SRCO upon proper abandonment of the only monitor well onsite (MW1). Event 2 of the WO (installation of two additional wells and groundwater sampling of three wells) should be cancelled and verbal change order (VCO) be issued to cover the expenses of the MW1 abandonment and abandonment report.

5.0 Well Abandonment Report

Monitor well MW1 was properly abandoned based on the LSSI analytical data and the Section 4.0 recommendation(s). An August 10, 2011 Verbal Authorization for Change in the Scope of Work authorized AAG to properly abandon well MW1; the well pad was removed and the well grouted and sealed with neat cement on August 16, 2011. The well abandonment completion report is in Appendix C. The SRCO recommendation should be approved and issued.

TABLES AND FIGURES

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August 22, 2011

MAGE QUALITY

AS YOU VIEW THE FOLLOWING DOCUMENT, PLEASE NOTE THAT PORTIONS OF THE ORIGINAL WERE OF YIJAUD ROOR QUALITY

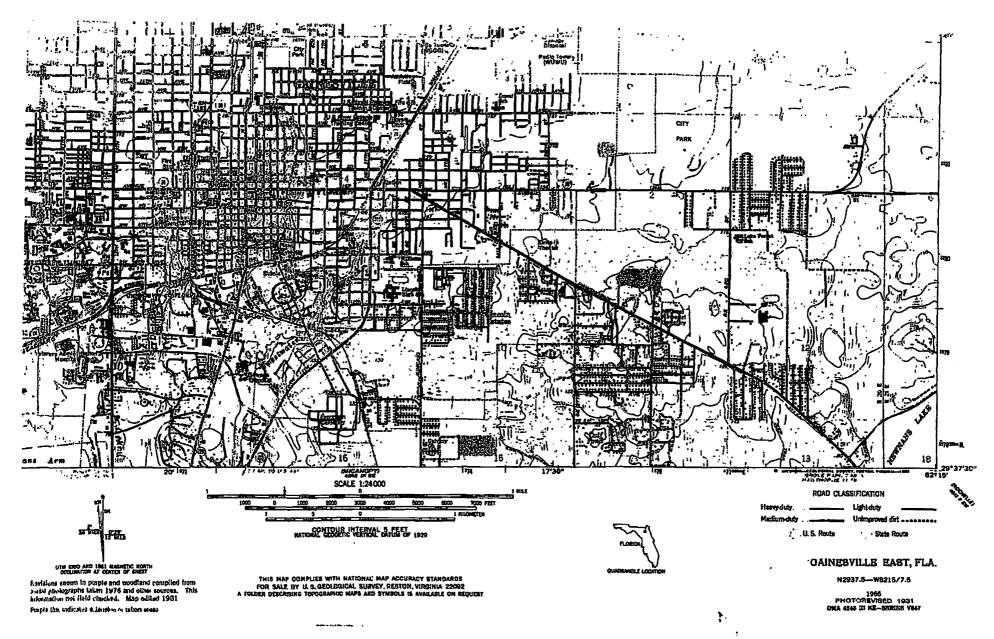
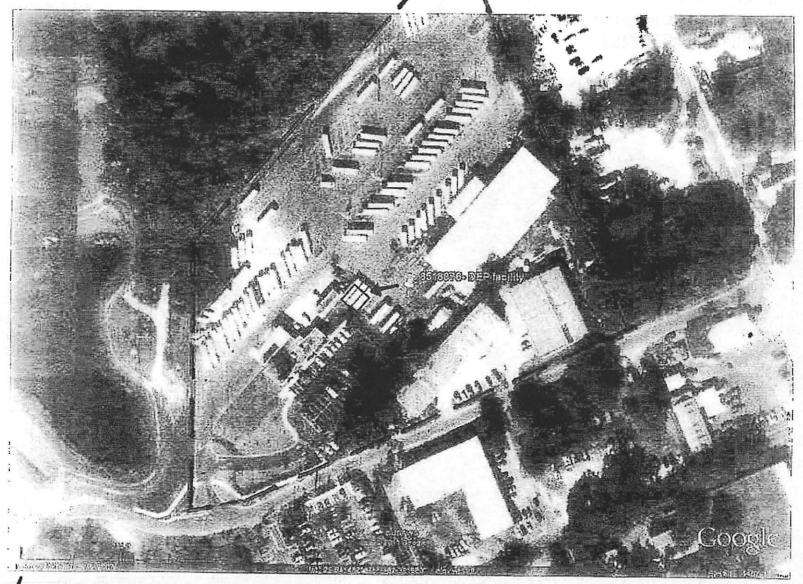


FIGURE 1: GAINESVILLE EAST QUADRANGLE MAP WITH GAINESVILLE RTS FACILITY (ID#01/8518076) LOCATION CIRCLED.

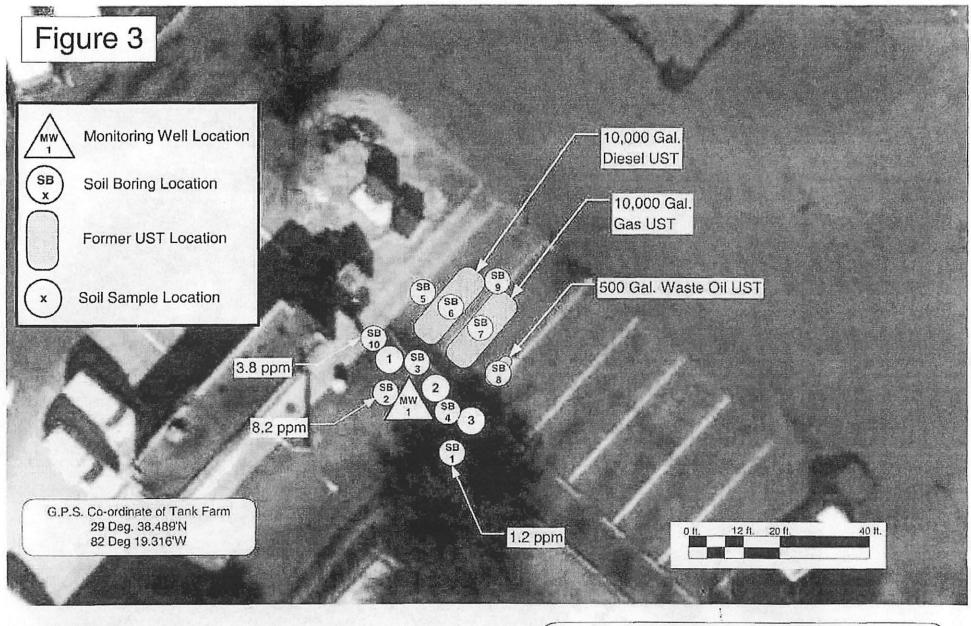


Poor Original

= Gainesville RTS Property Boundary

FIGURE 2: GAINESVILLE RTS FACILITY (ID#01/8518076) LOCATION ON AN AERIAL MAP (GOOGLE, 2011)

AERIAL MAP (GOOGLE, 2011) NOTE: LOCATION OF FORMER USTs ARE SHOWN IN BOX.





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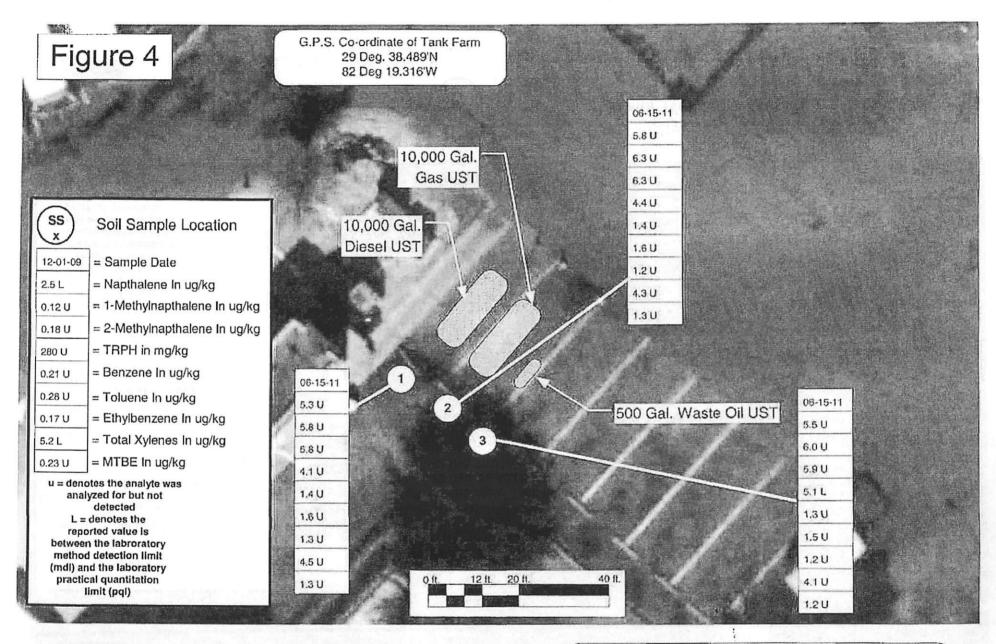
Well Tale It From Here ...



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City of Gainesville RTS Site

Monitoring Well and Soil Boring Locations with Highest O.V.A. Readings Facility ID# 01/8518076 Sampling occurred on June 3, 2011.





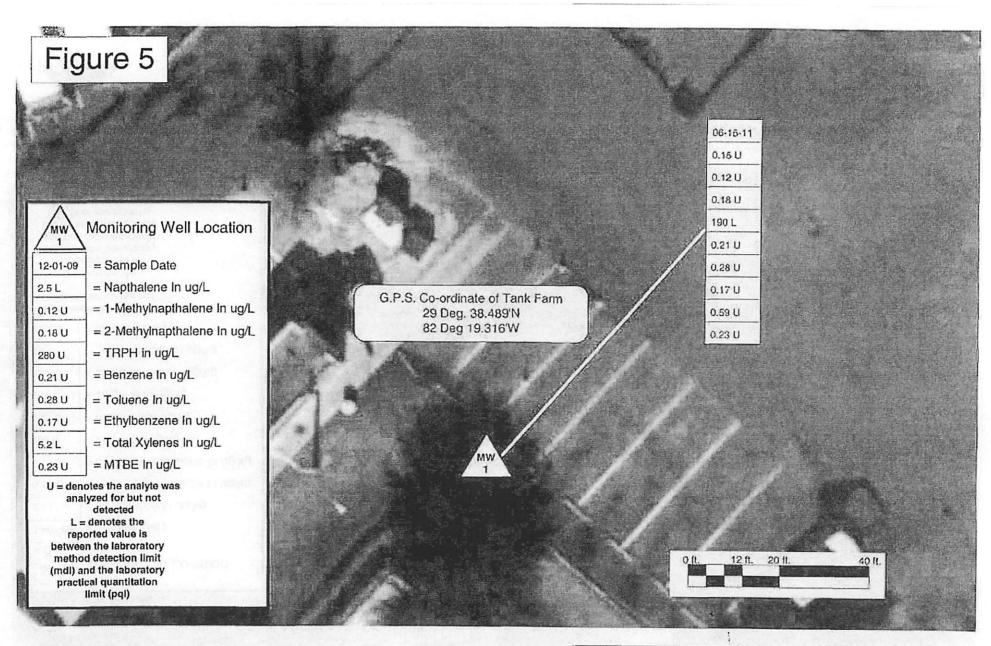
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City of Gainesville RTS Site

Soil Sample Locations and Analytical Data Facility ID# 01/8518076 Sampling occurred on June 3, 2011.





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City of Gainesville RTS Site

Monitor Well Location with Analytical Data Facility ID# 01/8518076 Sampling occurred on June 3, 2011.

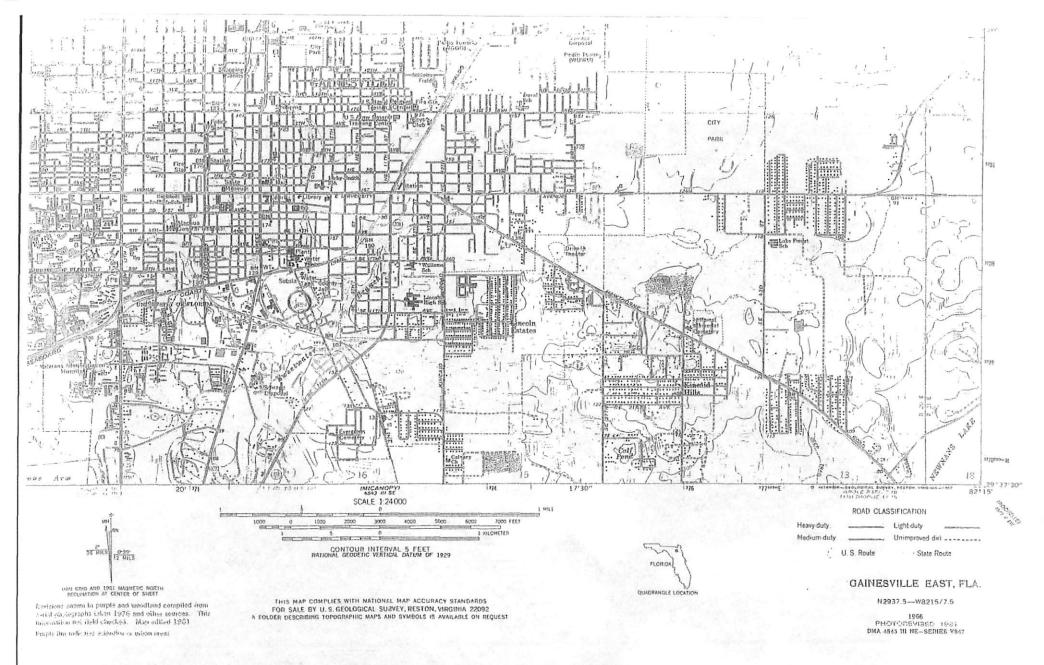


FIGURE 1: GAINESVILLE EAST QUADRANGLE MAP WITH GAINESVILLE RTS FACILITY (ID#01/8518076) LOCATION CIRCLED.

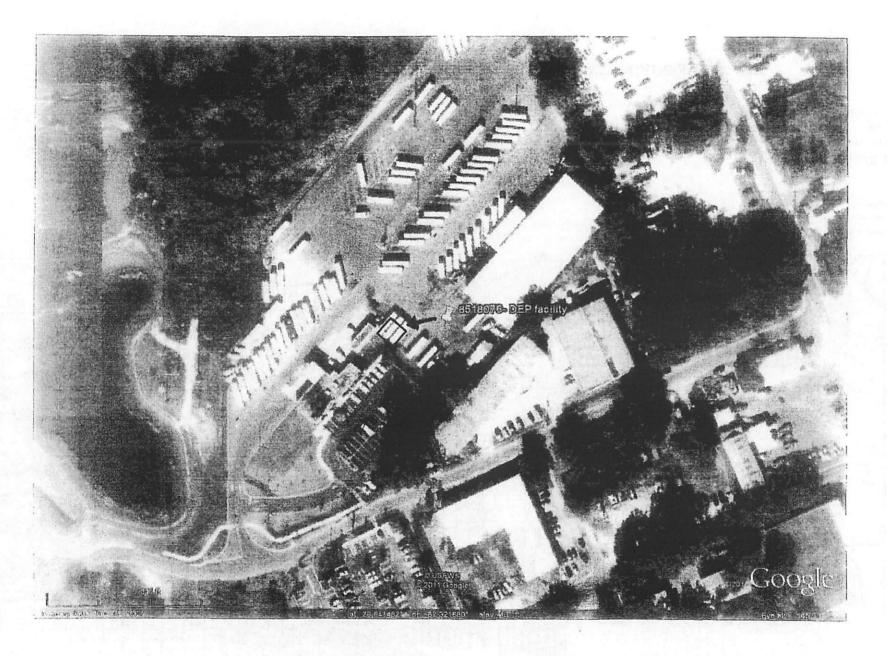
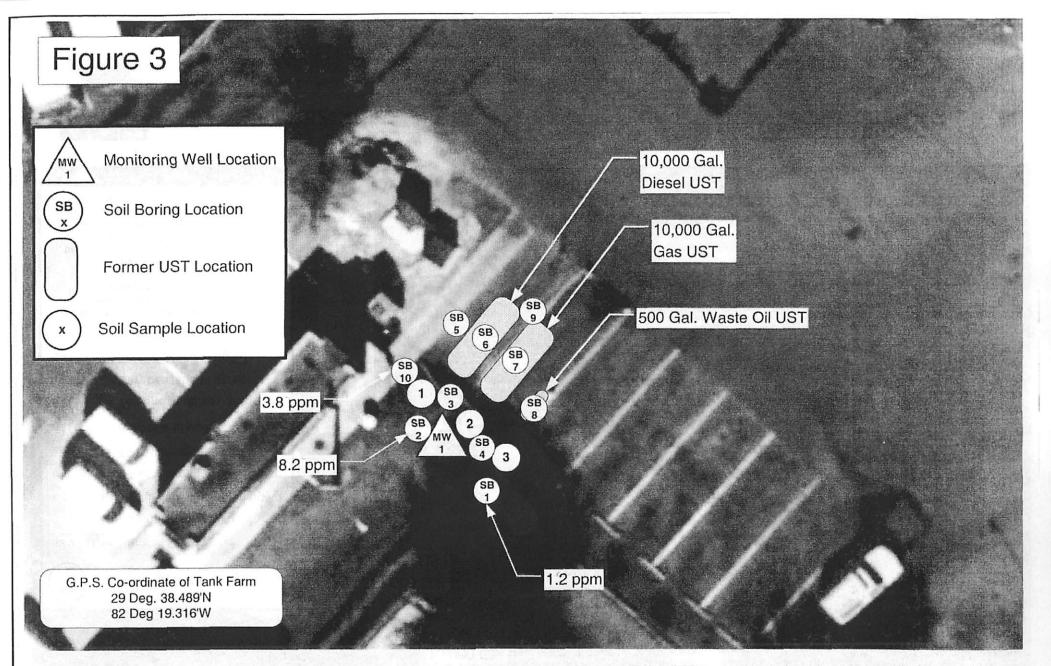


FIGURE 2: GAINESVILLE RTS FACILITY (ID#01/8518076) LOCATION ON AN AERIAL MAP (GOOGLE, 2011)
NOTE: LOCATION OF FORMER USTs ARE SHOWN IN BOX.





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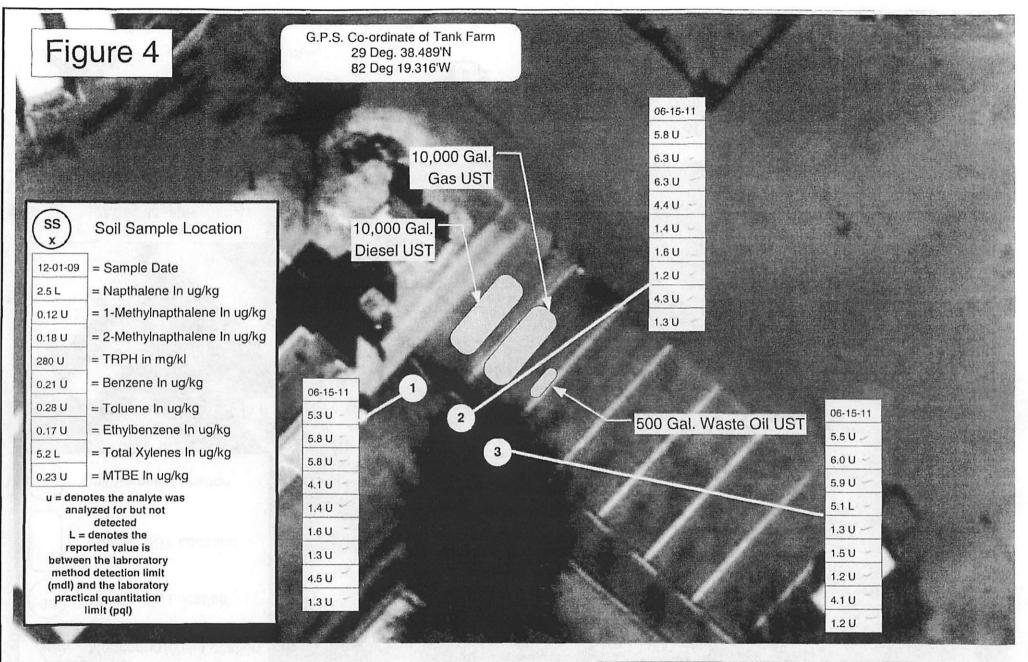
Well Take It From Here ...

Scale 1"- 20'



City of Gainesville RTS Site

Monitoring Well and Soil Boring Locations with Highest O.V.A. Readings Facility ID# 01/8518076 Sampling occurred on June 3, 2011.





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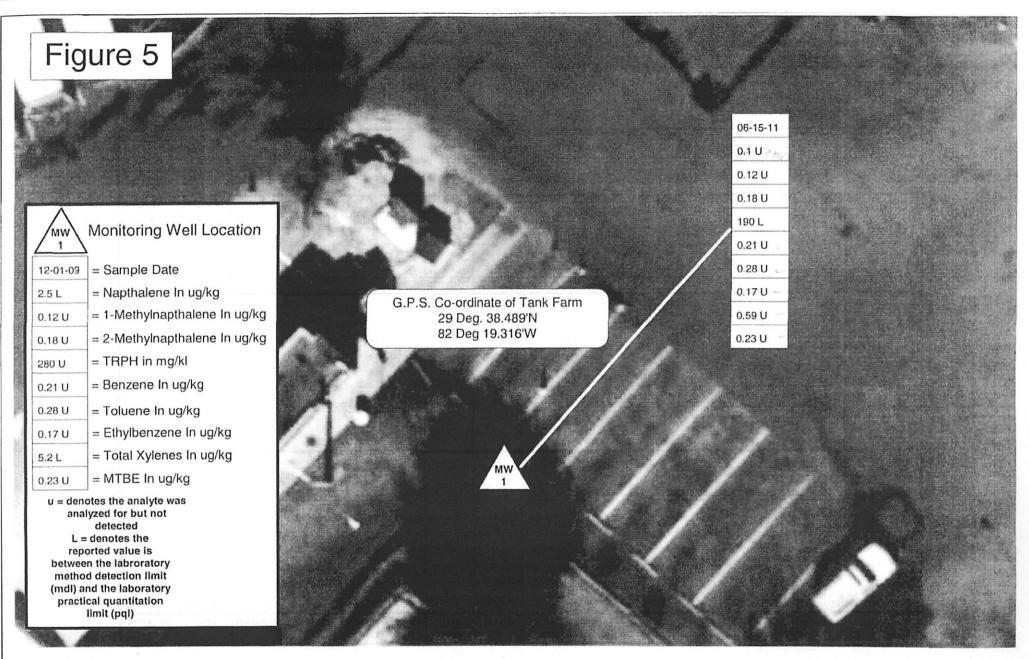
We'll Take It From Here ...

Scale 1"- 20"



City of Gainesville RTS Site

Soil Sample Locations and Analytical Data Facility ID# 01/8518076 Sampling occurred on June 3, 2011.





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We'll Take It From Here ...





City of Gainesville RTS Site

Monitor Well Location with Analytical Data Facility ID# 01/8518076 Sampling occurred on June 3, 2011.

TABLE 1: GROUNDWATER ANALYTCAL SUMMARY

Facility Name:

Gainesville RTS

Facility ID#:

01/8518076

All analytical results = ug/l

San	nple			Ethyl-	Total	Total		Total	Benzo(a)	TRPH	Naph-	1-Meth	2-Meth	EDB	
Location		Benzene	Toluene		Xylenes	VOA	MTBE		anthracene		thalene	Nap	Nap		
MW1	6-15-11	0.21 U	0.28 U	0.17 Uィ	0.59 U/		0.23 U~	1.3 U ~	0.029 U 🗸	190 L /	910	0.12 U -	0.18 U-	0.0058 U	
											0.151				
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		L													
GCTLs	4/17/05	1	40	30	20		20	15	0.05	5,000	14	28	28	0.02	
IADCs	4/17/05	100	400	300	200		200	150	5	50,000	140	280	280	2	
	was not de														
= value be	tween MDI	& PQL													
30ld = >(GCTL														

TABLE 2. SOIL ANALYTICAL SUMMARY

Facility Name: Gainesville RTS

Facility ID#:01/8518076

No. and (Date) to whater (in the property of the prope		Sample			OVA				Labo	ratory Ana	tlyses						
Second S	Boring	Sample ID	Depth	Sample			- 1		l .				,				
S810 S51 (6-3-11) 9 1-2 3.8 1.4 U 1.3 U 1.5 U 4.5 U 1.3 U 5.3 U	No.	and (Date)	to	Interval	Reading	Benzene		Toluene					1				
S82 S82 (6-3-11) 9.5 7.8 8.2 1.4 U 1.2 U 1.6 U 4.3 U 1.3 U 5.8 U 6.3 U 6.3 U 6.0039 U			Water (ft)							(ug/kg)							Comments
SB1 SS3 (6-3-11) 10 1-2 1.2 1.3 U 1.2 U 1.5 U 4.1 U 1.2 U 5.5 U 5.1 L 6.0 U 5.9 U 0.0037 U 1.2 U 1.5 U 4.1 U 1.2 U 5.5 U 5.1 L 6.0 U 5.9 U 0.0037 U 1.2 U 1.5 U 1.	SB10	SS1 (6-3-11)	9	1-2	3.8	1.4 U z									}		
1,200 1,500,000 7,500,000 130,000 4,400,000 55,000 460 200,00 210,000 0.1 SCTLs = Direct exposure based 7 800 500 200 90 1,200 340 3,100 8,500 8 SCTLs = Leachability based value believen MDL & PQL.	SB2	SS2 (6-3-11)	9.5	7-8	8.2		1.2 U /										
7 600 500 200 90 1,200 340 3,100 8,500 8 SCTLs = Leachability based	SB1	SS3 (6-3-11)	10	1-2	1.2	1.3 U ~	1.2 U /	1.5 U~	4.1 U~		1.2 U 🗸	5.5 U /	5.1 L ~	6.0 U -	5.9 U ~	0.0037 U .	
7 600 500 200 90 1,200 340 3,100 8,500 8 SCTLs = Leachability based																	
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7 600 500 200 90 1,200 340 3,100 8,500 8 SCTLs = Leachability based		i				1,200	1,500,000	7,500,000	130,000		4,400,000	55,000	460	200,00	210,000	0.1	SCTLs = Direct exposure based
J = Compound analyzed for but not detected = value between MDL & PQL													340			8	
. = value between MDL & PQL																	
. = value between MDL & PQL		1		•													
. = value between MDL & PQL	U = Comp	l nound analyzed fo	ı or but not del	tected													
		•		104100										 			
	- value		~~											 			
3OLD = >SCTL	BOID ES	I SCTI								-							

TABLE 3: SOIL SCREENING SUMMARY

Facility Name:

Gainesville RTS

Facility ID#01/8518076

	SAMPLE			OVA SCR	EENING	RESULTS	5
BORING	DATE	DEPTH	SAMPLE	TOTAL	CARBON		
NO.	COLLECTED	TO		READING			COMMENTS
		WATER	(FBLS)	(ppm)	(ppm)	(ppm)	
SB1	6-3-11	10	0-1			0 >	All are PID readings
			1-2			1.2 /	Soil sample SS3@1-2ft
			2-3			0 ′	
] :		3-4			0 1	
	i i		4-5			0 1	
	i		5-6			0 /	
			6-7			0 /	
	İ		7-8			0 /	
	1		8-9			0 /	
			9-10			0 /	
SB2	6-3-11	9.5	0-1			0 /	
,	İ		1-2			0 ~	
			2-3			0 ~	
			3-4			0 ~	
,]		4-5			0 -	
			5-6			0	
			6-7			0 /	
			7-8			8.2	Soil sample SS2@7-8ft
			8-9			0 ′	
	! !		9-10			0~	
	}						
SB3	6-3-11	8	0-1			0 -	
020	""		1-2			0 -	
			2-3			0 -	
	1		3-4			0 -	
			4-5			0 -	
			5-6	L	 -	- 0 /	
			6-7			0 7	
			7-8			0 -	
		1	8-9			0 -	
			9-10			0 /	
•							
SB4	6-3-11	10	0-1			0 -	
		i	1-2			0 -	
			2-3			0 ,	
			3-4			0	
			4-5		***************************************	0	
			5-6				

TABLE 1: SOIL SCREENING SUMMARY

Facility Name:

Gainesville RTS

Facility ID#01/8518076

	SAMPLE			OVA SCR	EENING	RESULTS	Š
BORING	DATE	DEPTH	SAMPLE	TOTAL	CARBON		
NO.	COLLECTED	TO	INTERVAL		FILTERED		COMMENTS
		WATER	(FBLS)	(ppm)	(ppm)	(ppm)	
SB4	6-3-11	10	6-7			0	All are PID readings
j			7-8			0 -	
			8-9			0 -	
	ļ .		9-10			0 -	
1							
SB5	6-3-11	9	0-1				
363	0-3-11	•	1-2			0 -	
Ì			2-3		· ···	0 ~	
			3-4			0 -	
			4-5			0 .	
			5-6			0 /	
			6-7			0 /	
		İ	7-8			0 /	
			8-9			0 -	
			9-10			0	
SB6	6-3-11	9.5	0-1			0 -	
			1-2			0 ~	
			2-3			0 /	
			3-4		·	0 /	
			4-5 5.0			0 ′	
			5-6 6-7			0 /	
			7-8			0 ′	
			8-9			0 /	
			9-10			0 /	
SB7	6-3-11	9.5	0-1		:	0 /	
			1-2			0 /	
			2-3			0 /	
			3-4			0 /	1440
	··		4-5			0 -	
			5-6			0 ′	
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			8-9			0 ′	
			9-10			o´	
SB8	6-3-11	9.5	0-1			0 4	
			1-2			0 /	
}			2-3	·-·		0 ′	
			3-4			0 /	
			4-5				
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TABLE 1: SOIL SCREENING SUMMARY

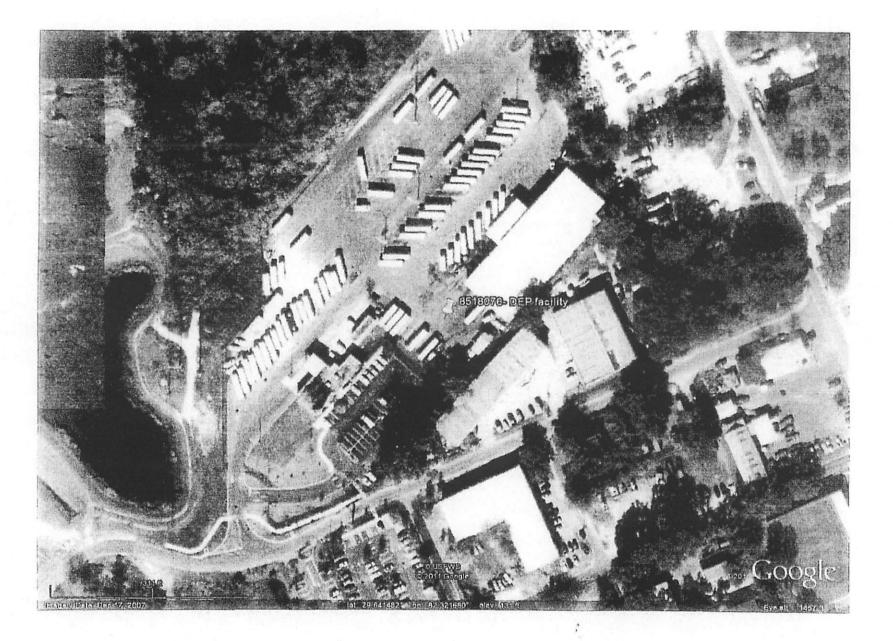
Facility Name:

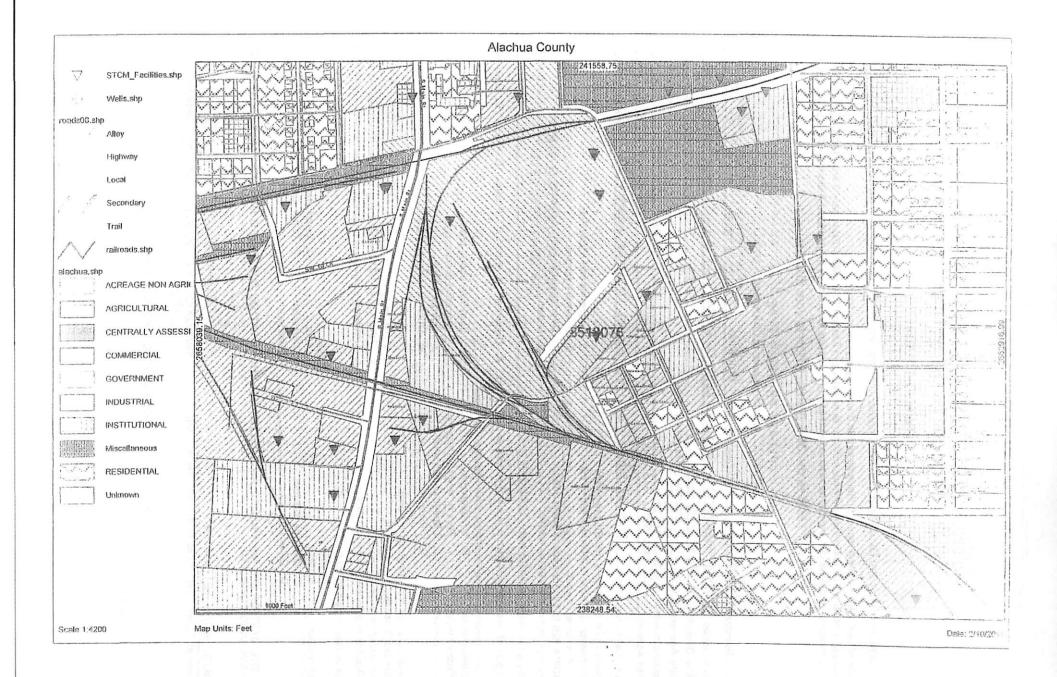
Gainesville RTS

Facility ID#01/8518076

	SAMPLE			OVA SCR	EENING	RESULTS	S
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLS)		CARBON FILTERED (ppm)		COMMENTS
SB8	6-3-11	9.5	6-7			0 -	All are PID readings
	; ;		7-8			0 -	
			8-9			0 /	
	ļ		9-10			0 7	
	; 						
SB9	6-3-11	9.5	0-1			0 -	
			1-2			0 -	
			2-3			0 7	
			3-4			0 7	
			4-5			0 /	**************************************
			5-6			0 /	
			6-7			0 /	
			7-8			0 /	
			8-9			0 ′	
-	0.044	0.5	9-10			0 ′	
SB10	6-3-11	9.5	0-1			0 -	
			1-2			3.8	Soil sample SS1@1-2ft
			2-3 3-4			1.0 -	
			4-5			0 /	
			5-6			0 7	
			6-7			0 /	
			7-8			0 -	
		,	8-9			0 /	
			9-10			0~	
MW1	6-3-11	9.5	0-1			0 ~	
			1-2			0 0	
			2-3			0 -	
			3-4			0 /	
			4-5			0 ~	
			5-6			0 ~	
			6-7			0	
			7-8			8.2 ~	
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			13-14			0 7	
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APPENDIX A Gainesville RTS Historical Information









Department of Environmental Regulation

Discharge Notification Form

Form 17-1.218(3)

Use this form to notify t	he Department of	Environmental	Repulation o	ıf:
---------------------------	------------------	---------------	--------------	-----

- 1. Results of tenk testing which reveal a discharge within 3 working days of testing.
- 2. Discharges exceeding 100 gallons on pervious surfaces as described in Section 17-61.05(4)(b) within 3 working days of dissourcy.
- 3. Positive response of a desection device, monitoring well test of sample or laboratory report within 3 weeking days of discovery.

Mail to the DER District Office in your district.

PLEASE PRINT OR TYPE Put "X" where enswer is unknown.

		· · · · · · · · · · · · · · · · · · ·
	Facility Number: 018518076 2. Tank Number: U	
4.	Facility Name: City of Gainesville Regional Tra	nsit System
•	Facility Operator City of Gainesville	
	Facility Address: 100 SE 10th Avenue, Gainesville	
	. 004 . 274 0011	Carrer Alachua
	Telephone Number: (994) 3/4-2011 P.O. Box 490, Gainesville, Flo Mailing Address:	rida 32602
		7: Report received January 29, 1987 month/day/year
6.	Method of Initial discovery. (circle one enty)	
	A. Automatic detector in ground, manituring	D. Emptying and inspection.
•	well, or containment.	E. Inventory control.
	B. NFPA 329 test (underground tanks only). C. Manual test of monitoring wall(s).	F. Odor or yields signs as facility or in yieldity.
		G. Other: Test results from Value (explain)
7.	Estimated number of gallons lost: Unknown	*
8.	What part of the storage system is leaking? (circle all that apply)	A. Dispenser B. Pipe C. Fitting D. Tank E. Unknown
9.	If a tank is tesking, circle the choices which describe the type.	• •
	A. Aboveground D. Underground	H. Sacrificial anode type
	B. Factory weided E. Bere or asphalt-coated steel	I. Impressed current type
	C. Field erected F. Fibergissa-clad steel	J. Double walled
	G. Fiberglass	M. Other or Unknown (explain)
10.	Type of pollutant discharged. (circle one)	
	A. Leaded Gasoline.	E. Aviation fuel.
	B. Unleaded gasoline.	Y. Other Diesel fuel
	C. Gesohal or alcohal-enriched gesoline.	Z. Unknown (explain)
11.	Cause of leak. (circle all that apply)	
	<u> Pinina</u>	Tank '
	A. Unknown B. Split	G. Split J. Installetion fellure
	C. Loose connection	H. Corresion P. Other
	D. Other	1. Puncture
12.	TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL I CURATE, AND COMPLETE.	INFORMATION SUBMITTED ON THIS FORM IS TRUE, AC-
	W.D. Higginbotham, Jr.	MATTERNATE (-1)
	Name of Owner, Operator or Authorized Representative	Signature of Operator, or Authorized Representative
		<i>V</i> /

KEEP A COPY OF THIS FORM FOR YOUR RECORDS.



DEPARTMENT OF ENVIRONMENTAL SERVICES

825 N.W. 23rd Avenue • Suite F-10

Gainesville, Florida 32609

(204) 323-8509

John D. Schert Director

January 13, 1988



BUREAU OF ENVIRONMENTAL RESTORATION

Ms. Manitia Moultrie Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32301

SUBJECT:

Tightness Testing at Regional Transit System, Gainesville, Florida. Facility No. 018518076, BOR No. 01-038;

Dear Ms. Moultrie:

I am writing to request that the subject tank facility be required to perform integrity tests on the integral product piping. Evidence of soil contamination adjacent to the product piping was recently discovered during the repair of an overlying concrete slab.

The Gainesville Regional Transit System (RTS), located at 100 S.E. 10th Avenue performed tightness tests on their underground storage tanks on February 5 and 6, 1987. The invoice indicates that a leak was detected at the diesel sub-pump located at the tanks and repaired. The invoice also indicates that the ventlines and product lines were tested along with the petrotite tank tests. The actual tank test results do not indicate a leak or repair of a leak and do not indicate that the product lines were tested under working pressures. FDER requested integrity testing on all tanks and product lines on February 11, 1987 and again on June 2, 1987.

On January 5, 1988, RTS removed a concrete slab overlying the product lines adjacent to the dispenser pumps due to the development of a crack in the slab and the movement of the slab under the weight of the buses during refueling. A concern of the structural integrity of the product lines prompted the removal of the concrete slab and inspection of the product lines. The soils removed from and within the excavation are apparently



Ms. Manitia Moultrie January 13, 1988

Page - two -

contaminated with diesel fuel. Two soil samples were collected for headspace analysis using a Photovac TIP calibrated to 100 ppm isobutylene. The headspace readings were 136 and 155 ppm. According to FID - PID correlations these readings would be greater than the 500 ppm - FID (40 \pm 10 ppm - PID) criteria of excess contaminated soil as defined in Chapter 17-70 FAC.

Enclosed are the invoice and results of the tank testing performed by Capital Petroleum on February 5 and 6, 1987 for your records.

If you need any additional information, please let me know.

Sincerely,

Al Quarles Hydrogeologist

M Quarles

AQ:BC

AQ-MOULTRE

Comment of the state of

Juda

 P.O. Box 490 100 S.E. 10th Avenus
Cainesville, Florida 32302
Phone 904-321-3374-2602

January 14, 1988



Mr. Ron Lyons
Florida Department of
Environmental Regulation
Twin Towers
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

BUREAU OF

Dear Mr. Lyons:

Pursuant to a request of Mr. Robert Guyer from the Florida Department of Environmental Regulation (DER), this letter details the events surrounding the pad replacement at the City of Gainesville Regional Transit System (RTS) facility at 100 S. E. 10th Avenue.

On January 5, 1988 RTS, in the presence of Alachua County Department of Environmental Services (DES), initiated the replacement of a concrete tank fueling station pad. Upon removal of the pad, petroleum vapors were detected in the vicinity. The underlying soil was excavated to insure the underground piping was not leaking. Visual inspection of the pipes did not reveal leakage and no free product was detected. Nevertheless, the pipes were pressure tested by Petroleum Aids Corporation.

RTS was then informed by DES that the excavated soil should be drummed up and disposed of properly, and that clean soil be placed in the pit. RTS, through Mr. Guyer, discussed the situation with DER. Both parties concurred that putting clean soil into the excavation would be a "drop in the bucket" as the entire site has already been registered under the Early Detection Incentive (EDI) program for state cleanup. With DER's approval the excavated soil was put back into the pit. A new bermed pad has been poured and is curing. The edges will be sealed with asphalt prior to use.

In addition to the pad replacement, a one inch diesel line was run from the existing tanks to a nearby bus fueling area. This line was also pressure tested by Petroleum Aids Corporation. Results of both tests are expected within a couple of weeks.

Today, Ms. Pat Dugan with the Florida Department of Environmental Regulation's EDI program indicated that cleanup contractors for the site are currently being selected and state cleanup of RTS may be initiated this summer.



Mr. Ron Lyons January 14, 1988 Page 2

If you have any question, please contact me at 904-374-2602.

Sincerely,

Richard Williams

Director

... Regional Transit System

RW: YJ: kbb w29/21

cc: Yolanta Jonynas - GRU, Box 52 Al Quarles - Alachua County DES ATTACHMENT B

APPENDIX B

Soil and Groundwater Analytical data Chain-of-Custodies Groundwater Sampling Logs Field Equipment Calibration Forms





June 14, 2011

Serial: LAB-110614 81716

Bob Momberger AAG Environmental PO Box 959 Newberry, FL 32669 RE: Gainesville RTS

Work Order: 1106040

Enclosed are the results of analyses for samples received by the laboratory on June 3, 2011.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

AAG Environmental PO Box 959 Newberry, FL 32669

Project: Gainesville RTS

Project Manager: Bob Momberger

Reported: 06/14/11 08:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSI	1106040-01	Soil	06/03/11 13:30	06/03/11 16:35
SS2	1106040-02	Soil	06/03/11 14:00	06/03/11 16:35
SS3	1106040-03	Soil	06/03/11 14:30	06/03/11 16:35

REPORT OF RESULTS

SS1

1106040-01 (Soil)

Subcontracted Analyses	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
succinative ramitoes		Sample was sub	contracted.	Please see atta	ched repo	πt.		
		SS2						
		1106040-02	2 (Soil)					
Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Subcontracted Analyses		Sample was sub	contracted.	Please see atta	ched repo	at.		
		SS3						
		1106040-03	3 (Soil)					
		Reporting						
Analysis	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

AAG Environmental PO Box 959 Newberry, FL 32669

Project: Gainesville RTS

Project Manager: Bob Momberger

Reported: 06/14/11 08:16

NOTES AND DEFINITIONS

U Indicates that the compound was analyzed for but not detected. The value associated with the qualifier is the laboratory method detection limit.

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Serial: LAB-110614 81717 Page 3 of 3



7	Altamonte Springs; 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.15	94 • Fax 407.937.1597
4	Gainesville: 6815 SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639	
4	Jacksonville: 6601 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354 Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281 Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275	11-1 HA
4	Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281	MINIMU
	Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275	1000

						Tampa:	9610 Prince	ess Paln	Ave. • Ta	mpa, FL	33619 • 8	13.630.96	16 • Fax	813.630.	4327				
Client Name:	AAG ENULLOWNER	-//-	oject Name:	UNALL	iesui	uer	75	SIZE &	THOL	20	GOON								α.
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Page /	of _/		15 G	ceepe	ъ.	SC	7	ANAL XSIS-REQUIRED	2-3	0 27	385								LABORATORY I.D.
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3 70/	6/3/11	35	NU	auf		6311	1635	ı		Person:	70 1				Phone:	<u> </u>	Willer		
4									Supplier Site-A	of Water: idress:									



> Phone: (904)363-9350 Fax: (904)363-9354

June 13, 2011

Karen Daniels Advanced Environmental Laboratories, Inc. 6815 SW Archer Road Gainesville, FL 32608

RE:

Workorder:

J1104925 1106040

Dear Karen Daniels:

Enclosed are the analytical results for sample(s) received by the laboratory on on Tuesday, June 07, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these

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

Sincerely,

Andres Alvarez

Digitally signed by Andres Alvarez

Ont. cn=Andres Alvarez, on-Advanced Environmental taboratories, Inc., ou, email-analvarez@aeliab.com, c=US

Date: 2011.06.13 17:33:44-04'00'

Andy Alvarez aalvarez@aellab.com Project Manager

Enclosures

Report ID: 169166 - 3658725

Page 1 of 11

CERTIFICATE OF ANALYSIS





> Phone: (904)363-9350 Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1104925 1106040

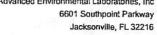
Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1104925001	SS1	Soil	6/3/2011 13:30	6/7/2011 08:30
J1104925002	SS2	Soil	6/3/2011 14:00	6/7/2011 08:30
J1104925003	SS3	Soil	6/3/2011 14:30	6/7/2011 08:30

Report ID: 169166 - 3658725

Page 2 of 11

CERTIFICATE OF ANALYSIS





Phone: (904)363-9350 Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1104925 1106040

Lab ID:

J1104925001

Date Received: 06/07/11 08:30

Soil

Sample ID:

SS1

Date Collected: 06/03/11 13:30

Results for sample J1104925001 are reported on a dry weight basis.

Advanced

Environmental Laboratories, Inc.

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lat
SEMIVOLATILES								
Analysis Desc. Flo Pro Analysis, S	oll Land Ro	eparation Me	thod:FL-PR	o i			THE TIME IS	
and the period of the second	An	alytical Meth	od: FL-PRO					
TPH	4.1	mg/Kg	U	1	35	4.1	6/8/2011 19:37	J
o-Terphenyl (S)	75	%		1	62-109		6/8/2011 19:37	
Nonatricontane-C39 (S)	80	%		1	60-118		6/8/2011 19:37	
Analysis Desc. 8270C-SIM Analys	is and the very line of	enaration Me	thodi SW-84	6 9550B	Harden See Erse State	PRESENTATION	副连接中央中央的国际 电台	engapus Paritan
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1-Methylnaphthalene	5.8	ug/Kg	υ	1	8.2	5.8	6/9/2011 13:46	J
2-Methylnaphthalene	5.8	ug/Kg	U	1	8.2	5.8	6/9/2011 13:46	J
Acenaphthene	5.9	ug/Kg	υ	1	8.2	5.9	6/9/2011 13:46	J
Acenaphthylene	5.6	ug/Kg	U	1	8.2	5.6	6/9/2011 13:46	J
Anthracene	5.6	ug/Kg	U	1	8.2	5.6	6/9/2011 13:46	J
Benzo[a]anthracene	6.4	ug/Kg	U	1	8.2	6.4	6/9/2011 13:46	J
Benzo[a]pyrene	3.6	ug/Kg	U	1	8.2	3.6	6/9/2011 13:46	J
Benzo[b]fluoranthene	4.4	ug/Kg	U	1	8.2	4.4	6/9/2011 13:46	J
Benzo[g,h,i]perylene	5.5	ug/Kg	U	1	8.2	5.5	6/9/2011 13:46	J
Benzo[k]fluoranthene	6.9	ug/Kg	U	1	8.2	6.9	6/9/2011 13:46	J
Chrysene	7.1	ug/Kg	U	1	8.2	7.1	6/9/2011 13:46	J
Dibenzo[a,h]anthracene	4.2	ug/Kg	U	1	8.2	4.2	6/9/2011 13:46	J
Fluoranthene	5.8	ug/Kg	U	1	8.2	5.8	6/9/2011 13:46	J
Fluorene	5.7	ug/Kg	U	1	8.2	5.7	6/9/2011 13:46	J
Indeno(1,2,3-cd)pyrene	3.9	ug/Kg	U	1	8.2	3.9	6/9/2011 13:46	J
Naphthalene	5.3	ug/Kg	U	.1	8.2	5.3	6/9/2011 13:46	J
Phenanthrene	6.0	ug/Kg	·U	1	8.2	6.0	6/9/2011 13:46	J
Pyrene	7.0	ug/Kg	U	1	8.2	7.0	6/9/2011 13:46	J
Decafluorobiphenyl (S)	61	%		1	44.8-137		6/9/2011 13:46	
VOLATILES								
Analysis Desc. 8260C Analysis, S	MINE THE STREET	eparation Me	N-10-6-10-7-20	BALLER DAL MARK	ALCH PARTERINATE STATE OF THE S	-	CAN THE PARTY AND SECTIONS	diff where

Report ID: 169166 - 3658725

1,2-Dichloroethane-d4 (S)

Methyl tert-butyl Ether (MTBE)

Benzene

Toluene

Ethylbenzene

Xylene (Total)

Page 3 of 11

1.4 6/10/2011 16:48

1.3 6/10/2011 16:48

1.3 6/10/2011 16:48 1.6 6/10/2011 16:48

4.5 6/10/2011 16:48

6/10/2011 16:48

3.5

3.5

3.5

11

80-120

CERTIFICATE OF ANALYSIS

U

U 1

U 1

U 1

1

1.4 ug/Kg

1.3 ug/Kg

1.6 ug/Kg

4.5 ug/Kg

97 %

ug/Kg

1.3



Phone: (904)363-9350 Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1104925 1106040

Lab ID:

J1104925001

Date Received: 06/07/11 08:30

Soil

Sample ID:

SS1

Date Collected: 06/03/11 13:30

Results for sample J1104925001 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	109	%		1	81-117		6/10/2011 16:48	ES ID
Bromofluorobenzene (S)	105	%		1	74-121		6/10/2011 16:48	

Lab ID:

J1104925002

Date Received: 06/07/11 08:30

Matrix: Soil

Matrix:

Sample ID:

Date Collected: 06/03/11 14:00

Results for sample J1104925002 are reported on a dry weight basis.

Sample Description:

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
SEMIVOLATILES	0.000		- 1 L	MC.	g Stoke S.E.		0.730	14.5
Analysis Desc. Flo-Pro Analysis, S							THE PERMIT	Fibi
	A	nalytical Meth	od: FL-PRO					
TPH BASE IN THE SECOND	4.4	mg/Kg	U	1	38	4.4	6/8/2011 19:04	J
o-Terphenyl (S)	79	%		1	62-109		6/8/2011 19:04	
Nonatricontane-C39 (S)	89	%		1	60-118		6/8/2011 19:04	
Analysis Desc: 8270C-SIM Analys	is and complete to the	eparation Me	thod: SW-84	6 3550B		REFERENCES.	er en tartante e	66/37
Soil	ALTER OF THE PARTY	nalytical Meth	od: SW-846	8270C (SIM				133151 111117
1-Methylnaphthalene	6.3	ug/Kg	U	1	8.9	6.3	6/9/2011 14:14	J
2-Methylnaphthalene	6.3	ug/Kg	U	1	8.9	6.3	6/9/2011 14:14	J

1-Methylnaphthalene	6.3	ug/Kg	U	1	8.9	6.3	6/9/2011 14:14	J
2-Methylnaphthalene	6.3	ug/Kg	U	1	8.9	6.3	6/9/2011 14:14	J
Acenaphthene	6.4	ug/Kg	U	1	8.9	6.4	6/9/2011 14:14	J
Acenaphthylene	6.1	ug/Kg	U	1	8.9	6.1	6/9/2011 14:14	J
Anthracene	6.1	ug/Kg	U	1	8.9	6.1	6/9/2011 14:14	J
Benzo[a]anthracene	7.0	ug/Kg	U	1	8.9	7.0	6/9/2011 14:14	J
Benzo[a]pyrene	3.9	ug/Kg	U	1	8.9	3.9	6/9/2011 14:14	J
Benzo[b]fluoranthene	4.8	ug/Kg	U	1	8.9	4.8	6/9/2011 14:14	J
Benzo[g,h,i]perylene	6.0	ug/Kg	U	1	8.9	6.0	6/9/2011 14:14	J
Benzo[k]fluoranthene	7.5	ug/Kg	U	1	8.9	7.5	6/9/2011 14:14	J
Chrysene	7.7	ug/Kg	U	1	8.9	7.7	6/9/2011 14:14	J
Dibenzo[a,h]anthracene	4.5	ug/Kg	U	1	8.9	4.5	6/9/2011 14:14	J
Fluoranthene	6.3	ug/Kg	U	1	8.9	6.3	6/9/2011 14:14	J
Fluorene	6.2	ug/Kg	U	1	 8.9	6.2	6/9/2011 14:14	J
Indeno(1,2,3-cd)pyrene	4.2	ug/Kg	U	1	8.9	4.2	6/9/2011 14:14	J
Naphthalene	5.8	ug/Kg	U	1	8.9	5.8	6/9/2011 14:14	J
Phenanthrene	6.5	ug/Kg	U	1	8.9	6.5	6/9/2011 14:14	J
Pyrene	7.6	ug/Kg	U	1	8.9	7.6	6/9/2011 14:14	J

Report ID: 169166 - 3658725

Page 4 of 11

CERTIFICATE OF ANALYSIS



Fax: (904)363-9354



ANALYTICAL RESULTS

Workorder: J1104925 1106040

Lab ID:

J1104925002

Date Received: 06/07/11 08:30

Soil

Matrix:

Sample ID:

Date Collected: 06/03/11 14:00

Results for sample J1104925002 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Decafluorobiphenyl (S)	93	%		1	44.8-137		6/9/2011 14:14	

VOLATILES

VOLATILES								
Analysis Desc: 8260C Analysis; Soil	Property An	eparation Me alytical Meth	thod: SW-84 od: SW-846	16 5035 8260B			日本中央 (日本) 100 (日本)	
Benzene	1.4	ug/Kg	U	1	3.4	1.4	6/10/2011 17:33	J
Ethylbenzene	1.2	ug/Kg	U	1	3.4	1.2	6/10/2011 17:33	J
Methyl tert-butyl Ether (MTBE)	1.3	ug/Kg	υ	1	3.4	1.3	6/10/2011 17:33	J .
Toluene	1.6	ug/Kg	U	1	3.4	1.6	6/10/2011 17:33	J
Xylene (Total)	4.3	ug/Kg	U	1	10	4.3	6/10/2011 17:33	J
1,2-Dichloroethane-d4 (S)	103	%		1	80-120		6/10/2011 17:33	
Toluene-d8 (S)	106	%		1	81-117		6/10/2011 17:33	
Bromofluorobenzene (S)	110	%		1	74-121		6/10/2011 17:33	

Lab ID:

J1104925003

Date Received: 06/07/11 08:30

Adjusted

Soil Matrix:

Adjusted

Sample ID:

Date Collected: 06/03/11 14:30

Results for sample J1104925003 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc. Flo-Pro Analysis, S	oll. Pn							ALCONOMIC TO A STATE OF THE STA
TPH	5.1	mg/Kg	l	1	36	4.2	6/8/2011 18:30	J
o-Terphenyl (S)	85	%		1	62-109		6/8/2011 18:30	
Nonatricontane-C39 (S)	89	%		1	60-118		6/8/2011 18:30	
Analysis Desc. 8270C-SIM Analys Soil	Ar Ar							
1-Methylnaphthalene	6.0		U	1	8.4	6.0	6/9/2011 14:42	ا ا.
2-Methylnaphthalene	5.9	ug/Kg	U	1	8.4	5.9	6/9/2011 14:42	J
Acenaphthene	6.1	ug/Kg	U	1	8.4	6.1	6/9/2011 14:42	J
Acenaphthylene	5.8	ug/Kg	U	1	8.4	5.8	6/9/2011 14:42	J
Anthracene	5.8	ug/Kg	U	1	8.4	5.8	6/9/2011 14:42	J
Benzo[a]anthracene	6.6	ug/Kg	U	1	8.4	6.6	6/9/2011 14:42	J
Benzo[a]pyrene	3.7	ug/Kg	U	1	8.4	3.7	6/9/2011 14:42	J

Report ID: 169166 - 3658725

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CERTIFICATE OF ANALYSIS





> Phone: (904)363-9350 Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1104925 1106040

Lab ID:

J1104925003

Date Received: 06/07/11 08:30

Soil

Matrix:

Sample ID:

Date Collected: 06/03/11 14:30

Results for sample J1104925003 are reported on a dry weight basis.

Sample Description:

Location:

oumpie possipusii.			74.74	oudon.					
Parameters	Results	Units	Qual	DF	- Adjusted PQL	Adjusted MDL	Analyzed	Lab	
Farameters	Results	Units	Quar	DF	PUL	MUL	Allalyzeu	Lab	
Benzo[b]fluoranthene	4.5	ug/Kg	U	1	8.4	4.5	6/9/2011 14:42	J	
Benzo[g,h,i]perylene	5.7	ug/Kg	U	1	8.4	5.7	6/9/2011 14:42	J	
Benzo[k]fluoranthene	7.1	ug/Kg	U	1	8.4	7.1	6/9/2011 14:42	J	
Chrysene	7.3	ug/Kg	υ	1	8.4	7.3	6/9/2011 14:42	J	
Dibenzo[a,h]anthracene	4.3	ug/Kg	U	1	8.4	4.3	6/9/2011 14:42	J	
Fluoranthene	6.0	ug/Kg	U	1	8.4	6.0	6/9/2011 14:42	J	
Fluorene	5.9	ug/Kg	U	1	8.4	5.9	6/9/2011 14:42	J	
Indeno(1,2,3-cd)pyrene	4.0	ug/Kg	U	1	8.4	4.0	6/9/2011 14:42	J	
Naphthalene	5.5	ug/Kg	U	1	8.4	5.5	6/9/2011 14:42	J	
Phenanthrene	6.2	ug/Kg	U	1	8.4	6.2	6/9/2011 14:42	J	
Pyrene	7.1	ug/Kg	U	1	8.4	7.1	6/9/2011 14:42	J	
Decafluorobiphenyl (S)	97	%		1	44.8-137		6/9/2011 14:42		
VOLATILES									

VOLATILLO								
Analysis Desc 8260C Analysis, Soil	打探性等的 理學	eparation Met alytical Metho	是自然-PETERS	Men ditteri	***********			
Benzene	1.3	ug/Kg	U	1	3.3	1.3	6/10/2011 18:18	J
Ethylbenzene	1.2	ug/Kg	U	1	3.3	1.2	6/10/2011 18:18	J
Methyl tert-butyl Ether (MTBE)	1.2	ug/Kg	U	1	3.3	1.2	6/10/2011 18:18	J
Toluene	1.5	ug/Kg	U	1	3.3	1.5	6/10/2011 18:18	J
Xylene (Total)	4.1	ug/Kg	U	1	9.8	4.1	6/10/2011 18:18	J
1,2-Dichloroethane-d4 (S)	103	%		1	80-120		6/10/2011 18:18	
Toluene-d8 (S)	103	%		1	81-117		6/10/2011 18:18	
Bromofluorobenzene (S)	107	%		1	74-121		6/10/2011 18:18	

Report ID: 169166 - 3658725

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CERTIFICATE OF ANALYSIS





> Phone: (904)363-9350 Fax: (904)363-9354

ANALYTICAL RESULTS QUALIFIERS

Workorder: J1104925 1106040

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

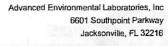
J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

Report ID: 169166 - 3658725

Page 7 of 11







Phone: (904)363-9350 Fax: (904)363-9354



QUALITY CONTROL DATA

Workorder: J1104925 1106040

QC Batch:

EXTj/21282

Analysis Method:

SW-846 8270C (SIM)

QC Batch Method: SW-846 3550B

Prepared:

06/07/2011 14:00

Associated Lab Samples:

J1104925001, J1104925002, J1104925003

METHOD BLANK: 750017

Parameter	Blank Units Result		Reporting Limit Qualifiers			
SEMIVOLATILES		2.54	Chother and The Control of the Control	CHARLES THE CO. STORY		
Naphthalene	ug/Kg	4.3	4.3 U			
2-Methylnaphthalene	ug/Kg	4.7	4.7 U			
1-Methylnaphthalene	ug/Kg	4.7	4.7 U			
Acenaphthylene	ug/Kg	4.6	4.6 U			
Acenaphthene	ug/Kg	4.8	4.8 U			
Fluorene	ug/Kg	4.6	4.6 U			
Phenanthrene	ug/Kg	4.9	4.9 U			
Anthracene	ug/Kg	4.5	4.5 U			
Fluoranthene	ug/Kg	4.7	4.7 U			
Pyrene	ug/Kg	5.6	5.6 U			
Benzo[a]anthracene	ug/Kg	5.2	5.2 U			
Chrysene	ug/Kg	5.7	5.7 U			
Benzo[b]fluoranthene	ug/Kg	3.6	3.6 U			
Benzo[k]fluoranthene	ug/Kg	5.6	5.6 U			
Benzo[a]pyrene	ug/Kg	2.9	2.9 U			
Indeno(1,2,3-cd)pyrene	ug/Kg	3.1	3.1 U			
Dibenzo[a,h]anthracene	ug/Kg	3.4	3.4 U			
Benzo[g,h,i]perylene	ug/Kg	4.5	4.5 U			
Decafluorobiphenyl (S)	%	79	44.8-137			

QC Batch:

EXTJ/21287

Analysis Method:

FL-PRO

QC Batch Method: FL-PRO

Prepared:

06/08/2011 09:00

Associated Lab Samples:

J1104925001, J1104925002, J1104925003

METHOD BLANK: 750805

Parameter	Units	Blank Result	Reporting Limit Qualifiers	
SEMIVOLATILES				
TPH	mg/Kg	4.0	4.0 U	
o-Terphenyl (S)	3.3		62-109	
Nonatricontane-C39 (S) %	99	60-118	
QC Batch:	MSVJ/20828		Analysis Method:	SW-846 8260B

QC Batch Method: SW-846 5035

Prepared:

06/10/2011 10:49

Report ID: 169166 - 3658725

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CERTIFICATE OF ANALYSIS





> Phone: (904)363-9350 Fax: (904)363-9354

QUALITY CONTROL DATA

Workorder: J1104925 1106040

Associated Lab Samples: J1104925001, J1104925002, J1104925003

METHOD BLANK: 752761

WILLIAMS DE WAY. 102101				
Parameter	Units	Blank Result	Reporting Limit Qualifiers	
VOLATILES	4.00.410.			
Methyl tert-butyl Ether (MTBE)	ug/Kg	1.1	1.1 U	
Benzene	ug/Kg	1.2	1.2 U	
Toluene	ug/Kg	1.4	1.4 U	
Ethylbenzene	ug/Kg	1.1	1.1 U	
Xylene (Total)	ug/Kg	3.8	3.8 U	
1,2-Dichloroethane-d4 (S)	%	105	80-120	
Toluene-d8 (S)	%	100	81-117	
Bromofluorobenzene (S)	%	105	74-121	

Report ID: 169166 - 3658725

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CERTIFICATE OF ANALYSIS







QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1104925 1106040

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1104925001	SS1	SW-846 3550B	EXTJ/21282	SW-846 8270C (SIM)	MSSj/17960
J1104925002	SS2	SW-846 3550B	EXTj/21282	SW-846 8270C (SIM)	MSSj/17960
J1104925003	SS3	SW-846 3550B	EXTJ/21282	SW-846 8270C (SIM)	MSSj/17960
				· Mar	
J1104925001	SS1	FL-PRO	EXTJ/21287	FL-PRO	GCSj/20060
J1104925002	SS2	FL-PRO	EXTj/21287	FL-PRO	GCSj/20060
J1104925003	SS3	FL-PRO	EXTj/21287	FL-PRO	GCSj/20060
J1104925001	SS1	SW-846 5035	MSVj/20828	SW-846 8260B	MSVj/20829
J1104925002	SS2	SW-846 5035	MSVj/20828	SW-846 8260B	MSVj/20829
J1104925003	SS3	SW-846 5035	MSVj/20828	SW-846 8260B	MSVj/20829

Report ID: 169166 - 3658725

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FOR DRINKING WATER USE:

Supplier of Weter:_

(When PV/3 information not otherwise supplied) PWS ID:

Relinquished by:

Date

Time

11 08:30

Received by:

6601 Southpoint Pkwy. - Jacksonville, FL 32216 - 904.363,9350 - Fax 904.363.9354 - E82574 9610 Princess Palm Ava. - Tampa, FL 33816 - 813.630.9816 - Fax 813.630.4327 - E84589 6815 SW Archer Road - Galmasville, FL 32608 - 352.377.2349 - Fax 352.395.6639 - E82001 J1104925

528 S. North Lake Bivd., Ste. 1016 · Allamonte Springs, FL 32701 · 407.937.1594 · Pax 407.937.1597 · £53078 AEL-Gainesville PROJECT NAME: AAG Environmental CLIENT NAME: P.O. NUMBER/PROJECT 6815 SW Archer Rd Gahasville RYB ADDRESS: NUMBER: NUMBER Gainesville, FL 32608 PROJECT LOCATION: ANALYSIS RECIUIRED SPLP MA-EPH/VPH 352-377-2349 REMARKS/SPECIAL INSTRUCTIONS: SPLP (BTEX/MTBE and PAH) PHONE: 352-395-6639 LABORATORY I.D. CONTACT: BTEXMTBE Karen Daniels SAMPLED BY: FL-PRO SUB to Jax; * SPLP Only if TURN AROUND TIME: **PAHs** SCTL is exceeded Grab NO. SAMPLE ID SAMPLE DESCRIPTION MATRIX COUNT Comp DATE TIME × X 981 G 6/3/11 SO 7 1106040-01 13:30 (D) * 1106040-02 882 G 6/3/11 14:00 SO 7 **bo**2 \$83 G 6/3/11 SO 5 14:30 1106040-03 \$003 Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = eir 80 = soil SL = sludge Preservation Code: 1 = loe H=(HCl) 8 = (H2504) N = (HNO3) T = (Sodium Thiosullete) Yemp taken from sample Where required, pH checked Temperature when received Received on Ica X Yes No Temp from temp blank (In degrees celclus) Davice used for measuring Temp by unique identifier (circle IR temp gun used) [J: 9A B: LT-1 LT-2 T: 10A A: 3A Form ravised 2/8/08

Date

67-11 08:30

Monday, June 13, 2011 4:05:46 PM Page 11 of 11

6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

June 28, 2011

Serial: LAB-110628101420

Bob Momberger AAG Environmental PO Box 959 Newberry, FL 32669 RE: Gainesville RTS

Work Order: 1106359

Enclosed are the results of analyses for samples received by the laboratory on June 15, 2011.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. The results relate only to the samples listed on the chain of custody. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety. The report pages are numbered separately from the chain of custody and any sample receipt documentation, which, if appropriate, are included in an unnumbered appendix.

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

Sincerely,

Karen Daniels
Operations Manager
kdaniels@aellab.com



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

AAG Environmental PO Box 959 Newberry, FL 32669

Project: Gainesville RTS

Project Manager: Bob Momberger

Reported: 06/28/11 10:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW 1 Shallow GW	1106359-01	Water	06/15/11 10:45	06/15/11 13:30

REPORT OF RESULTS

MW 1 Shallow GW 1106359-01 (Water)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Lead Total EPA 200.7/6010 (ICP)	1.9 U	1.9	ug/L	1	1062020	06/20/11	06/27/11 18:08	
Subcontracted Analyses		Sample was sub	contracted	Please see off	ached reno	4		•

QUALITY CONTROL FOR SAMPLES

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1062020 = ICP Metals										
Blank (1062020-BLK1)										
Lead Total EPA 200.7/6010 (ICP)	1.9 U	1.9	ug/L						•	
LCS (1062020-BS1)										
Lead Total EPA 200.7/6010 (ICP)	36.8	1.9	ug/L	40.0		92	85-115			

Page 2 of 3



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

AAG Environmental

PO Box 959

Project: Gainesville RTS

Reported:

Newberry, FL 32669 Project M

Project Manager: Bob Momberger

06/28/11 10:14

NOTES AND DEFINITIONS

U Indicates that the compound was analyzed for but not detected. The value associated with the qualifier is the laboratory method detection limit.

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

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



> Phone: (904)363-9350 Fax: (904)363-9354

June 24, 2011

Karen Daniels Advanced Environmental Laboratories, Inc. 6815 SW Archer Road Gainesville, FL 32608

RE:

Workorder:

J1105317 1106359

Dear Karen Daniels:

Enclosed are the analytical results for sample(s) received by the laboratory on on Thursday, June 16, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these

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

Sincerely,

Andres Alvarez

Digitally signed by Andres Alvarez

DN: cm=Andres Alvarez, o=Advanced Environmental
Laboratories, Inc., ou, email=aalvarez@aellab.com, c=US
Date: 2011.06.24.16.45:25 -04:00'

Andy Alvarez aalvarez@aellab.com Project Manager

Enclosures

Report ID: 170433 - 3690975

Page 1 of 13





> Phone: (904)363-9350 Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1105317 1106359

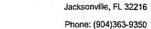
Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1105317001	MW-1	Water	6/15/2011 10:45	6/16/2011 08:30

Report ID: 170433 - 3690975

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CERTIFICATE OF ANALYSIS





Fax: (904)363-9354



ANALYTICAL RESULTS

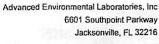
Workorder: J1105317 1106359 Lab ID: J1105317001 Date Received: 06/16/11 08:30 Matrix: Water Sample ID: MW-1 Date Collected: 06/15/11 10:45 Sample Description: Location: Adjusted Adjusted **Parameters** Results Units DE POL MDL Analyzed Lab Qual **METALS** Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A Analysis Water Analytical Method: SW-846 6010 Lead 0.0013 mg/L 0.0070 0.0013 6/20/2011 20:14 SEMIVOLATILES Analysis Desc Flo Pro Analysis, Water Preparation Method: FL-PRO Analytical Method::FL-PRO TPH 190 ug/L 420 100 6/17/2011 19:10 o-Terphenyl (S) 82 % 1 82-142 6/17/2011 19:10 Nonatricontane-C39 (S) 80 42-193 6/17/2011 19:10 Analysis Desc. SW 8011 Analysis, Preparation Method: SW-846 8011 Water Analytical Method: SW-846.8011 1,2-Dibromo-3-Chloropropane 0.0056 ug/L U 0.019 0.0056 6/23/2011 16:27 Ethylene Dibromide (EDB) 0.0058 ug/L 0.019 0.0058 6/23/2011 16:27 Tetrachioro-m-xylene (S) % 120 40.3-190 6/23/2011 16:27 Analysis Desc. 8270C-SIM Analysis Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM) 1-Methylnaphthalene 0.12 ug/L U,J4 6/19/2011 15:43 0.20 2-Methylnaphthalene **U,J4** 0.18 ug/L 0.20 0.18 6/19/2011 15:43 J Acenaphthene **U,J4** 6/19/2011 15:43 0.13 ug/L 1 0.20 0.13 Acenaphthylene 0.13 ug/L U,J4 1 0.20 0.13 6/19/2011 15:43 Anthracene 0.080 ug/L U 1 0.20 0.080 6/19/2011 15:43 Benzo[a]anthracene 0.029 ug/L U 0.029 6/19/2011 15:43 0.20 11 Benzo[a]pyrene 0.023 ug/L 0.023 6/19/2011 15:43 0.20 Benzo[b]fluoranthene 0.025 ug/L U 0.20 0.025 6/19/2011 15:43 ug/L Benzo[g,h,i]perylene U 0.092 0.20 0.092 6/19/2011 15:43 Benzo[k]fluoranthene 0.082 ug/L U 0.20 0.082 6/19/2011 15:43 Chrysene 0.060 ug/L U 0.20 0.060 6/19/2011 15:43 Dibenzo[a,h]anthracene 0.047 U 0.20 0.047 6/19/2011 15:43 ug/L 1 Fluoranthene 0.084 ug/L U 0.20 0.084 6/19/2011 15:43 ug/L 6/19/2011 15:43 0.10 Fluorene 0.10 U 0.20 indeno(1,2,3-cd)pyrene 0.039 ug/L 0.20 0.039 6/19/2011 15:43 U .1 0.20 0.15 6/19/2011 15:43 Naphthalene 0.15 ug/L U.J4 1 6/19/2011 15:43 J Phenanthrene 0.10 ug/L U 0.20 0.10 0.12 6/19/2011 15:43 Pyrene 0.12 ug/L U 0.20

Report ID: 170433 - 3690975

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Page 3 of 13



Phone: (904)363-9350 Fax: (904)363-9354



ANALYTICAL RESULTS

Workorder: J1105317 1106359

Lab ID:

J1105317001

Date Received: 06/16/11 08:30

Matriv

Water

Sample ID:

MW-1

Date Collected: 06/15/11 10:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Decafluorobiphenyl (S)	54	%		1	21-122		6/19/2011 15:4	3

VOLATILES								
Analysis Desc. 8260C Analysis; Water	HAR SWANNIER	eparation M	ethod: SW-8	6:5030B	TERESE OF FREE FEE X 1994 100 ST	Thinks D. Line		ZHRES
TANK MARKET PROPERTY OF THE PR	re Landage IV	to white the	PLIPS CELL PRINT			THEFT		16 Hills
			nod: 574-846	8Z6UB		计通道算	kirikalin ilik tugo	PER S
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	6/16/2011 14:42	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	6/16/2011 14:42	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	6/16/2011 14:42	J -
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	6/16/2011 14:42	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	6/16/2011 14:42	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	6/16/2011 14:42	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	6/16/2011 14:42	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	6/16/2011 14:42	J
1,3-Dichlorobenzene	0.31	ug/L	U	1	1.0	0.31	6/16/2011 14:42	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	6/16/2011 14:42	J
2-Chloroethyl Vinyl Ether	0.26	ug/L	U	1	5.0	0.26	6/16/2011 14:42	J
Benzene	0.21	ug/L	U	1	1.0	0.21	6/16/2011 14:42	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	6/16/2011 14:42	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	6/16/2011 14:42	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	6/16/2011 14:42	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	6/16/2011 14:42	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	6/16/2011 14:42	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	6/16/2011 14:42	J
Chloroform	0.26	ug/L	· U	1	1.0	0.26	6/16/2011 14:42	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	6/16/2011 14:42	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	6/16/2011 14:42	J
Dichlorodifluoromethane	0.34	ug/L	U	1	1.0	0.34	6/16/2011 14:42	J
Ethylbenzene	0.17	ug/L	U	1	1.0	0.17	6/16/2011 14:42	J
Methyl tert-butyl Ether (MTBE)	0.23	ug/L	U	1	1.0	0.23	6/16/2011 14:42	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	6/16/2011 14:42	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	6/16/2011 14:42	J
Toluene	0.28	ug/L	U	1	1.0	0.28	6/16/2011 14:42	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	6/16/2011 14:42	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	6/16/2011 14:42	J
Vinyl Chloride	0.37	ug/L	υ	1	1.0	0.37	6/16/2011 14:42	J
Xylene (Total)	0.59	ug/L	U	1	3.0	0.59	6/16/2011 14:42	J
cis-1,2-Dichloroethylene	0.28	ug/L	υ	1	1.0	0.28	6/16/2011 14:42	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	6/16/2011 14:42	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	6/16/2011 14:42	J
		77.0						

Report ID: 170433 - 3690975

Page 4 of 13

CERTIFICATE OF ANALYSIS





> Phone: (904)363-9350 Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1105317 1106359

Lab ID:

J1105317001

MW-1 Sample ID:

Date Received: 06/16/11 08:30

Matrix: Water

Date Collected: 06/15/11 10:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	6/16/2011 14:42	J
1,2-Dichloroethane-d4 (S)	103	%		1	80-120		6/16/2011 14:42	
Toluene-d8 (S)	98	%		1	88-110		6/16/2011 14:42	
Bromofluorobenzene (S)	107	%		1	86-115		6/16/2011 14:42	

Report ID: 170433 - 3690975

Page 5 of 13

CERTIFICATE OF ANALYSIS





Phone: (904)363-9350 Fax: (904)363-9354

ANALYTICAL RESULTS QUALIFIERS

Workorder: J1105317 1106359

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J4 Estimated Result

LAB QUALIFIERS

J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

Report ID: 170433 - 3690975

Page 6 of 13

CERTIFICATE OF ANALYSIS



Fax: (904)363-9354



QUALITY CONTROL DATA

Workorder: J1105317 1106359

QC Batch:

MSVj/20849

Analysis Method:

SW-846 8260B

QC Batch Method: SW-84

SW-846 5030B

Prepared:

06/16/2011 08:36

Associated Lab Samples:

J1105317001

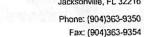
METHOD BLANK: 756524							
		Blank	Reporting				
Parameter	Units	Result	Limit	Qualifiers			
VOLATILES							
Dichlorodifluoromethane	ug/L	0.34	0.34	U			
Chloromethane	ug/L	0.29	0.29	U			
Vinyl Chloride	ug/L	0.37	0.37	U			
Bromomethane	ug/L	0.26	0.26				
Chloroethane	ug/L	0.58	0.58	U			
Trichlorofluoromethane	ug/L	0.35	0.35		87		
1,1-Dichloroethylene	ug/L	0.29	0.29				
Methylene Chloride	ug/L	0.38	0.32	1			
trans-1,2-Dichloroethylene	ug/L	0.40	0.40				
Methyl tert-butyl Ether (MTBE)	ug/L	0.23	0.23	U			
1,1-Dichloroethane	ug/L	0.21	0.21	U			
cis-1,2-Dichloroethylene	ug/L	0.28	0.28	U			
Chloroform	ug/L	0.26	0.26	U			
1,2-Dichloroethane	ug/L	0.29	0.29	U			
1,1,1-Trichloroethane	ug/L	0.29	0.29	U			
Carbon Tetrachloride	ug/L	0.24	0.24	U			
Benzene	ug/L	0.21	0.21	U			
1,2-Dichloropropane	ug/L	0.29	0.29	· U			
Trichloroethene	ug/L	0.36	0.36	U			
Bromodichloromethane	ug/L	0.26	0.26	U			
2-Chloroethyl Vinyl Ether	ug/L	0.26	0.26	U			0.4
cis-1,3-Dichloropropene	ug/L	0.29	0.29	U			
trans-1,3-Dichloropropylene	ug/L	0.19	0.19	U			
1,1,2-Trichloroethane	ug/L	0.33	0.33	U	•		
Toluene	ug/L	0.28	0.28	U			
Dibromochloromethane	ug/L	0.33	0.33	U			
Tetrachloroethylene (PCE)	ug/L	0.59	0.59	U			
Chlorobenzene	ug/L	0.23	0.23	U			
Ethylbenzene	ug/L	0.17	0.17	υ .			
Bromoform	ug/L	0.62	0.62	! U			The sales
1,1,2,2-Tetrachioroethane	ug/L	0.48	0.48	U			
1,3-Dichlorobenzene	ug/L	0.31	0.31	U			
1,4-Dichlorobenzene	ug/L	0.37	0.37	' U			
1,2-Dichlorobenzene	ug/L	0.36	0.36	U			
Xylene (Total)	ug/L	0.59	0.59	บ			
1,2-Dichloroethane-d4 (S)	%	102	80-120)		20	
Toluene-d8 (S)	%	98	88-110)			
Bromofluorobenzene (S)	%	104	86-115	5			

Report ID: 170433 - 3690975

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CERTIFICATE OF ANALYSIS







QUALITY CONTROL DATA

Workorder: J1105317 1106359

QC Batch:

EXTj/21320

Analysis Method:

FL-PRO

QC Batch Method:

FL-PRO

Prepared:

06/16/2011 13:00

Associated Lab Samples:

J1105317001

METHOD BLANK: 756658

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
TPH	ug/L	100	100 U
o-Terphenyl (S)	%	82	82-142
Nonatricontane-C39 (S)	%	88	42-193

QC Batch:

EXTj/21321

Analysis Method:

SW-846 8270C (SIM)

QC Batch Method:

SW-846 3510C

Prepared:

06/16/2011 13:00

Associated Lab Samples:

J1105317001

METHOD BLANK: 756664

Parameter	Units	Blank Result	Reporting Limit Qualifiers			
SEMIVOLATILES			9.700	ben	, and	
Naphthaiene	ug/L	0.15	0.15 U			
2-Methylnaphthalene	ug/L	0.18	0.18 U			
1-Methylnaphthalene	ug/L	0.12	0.12 U			
Acenaphthylene	ug/L	0.13	0.13 U			
Acenaphthene	ug/L	0.13	0.13 U			
Fluorene	ug/L	0.10	0.10 U .	. 100	siin e	
Phenanthrene	ug/L	0.10	0.10 U			
Anthracene	ug/L	0.080	0.080 U			
Fluoranthene	ug/L	0.084	0.084 U			
Pyrene	ug/L	0.12	0.12 U			
Benzo[a]anthracene	ug/L	0.029	0.029 U			
Chrysene	ug/L	0.060	0.060 U		3.57	
Benzo[b]fluoranthene	ug/L	0.025	0.025 U			
Benzo[k]fluoranthene	ug/L	0.082	0.082 U			
Benzo[a]pyrene	ug/L	0.023	0.023 U			
Indeno(1,2,3-cd)pyrene	ug/L	0.039	0.039 U			
Dibenzo[a,h]anthracene	ug/L	0.047	0.047 U			
Benzo[g,h,i]perylene	ug/L	0.092	0.092 U			
Decafluorobiphenyl (S)	%	61	21-122			
*						

QC Batch:

DGMj/22983

Analysis Method:

SW-846 6010

QC Batch Method:

SW-846 3010A

Prepared:

06/20/2011 08:00

Report ID: 170433 - 3690975

Page 8 of 13

CERTIFICATE OF ANALYSIS





> Phone: (904)363-9350 Fax: (904)363-9354

QUALITY CONTROL DATA

	14405247004
Associated Lab Samples:	J1105317001

METHOD BLANK: 757096

Workorder: J1105317 1106359

Blank Reporting Parameter Units Result Limit Qualifiers

METALS Lead

QC Batch:

QC Batch Method:

mg/L 0.0013 0.0013 U

Analysis Method:

SW-846 8011

Prepared:

06/23/2011 14:00

J1105317001 Associated Lab Samples:

EXTJ/21342

SW-846 8011

METHOD BLANK: 760201

Blank Reporting Units Limit Qualifiers Parameter Result SEMIVOLATILES Ethylene Dibromide (EDB) ug/L 0.0061 0.0061 U 1,2-Dibromo-3-Chloropropane ug/L 0.0059 0.0059 U Tetrachloro-m-xylene (S) 81 40.3-190

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1105317 1106359

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

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

Method Blank Contamination

Report ID: 170433 - 3690975

Page 9 of 13



Phone: (904)363-9350 Fax: (904)363-9354



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1105317 1106359

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1105317001	MW-1	SW-846 5030B	MSVj/20849	SW-846 8260B	MSVj/20850
J1105317001	MW-1	FL-PRO	EXTj/21320	FL-PRO	GCSj/20086
J1105317001	MW-1	SW-846 3510C	EXTj/21321	SW-846 8270C (SIM)	MSSj/17978
J1105317001	MW-1	SW-846 3010A	DGMj/22983	SW-846 6010	ICPj/21747
J1105317001	MW-1	SW-846 8011	EXTj/21342	SW-846 8011	GCSj/20102

Report ID: 170433 - 3690975

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CERTIFICATE OF ANALYSIS



Cfient: A	EL GIVILLE		Project name	11063	55	1					
ري : Date/Time Rovd	11-01-08:	30 Log-									
Received by:			Completed by								
Cooler/Shipping	information:										
Courier: 🗆 AEL 🗆 C	Courier: 🗆 AEL 🗆 Client 🗀 UPS 🔀 Blue Streak 🗆 FedEx 🗀 AES 🗀 ASAP 🗅 Other (describe):										
Type: K Cooler 🗆 Box				,	-						
Cooler temperature:			nperature blank or ic	e water measu	remen	nt .					
Copier ID	•										
Temp (°C)	2										
Temp taken from	Sample Bottle	Sample Bottle	☐ Sample Bonts ☐ Cooler	Sample Bottle		☐ Sample ☐ Cooter	Bottle				
Temp measured	AFIR gun S/N 9333779 D Thermometer (enter	☐ 1R gun S/N 9333779 ☐ Themometer (enter	D IR gum S/N 9333779 D Thempermeter (enter	☐ FR gust S/N 933		□ IR gun !	N-9333779 moter (enter				
with	ID):	ID):	ID):	10):		ID):					
Other Information Any discrepancies sho			tion below.		•						
7 77/	1	CHECKLIST			YES	NO	NA .				
	eals on shipping conta apers properly include					1					
		ut (ink, signed, match	lahels 17		-						
	rrive in good conditio					_					
		le #, date, signed, anal	ysis, preservatives)?		_						
	labels agree with the c										
	ttles used for the tests				_						
		niques indicated on th	e label?								
	eceived within holding					1					
		resence of air bubbles!	?								
	subbles present in the			HEIOE		+=-					
	temperature less than		one: DNO ICE DBI	LUE ICE	_						
		ed by Sample control?				-					
	ples are checked by la					-					
		ed to perform all tests?	'		_						
	e comainers provided										
	ccepted into the labor				_						
18. Was it necessar	18. Was it necessary to split samples into other bottles?										
Comments:	for Poc	uchrsis	not bron	ided.	اخک	: 1	ميمهاه				
from unp. sompto tresorration will occur											
in leab.											
		····									
							D-D045 : data:2/3/18 Sec: D. Lutzia				



Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594	Fax 407.937.1597
Gainesville: 6815 SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639	
<u>Jacksonville:</u> 6601 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354	
Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281	
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275	
Tampa: 0540 Primary Pale Ave. Tampa 51 22640 - 042 520 0645 - Fee 042 620 4227	

		Miles				Tampa:	9610 Princ	ess Paln	Ave Ta	mpa, FL	33619 • 8	13.630.9	616 • Fax	813.630	0.4327				
Client Name: A	+6 CHURON MENTAL	Project N	ame: G	ALNE"	THE PERSON NAMED IN	t 27		_					20						~
Address:	OB9× 959	P.O. Num	ber/Project	Number:	11-01	9	f it in	SIZ T	nuch O	30	27	-1	in or		200/	110	135	9	High I
NEWBE	nny EL 32669	Project Lo	ocation: //	POSE	1077	AUE,	au	_				1	1		1	W NY			NUMBER
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Contact: 15 /	404 BENGER	w	0#	2011	-95	494	266	R	F		٥	12	7	3	0.69	TI		1	<u> </u>
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	of/				PLRA	UETE	272	ANALYSIS REQUIRED	greenfront BE	EDB	FL PRO	B	PBL		0				ABORATORY I.D.
SAMPLE ID	SAMPLE DESCRIPTION		Grab Comp	SAM	PLING .	MATRIX	NO. COUNT	PRESER- VATION	34	77	4	1	A		1	Ī			LAB
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Matrix Code: WW =	wastewater SW = surface water GW = gro	und water	DW = dr	inking water	r O = oil	A = air So	D = soil Si	L = sludg	e	Preserva	ion Cod	e: = ice	H=(HCI) S = (H	2SO4) N	= (HNO3)	T = (Soc	lium Thio	sulfate)
Received on Ice	Yes No A.Temp taken from sample		Temp from	n blank				-	Where i	required,	pH check	be	Tempe	erature v	vhen recei	ved	S_(ir	degrees	celcius)
Form revised 06/15/2	2010				Device u	sed for meas	suring Temp	by uniqu	ue identifie	r (circle II	R temp g	un used)	J: 9A (G:LT	LT-2	T: 10A	A: 3A N	1: 1A	
	quished by: Date Time	101	Rece	elved by:		Date	Time	100	100000000000000000000000000000000000000			202000000000000000000000000000000000000	ER US						
1 J. Pres		(C	1000	- Ling	_	95/12		1115					e supplied)		(320)				
2 // // /h	onleger obs/11 1330	Par	12/	beti		6.6.11	1330			ntact Personal					Pho	one :			-
4						-				e-Address									
														-					

6801 Southpoini Piury. • Jacksonville, FL 33218 • 904.383.8350 • Fax 904.283.8354 • E82674 9810 Priments Paim Ave. • Temps, FL 33819 • 813.630,9618 • Fax 813.630,927 • E84689 6815 SW Arnher Ropd • Gainesville, FL 32608 • 352.317.2348 • Fax 352.395.6619 • E82601 826 S. North Leke Bird., Sts. 1018 • Altamonto Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597• 653078

J1105317

CLEENT MAAKE:	AEL-Galnesville	PROJECT HAL	æ		AAG Enviro	needs!		2:0	Š		1								
ADDRESS:	6815 SW Archer Rd	P.O. NIAMBER/PROJECT MINUSER: Galemania RTS			SOTTLE SEZE & TYPE	chas						1		1 1	1	1 62			
	Gainesville, FL 32608	PROJECT LOCAT	TIORS		,			۵	4 6c										NUMBER
THONE:	352-377-2349		RELLAR	XSISPECIAL WE	TRUCTIONS				4		ŀ								💆
FAX	362-395-6639							ANALYSIS REQUIRED	Q+		l								J.
CONTACT:	Karen Decrets							22	ш										
Sampled by:								8				ł			l			, ,	뜅
	TURN ARGUME TIME:							<u>`</u>	\$		Ř	<u> 10</u>	- -,						\$
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SAMPLE ID	SAMPLE DESCRIPTION		Grab Comp	Semp	TIME	MATRIX	HO. COUNT	PRESERV											٦
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	WW = wastewater SW = surface water GW = ground		_											H28O4)			(Bodhan)		(e)
Received on law		enque [Temp from	n temp blank	ļ.,,	Where requ	rod, pH cla	cked				n recel		2	(ln	degree	e colcl	ne)	,
Form rovised 2/8/0	09 Rollneråshed by: Deta Tima		Receive	d by:	Davica u	sed for mod Date	suring Tem Time	b ph nucus				WATI			11-1	1: 1QA	V: 3V		
	Flantin 6" KII 1700								, ,			dos soi et			PY/S 10:_				

Friday, June 24, 2011 4:44:43 PM Page 12 of 13

Advanced Environmental Laboratories, Inc.

6801 Southpoint Parkway Jacksonville, Fiorkia 32218

(604) 383-8350

FAX (904) 383-8354

QCBatch:

MSSJ/17978

B270 Method:

PrepMethod:

RECEIPT

No Exceptions were encountered.

EL HOLDING TIMES

Preparation: Analysis:

All holding times were met. All holding times were met.

III. PREPARATION

There was limited volume for MSASD enalysis. The cample was split at equal volumes during the extraction process. The

volume discrepancy is calculated in the final result.

VI. ANALYSIS

A. Calibration:

All acceptance criteria were met.

All acceptance criteria were met.

C. Surrogates:

All acceptance criteria were mat.

D. Spiltes:

The matrix spike recoveries of Naphibalene, 2-Methylasphibalene, 1-Methylasphibalene, Aceasphilylene and Aceasphibale were outside the control criteria because of suspected matrix interference. The extractionist noted enuisions forming during the extraction process which affect accurate recoveries. As a result of the interference, the results for these assists might contain a low bias. The LCS met all orderia which indicates the batch was in control. The effected results are qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples:

Sample analysis proceeded normally.

G. Other:

I centify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Technical Director or his designee, as verified by the following signature, has authorized release of the date contained in this hard copy date package and in the computer-readable date submitted on diskette:

GROUNDWATER SAMPLING LOG

SITE HAME:	GAINE	shue	nts		3 L	OCATION: 1	100SE K	THAVÉ :	Ib# (01/85	18076
V/ELL HO		Mul		SAMPLE		mu			DATE:	6/15	11,
					PUR	GING D	ATA				
WELL	R (inches):	TUBIA	G TER (inches):	1 WE	LL SCREEN	INTERVAL set to) 5	STATIC		/ PU	RGE PUMP T	BO
WELL VO	LUME PURGE	1 WELL VO	LUME = (TOT	AL WELL DEP	TH - STA	ATIC DEPTH	TOWATER)	TER (feet): 7	O OR	BAILER:	
(Omy mil or	л п аррисавів)		= (15	foot -	76	fact) \	0.04	gallons/fo	ot = 6	3.3 gallons
EQUIPME (only fill ou	NT VOLUME P It if applicable)	URGE: 1 EQ	UIPMENT VOL	. = PUMP VOL	UME + (TUE	BING CAPAC		UBING LENGTH			J Guiotta
			1	≖ ga	alions + (lons/foot X	feet)+	gallons	= [/] gallons
	JMP OR TUBIN WELL (feet):	9.0	DEPTH IN	F OR TUBING WELL (feet):	9.5	PURGII INITIAT	ED AT: 1032	PURGING ENDED AT:	1045	TOTAL VOL PURGED (g	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm	OXYGEN (oinds units)	TURBIDIT (NTUs)	Y COLOS (describ	
1033	6.3	0.3	0.1	8.6				% saturation		FLIGHT	
1036	1	0.6		8.7	7.26	24.8	0.412	D.23	29	CLERO	· · · · · · · · · · · · · · · · · · ·
1939		0.9		8.65	7.21	24.6	D.466	8.22	30	1	
1025		1.2	11	8.55	7-18	24.5	0.402	10.22	18		
1045	W .	1.5	W	8.53	7.17	24.5	D.398	8.21	13	1	_ V
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										1	
WELL CAP TUBING IN	PACITY (Gallon ISIDE DIA. CAI	s Per Foot): (PACITY (Gal./	0.75" = 0.02; FL.): 1/8" = 0.0		1.25" = 0.08 = 0.0014;	3; 2" = 0.1 1/4" = 0.002			5" = 1.02; .006; 1/2"		12" = 5.88 V8" = 0.016
PURGING	EQUIPMENT C	ODES: B	= Bailer; E	P = Bladder P	ump; E		Submersible Pu	mp; PP = Pe	ristaltic Pump); O = Oti	her (Specify)
SAMPLED	BY (PRINT) / A	FFILIATION:	/	SAMPLER(A)		LING DA	ATA	T		T	
151	MERIE	raem	AAL	VCJI	1 Pre	~		SAMPLING INITIATED AT	: 1045	SAMPLING ENDED AT	
PUMP OR DEPTH IN	TUBING WELL (feet):	9.5		TUBING MATERIAL CO	DE PE	7/6)-FILTERED: Y ion Equipment Ty	(N)	FILTER SIZ	ZE: μm
	CONTAMINATIO	ON: PUN			TUBING	Y (N(r	epiaced)	DUPLICATE:	γ ,	FN)	
	PLE CONTAINE	R SPECIFICA	ATION			RESERVATIO		INTENDI		AMPLING	SAMPLE PUMP
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL	(mL) FINAL	ANALYSIS A	ם ס	CODE	FLOW RATE (mL per minute)
MWI	3	CG	4DML	3 H		1		BTEN A-1	BE R	PPP	100
1	_3	CG	40in L	14,23				Ebl	3	1	150
	}	AG	14	15		<u> </u>	_ _	PAH		APP	200
		AG	SOVML	15 1I			-	FLAN		1.	
		V	20,70	<u>'+</u>				Pb		V	-V-
REMARKS	REMARKS: TABLE B ANALYTES										
	MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLIN	G EQUIPMENT		APP = After Pe RFPP = Revers	ristaltic Pump; se Flow Perista	B = Ba liic Pump;		= Bladder Pump; w Method (Tubin	: ESP = Elect g Gravity Drain);	ric Submersib O = Other		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

DEP-SOF-011/01 FT 1000 General Field Texting and Meseurement

GUL RTS

imetan ib	Form FD 9000-8: FIELD INSTRUMENT CALIERATION RECORDS INSTRUMENT (MAYEMODEL#) HOMBA V TO INSTRUMENT #									
	PARAMETER: [check only one]									
	_			nvity 🗆 s	VTIMI IA	D Z pH	ORP	•		
	☐ TEMPERATURE (A) CONDUCTIVITY ☐ SALINITY (D) CP ☐ ORP									
— •		_		ndards used for c						
values, and	the date t	he standards	were prep	ared or purchased	g	U	, ,			
		84 no								
Stand	ard B	pH	40							
Stand		C) NO	10							
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS		
11/06/15	D880	A	84	83	12	765	COUT	~		
	1520	A	84	84	-	lè	1	OL		
V	0805	B	4.0	3,98	4	YES		1		
	1825	B	4.0	3.99	41	ł,		ん		
	0810	C	0	Q	1	YEZ		~		
V	1530	C	D	0	_	Li		ト		
					,					
								•		
	(1				

(affective angle) Fi 1999 (angle) Fish Teadig and theoryments

	Fun	m FD 9000	J-&: Fiel	d hattume	IT CAL	JEFATION F	records	
Wethur	NEHT (N	WIEMIC	ELM)	MILI RAE	2000	MSTEUR	aehta <u>sa</u>	<u> 101 - 488 </u>
parame	ter: <i>K</i>	hed: only	one]		עניק			
☐ TEN	<i>i</i> peratu	RE 🗌	COMDUCT	nvity 🔲 s				
				_a 🗆	10	ГС⊕Д	IER ONG	ANIC
voneva, ente		in Amilianida	well plant	ndards used for ca ared or purchased	88 _		standards, the	rondard standard
Stand	ard A	1508	UTYL	ent gas	(lor	April)		
Stande	ard C	···						
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
1106/03	0745	A	100	99.6	4/	YES	(aut	2
	1645	A	100	100	-	1	1	n
T								
V								
						•		
						1	1	
	 	 	 		 		 	

APPENDIX C

Soil Boring Logs
Well Construction and Development Log
Well Completion Report
Well Abandonment Report

BORING LOG

		Page 1 of
Boring/Well Number:	Permit Number:	DEP Facility Identification Number:
Site Name:	Borehole Start Date: 6 2 11 Borehole Start Ti	
GAINESVILLE POTS	Borehole Start Date: 6/3/// Borehole Start Ti	0113
Environmental Contractor:		nvironmental Technician's Name:
AAGENINONPRENTAL	PJ MDMBERGER	J. MESLEY
	ent Thickness (inches): Borchole Diameter (inches):	Borehole Depth (feet):
EDS, FAC		12
Drilling Method(s): Apparent Boreho from soil moist	ole DTW (in feet Measured Well DTW (in feet after water recharges in well):	VA (list model and check type):
Disposition of Drill Cuttings [check method(s)]:	Stockpile Other
(describe if other or multiple items are checke	d):	
Borehole Completion (check one):	Well Grout Bentonite Backfill	C Other (describe)
Unfiltered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type	Sample Description (include grain size based on USCS, odors, and other remarks)	and depth or temporary screen interval)
40000	O LS LIMESTONE FILL	LS D
HA 0-4 48	0 LS LIMESTONE FILL 1-2 SM SAND, FINE ANAM DET SILT, NOW PLASTIC! Brank, DRY	LAP) SM D SOIL SAMPLE SS300 1-2FT
DP 4-12 84	O SPS SAND, MED. GANING G N. P., 400000 Choro	
	D = 8 D = 8 CLAST'S LOWP. BLU SI MONT	and M
	O SP SALD MEDERAN GO N.P. V. MOST - W Grown	SP VEN VEN

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

Page 1 of FDEP Facility Identification Number: Boring/Well Number: Permit Number: 01/85/8076 Borehole Start Date: Borehole Start Time: OG 40 XAM F PM End Time: 1005 ZAM PM
Environmental Technician's Name:

7. MESLE 4 GAINESUILLE PETS End Date: Environmental Contractor: Geologist's Name: AAGENIRONMENTAL RJ MOMBER GER Pavement Thickness (inches): Borehole Diameter (inches): Borehole Depth (feet): **Drilling Company:** EDS, THE Apparent Borehole DTW (in feet OVA (list model and check type): Drilling Method(s): Measured Well DTW (in feet after from soil moisture content): 7 MILINAE 2000 FID X PID water recharges in well): **Backfill** Stockpile Stockpile C Other Disposition of Drill Cuttings [check method(s)]: Spread (describe if other or multiple items are checked): [Well Grout Borehole Completion (check one): Bentonite **S** Backfill Other (describe) Lab Soil and Sample Recovery Sample Depth Interval (feet) SPT Blows (per six inches) Unfiltered OVA **USCS Symbol** Groundwater Filtered OVA Sample Type Depth (feet Net OVA (inches) Sample Description Samples (list (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen PID interval) LINESTONE FILL O HA 48 SAND FINE GRAIN QUE SICTY, N.P. GRAIN DM - BRAN 6 72 SAND, MED. GRAIN DER TRACE CLAY N.P. Brown Day 19 SAND, MED GRAND OF SP W SAND, MED GRAND OF SP W N.P. Brune WET SP W 11

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

Page 1 of Boring/Well Number: Permit Number: FDEP Facility Identification Number: 01/85/8076 Borehole Start Date: Borehole Start Time: NOO C XAM I PM End Time: 1025 SAM F PM GAINESUILLE PZTS End Date: Environmental Technician's Name: Environmental Contractor: Geologist's Name: RJ MOMBERGER J. MESLEY AAG ENVIRONMENT BY Drilling Company: Pavement Thickness (inches): Borehole Diameter (inches): Borehole Depth (feet): Drilling Method(s):__ Apparent Borehole DTW (in feet OVA (list model and check type): Measured Well DTW (in feet after MILINAE 2000 FID & PID from soil moisture content): water recharges in well): Stockpile Disposition of Drill Cuttings [check method(s)]: ☐ Drum Spread Backfill (describe if other or multiple items are checked): Borehole Completion (check one): Well ☐ Grout | Bentonite **Z** Backfill Other (describe) ASPANT PATCH Lab Soil and Sample Recover Sample Depth Interval (feet) Infiltered OVA per six inches USCS Symbo Filtered OVA Groundwater Sample Type Depth (feet Net OVA **Sample Description** Samples (list (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen PID interval) limestone fill SAND FINE ARMIN OFT S SILTY NOP. PROWN DMy N.P. Brown Dry SPD 6 SAND, MED ANAIN OTT SUM.

CLARET, CAN PLASTICITY

BLUE-GRAY VIOLET 11 12

Page 1 of FDEP Facility Identification Number: Boring/Well Number: Permit Number: 8518076 CB 4 Borehole Start Date: Borehole Start Time: Site Name: GAINESUILLE PETS End Time: 1945 End Date: Environmental Technician's Name:

7. MESLE 4 Geologist's Name: RJ MOMBER GER AAG ENVIRONMENTAL Borehole Depth (feet): Pavement Thickness (inches): Drilling Company: Borehole Diameter (inches): Drilling Method(s); Apparent Borehole DTW (in feet Measured Well DTW (in feet after OVA (list model and check type): MILINAE 2000 FID X PID from soil moisture content): water recharges in well): Backfill Stockpile C Other Disposition of Drill Cuttings [check method(s)]: Drum Spread (describe if other or multiple items are checked): √ Well ☐ Grout Bentonite Backfill Other (describe) Borehole Completion (check one): ASPART PATCH Lab Soil and Sample Recovery Moisture Content Sample Depth Interval (feet) Unfiltered OVA (per six inches) USCS Symbol Groundwater Filtered OVA Sample Type Depth (feet SPT Blows Net OVA **Sample Description** Samples (list (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen ASPMANT
LIMESMONE FILL
SAND, FINE GNAIN OTTE SM
SILTY IN.P., BACKET
DAY
DAY PID interval) ₩ 48 O N.A. Brown DRY SP 10 0 O O WETO POLY SC 10 11 12

		Page I of
Boring/Well Number:	Permit Number:	FDEP Facility Identification Number: 01/8518076
Site Name:	Borehole Start Date: 6/3/1/ Borehole Start 7	Time: 1110 KAM FPM
GAINESVILLE PETS		ime: 1130 KAM T PM
Environmental Contractor:		Environmental Technician's Name:
AAG ENINOWA ENT & L Drilling Company: Pa		J. MESLEY
EDS AMC	avement Thickness (inches): Borehole Diameter (inches):	Borehole Depth (feet):
		OVA (list model and check type):
DPT from soil n	moisture content): water recharges in well):	MILINAE ADOUT FID X PID
Disposition of Drill Cuttings [check meth (describe if other or multiple items are ch		Stockpile Other
Borehole Completion (check one):	Well Grout Bentonite Backfill	Other (describe)
Unflitered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type	Filtered OVA Net OVA (include grain size based on USCS, odor and other remarks)	and depth or temporary screen interval)
HA 0- 48	D IS LIMESTONE FILL	- LS D
	D LS LIMESTONE FILL D SAND FINE KNAM SILTY N.P. GNAM D _ 3 DN	- OTE SAN D
	O 3 SILTY, N.P. GARY	rand
		4
DP 4- 60		
, 10 0	0 5	
	O SP SAND, MED GRAIN D	OBIS SPD
	0 7 N.P. BIWGOD D	
	O SC CLAYER, BUELARS	moist SC M
	O SP SAND MED GAREN	
"	11	

														Pa	ige l of	f
Boring	/Well l					Permit	Number:						FDEP Fa	cility Ide	ntificat	ion Number:
		<u>الو</u>	6					•		_	1			851		
Site N				V 20	con.	Boreho	le Start D	ate: 🕻	13	111	Borehole		1.5	130		АМ ГРМ
			LE. P	47			End Da		1-	3/11			ime: //		<u> </u>	
Enviro	nmenta	l Conti	ractor:	T""24			ist's Nam		يدروس ها	1			Environn	nental Te	chnicia: جورح	n's Name:
HA Drillin	g Comp	VIII J	NACE	wi by	Paveme		TMi kness (inc				neter (inch	ec).		Borehole		
			MC		- aveile	-11 I III CI		iiwj.		الماملا بازادا حق آصمر	L	way.	ľ		ĬÖ	(iwij.
Drillin	g Meth	od(s):			t Boreho				asured	Well DTV	(in feet aft		OVA (lis			
	DP-			from so	oil moistu	re conte	nt): 9,5	W	ater re	charges in	well): 🕆		WHIN	AEA	<i>coupt</i>	FID 🗶 PID
Dispos	sition of	Drill (Cuttings [check m	ethod(s)]:	1 D	rum	r s	pread	Back	fill	i s	tockpile	٣	Other
(descr	ibe if ot	her or	multiple i	tems are	checked	d):										
Boreh	ole Con	pletion	n (check c	ne):	1	Well	Gro	ut	В	entonite	JZ B	Backfill		Other		
													Asi	MALL	P4	TCH
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)		_	in size bas and ot	e Descrip sed on USC her remarl	CS, oder ks)		ymbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	40	48				0	ts	AS	PHF ME 1	FLT STUP	E'PEF FILL	44 C	NAVE	LLS	D	
DP \	10	6D				0	_ 2 _ 3									
						0	4									
						0	6									
						0	_ 7									
						6	8 9		1	/				45	M	
1						Ó	10	د 2	s et M	D AT	7.5 p TO 18	+		LS	W	
							11									

Page 1 of Boring/Well Number: FDEP Facility Identification Number: Permit Number: 01/85/8076 Borehole Start Date: Borehole Start Time: 1/75 KAM F PM GAINESUILLE PETS MAY MA THAM End Date: End Time: Environmental Contractor: Geologist's Name: Environmental Technician's Name: NJ MOMBER GER J. MESLEY AAGENNONMENTAL Pavement Thickness (inches): Drilling Company: Borehole Diameter (inches): Borehole Depth (feet): Apparent Borehole DTW (in feet OVA (list model and check type): Drilling Method(s):__ Measured Well DTW (in feet after MILIMAE 2000 FID & PID from soil moisture content): 9.5 water recharges in well): Stockpile Disposition of Drill Cuttings [check method(s)]: Drum Backfill Backfill Other Spread (describe if other or multiple items are checked): Well Grout Bentonite Backfill Borehole Completion (check one): COther (describe) ASOMALT PATCY/ Lab Soil and Unfiltered OVA Filtered OVA USCS Sample Type Groundwater Net OVA Sample Description Samples dist (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen PID interval) LIMESTONE "PEA"

6 NAVEL FILL 45 SAND, MED GRAND GOT SP N.P. BROWN WET SP

Page 1 of FDEP Facility Identification Number: Boring/Well Number: Permit Number: Borehole Start Date: Borehole Start Time: Site Name: End Time: 121 GAINESUILLE PETS AM PM End Date: Geologist's Name: Environmental Technician's Name: Environmental Contractor: PRESLEY RT MOMBER GER AAG ENVIRONMENTAL Pavement Thickness (inches): Drilling Company: Borehole Diameter (inches): Borehole Denth (feet): Drilling Method(s): Apparent Borehole DTW (in feet OVA (list model and check type): Measured Well DTW (in feet after MINIMAE 2000 FID X PID from soil moisture content): water recharges in well): **Backfill** Disposition of Drill Cuttings [check method(s)]: ☐ Drum Stockpile Other Spread (describe if other or multiple items are checked): T Well F Grout Cher (describe) **Bentonite** Dackfill Borehole Completion (check one): ASPINATE PATEH Lab Soil and Sample Recovery Moisture Content Unfiltered OVA (per six inches Sample Depth Filtered OVA USCS Symbo Groundwater SPT Blows Net OVA **Sample Description** Samples (list (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen interval) 3 5 6 10 11

Page 1 of Boring/Well Number: FDEP Facility Identification Number: Permit Number: 8518076 Borehole Start Date: Borehole Start Time: GAINESVILLE PETS End Date: End Time: Environmental Contractor: Geologist's Name: Environmental Technician's Name: AAGENIRONMENTAL J. MESLEY Drilling Company: Pavement Thickness (inches): Borehole Diameter (inches): Borehole Depth (feet): Apparent Borehole DTW (in feet Drilling Method(s); OVA (list model and check type): Measured Well DTW (in feet after MAINAE 2000 FID & PID from soil moisture content): water recharges in well): Disposition of Drill Cuttings [check method(s)]: Drum Spread Backfill Stockpile Other (describe if other or multiple items are checked): ſ Well Grout Borehole Completion (check one): Bentonite Backfill Other (describe) PATCH Lab Soil and Sample Recovery Moisture Unfiltered OVA Sample Depth (per six inches) Filtered OVA **USCS Symbol** Sample Type Interval (feet) Groundwater Depth (feet SPT Blows Net OVA **Sample Description** Samples (list (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen PID interval) 45 10 11

Page 1 of FDEP Facility Identification Number: Boring/Well Number: Permit Number: 01/85/8076 Borehole Start Date: Borehole Start Time: GAINESVILLE PETS End Time: 1245 AM SCPM End Date: Environmental Technician's Name: Environmental Contractor: Geologist's Name: RTHOMBERGER AAG ENVIRONMENTAL Pavement Thickness (inches): Drilling Company: Borehole Diameter (inches): Apparent Borehole DTW (in feet OVA (list model and check type): Drilling Method(s):___ Measured Well DTW (in feet after MILIMAE 2000 FID X PID water recharges in well): from soil moisture content): Drum Disposition of Drill Cuttings [check method(s)]: Spread **Backfill** Stockpile Other (describe if other or multiple items are checked): Backfill **√** Well Grout Bentonite Other (describe) Borehole Completion (check one): Lab Soil and Sample Recovery SPT Blows (per six inches) Unfiltered OVA Sample Depth **USCS Symbol** Filtered OVA Groundwater Net OVA **Sample Description** Samples (list (include grain size based on USCS, odors, staining, sample number and other remarks) and depth or temporary screen PID interval) LIMESTONE FILL 4 SAND FINE GRAIN CORE
SILTS GRAY-BROWN LD 60 O 10 N.P. BROWN, DRY 0 SCIGHTY CLAYEN 8-9 AT N.P 10 11

-												f_ Z
Boring/Well Num				Permit	Number:							ion Number:
	nw1			2 1	1. O D			<u> </u>		8518		
Site Name:			_	Boreno			-3-11	Borehole Start				AM PM
GAINES		145			End Da	ate: 6	-3-11	End '	Time: /			AM ZPM
Environmental Co		HERIT	4 L	Geolog	ist's Nam	e: I 🎧 🚜	BERGE	n_		nental Tec PNES		
Drilling Company	v.				kness (inc		Borehole Dian			Borehole		
ED!	SIEW	<u> </u>		C	<u>`</u>			3` ~			سخا	
Drilling Method(s	s):		t Boreho				sured Well DTW			t model ar		
		<u> </u>			nt): 9. 5		ater recharges in	/	<u> </u>			FID PID
Disposition of Dr				-	1 D	מערול •	Spread	Backfill	I S	tockpile	1	Other
(describe if other				 -								
Borehole Comple	tion (check o	one):	又	Well	f" Gro	ut	F Bentonite	T Backfi	u (Other (c	lescrib	e)
(inches) Sample Depth Interval (feet) Sample Type	SPT Blows (per six inches) Sample Recovery	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	de grain size bas	: Description led on USCS, odd her remarks)	ors, staining	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
MA 0- 4	8			9	15,	U	MESTON	EFILL	······································	LS	D	
				ก	SM	SA	NO, F.G	DIE FILL DON-PEAS -BAUM		Sa	D	
					├ ^⁴	S	1255 ん	ion-Peas	716/			
				0	3		angs	-BAURA		7		
								Dr	را			
7 9	y l			0	4			•	•	10	ת	
VP 12 Q	6			O	\mathcal{F}_{5}	SA	ND, MG	AY, N.	P.	CA .	D	
				0	6	•	Brown	DM				
				0		!	Discolo					
					├ ⁷							
	j			8.2	R						_	
					SC	SAL	10, M.a	. Oth		SC	SL.	
				0	9	6	LAYEY	, Low R.	BUNE		7-1	
				0			Sc. MOL	Low R,	CVWI	ا مر		
		1	1		<u> </u>	ه که	NO, M	C OT	gar. ga	SP	W	
	Ì			0	SP 11	A	o.P., BA	مع مدن.				
				-				ET				
1 1	1	1	l	ا 🗸	12	1				1	l	

Page 2 of

							=			ige 2 of	
Borin	g/Well N	Number		FDEP I	acility	Identific	ation Nun	ber: Site Name: Boreh	ole Start I End D		6-3-11 5-3-11
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA P	Depth (feet)	Sample Description (include grain size based on USCS, odors, stainin and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
P	D S	36				000		PAND, MED.G. OTT N.P. BROWN WET END OF BRAING IS AT	SP		

WELL CONSTRUCTION AND DEVELOPMENT LOG.

			W.H.H. U	TIMISTER	UCTION	i i i na 'T' A			
 Well lumber:	Site Hame:			יאַ אַ פויי זערי.	PIUR R J.O.		ility I.D. Numb	· 10/-11 f.	rsiall Date(s):
MWI	GA			CE R	75		15/807	5 6	3/11
Well Location and Type (check		1	Well Pur	• '	Perched Moni	-		Well Install	-
Off-Site Private Property	Right-of-Wa	ay		7	Shallow (Wate			D^{μ}	
• •	Flush-to-Gra	nde l		۲.	Intermediate	_	_	Surface Casi	ng Install Method
If AG, list feet of riser above land	*****************			1	Remediation of	or Other (des	cribe)	Surrance Cap	
Borehole Depth Well		orehole D	iameter	Manhole D	ameter	Well Pad S	lize.		
	,		~ □	(inches):	S C C C C C C C C C C C C C C C C C C C	Well I au S		by <u>2</u>	feet
Riser Diameter and Material:	Riser/S		Mush-	Threaded		Riser Leng		eet	
1" 5CH 40 PU	Conne	otione:	_	(describe)			from S	feet to	feet
Screen Diameter and Material:				ot Size:		Screen Len	gth: // f		
1" 5CH 40 P	30Cm	Ī		DID	•		from 5	feet to	5 feet
1st Surface Casing Material:	-		1 st Surfac	e Casing I.I	O. (inches):	1 st Surface	Casing Length:		eet
also check: Permanent	Temp	F			, ,		from 0	feet to	feet
2 nd Surface Casing Material:			2 nd Surfa	ce Casing I.	D. (inches):	2 nd Surface	Casing Length:	1	ect
also check: Permanent	Temp	огату					from 0	feet to	feet
3 rd Surface Casing Material:			3 rd Surfac	e Casing I.I	D. (inches):	3 rd Surface	Casing Length:	f	eet
also check: Permanent	Tempo	orary				•	from 0	feet to	feet
Filter Pack Material and Size:	Prepacked F	ilter Arou	nd Scree	n (check on	e):	Filter Pack	Length:	15	feet
20/300754~0	Yes		ſ No			ł	from	feet to	15 feet
Filter Pack Seal Material and		}				Filter Pack	Seal Length:		feet
size: Fine St	- CAM	301	65				from <u>Y</u>	feet to	<u>feet</u>
Surface Seal Material:	البحداد الم	رسيسية الم				Surface Sea	l Length:	4	feet
NEAT C	ten e	ru j					from	feet to .	7 feet
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III Danie			*********	7	PMENT				
Well Development Date:		Other	-	lethod (chec	:k one): 	Surge/P	ımp P	ump [(Compressed Air
Development Pump Type (che	, ~	ntrifugal	Per	istaltic	Depth to Gro	oundwater (b	efore developir	in feet):	
Pumping Rate (gallons per mi	nute):	Maxi	mum Dra	wdown of (l Groundwater l		Well Purged D	ry (check one	e):
002-0	. 3	Deve	lopment	(feet):	5	_	∫ Yes	×	blo
Pumping Condition (check on Continuous Intermit	1	Developm ved (gallo:			Developmen (minutes):	t Duration	Development \((check one):	Water Drumm	
Water Appearance (color and	odor) At Start	of Develo	pment:		Water Appe	<u> </u>	r and odor) At E	and of Develo	
CLOUNG	/ NOA		•		C	EAN	100	سيع	•
			o anges sein er a degree en a		The state of the s				
	WELL CO	ONSTR	RUCTI	ON OR	DEVELO	PMENT	REMARK	Š	
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STATE OF FLORIDA WELL COMPLETION REPORT



□ Southwest □Northwest St. Johns River
South Florida
Suwannee River
DEP PLEASE, FILL OUT ALL APPLICABLE FIELDS (*Denotes Required Fields Where Applicable)

Delegated Authority (If Applicable) ALACHUA

Official Use Only

Date Stamp

	WE THE						
And the second s		P Number					
2.*Number of permitted wells co	onstructed, repaired	d, or abandoned 1	*Number	of permitted wel	ls not constructed	, repaired, or a	abandoned 0
3. Owner's Name CITY OF G.	AINESVILLE	Acord was high site	4.*Comple	etion Date _6/3/	11 '5. Florid	da Unique ID	
6. 100 SE 10TH AVE, GAINE		and the same of					
'Well Location - Address, Roa	d Name or Numbe	r, City, ZIP					
7. County ALACHUA	*Sec	ction 9 Land	d Grant	Caracana a car	*Towns	ship10	*Range_20
8. Latitude		Longitude					
9. Data Obtained From:	SPSMap	Survey		Datum:N	IAD 27N	AD 83	_WGS 84
10.*Type of Work: X Construction 11.*Specify Intended Use(s) of Value	Vell(s): led Use/DOH) Imunity or Non-Cor ge CommercAir Sparge	_Landscape Irrigatio _Recreation Area Irr mmunity/DEP) ial/Industrial Disposa Other (Describe)	on rigation	Agricultural Livestock Nursery Irri Commercia Golf Course	gation X al/industrial Elimination Control overy Draina	HVAC Suppl HVAC Return ge	ed Geothermal y n
12.*Drill Method:Auger	Cable Too	Rotary	Combinati	on (Two or More	Methods)	_Jetted	Sonic
13.*Measured Static Water Lew 14.*Measuring Point (Describe) 15.*Casing Material: Blac 16.*Total Well Depth 15 ft.	elft. I	Ivanized X PVC	Water Level hisft Stainle	Above	fterHou Below Land Surfa Not Cased	ce 'Flowing: Other	Yes^
THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	Other (Explain)						
Fromft. Toft Fromft. Toft Fromft. Toft	No. of Bags No. of Bags No. of Bags No. of Bags No. of Bags	Seal Material Seal Material	(Check One):_ (Check One):_ (Check One):_ (Check One):_ (Check One):_	Neat Cem Neat Cem Neat Cem Neat Cem Neat Cem	ent Bentor ent Bentor ent Bentor	nite Oth nite Oth nite Oth	
18. Surface Casing Diameter a	A STATE OF THE STA						04
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21.*Telescope Casing Diamete Diain. From Diain. From Diain. From	r and Depth: _ft. Toftft. Toft.	No. of Bags No. of Bags No. of Bags	Seal Material Seal Material	(Check One): (Check One): (Check One):	Neat Cement Neat Cement Neat Cement	Bentonite Bentonite Bentonite	OtherOtherOther
22. Pump Type (If Known):					Vhen Required):		
CentrifugalJet Horsepower Pu	Submersitump Capacity (GPN ke Depth	A)(A)	iron		Sulfate	opm Chlorid	deppm
*Contractor Name DOUGLAS	A. LEONHAR DT	License Number	er 2106	E-mail A	ddress LISA@ED	SENVIRONM	ENTALCOM
· Contractor's Signature	that the information srovi	ded in this report is accurate	Drill on the	er's Name (Print	or Type) CHR	IS PHELPS	

*Permit No.	N/A	

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

I TORKI CUT	TINGS	LOG (Evami	ne cut	tings every 20 ft or of fo	mation changes. Alote coulties and d	lepth to producing zone. Grain Size: F=Fine,
M=Medium, a	and Cat	Coarse)	o cul		menon changes. Note cavilles and o	eper to producing zone. Grain Size: F=Fine,
From 0	ft.	To 15	ft.	Color_TAN	Grain Size (F, M, C) F	Material SAND
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From	fl.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F. M. C)	Material
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From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
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From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	<u>To</u>	ft.	Color	Grain Size (F. M. C)	Material
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		***	SITE	MAP ATTACHED ***		
					f Site Map of Well Location	
				Detanet	s Site map of vien Location	
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4						

ENVIRONMENTAL DRILLING SERVICE, INC. WELL COMPLETION LOG

Site Address:	100 SE 10TH AVE		v	/ork Order #:	710	<u>9</u>
	GAINESVILLE		· ———			
Client:	AAG		Com	pletion Date:	6/3/201	1
Well No.:				Contact	BOB MOMBE	RGER
Installed By:	CHRIS PHELPS	_	Measu	red Static Water Le		
Other Services Pe	rformed:			A**)	IUST BE FILLED	IN**)
						
	}	Ħ		_ X _ Fli	ush Manhole	
				At	ove Grade Prot	ector
				No	one	
				Con	crete:3	_Bags
				Cement C	Frout: 0.5	_Bags
	5			RISER	Type: ASTM P	vc
				Dian	neter: 1"	
					Seal: <u>30/65</u>	
15					0.5	_Bags
				SCREEN	Type: ASTM P	vc
	10			Dian	neter: <u>1"</u>	
				Slot	Size: 0.010	
				ĺ	Filter: <u>20/30</u>	
					PREPAC	<u>K</u> Bags
Development: Bailed	Pumped	Air Lift_	Surge	Swab	None	x
Total Time:			Total (Sallons:		
Water Appearance	Start:		Finish:			

STATE OF FLORIDA WELL COMPLETION REPORT



☐Southwest ☐Northwest ☐St. Johns River ☐South Florida

PLEASE, FILL OUT ALL APPLICABLE FIELDS (*Denotes Required Fields Where Applicable)

□Suwannee River

□DEP

© Delegated Authority (If Applicable)

ALACHUA

Official Use Only

Date Stamp

1.*Permit Number
2.*Number of permitted wells constructed, repaired, or abandoned *Number of permitted wells not constructed, repaired, or abandoned
3. Owner's Name CITY OF GAINESVILLE 4. Completion Date 8/16/11 5. Florida Unique ID
6. 100 SE 10TH AVE, GAINESVILLE, FL
Well Location - Address, Road Name or Number, City, ZIP
7. County ALACHUA Section 09 Land Grant Township 10 Range 20
8. Latitude Longitude 9. Data Obtained From: GPS Map Survey Datum: NAD 27 NAD 83 WGS 84
10.*Type of Work: Construction Repair Modification Abandonment
11. Specify Intended Use(s) of Well(s): Domestic Bottled Water Supply Public Water Supply (Limited Use/DOH) Public Water Supply (Community or Non-Community/DEP) Agricultural Irrigation Livestock Nursery Irrigation Commercial/Industrial Earth-Coupled Geothermal HVAC Supply
Class I InjectionHVAC Return
Class V Injection:Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)
12. Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic Horizontal Drilling Hydraulic Point (Direct Push) X Other PLUGGED BY APPROVED METHOD
13.*Measured Static Water Levelft. Measured Pumping Water Levelft. AfterHours atGPM
14.*Measuring Point (Describe) Which isftAboveBelow Land Surface `Flowing:YesN
15. Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other
16. Total Well Depthft. Cased Depthft. Open Hole: FromToft. Screen: FromToft. Slot Size
17. Abandonment: X Other (Explain) NO LONGER NEEDED
From ft. To 15 ft. No. of Bags Seal Material (Check One): X Neat Cement Bentonite Other From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
18. Surface Casing Diameter and Depth: Diain. Fromtt. Toft. No. of Bags Seal Material (Check One):Neat CementBentoniteOther
Dia in, From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
19. Primary Casing Diameter and Depth:
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21.*Telescope Casing Diameter and Depth: Dia in. Fromft. Toft. No. of Bags Seal Material (Check One):Neat CementBentoniteOther
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
22. Pump Type (If Known): 23. Chemical Analysis (When Required): CentrifugalJetSubmersibleTurbine ppm Sulfate ppm Chloride ppm
CentrifugalJetSubmersibleTurbine Ironppm Sulfateppm Chlorideppm
Pump Depthft. Intake DepthftLaboratory TestField Test Kit
24. Water Well Contractor:
*Contractor Name DOUGLAS A. LEONHARDT License Number 2406 E-mail Address LISA@EDSENVIRONMENTALCOM
'Contractor's Signature CARL LEONHARDT 'Driller's Name (Print or Type) CARL LEONHARDT

40	N/A	
*Permit No	14/74	

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	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
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		_/				
		/.	·· SITE	MAP ATTACHED **)	
		<i>(</i> :	" SITE		lled Site Map of Well Location	
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BURINGS + WELL LOCATION

CITYOF GANGEOING PTS FACILITY

100 SE LOTH AUG, GANGEOVING FL

FORT FACILITY FRE CI/85180 76