

March 26, 2012

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

RE:

Cell 6 Monitoring Well Installation

Enterprise Class III Landfill and Recycling Facility

Permit No. 177982-007-SO/T3

WACS No. 87895

Dear Mr. Morris:

Detection monitoring wells MW-15B, MW-16B and MW-17B have been installed as specified in our February 23, 2012 minor permit modification application. Water bearing sediments above the clay confining unit were not encountered during drilling, therefore surficial aquifer monitoring wells were not installed. Geologic boring logs are provided in Attachment 1. Well completion reports are provided in Attachment 2.

Groundwater samples have been collected from all three wells. The analytical results will be reported as part of the First Semiannual 2012 compliance monitoring report. Please provide WACs identification numbers for the new wells as they will be needed to prepare the ADaPT files.

If you have any questions regarding this information, please contact me at (352) 682-0781.

Sincerely,

John D. Locklear, P.G.

President

Locklear & Associates, LLC

Cc: John Arnold, Angelo's Aggregate Materials

Attachment 1:

Geologic Boring Logs

Attachment 2: Well Completion Reports

AL JAM 3/2412 FL PG 2467

ATTACHMENT 1 GEOLOGIC BORING LOGS



TEST BORING FIELD REPORT

Site: Enterprise Class III Landfill Well Driller: Huss Drilling, Inc. Drilling Method: Hollow Stem Auger

MW-15B

Page 1 of 3

Boring completed: 2/29/12 Well completed: 3/1/12 Geologist: John Locklear, P.G.

SPT Data ASTM D1586 Depth Description of Soil per 6" 5 CLAY, tan to orange/brown, stiff 10 CLAY 10 15 15 20 CLAY, sandy 20 25 25 LIMESTONE, white, dry 30 30 35 LIMESTONE 35 40 LIMESTONE, white, hard, dry 40

Notes & additional data/info. (specify if other materials used):

Total well depth = 100 ft BLS

Well casing/pipe: Dia. & type = 2 in Sch 40 PVC Solid length = 80 ft; Screen = 20 ft, 0.010 slot Sand filter pack = 12 50 lb. Bags; Type = 20/30 silica ; Placed from 100 ft bls to 77 ft bls

Annular seal: Type = Bentonite; Thickness = 2 ft; Placed from 77 ft bls to 75 ft bls

Grout = Portland Type I; Pad = 24"x24"x4"; Cover = Stick-up



		NG FIELD REPORT Boring No.: MW-15B Page rise Class III Landfill	e 2 of	3
_	SPT Data			_
h	ASTM D1586	Description of Sail		
+	per 6" N	Description of Soil		
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1	Notes & add	itional data/info. (specify if other materials used):		
				s, LLC

	FIELD REPORT Class III Landfill	Boring No.: MW-15B	Page 3 of 3
SPT Data			
h ASTM D1586 7 per 6" N		Description of Soil	
per 6" N		Description of Soil	
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Notes & addition	al data/info. (specify if other ma	aterials used):	Locklear & Associates, Li

TEST BORING FIELD REPORT

Site: Enterprise Class III Landfill Well Driller: Huss Drilling, Inc. Drilling Method: Hollow Stem Auger

MW-16B

Page 1 of 3

Boring completed: 2/28/12 Well completed: 2/29/12 Geologist: John Locklear, P.G.

			Geologist: John	Lockica, F.S.
	SPT Data	000		
oth 0	ASTM D15	86 N	Description of Soil	
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	2000			
	10	37	CLAY, tan to orange/brown, stiff	30
30 _	10-13	3"	CLAY, tan to orange/brown, sun	-
	24 - 25			
35	12-10	25	CLAY, tan to orange/brown, stiff	35_
,	15			
	15-21	1		
		1		
40	10-12	30	CLAY, slight greenish grey, stiff	40_
_	18-16	1	The state of the s	
	10	J		42

Notes & additional data/info. (specify if other materials used):

Total well depth = 100 ft BLS

Well casing/pipe: Dia. & type = 2 in Sch 40 PVC Solid length = 80 ft; Screen = 20 ft, 0.010 slot Sand filter pack = 12 50 lb. Bags; Type = 20/30 silica ; Placed from 100 ft bls to 77 ft bls Annular seal: Type = Bentonite ; Thickness = 2 ft ; Placed from 77 ft bls to 75 ft bls

Grout = Portland Type I; Pad = 24"x24"x4"; Cover = Stick-up



			IG FIELD REPORT Boring No.: MW-16B ise Class III Landfill	Page 2 of 3	
Depth	SPT Dat ASTM D19 per 6"		Description of Soil	16000000	
45_	10-11 14-18	25	CLAY, slight greenish grey, stiff	45_	
50_	11-14 21-20	35	CLAY, slight greenish grey to orange/brown, stiff	50_	
55_	5 - 6 10 - 12	16	CLAY, sandy, light grey to orange/brown at bottom	55_	
60_	79	21	CLAY, greenish grey, stiff	60	
65_	65	12	CLAY, greenish grey, stiff	65_	
70_	77	15	CLAY, greenish grey, stiff, small LS fragments	70_	
75_	4 - 26 50+	76+	t LIMESTONE, weathered, white to light cream, wet	75	
80_			LIMESTONE, too hard to spoon, rig chatter	80_	
85			LIMESTONE	85 <u> </u>	
87	Notes & a	addi	tional data/info. (specify if other materials used):	Locklear & Associates, Li	C

ASTM D1586 per 6" N		
	Description	of Soil
	- Cancel St. Cancel St.	
	LIMESTONE	90_
	LIMESTONE	95
	LINEOTONE	
	The second secon	LS Spiritual
	LIMESTONE	100 _
	Land Company Clay Company Clay	Particular and the second seco
	A LANGE AND A STATE OF THE STAT	105_
2000		110
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	and and a second a	LIMESTONE LIMESTONE LIMESTONE Other waterials used):

TEST BORING FIELD REPORT

Site: Enterprise Class III Landfill Well Driller: Huss Drilling, Inc. Drilling Method: Hollow Stem Auger

MW-17B

Page 1 of 2

Boring completed: 2/27/12 Well completed: 2/28/12 Geologist: John Locklear, P.G.

Geologist: John Lock						
SPT Data						
th ASTM D1586 per 6" N	Description of Soil					
		n. mary in contrast and property and				
48 15	CLAY, grey to greenish grey, stiff, small LS fragments	5_				
79						
37	OLAN area and harmon to accomish area, at iff I C from a conta					
34	CLAY, orange/brown to greenish grey, stiff, LS fragments	10				
5						
16-42 58	Top 6 inches an bottom 12 inches CLAY, orange/brown to greenish gre	15				
168	Second 6 inches is SAND, white to light grey, fine, dry					
56 13	CLAY, sandy, light grey to orange/brown, mod stiff	20_				
77						
4 10	CLAY conductions groups or	25				
6 - 5	CLAY, sandy, light grey to orange/brown, mod stiff	25				
-9-6						
10-13 27	Top 12 inches SAND, silty, light orange to orange/brown, moist	30				
14-13	Bottom 12 inches CLAY, sl sandy, light grey, mod stiff, moist					
55 14	CLAY, sI sandy, light grey, mod stiff, moist	35				
910						
0	T 40 in the OLAN country are all shifts are interested					
8 20	Top 18 inchs CLAY, sandy, orange/brown, mod stiff, moist	40				
14-11	Bottom 6 inches LIMESTONE, weathered, cream color					
2	onal data/info (specify if other materials used).	42				

Notes & additional data/info. (specify if other materials used):

Total well depth = 78.5 ft BLS

Well casing/pipe: Dia. & type = 2 in Sch 40 PVC Solid length = 58.5 ft; Screen = 20 ft, 0.010 slot Sand filter pack = 24 50 lb. Bags; Type = 20/30 silica; Placed from 78.5 ft bls to 56 ft bls Annular seal: Type = Bentonite; Thickness = 2 ft; Placed from 54 ft bls to 56 ft bls

Grout = Portland Type I; Pad = 24"x24"x4"; Cover = Stick-up



			FIELD REPORT Boring No.: MW-17B Class III Landfill	Page 2 o
T	SPT Dat	a		
n	ASTM D1: per 6"	586 N	Description of Soil	
t				
ľ		-		
ľ	14-50+	50+	CLAY, light grey to brown, stiff, with 3-inch LS lense at 18 inches	45_
ļ				
ŀ	21	40	Life the defeat OLAY and LIMESTONE	50
1	31-18	40	Interbedded CLAY and LIMESTONE	
١	22-50			
I		l		
	16-50+	50+	LIMESTONE, cream, wet	55_
				60
	50±		LIMESTONE, cream, wet	
		1		
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		1	LIMESTONE, too hard to spoon	65
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٠.	2000	1		
7	200000			87
	Notes &	addition	nal data/info. (specify if other materials used):	

ATTACHMENT 2 WELL COMPLETION REPORTS

DEP Form # 62-52	0.900(3)
Form Title MONITO	RING WELL COMPLETION REPORT
Effective Date July	12, 2009
DEP Application No)
	(Filled in by DEP)

					DEP Application No(F	Filled in by DEP)
Elon	da Danas	tmont of E	nvironn	nantal Prote		
				nental Prote	cuon	ENVIRONMENTAL PROTECTION MAR 27 2010
1	Bob Martinez Cente	er, 2600 Blair Stone	Road Tallahas	see, Florida 32399-24	100	ENVIRONMENTE ARTMON
MONIT	ODING	WELLO	OMDI	ETION	REPORT	MAD PROTECTION
MONT	OKING	VVELL	OIVIFL	LIIONI	VEI OIVI	MAR 27 2012
PART I: GENERAL INFO	RMATION					SOUTHWEST DISTRICT
Well ID:	Site Name:				Well Install Date	ANTPA THICT
MW-15B	Enterprise 0	Class III Landfil	l		2/29-3/1 20012	
Facility ID 87895	the state of the s				WMD Permit # 819037	
Well Purpose	kground 🛚	Intermediate	Complia Complia	nce Other ((explain) Detection	
Latitude (to nearest 0.1 se	econds)		Longitude	e (to nearest 0.1	seconds)	
N 1453107.369			E 612572	939		
Latitude and Longitude co ☑ UNKNOWN ☐ OTHE		All the second s		☐ MAP ☐ ZI	PCODE DPHO	
M ONKNOWN LIGHT	-11 1101000101	iai Laria Garro	, o.			
PART II: WELL CONSTR	UCTION DET	AILS			Contractor Licens	se #
Contractor Name Ben Huss					9342	5C #
Company Name					10012	
Huss Drilling, Inc.						
	⊠ Hollow Ste	m Auger 🔲 S	olid Stem A	uger	Aquifer Monitored	d
☐ Water/Mud Rotary ☐					Floridan	
Other (describe)	,	-			• 10 1000000000000000000000000000000000	
Top of Casing Elevation (NVGD or NAV	/D)	Ground S	Surface Elevatio	n (NVGD or NAVD)	
147.87 Feet, NGVD			145.48 Fe	eet, NGVD		
Casing						
Material	Inside	Outside	D	epth (ft.)		
	Diameter	Diameter	From	То		
Sch 40 PVC	2.06 inch	2.37 inch	0	80		
Screen						
Material	Inside	Outside	D	epth (ft.)	Slot Size	
	Diameter	Diameter	From	То		
Sch 40 PVC	2.06 inch	2.37 inch	80	1000	0.010-inch	
AII-0						
Annulus Meterial including	Size of	Amount (#	l n	epth (ft.)	Installation Metho	od
Material including additives for sealant	Material	of bags)	From	To		5053
Silica sand	20/30	13	77	100	Pour	
Bentonite	N/A	1	75	77	Pour	
Portland Type I cement	N/A		0	75	Tremie pipe	

PART III: WELL DEVELO	OPMENT DETAILS						
Well Development Date							
D 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Other (explain)						
Development Duration	Two hours						
Pumping Rate	Maximum Drawdown	Well Purged Dry	Pumping Condition				
3-4 GPM	Unknown	☐ yes					
Turbidity (if Measured):		 	Stabilized Water Level (BLS)				
Start: > 1000 NTU	End: 65 NTU		N/A				
	and odor) at start of develop	ment:					
Milky, no odor							
<u>-</u>							
Water enpagrance (color :	and odor) at end of developr	ment:					
Clear, no odor	ariu odor) at erid or developi	Hen.					
Clear, no odor							
Report Prepared By:			Date				
John Locklear			March 22, 2012				
Title/Company			License #				
President			PG 2467				
Locklear & Associates, LL	С		Į.				
PLEASE ATTACH BORIN	NG LOG						
Remarks							

DEP Form # 62-520.900(3)	
Form Title MONITORING WELL COMPLETION REPOR	T
Effective Date July 12, 2009	
DEP Application No.	
(Filled in by DEP)	

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

PART I: GENERAL INFO	RMATION					
Well ID: MW-16B	Site Name: Enterprise (Class III Landfil	I		Well Install Date 2/28-2/29 20012	
Facility ID 87895	Alternate ID)	FLUWID#		WMD Permit # 819037	
Well Purpose 🔲 Bac	kground 🛚	Intermediate	☐ Complia	nce Other ((explain) Detection	
Latitude (to nearest 0.1 se N 1453606.494	econds)		Longitude (to nearest 0.1 seconds) E 612564.001			
Latitude and Longitude co ☑ UNKNOWN ☐ OTHE				□ MAP □ Z	IPCODE DPHO	
PART II: WELL CONSTR	LUCTION DET	TAILS				
Contractor Name Ben Huss					Contractor License # 9342	
Company Name Huss Drilling, Inc.						
		m Auger ☐ So Cable Tool ☐			Aquifer Monitored Floridan	
Top of Casing Elevation (138.01 Feet, NGVD	NVGD or NA\	/D)	4	urface Elevatio et, NGVD	п (NVGD or NAVD)	
Casing	1	10.111				
Material	Inside Diameter	Outside Diameter	From	epth (ft.) To		
Sch 40 PVC	2.06 inch	2.37 inch	0	80	_	
Screen			т			
Material	Inside Diameter	Outside Diameter	From	epth (ft.) To	Slot Size	
Sch 40 PVC	2.06 inch	2.37 inch	80	100	0.010-inch	
Annulus						
Material including additives for sealant	Material including Size of Amount (#		From	epth (ft.)	Installation Method	
Silica sand	20/30	12	77	100	Pour	
Bentonite	N/A	1	75	77	Pour	
Portland Type I cement	N/A		0	75	Tremie pipe	
	1					
			L		L	

PART III: WELL DEVELOPMENT DETAILS								
Well Development Date	Well Development Method: ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (explain)							
Development Duration	Three hours							
, – 								
Pumping Rate	Maximum Drawdown	Well Purged Dry		ng Condition				
3-4 GPM	Unknown	│	🛛 🖾 con	tinuous 🔲 intermittent				
Turbidity (if Measured):			Stab	ilized Water Level (BLS)				
Start: > 1000 NTU	End: 50 NTU		N/A					
Water appearance (color a	and odor) at start of develop	oment:						
Milky, no odor								
	and odor) at end of develop	ment:						
Clear, no odor								
								
Daniel Deserved Div				Date				
Report Prepared By: John Locklear				March 22, 2012				
John Locklear				Watch 22, 2012				
Title/Company				License #				
President	_			PG 2467				
Locklear & Associates, LL	С							
PLEASE ATTACH BORIN	IG LOG							
Remarks								
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DEP Form # 62-520.900(3)
Form Title MONITORING WELL COMPLETION REPORT
Effective Date July 12, 2009
DEP Application No.
(Filled in by DEP)

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

PART I: GENERAL INFO	RMAHUN				·	
Well ID:	Site Name:				Well Install Date	
MW-17B	Enterprise (Enterprise Class III Landfill			2/27-2/28 20012	
Facility ID 87895	Alternate ID FLUWID #		WMD Permit # 819037			
Well Purpose	kground 🛛	Intermediate	Complia	nce 🗌 Other	(explain) Detection	
Latitude (to nearest 0.1 seconds) N 1454141.727			Longitude (to nearest 0.1 seconds) E 612764.557		seconds)	
Latitude and Longitude co ☑ UNKNOWN ☐ OTHE				□ MAP □ Z	IPCODE □ DPHO	
PART II: WELL CONSTR	UCTION DET	TAILS				
Contractor Name Ben Huss					Contractor License # 9342	
Company Name Huss Drilling, Inc.						
		m Auger ☐ So Cable Tool ☐			Aquifer Monitored Floridan	
Top of Casing Elevation (NVGD or NAVD) 87.21 Feet, NGVD			Ground S 84.56 Fe		n (NVGD or NAVD)	
Casing						
Material	Inside	Outside	Depth (ft.)			
	Diameter	Diameter	From	То		
Sch 40 PVC	2.06 inch	2.37 inch	0	58.5	 	
Screen						
Material	Inside	Outside	Depth (ft.)		Slot Size	
majoliai	Diameter	Diameter	From	То	7	
Sch 40 PVC	2.06 inch	2.37 inch	58.5	78.5	0.010-inch	
	<u>.</u>					
Annulus	<u> </u>		<u> </u>		<u></u>	
Annulus Material including	Size of	Amount (#	Depth (ft.)		Installation Method	
Material including	Material	of bags)	From	To	Instanation Method	
additivat for eaglant	Interester	UI Dags/				
additives for sealant	20/30	12	1.56	1 78 5	Pour	
Silica sand	20/30	12	56	78.5 56	Pour	
	20/30 N/A N/A	12	56 54 0	78.5 56 54	Pour Pour Tremie pipe	

PART III: WELL DEVELO	OPMENT DETAILS								
Well Development Date	Well Development Method: ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (explain)								
Development Duration	Three hours								
Pumping Rate	Maximum Drawdown	Well Purged Dry	Pumping Condition						
3-4 GPM	Unknown	☐ yes no							
Turbidity (if Measured):			Stabilized Water Level (BLS)						
Start: > 1000 NTU									
Water appearance (color and odor) at start of development:									
Milky tan, no odor									
Water appearance (color a	and odor) at end of developr	ment:							
Clear, no odor	and odor) at one or dovelop.								
Clour, tio oddi									
Report Prepared By:			Date						
John Locklear			March 22, 2012						
Title/Company			License #						
President			PG 2467						
Locklear & Associates, LL	С								
PLEASE ATTACH BORIN	NG LOG								
<u> </u>									
Remarks									
1									