From:
 Bayne, Bradley J

 To:
 Black, Alexis

 Cc:
 Marissa Alexander

Subject: RE: Hardee County Landfill: First Semiannual 2021 Groundwater Monitoring Report

Date: Thursday, September 2, 2021 11:55:44 AM
Attachments: Hardee GW Logs w screen interval.pdf

Alexis,

The well screen depths have been added to the forms, see attached.

Regarding the hold times, the explanation was, due to the heavy rainfall (see notes on sampling logs for 6/30 noting "heavy rainfall" or "heavy rainfall within 12 hours") on the first day of sampling (6/29), two wells were sampled earlier in the day (MW-2 and MW-4), and sampling of MW-1 was delayed until approximately 4:45 pm that day. The remaining wells were sampled the next day (6/30), until approximately 5:30 pm. The samples were couriered to the lab at 9 am the next day (7/1), which was apparently just outside their holding time by a couple of hours. The lab also provided this input, via email:

The laboratory did not receive MW-2 and MW-4 samples in sufficient time to login, tag and begin the Nitrate analysis within 48 hours of collection. The "Q" flag is applied, but the data match historical records.

Thanks and have a great weekend,

Brad Bayne

PG

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Engineering, Design and Project Management
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Atkins, member of the SNC-Lavalin Group 4030 W Boy Scout Rd, Ste. 700, Tampa, FL 33607

From: Black, Alexis < Alexis. Black@FloridaDEP.gov>

Sent: Friday, August 27, 2021 10:37 AM

To: Bayne, Bradley J < Bradley.Bayne@atkinsglobal.com>

Cc: Marissa Alexander < Marissa. Alexander @hardeecounty.net>

Subject: Hardee County Landfill: First Semiannual 2021 Groundwater Monitoring Report

Good morning Bradley:

I completed a review of the above-referenced report for Hardee County Landfill have comments about the submittal that require action.

Field Sampling Logs: the well screen intervals for the monitoring wells were not included on

the logs, thus the groundwater purging method(s) used could not be verified. MW-11 and MW-14 were not stabilized for pH and temperature, and SW-2 did not contain temperature information. Please provide updated field sampling logs containing the well screen intervals. Please also ensure that all stabilization measures are met during sampling to guarantee that the data submitted is usable for future monitoring events and that all required information is included on the logs.

 Nitrate Results for MW-2 and MW-4: the Nitrate results for these two wells were tested outside of holding time. The monitoring report narrative and the lab report narrative do not describe why this occurred. Please provide clarifying information about why these two samples were analyzed outside of holding time.

Please feel free to contact me should you have questions.

Best regards, Alexis



Ms. Alexís Black

Environmental Specialist II Compliance Assurance Program Florida Department of Environmental Protection Southwest District

Alexis.Black@floridadep.gov Office: 813.470.5912

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

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

WELL CAPACITY (Galions Per Foot): 0.75" = 0.02;			e Co.	LF		LC		85 A	repert	,		
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WELL CAPACITY (Gallons Per Foot)												
SQUPMENT VOLUME PURDING: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY	WELL VOLU	JME PURGE:	DIAMET	ER (inches): UME = (TOT/	AL WELL DEP	PTH - STA	TIC DEPTH T	O WATER) X	WELL CAPACI	TY	ILER: PE	vistal
NITIAL PUMP OR TUBING			URGE: 1 EQUI	PMENT VOL.	= PUMP VOL	.UME + (TUE	BING CAPACI	TY X T	UBING LENGTH)	+ FLOW CELL	VOLUME	
VOLUME V			G &		P OR TUBINO	_			1	17	TOTAL VOLU	IME
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WELL CAPACITY (Galions Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88	625	5.5	(0.0)	0.2					2.85		clear	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02: 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA: CAPACITY (Gall/FL): 18" = 0.0006; 316" = 0.0014; 114" = 0.0026; 316" = 0.004; 318" = 0.006; 112" = 0.016; 58" = 0.016 PURGING EQUIPMENT CODES: B = Baller; BP = Bialder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLED BY (PRINT) / AFFILIATION: 2 Chule Prical Phrina Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLED BY (PRINT) / AFFILIATION: 2 Chule Prical Phrina Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLED BY (PRINT) / AFFILIATION: 2 Chule Prical Phrina Submersible Pump; PP = Peristaltic Pump; PP = Peristaltic Pump; PP = Polypropylene;			-	-					1.70			
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PUMP OR TUBING DEPTH IN WELL (feet): TUBING DEPTH IN WELL (feet): TUBING MATERIAL CODE:									SAMPLING	-1646	SAMPLING	11055
SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION (including wet ice) SAMPLE # MATERIAL CODE CONTAINERS CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;	PUMP OR T	UBING	,_			,		E FIELD	-FILTERED: Y	(N)		
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REMARKS: MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;					SAMPLE	PRESERVA	ATION (includi	ng wet ice)				
REMARKS: MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;				VOLUME	USED	ADDE	D IN FIELD (r	mL) pH	METHO	DD C	CODE	(mL per minute
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;				80	. Ci	noun	of	cust	ody			
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene;							*					
	REMARKS:											
S = Silicone; T = Teflon; O = Other (Specify)	MATERIAL	CODES:					High Density F	olyethylene;	LDPE = Low De	ensity Polyethyle	ne; PP =	Polypropylene;

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

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

	mw-	2		SAMPLE	ID: m	W-2			DATE: OC	1.29.	21
						ING DA					
			ER (inches): UME = (TOTA	DEP	TH - STA	et to 12.7 for DEPTH T	O WATER) X	WELL CAPACI	OR BA		insta
	r VOLUME PU f applicable)	JRGE: 1 EQUI	PMENT VOL.	= PUMP VOL	.UME + (TUB	ING CAPACI	TY X TO	UBING LENGTH)	+ FLOW CELL	VOLUME gallons =	gallons
NITIAL PUN DEPTH IN V	MP OR TUBIN	G 9		P OR TUBING		PURGIN INITIATE	0	PURGING ENDED AT:	Ι,	TOTAL VOLUM	r - 0
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or uS/cm	OXYGEN (circle units) 100/D or 100 saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
405	(e.6	6.6	0.2	(0.17	6.2	28.28	893	2.02	0.77	ceear	nune
415	0.5	6.5	0.1				888	1.98	1.80	1	
420	0.5	7.6	0.1				884	1.80	1.28		
430	0.5	7.5	0.1	5.83	(6.65	27.82	887	1.61	1.43	V	1
					1 25" = 0.00	2" = 0.1			- 100 A		
TUBING INS	SIDE DIA. CAR	s Per Foot): 0. PACITY (Gal./Fi	t.): 1/8" = 0.0	006; 3/16"	= 0.0014;	1/4" = 0.002	6; 5/16" = 0.	.004; 3/8" = 0	.006; 1/2" =	0.010; 5/8	" = 5.88 " = 0.016 r (Specify)
TUBING INS		PACITY (Gal./F	t.): 1/8" = 0.0		' = 0.0014; Pump; E	1/4" = 0.002	6; 5/16" = 0. Submersible Pu	.004; 3/8" = 0		0.010; 5/8	
PURGING E	QUIPMENT C	PACITY (Gal./Fi	t.): 1/8" = 0.0 = Bailer; B	SAMPLER(S)	= 0.0014; Pump; E:	1/4" = 0.002 SP = Electric LING DA E(S):	Submersible Pu	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT	eristaltic Pump;	0.010; 5/8 0 = Other	" = 0.016 r (Specify)
PURGING ESAMPLED ER REPUBLISHED OR T	QUIPMENT CONTROL OF CO	PACITY (Gal./Ficodes: B =	t.): 1/8" = 0.0 = Bailer; B	SAMPLER(S)	SAMP	1/4" = 0.002 SP = Electric LING DA E(S):	Submersible Pu	mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y	eristaltic Pump;	0.010; 5/8 0 = Other	" = 0.016 r (Specify)
PURGING ESAMPLED E PURGING E SAMPLED E PUMP OR T DEPTH IN V	QUIPMENT CONTROL OF CO	PACITY (Gal./FICODES: B =	t.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO	SAMP	1/4" = 0.002 SP = Electric LING DA E(S):_ + HOT	Submersible Pu	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT	2006; 1/2" = eristaltic Pump;	O.010; 5/8 O = Other SAMPLING ENDED AT:	" = 0.016 r (Specify)
SAMPLED E PUMP OR T DEPTH IN V SAMPLED E SAMPLED	EDE DIA. CAF QUIPMENT C BY (PRINT) / A C BY (PRINT) /	PACITY (Gal./FICODES: B =	E.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO	E O.0014; Pump; E SAMP SIGNATURE ODE: S TUBING	1/4" = 0.002 SP = Electric LING DA E(S): HOTE N (re	Submersible Pu	mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Tyj DUPLICATE:	2006; 1/2" = eristaltic Pump;	O = Other SAMPLING ENDED AT: FILTER SIZE N MPLING SAMPLING SAM	" = 0.016 r (Specify) :µm
SAMPLED BECK	EDE DIA. CAF QUIPMENT C BY (PRINT) / A C BY (PRINT) /	PACITY (Gal./FICODES: B =	E.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO	= 0.0014; Pump; E SAMP SIGNATURE ODE: S TUBING E PRESERVA	1/4" = 0.002 SP = Electric LING DA E(S): HOTE N (re	Submersible Pu	MP: PP = Pe SAMPLING INITIATED AT-FILTERED: Y on Equipment Tyl DUPLICATE:	eristaltic Pump; Private Company of the Company of	O = Other SAMPLING ENDED AT: FILTER SIZE N MPLING JIPMENT S.8	" = 0.016 r (Specify) :µm AMPLE PUMFFLOW RATE
SAMPLED ESAMPLED ESAMPLED ESAMPLED ESAMPLE	EDE DIA. CAF QUIPMENT C BY (PRINT) / A QUIPMENT C BY (PRINT) / A QUIPMENT C UBING VELL (feet): DNTAMINATIC E CONTAINE #	PACITY (Gal./FI CODES: B = OFFILIATION: ON: PUMF ER SPECIFICAT MATERIAL	E.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO SAMPLE PRESERVAT USED	E = 0.0014; Pump; E SAMP SIGNATURE ODE: TUBING E PRESERVA IVE ADDE	1/4" = 0.002 SP = Electric LING DA E(S):	Submersible Pu	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Tyl DUPLICATE: INTENDI ANALYSIS AI METHO	eristaltic Pump; Private Company of the Company of	O = Other SAMPLING ENDED AT: FILTER SIZE N MPLING JIPMENT S.8	" = 0.016 r (Specify) :µm AMPLE PUMFFLOW RATE
SAMPLED BECOME SAMPLE SAMPLE	EDE DIA. CAF QUIPMENT C BY (PRINT) / A QUIPMENT C BY (PRINT) / A QUIPMENT C UBING VELL (feet): DNTAMINATIC E CONTAINE #	PACITY (Gal./FI CODES: B = OFFILIATION: ON: PUMF ER SPECIFICAT MATERIAL	E.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO SAMPLE PRESERVAT	= 0.0014; Pump; E SAMP SIGNATURE ODE: TUBING E PRESERVA IVE ADDE	1/4" = 0.002 SP = Electric LING DA E(S):	Submersible Pu	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Tyl DUPLICATE: INTENDI ANALYSIS AI METHO	eristaltic Pump; Private Company of the Company of	O = Other SAMPLING ENDED AT: FILTER SIZE N MPLING JIPMENT S.8	" = 0.016 (Specify) LASC: µm AMPLE PUMF FLOW RATE
SAMPLED BECOME SAMPLE SAMPLE	EDE DIA. CAF QUIPMENT C BY (PRINT) / A QUIPMENT C BY (PRINT) / A QUIPMENT C UBING VELL (feet): DNTAMINATIC E CONTAINE #	PACITY (Gal./FI CODES: B : OFFILIATION: ON: PUMF ER SPECIFICAT MATERIAL	E.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO SAMPLE PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURE ODE: TUBING E PRESERVA IVE ADDE	1/4" = 0.002 SP = Electric LING DA E(S):_ + HOT N (rec TION (includi OTAL VOL D IN FIELD (i	Submersible Pu	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Tyl DUPLICATE: INTENDI ANALYSIS AI METHO	eristaltic Pump; Private Company of the Company of	O = Other SAMPLING ENDED AT: FILTER SIZE N MPLING JIPMENT S.8	" = 0.016 (Specify) LASC LMM AMPLE PUMF
SAMPLE ID CODE	EDE DIA. CAF QUIPMENT C BY (PRINT) / A QUIPMENT C BY (PRINT) / A QUIPMENT C UBING VELL (feet): DNTAMINATIC E CONTAINE #	PACITY (Gal./FI CODES: B : OFFILIATION: ON: PUMF ER SPECIFICAT MATERIAL	E.): 1/8" = 0.0 = Bailer; B	SAMPLER(S) TUBING MATERIAL CO SAMPLE PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURE ODE: TUBING E PRESERVA IVE ADDE	1/4" = 0.002 SP = Electric LING DA E(S): + HOT N (rec TION (includi OTAL VOL D IN FIELD (i	Submersible Pu	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Tyl DUPLICATE: INTENDI ANALYSIS AI METHO	eristaltic Pump; Private Company of the Company of	O = Other SAMPLING ENDED AT: FILTER SIZE N MPLING JIPMENT S.8	" = 0.016 r (Specify) :µm AMPLE PUMFFLOW RATE

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

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

SITE H	avdl	e co	, Lf		SI	TE OCATION: U	285 A	rpert	Rd.	war	1chula
WELL NO:	mw-	9		SAMPLE	ID: W	W-4			DATE: ()	0.29.	21
					PURC	SING DA	TA				
WELL DIAMETER (WELL VOLU (only fill out i	JME PURGE:	TUBING DIAMET 1 WELL VOL	UME = (TOT	AL WELL DEP	PTH - STA	TIC DEPTH T	O WATER) X	WELL CAPACIT	TY		PE VISTALTI
	T VOLUME PU f applicable)	JRGE: 1 EQU	IPMENT VOL.	. = PUMP VOL	.UME + (TUE	BING CAPACI	TY X TL	JBING LENGTH)	+ FLOW CEI	LL VOLUME	
INITIAL PUN DEPTH IN V	MP OR TUBING	G 8		= ga IP OR TUBINO WELL (feet):	allons + (PURGIN INITIATE		DUDCING		gallons = TOTAL VOL PURGED (g.	LIME -
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDIT (NTUs)	Y COLOF (describ	
1155	2.5	2.5	0.1	(0.61	6.12	26.11	355	1.12	2.41	cua	iv nune
1200		3.0	0.1	6.32			342	0.98	1.90	1	1
1205	0.5	3.5	0.1	6.49	5.92	25.99	338	0.95	2.01	1	1
PUMP OR T DEPTH IN W	EQUIPMENT C BY (PRINT) / A BY (PRINT	PACITY (Gal./FODES: B	Et.): 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL C	SAMP SIGNATUR ODE: TUBING	1/4" = 0.002 SP = Electric	Submersible Pur		eristaltic Pump	= 0.010; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	12" = 5.88 5/8" = 0.016 ther (Specify) G T: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVAT USED	IVE ADDE	TOTAL VOL	mL) FINAL pH	ANALYSIS AI METHO	ND/OR EC	CODE	FLOW RATE (mL per minute)
			8ce	Chi	aun	o-f	austro	dy			
REMARKS:											
MATERIAL		AG = Amber G S = Silicone;		Clear Glass; O = Other (S		High Density F	Polyethylene;	LDPE = Low De	nsity Polyethy	/lene; PP	= Polypropylene;
SAMPLING	EQUIPMENT			rough) Perista e Flow Perista		B = Bailer; SM = Straw	BP = Bladd Method (Tubing		P = Electric S O = Other	Submersible P (Specify)	ump;

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

WELL NO: MW-10R SAMPLE ID: MW-10R DATE: (2) 30/2 PURGING DATA	•
I ONOMO DATA	
WELL SCREEN INTERVAL STATIC DEPTH TO WATER (feet): 7. SO PURGE PUMP TYPE OR BAILER: POWN BAILER:	
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME only fill out if applicable) = gallons + (gallons/foot X feet) + gallons =	gallon
NITIAL PUMP OR TUBING DEPTH IN WELL (feet): FINAL PUMP OR TUBING DEPTH IN WELL (feet): PURGING INITIATED AT: 1940 ENDED AT: 1718 PURGED (gallo	E
TIME VOLUME PURGED (gallons) CUMUL. VOLUME PURGE RATE (gpm) VOLUME (gp	ODOR (describe
705 2.5 2.5 0.1 8.56 (2.39 25.62 756 O. leie 23.7 clear	none
712 0.5 3.6 0.1 8.41 (2.54 257 (2.749 0.56) 19.6	1
718 0.5 3.5 0.1 8.686.5625.76747 0.46 18.6	~
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12"	'= 5.88
	= 0.016
SAMPLING DATA	
SAMPLED BY (PRINT) / AFFILIATION: RENLE Price Affins Renlevand SAMPLING INITIATED AT: 1718 ENDED AT:	1728
PUMP OR TUBING DEPTH IN WELL (feet): TUBING MATERIAL CODE: S + HOPE FILTERED: Y N FILTER SIZE:	μm
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N	
SAMPLE # MATERIAL VOLUME PRESERVATIVE TOTAL VOL FINAL ANALYSIS AND/OR EQUIPMENT	MPLE PUM
D CODE CONTAINERS CODE VOLUME USED ADDED IN FIELD (mL) pH METHOD CODE (m	nL per minute
see chain of custualy	
REMARKS:	
neary vainfall	
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = P.	olypropylene

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

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

SITE NAME: Hard	lee County Lar	ndfill				TE CATION: 685	Airport Road, V	Vachula. FL			
	mw-			SAMPLE	ID: M				DATE: Q	130/2	-1
		-			PURC	SING DA	TA				
			TER (inches)	: 14 DEF	LL SCREEN PTH: 3.9 fe PTH - STA	INTERVAL et to 13.9 for TIC DEPTH T	STATIC D	WELL CAPACI	OR E	GE PUMP TY BAILER: Peris	taltic
	T VOLUME PU	JRGE: 1 EQI	= (JIPMENT VO	L, = PUMP VOI	feet - CUME + (TUE	BING CAPACI		JBING LENGTH)			gallons
INITIAL PUN DEPTH IN V	MP OR TUBING	g 12		MP OR TUBING				T		TOTAL VOL PURGED (g	UME O
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOF (describ	
1610	1.0	1.6	0.1	8.95		2601	1301	0.95	2.86	clea	y nune
1615	0.5	1.5	0.1				1220	0.83	5.82		1
1020	0.5	2.0	0.1	8.99	5.01	25.70	1255	0.76	7.74	4	1
PURGING E SAMPLED E Renee Price	BY (PRINT) / A	PACITY (Gal./ ODES: E		SAMPLER(S	' = 0.0014; Pump; E	SP = Electric LING DA E(S):-	6; 5/16" = 0. Submersible Pur	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT	006; 1/2" eristaltic Pump	= 0.010; (s); O = Ot	T: 1055
PUMP OR T DEPTH IN V				TUBING MATERIAL C	ODE: S+HDF	PE		-FILTERED: Y on Equipment Typ	De: N	FILTER SI	ZE: μm
FIELD DEC	ONTAMINATIO	ON: PUN	AP Y	N)	TUBING	Y N(re	placed)	DUPLICATE:	Υ	N	
SAMPLE	LE CONTAINE # CONTAINERS	MATERIAL CODE	VOLUME	SAMPLE PRESERVAT USED	IVE	ATION (includi FOTAL VOL ED IN FIELD (r	FINAL	INTENDE ANALYSIS AI METHO	ND/OR EC	AMPLING QUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
					S	ee chain of					
						custody					
						*					
REMARKS:	NYV	aint	au								
MATERIAL	CODES:		Glass; CG T = Teflon;	= Clear Glass; O = Other (\$		High Density F	olyethylene;	LDPE = Low De	nsity Polyethy	lene; PP	= Polypropylene;
SAMPLING	EQUIPMENT			Through) Perista se Flow Perista		B = Bailer; SM = Straw	BP = Bladd Method (Tubing		P = Electric S O = Other		ump;

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

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

SITE NAME: Hard	dee County Lar	ndfill				TE CATION: 685	Airport Road, V	Vachula, FL			
	mw			SAMPLE		N-12			DATE: Q1	3012	1
					PURC	SING DA	TA				
			TER (inches): LUME = (TO)	14 DEF	LL SCREEN PTH:8.04 fe PTH - STA	INTERVAL eet to 23.04 fe TIC DEPTH T	STATIC Deet TO WATER	WELL CAPACI	ITY	E PUMP TY AILER: Peris	taltic
	T VOLUME PU	JRGE: 1 EQU		= PUMP VOL	LUME + (TUE	BING CAPACI	TY X TU	JBING LENGTH) + FLOW CELL	VOLUME	
INITIAL PUI	MP OR TUBINO	G 13		= ga MP OR TUBINO WELL (feet):	allons + (PURGIN	ns/foot X G ED AT: \SO	PURGING PURDED AT:	1000	gallons = TOTAL VOL PURGED (ga	UME o
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOF (describ	
1425	2.5	2.5	0.1	8.99	6.94	24.62	1011	216	2.27	cua	nene
1535	0.5	3.6	0.1	9.02		24.84		2,73	2.81	1	
1540	0.5	3.5	0.1	9.30	7.00	26.72	1014	1.90	3.05		V
PURGING E	BY (PRINT) / A	PACITY (Gal./F	0.75" = 0.02; Ft.): 1/8" = 0 = Bailer;	1" = 0.04; .0006; 3/16' BP = Bladder I	' = 0.0014; Pump; E SAMP SIGNATUR	1/4" = 0.002 SP = Electric LING DA E(S):	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0 mp; PP = Pe	0.006; 1/2" = eristaltic Pump;	0.010; S 0 = Ot	12" = 5.88 5/8" = 0.016 her (Specify)
Renee Price	e/Atkins			rdes	ely	w	-	INITIATED A	T: 1540	ENDED A	T: 1550
PUMP OR T	TUBING WELL (feet):	13		TUBING MATERIAL C	ODE: S+HDI	PE		-FILTERED: Y on Equipment Ty	()	FILTER SI	ZE: μm
	ONTAMINATIO	ON: PUM	PY		TUBING		eplaced)	DUPLICATE:		(N)	
SAMPLE	LE CONTAINE	MATERIAL	VOLUME	PRESERVAT	IVE		FINAL	INTEND ANALYSIS A METHO	ND/OR EQI	MPLING UIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
ID CODE	CONTAINERS	CODE		USED		D IN FIELD (r	mL) pH				(···· po: ·······oto)
					S	ee chain of					
						custody					
REMARKS:	2000	050	£ 1	2							
MATERIAL	CODES:			= Clear Glass;	HDPE = I	High Density F	Polyethylene:	LDPE = Low De	ensity Polyethyle	ene; PP	= Polypropylene;
	EQUIPMENT	S = Silicone;	T = Teflon;	O = Other (S	Specify)	B = Bailer;			SP = Electric Su		
				se Flow Perista		SM = Straw	Method (Tubing		O = Other (S		

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

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

SITE						TE					
	lee County Lar			0444515			Airport Road, V		DATE ()/	1170	101
WELL NO:	mw-	13		SAMPLE		W-13			DATE. O(2136	1121
WELL DIAMETER	(inches): 2	TUBING	GER (inches):	V/4 WEL	L SCREEN	ING DA INTERVAL et to 20.79f	PTATIC F	DEPTH ER (feet):	US PURG	E PUMP TY	
WELL VOLU (only fill out i	JME PURGE: f applicable)	1 WELL VOL	.UME = (TOT = (AL WELL DEP 20,79 . = PUMP VOL	TH - STA feet - + UME + (TUB	TIC DEPTH T	feet) X TY X TI	WELL CAPAC	gallons/foot) + FLOW CELL	_ 2. U	gallons
INITIAL PUN	MP OR TUBINO	G 8		= ga MP OR TUBING WELL (feet):	illons + (T	ons/foot X G ED AT: \229	PURGING ENDED AT:	1000	gallons = TOTAL VOL PURGED (g	UME /
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) (unitos/cm) 0 u-9/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOF (describ	R ODOR
245	3.6	3.6	0.1	5.04	(4.5%	27.72	1228	2.08	2.65	cuo	y nen
1250	0.5	3.5	Cil	4.98	6.69	27.18	1231	0.98	1.84		
1255	0.5	4.0	01	499	6.60	2697	1228	0.90	1.48		
1300	0.5	4.5	0.1	5.02	6.64	26.97	12210	0.93	2.53	\ \V	\ \V
TUBING INS	ACITY (Gallon SIDE DIA. CAR	PACITY (Gal./F	Ft.): 1/8" = 0.	1" = 0.04; 0006; 3/16" BP = Bladder P	= 0.0014; ump; E	1/4" = 0.002	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0		0.010;	12" = 5.88 5/8" = 0.016 her (Specify)
SAMPLED B	BY (PRINT) / A /Atkins	FFILIATION:		SAMPLER(S)			~	SAMPLING INITIATED A	T:1200	SAMPLING ENDED A	G T: 1310
PUMP OR T		8		TUBING MATERIAL CO	DDE: S+HDE	oF .		-FILTERED: Y	N		ZE:μm
	ONTAMINATIO	ON: PUM	PYN	2	TUBING	-	eplaced)	DUPLICATE:		(N)	
SAMPI	LE CONTAINE	R SPECIFICA	TION	SAMPLE	PRESERVA	TION (includ	ing wet ice)	INTEND	ED SA	MPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		TOTAL VOL	mL) FINAL pH	ANALYSIS A		JIPMENT CODE	FLOW RATE (mL per minute
					S	ee chain of					
						custody					
						-					
REMARKS:		(Tuñat	- \ \ \ 0	- 1111	10 () =	. 17	neu	ve			
MATERIAL	•	AG = Amber				High Density F		LDPE = Low De	ensity Polyethyle	ene; PP	= Polypropylene;
SAMPLING	EQUIPMENT	CODES: A		O = Other (S nrough) Perista	Itic Pump;	B = Bailer			SP = Electric Su		'ump;
		R	FPP = Revers	se Flow Peristal	tic Pump;	SM = Straw	Method (Tubing	Gravity Drain);	O = Other (S	Specify)	

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

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

SITE NAME: Hard	dee County Lar	odfill				TE CATION: 685	Airport Road, W	/achula Fl			
	mW-			SAMPLE ID:		1 - 1 <			DATE: ()(1.30.2	2.1
	10	,)				SING DA				<u>x, 50.2</u>	-1
WELL DIAMETER WELL VOLU (only fill out i		TUBING DIAMET	ER (inches): UME = (TOTA		5.35 fe - STA	INTERVAL eet to20.35 fe TIC DEPTH T	STATIC D eet TO WATE O WATER) X	R (feet):	OR B	GE PUMP TYPE BAILER: Peristal	tic
	T VOLUME PU if applicable)	JRGE: 1 EQUI	PMENT VOL.	= PUMP VOLUM = gallor	E + (TUE	BING CAPACI	TY X TU	JBING LENGTH)	+ FLOW CEL	L VOLUME gallons =	gallons
INITIAL PUN DEPTH IN V	MP OR TUBIN	G 8	FINAL PUM DEPTH IN V	P OR TUBING	8			PURGING ENDED AT:	1020	TOTAL VOLUM PURGED (gallo	ME / G
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	I WAIHR I	pH tandard units)	TEMP.	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/b or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
950	3.0	3.6	0.1	3,33 (.49	27.62	The second second second	1.0	1.40	cua	nene
1005	0.5	3.5	0.1	3.75 (1.66	27.42		0.92	1,39		1)
1015	0,5	4.0	0.1	3.590	.73	27.81	1263	0.80	1.30	1	
TUBING IN		s Per Foot): 0 PACITY (Gal./F	t.): 1/8" = 0.0 = Bailer; B	0006; 3/16" = 0	p; E	1/4" = 0.002 SP = Electric PLING DA	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0		= 0.010; 5/8	" = 5.88 " = 0.016 r (Specify)
SAMPLED E Renee Price	BY (PRINT) / A e/Atkins	FFILIATION:		SAMPLER(S) SIG			<	SAMPLING INITIATED A	T:192e	SAMPLING ENDED AT:	1038
PUMP OR T		Q		TUBING MATERIAL CODI	E- STHUI	DE .		-FILTERED: Y		FILTER SIZE	i: μm
FIELD DEC	ONTAMINATION	ON: PUM	_		UBING	^	eplaced)	DUPLICATE:		N	
SAMPLE	LE CONTAINE # CONTAINERS	R SPECIFICA MATERIAL CODE		SAMPLE PRESERVATIVE USED	T .	ATION (includi TOTAL VOL ED IN FIELD (i	FINAL	INTEND ANALYSIS A METHO	ND/OR EC	QUIPMENT	AMPLE PUMP FLOW RATE mL per minute)
ID CODE	CONTAINERS	CODE		OGED		See chain of	ney pri				
						custody					
REMARKS:	NYV		Glass; CG =	Withi		12 h		LDPE = Low De	ensity Polvethy	rlene; PP = F	Polypropylene;
	EQUIPMENT	S = Silicone; CODES: A	T = Teflon; PP = After (Th	O = Other (Sperrough) Peristaltic e Flow Peristaltic	cify) Pump;	B = Bailer;		ler Pump; Es		Submersible Pur	

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

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