



**Hillsborough
County Florida**

PUBLIC UTILITIES

PO Box 1110
Tampa, FL 33601-1110

October 15, 2018

Mr. Steve Morgan
Florida Department of Environmental Protection
Waste Permitting Section
13051 Telecom Parkway
Temple Terrace, FL 33637

**RE: Southeast County Landfill
Leachate Treatment Plant (WACS Testsite #19864)
Quarterly Analytical Data Report
Third Quarter (July – August, 2018)**

Dear Mr. Morgan:

In accordance with Part 9.1.2 of the November 2015 Southeast County Landfill (SCLF) Leachate Management Plan (LMP), the Hillsborough County Public Utilities Department (County), has prepared this quarterly report to provide the laboratory analytical data for the sampling of effluent at the leachate treatment plant, located at the SCLF at 15960 County Road 672 in Lithia, Florida.

Monthly sampling of the leachate treatment plant effluent and the daily recording of the plant pH was conducted as required by the referenced plan. County personnel collected effluent samples from the designated sampling port at the treatment plant on July 18, 2018 for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Nitrate, and five (5) field parameters. Sampling was not conducted during the remainder of the third quarter due to the treatment plant shutting down on August 15, 2018 for their 3-year inspection.

Daily pH for the effluent was recorded by plant personnel and the logs are depicted as part of this submittal. Over this quarter, the pH ranged from 7.26 to 8.12 pH units and are within the State of Florida Secondary Drinking Water Standard (SDWS), FAC Ch. 62-550.320 of 6.5 to 8.5

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Lucia E. Garsys

Mr. Steve Morgan

October 15, 2018

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pH units. The analytical sample collected from the effluent port recorded pH at 7.16 pH units. Once the plant goes back online, the County shall collect the required parameters outlined in the permit. Should you have any questions or comments concerning the information provided, please feel free to contact me at (813) 663-3222.

Respectfully,



Michael D. Townsel
Senior Hydrologist
Public Utilities Department
Environmental Services

10/15/2018

ec: Justin Chamberlain, P.G., FDEP
Kimberly Byer, P.G., Public Works Dept.
Larry Ruiz, Public Works, Dept.
Ronald Wiesman, Public Works Dept.
Cindy Pelley, Public Works Dept.
Jeffrey Greenwell, P.E., Public Utilities Dept.
Ron Cope, Hillsborough County EPC

Month	PH Calibration Log					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1						
2	4.00	7.00	10.01	7.35	7.93	N/S
3	4.00	6.98	10.01	7.41	7.97	N/S
4	3.99	7.00	10.01	7.40	8.02	N/S
5	3.99	7.01	10.00	7.35	8.00	N/S
6	4.00	7.03	10.00	7.43	8.04	N/S
7	3.99	7.00	10.00	7.40	7.78	N/S
8						
9	4.00	7.00	10.00	7.30	8.00	N/S
10	3.99	7.01	10.00	7.50	8.10	N/S
11	4.00	6.99	10.00	7.26	7.87	N/S
12	4.00	6.99	10.00	7.72	8.07	N/S
13	3.99	7.01	10.01	7.54	8.12	N/S
14	3.98	7.02	10.00	7.38		N/S
15						
16	4.00	7.00	10.00	7.53	7.69	N/S
17	4.00	6.99	10.00	7.57	7.60	N/S
18	3.99	6.99	10.01	7.61	7.74	N/S
19	4.00	6.99	10.00	7.57	7.52	N/S
20	4.00	7.00	10.01	7.62	7.54	N/S
21	4.00	7.00	10.04	7.55		N/S
22						
23	3.99	7.02	9.99	7.40	7.35	N/S
24	4.00	7.06	10.00	7.54	7.63	N/S
25	4.00	6.99	10.00	7.48	7.61	N/S
26	3.99	6.98	10.00	7.52	7.95	N/S
27	3.99	7.02	10.01	7.30	7.80	N/S
28	4.00	7.00	10.02	7.27		N/S
29	3.98	7.00	10.00	7.47		N/S
30	3.99	6.98	10.01	7.17	7.70	N/S
31	3.99	6.96	9.99	7.30	7.75	N/S

Month	PH Calibration Log					
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.01	10.01	7.40	7.86	N/S
2	4.00	6.99	10.00	7.44	7.92	N/S
3	4.00	6.99	10.00	7.33	7.72	N/S
4	4.02	6.98	10.00	7.28		N/S
5	4.00	7.00	10.00	7.29		N/S
6	4.00	7.00	10.00	7.35	7.51	N/S
7	4.00	6.98	10.00	7.28	7.51	N/S
8	4.00	7.02	10.01	7.27	7.44	N/S
9	4.00	6.99	10.01	7.09	7.26	N/S
10	4.00	7.00	10.00	7.40	7.53	N/S
11	3.99	6.98	10.00	7.38		N/S
12	4.00	7.01	10.00	7.17		N/S
13	4.01	6.99	10.00	7.39	8.03	N/S
14	4.00	6.99	10.01	7.51	8.09	N/S
15	4.00	6.99	10.00	7.46	8.09	N/S
16	4.00	7.00	10.01	7.51		N/S
17	3.95	6.99	10.01	7.69		N/S
18	3.98	6.99	10.00	7.10		N/S
19	3.99	7.00	10.01	7.32		N/S
20	3.99	6.99	10.00	7.60		N/S
21	4.00	7.00	10.00	7.49		N/S
22	4.00	6.99	10.00	7.53		N/S
23	4.00	7.00	10.00	7.51		N/S
24	4.00	6.96	10.00	7.80		N/S
25	4.06	7.00	10.00	7.55		N/S
26	4.05	7.04	10.01	7.22		N/S
27	4.00	6.96	10.00	7.40		N/S
28	4.00	6.99	10.00	7.35		N/S
29	4.00	6.99	10.00	7.44		N/S
30	4.00	6.99	10.02	7.55		N/S
31	4.01	6.96	10.00	7.63		N/S



Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
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Fax: (813)630-4327

August 8, 2018

Michael Townsel
Hillsborough Co Public Utilities
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T1812049 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, July 18, 2018. 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 samples.

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

Sincerely,

A handwritten signature in black ink that reads 'Heidi Parker'.

Heidi Parker - Project Manager
HParker@AELLab.com

Enclosures

Report ID: 568765 - 1152943

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SAMPLE SUMMARY

Workorder: T1812049 SELF Plant Effluent

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T1812049001	Leachate Effluent	Water	7/18/2018 12:27	7/18/2018 13:40
T1812049002	Field Blank	Water	7/18/2018 12:23	7/18/2018 13:40

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ANALYTICAL RESULTS

Workorder: T1812049 SELF Plant Effluent

Lab ID: **T1812049001**
Sample ID: **Leachate Effluent**

Date Received: 07/18/18 13:40 Matrix: Water
Date Collected: 07/18/18 12:27

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements			Analytical Method: Field Measurements					
Conductivity	12798		umhos/cm	1			7/18/2018 12:27	
Dissolved Oxygen	1.17		mg/L	1			7/18/2018 12:27	
ORP-2580BW	-67		mV	1			7/18/2018 12:27	
Temperature	30.8		°C	1			7/18/2018 12:27	
pH	7.16		SU	1			7/18/2018 12:27	
WET CHEMISTRY								
Analysis Desc: COD,E410.4,Water			Analytical Method: EPA 410.4					
Chemical Oxygen Demand	1800		mg/L	10	500	240	7/23/2018 14:20	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	8700		mg/L	1	10	10	7/23/2018 15:45	T
Analysis Desc: TSS,SM2540D,Water			Analytical Method: SM 2540D					
Total Suspended Solids	320		mg/L	10	10	10	7/23/2018 13:42	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water			Analytical Method: SM 4500NO3-F					
Nitrate	0.18	U	mg/L	1	0.20	0.18	7/19/2018 15:42	T
Analysis Desc: BOD,SM5210B,Water			Analytical Method: SM 5210B					
Biochemical Oxygen Demand	840		mg/L	1	2.0	2.0	7/18/2018 15:08	T

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ANALYTICAL RESULTS

Workorder: T1812049 SELF Plant Effluent

Lab ID: **T1812049002**

Date Received: 07/18/18 13:40 Matrix: Water

Sample ID: **Field Blank**

Date Collected: 07/18/18 12:23

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: COD,E410.4,Water			Analytical Method: EPA 410.4					
Chemical Oxygen Demand	24	U	mg/L	1	50	24	7/23/2018 14:20	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	10	U	mg/L	1	10	10	7/23/2018 15:45	T
Analysis Desc: TSS,SM2540D,Water			Analytical Method: SM 2540D					
Total Suspended Solids	1.0	U	mg/L	1	1.0	1.0	7/20/2018 15:04	T
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water			Analytical Method: SM 4500NO3-F					
Nitrate	0.18	U	mg/L	1	0.20	0.18	7/19/2018 15:39	T
Analysis Desc: BOD,SM5210B,Water			Analytical Method: SM 5210B					
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	7/18/2018 15:11	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1812049 SELF Plant Effluent

PARAMETER QUALIFIERS

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

LAB QUALIFIERS

- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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QUALITY CONTROL DATA

Workorder: T1812049 SELF Plant Effluent

QC Batch: WCAI/4853 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Prepared:
Associated Lab Samples: T1812049001, T1812049002

METHOD BLANK: 2778822

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Biochemical Oxygen Demand	mg/L	2.0	2.0 U

LABORATORY CONTROL SAMPLE: 2778823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Biochemical Oxygen Demand	mg/L	200	180	89	84.6-115.4

SAMPLE DUPLICATE: 2778824

Original: T1811901001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Biochemical Oxygen Demand	mg/L	210	210	2	20

QC Batch: WCAI/4899 Analysis Method: SM 4500NO3-F
QC Batch Method: SM 4500NO3-F Prepared:
Associated Lab Samples: T1812049001, T1812049002

METHOD BLANK: 2781011

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Nitrate	mg/L	0.18	0.18 U

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QUALITY CONTROL DATA

Workorder: T1812049 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2781012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Nitrate	mg/L	1	1.0	102	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2781013 2781014 Original: T1812089002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD Qualifiers
WET CHEMISTRY										
Nitrate	mg/L	2.7	1	3.7	3.7	106	108	90-110	0	10

QC Batch: WCAI/4908

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Prepared:

Associated Lab Samples: T1812049002

METHOD BLANK: 2781150

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Suspended Solids	mg/L	1.0	1.0 U

LABORATORY CONTROL SAMPLE: 2781151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	200	170	87	85-115

SAMPLE DUPLICATE: 2781152 Original: T1812053001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	160	160	0	10

Report ID: 568765 - 1152943

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QUALITY CONTROL DATA

Workorder: T1812049 SELF Plant Effluent

QC Batch: WCAI/4926 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Prepared:
Associated Lab Samples: T1812049001

METHOD BLANK: 2782467

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Suspended Solids	mg/L	1.0	1.0 U

LABORATORY CONTROL SAMPLE: 2782468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	200	170	85	85-115

SAMPLE DUPLICATE: 2782469 Original: M1802876003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Suspended Solids	mg/L	4500	4500	0	10
QC Batch:	WCAI/4929	Analysis Method:		SM 2540 C	
QC Batch Method:	SM 2540 C	Prepared:			
Associated Lab Samples: T1812049001, T1812049002					

METHOD BLANK: 2782485

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Total Dissolved Solids	mg/L	10	10 U

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QUALITY CONTROL DATA

Workorder: T1812049 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 2782486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	660	650	99	85-115

SAMPLE DUPLICATE: 2782487

Original: T1811903002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	62	100	3	10	
QC Batch:	WCAI/4945		Analysis Method:		EPA 410.4	
QC Batch Method:	EPA 410.4		Prepared:			
Associated Lab Samples:	T1812049001, T1812049002					

METHOD BLANK: 2783353

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
Chemical Oxygen Demand	mg/L	24	24 U

LABORATORY CONTROL SAMPLE: 2783354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Chemical Oxygen Demand	mg/L	500	490	98	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2783356

2783357

Original: T1811970001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
WET CHEMISTRY										
Chemical Oxygen Demand	mg/L	2500	5000	7400	7400	98	98	90-110	0	10

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QUALITY CONTROL DATA

Workorder: T1812049 SELF Plant Effluent

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2783360 2783361 Original: T1812049002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
WET CHEMISTRY											
Chemical Oxygen Demand	mg/L	2.2	500	490	490	98	98	90-110	0	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1812049 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1812049001	Leachate Effluent			SM 5210B	WCAt/4853
T1812049002	Field Blank			SM 5210B	WCAt/4853
T1812049001	Leachate Effluent			SM 4500NO3-F	WCAt/4899
T1812049002	Field Blank			SM 4500NO3-F	WCAt/4899
T1812049002	Field Blank			SM 2540D	WCAt/4908
T1812049001	Leachate Effluent			SM 2540D	WCAt/4926
T1812049001	Leachate Effluent			SM 2540 C	WCAt/4929
T1812049002	Field Blank			SM 2540 C	WCAt/4929
T1812049001	Leachate Effluent			EPA 410.4	WCAt/4945
T1812049002	Field Blank			EPA 410.4	WCAt/4945
T1812049001	Leachate Effluent	Field Measurements	FLDt/	Field Measurements	FLDt/

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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Leachate Effluent	SAMPLE ID: Leachate Effluent	DATE: 7/18/18	

PURGING DATA

WELL DIAMETER (inches): N/A		TUBING DIAMETER (inches): N/A		WELL SCREEN INTERVAL DEPTH: N/A ft to N/A ft		STATIC DEPTH TO WATER (feet): N/A		PURGE PUMP TYPE OR BAILER: Valve			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (N/A feet - N/A feet) X N/A gallons/foot = N/A gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = N/A gallons + (N/A gallons/foot X N/A feet) + N/A gallons = N/A gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A			FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A			PURGING INITIATED AT: N/A		PURGING ENDED AT: N/A		TOTAL VOLUME PURGED (gallons): N/A	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:27	N/A	N/A	N/A	N/A	7.16	30.8	12798	1.17	N/A	black	waste
OTA 7/16/18											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>T. Aguilar J. Fuller</i>				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: <i>12:27</i>		SAMPLING ENDED AT: <i>12:30</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>N/A</i>				TUBING MATERIAL CODE: <i>N/A</i>			FIELD-FILTERED: Y ☒ N ☒		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y ☒ N ☒ TUBING Y ☒ N (replaced)						DUPLICATE: Y ☒ N ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS ORP: <i>12:27(-67.0)</i>										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

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

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

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\geq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Southeast County Landfill - Plant		SITE LOCATION: Lithia, Florida	
WELL NO: Field Blank	SAMPLE ID: Field Blank	DATE: 7/18/18	

PURGING DATA

WELL		TUBING		WELL SCREEN INTERVAL		STATIC DEPTH		PURGE PUMP TYPE			
DIAMETER (inches): N/A		DIAMETER (inches): N/A		DEPTH: N/A ft to N/A ft		TO WATER (feet): N/A		OR BAILER: N/A			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (\text{N/A} \text{ feet} - \text{N/A} \text{ feet}) \times \text{N/A} \text{ gallons/foot} = \text{N/A} \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{N/A} \text{ gallons} + (\text{N/A} \text{ gallons/foot} \times \text{N/A} \text{ feet}) + \text{N/A} \text{ gallons} = \text{N/A} \text{ gallons}$											
INITIAL PUMP OR TUBING			FINAL PUMP OR TUBING			PURGING		PURGING		TOTAL VOLUME	
DEPTH IN WELL (feet): N/A			DEPTH IN WELL (feet): N/A			INITIATED AT: N/A		ENDED AT: N/A		PURGED (gallons): N/A	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
Field Blank 7/18/18 GA											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>J. Aguilar, J. Fuller</i>				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: <i>12:23</i>		SAMPLING ENDED AT: <i>12:26</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>N/A</i>				TUBING MATERIAL CODE: <i>N/A</i>			FIELD-FILTERED: Y <i>(N)</i> Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <i>(N)</i> TUBING Y <i>(N replaced)</i>							DUPLICATE: Y <i>(N)</i>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

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

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

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+ 5$ NTU or $\pm 10\%$ (whichever is greater)