

**Southeast County Landfill
Supplemental Site Assessment Data
February 5-6, 2020**

Field Parameters Detected					MCL Standard
	TH-66A	TH-67	TH-79	TH-83	
conductivity (umhos/cm) (field)	285.1	482.6	343.9	1131	NS
dissolved oxygen (mg/l) (field)	0.34	0.22	0.21	0.22	NS
ORP (mV)	121	-12.9	27.4	-10	NS
temperature (°C) (field)	22.4	24.1	23.8	23.7	NS
turbidity (NTU) (field)	1.12	5.68	18	0.49	NS
pH (SU) (field)	5.95	6.22	5.75	6.46	(6.5 - 8.5)**
General Parameters Detected					MCL Standard
total dissolved solids (mg/l)	270	330	210	570	500**
chloride (mg/l)	13	56	16	200 J4	250**
ammonia nitrogen (mg/l as N)	1.9	2	1.5	19	NS
Metals Detected (mg/l)					MCL Standard
sodium	6.9	24	12	130	160*
Notes: Reference Groundwater Guidance Concentrations, FDEP 2012					
NS=No Standard					
MCL=Maximum Contaminant Level (Groundwater Standards)					
*= Primary Drinking Water Standards as per Cahpter 62-550.310, F.A.C.					
**=Secondary Drinking Water Standards as per Chapter 62-550.320, F.A.C.					
Exceeds Standard					
NTU=Nephelometric Turbidity Units					
J4 = reported value is estimated					
ug/l=micrograms per liter					
mg/l=milligrams per liter					
mV = millivolts					



Advanced Environmental Laboratories, Inc
9610 Princess Palm Ave Tampa, FL 33619
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (813)630-9616
Fax: (813)630-4327

March 4, 2020

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

RE: Workorder: T2002403 SELF Supplemental Site Assess

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory between Wednesday, February 05, 2020 and Thursday, February 06, 2020. 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: 946092 - 2296887

Page 1 of 21

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



SAMPLE SUMMARY

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T2002403001	TH-66A	Water	2/5/2020 09:29	2/5/2020 14:35
T2002403002	Field Blank	Water	2/5/2020 09:50	2/5/2020 14:35
T2002403003	TH-67	Water	2/5/2020 11:31	2/5/2020 14:35
T2002403004	TH-83	Water	2/5/2020 12:04	2/5/2020 14:35
T2002403005	TH-79	Water	2/6/2020 10:34	2/6/2020 14:40

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID: **T2002403001** Date Received: 02/05/20 14:35 Matrix: Water
 Sample ID: **TH-66A** Date Collected: 02/05/20 09:29

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	285.1		umhos/cm	1			2/5/2020 09:29	....
Dissolved Oxygen	0.34		mg/L	1			2/5/2020 09:29	....
ORP-2580BW	121		mV	1			2/5/2020 09:29	....
Temperature	22.4		°C	1			2/5/2020 09:29	....
Turbidity	1.12		NTU	1			2/5/2020 09:29	....
pH	5.95		SU	1			2/5/2020 09:29	....
METALS								
Analysis Desc: Chlorides,SM4500-Cl-E,Water			Analytical Method: SM 4500-Cl-E					
Chloride	13		mg/L	1	5.0	2.6	2/12/2020 10:31	T
Analysis Desc: SW846 6010B Analysis,Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Sodium	6.9		mg/L	1	0.60	0.50	2/7/2020 18:00	T
METALS								
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	1.9		mg/L	1	0.10	0.020	2/10/2020 12:22	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	270		mg/L	1	10	10	2/6/2020 12:00	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID: **T2002403002** Date Received: 02/05/20 14:35 Matrix: Water
Sample ID: **Field Blank** Date Collected: 02/05/20 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Sodium	0.50	U	mg/L	1	0.60	0.50	2/7/2020 18:23	T
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	0.020	U	mg/L	1	0.10	0.020	2/10/2020 12:23	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	10	U	mg/L	1	10	10	2/6/2020 12:00	T
Analysis Desc: Chlorides,SM4500-Cl-E,Water			Analytical Method: SM 4500-Cl-E					
Chloride	2.6	U	mg/L	1	5.0	2.6	2/11/2020 11:40	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID: **T2002403003**
 Sample ID: **TH-67**

Date Received: 02/05/20 14:35 Matrix: Water
 Date Collected: 02/05/20 11:31

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	482.6		umhos/cm	1			2/5/2020 11:31	....
Dissolved Oxygen	0.22		mg/L	1			2/5/2020 11:31	....
ORP-2580BW	-12.9		mV	1			2/5/2020 11:31	....
Temperature	24.1		°C	1			2/5/2020 11:31	....
Turbidity	5.68		NTU	1			2/5/2020 11:31	....
pH	6.22		SU	1			2/5/2020 11:31	....
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Sodium	24		mg/L	1	0.60	0.50	2/7/2020 18:28	T
WET CHEMISTRY								
Analysis Desc: Ammonia, E350.1, Water			Analytical Method: EPA 350.1					
Ammonia (N)	2.0		mg/L	1	0.10	0.020	2/10/2020 12:24	T
Analysis Desc: Tot Dissolved Solids, SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	330		mg/L	1	10	10	2/6/2020 12:00	T
Analysis Desc: Chlorides, SM4500-Cl-E, Water			Analytical Method: SM 4500-Cl-E					
Chloride	56		mg/L	1	5.0	2.6	2/12/2020 10:33	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID: **T2002403004** Date Received: 02/05/20 14:35 Matrix: Water
 Sample ID: **TH-83** Date Collected: 02/05/20 12:04

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	1131		umhos/cm	1			2/5/2020 12:04	....
Dissolved Oxygen	0.22		mg/L	1			2/5/2020 12:04	....
ORP-2580BW	-10		mV	1			2/5/2020 12:04	....
Temperature	23.7		°C	1			2/5/2020 12:04	....
Turbidity	0.49		NTU	1			2/5/2020 12:04	....
pH	6.46		SU	1			2/5/2020 12:04	....
METALS								
Analysis Desc: Chlorides,SM4500-Cl-E,Water			Analytical Method: SM 4500-Cl-E					
Chloride	200	J4	mg/L	5	25	13	2/11/2020 12:13	T
Analysis Desc: SW846 6010B Analysis,Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Sodium	130		mg/L	1	0.60	0.50	2/7/2020 18:32	T
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	19		mg/L	2	0.20	0.040	2/10/2020 13:03	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	570		mg/L	1	10	10	2/6/2020 12:00	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID: **T2002403005** Date Received: 02/06/20 14:40 Matrix: Water
 Sample ID: **TH-79** Date Collected: 02/06/20 10:34

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	343.9		umhos/cm	1			2/6/2020 10:34	....
Dissolved Oxygen	0.21		mg/L	1			2/6/2020 10:34	....
ORP-2580BW	27.4		mV	1			2/6/2020 10:34	....
Temperature	23.8		°C	1			2/6/2020 10:34	....
Turbidity	18		NTU	1			2/6/2020 10:34	....
pH	5.75		SU	1			2/6/2020 10:34	....
METALS								
Analysis Desc: SW846 6010B Analysis, Water			Preparation Method: SW-846 3010A Analytical Method: SW-846 6010					
Sodium	12		mg/L	1	0.60	0.50	2/7/2020 18:35	T
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water			Analytical Method: EPA 350.1					
Ammonia (N)	1.5		mg/L	1	0.10	0.020	2/10/2020 12:37	T
Analysis Desc: Tot Dissolved Solids,SM2540C			Analytical Method: SM 2540 C					
Total Dissolved Solids	210		mg/L	1	10	10	2/10/2020 16:00	T
Analysis Desc: Chlorides,SM4500-Cl-E,Water			Analytical Method: SM 4500-Cl-E					
Chloride	16		mg/L	1	5.0	2.6	2/12/2020 10:34	T

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Advanced Environmental Laboratories, Inc.



ANALYTICAL RESULTS QUALIFIERS

Workorder: T2002403 SELF Supplemental Site Assess

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.
- J4 Estimated Result

LAB QUALIFIERS

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

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: T2002403 SELF Supplemental Site Assess

QC Batch: WCA/1738 Analysis Method: SM 2540 C
 QC Batch Method: SM 2540 C Prepared:
 Associated Lab Samples: T2002403001, T2002403002, T2002403003, T2002403004

METHOD BLANK: 3374787

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

LABORATORY CONTROL SAMPLE: 3374788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	660	650	98	85-115

SAMPLE DUPLICATE: 3374789 Original: T2002325001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
Total Dissolved Solids	mg/L	410	400	2	10

QC Batch: DGM/1193 Analysis Method: SW-846 6010
 QC Batch Method: SW-846 3010A Prepared: 02/07/2020 10:00
 Associated Lab Samples: T2002403001, T2002403002, T2002403003, T2002403004, T2002403005

METHOD BLANK: 3376584

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Sodium	mg/L	0.50	0.50 U

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: T2002403 SELF Supplemental Site Assess

LABORATORY CONTROL SAMPLE: 3376585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Sodium	mg/L	50	48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3376586 3376587 Original: G2001227001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Sodium	mg/L	210	50	250	250	71	75	75-125	1	20	

QC Batch: WCA1/1797 Analysis Method: SM 2540 C
 QC Batch Method: SM 2540 C Prepared:
 Associated Lab Samples: T2002403005

METHOD BLANK: 3377526

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

LABORATORY CONTROL SAMPLE: 3377527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	600	91	85-115	

SAMPLE DUPLICATE: 3377528 Original: T2002478001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	230	230	0	10	

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: T2002403 SELF Supplemental Site Assess

QC Batch: WCA/1803 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Prepared:
 Associated Lab Samples: T2002403001, T2002403002, T2002403003, T2002403004, T2002403005

METHOD BLANK: 3377663

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.020	0.020 U

LABORATORY CONTROL SAMPLE: 3377664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.5	0.53	107	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3377665 3377666 Original: T2002398003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	0.01	1	1.1	1.1	106	109	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3377667 3377668 Original: T2002427002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Ammonia (N)	mg/L	1.5	1	2.6	2.6	104	109	90-110	2	10	

QC Batch: WCA/1834 Analysis Method: SM 4500-CI-E
 QC Batch Method: SM 4500-CI-E Prepared:
 Associated Lab Samples: T2002403002, T2002403004

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: T2002403 SELF Supplemental Site Assess

METHOD BLANK: 3379199

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Chloride	mg/L	2.6	2.6 U

LABORATORY CONTROL SAMPLE: 3379200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Chloride	mg/L	50	51	102	90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379201 3379202 Original: T2002325001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY Chloride	mg/L	13	50	62	63	98	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379203 3379204 Original: T2002403004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY Chloride	mg/L	200	50	240	240	78	86	90-110	2	10	

QC Batch: WCA1/1877 Analysis Method: SM 4500-Cl-E
 QC Batch Method: SM 4500-Cl-E Prepared:
 Associated Lab Samples: T2002403001, T2002403003, T2002403005

METHOD BLANK: 3380912

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY Chloride	mg/L	2.6	2.6 U

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA

Workorder: T2002403 SELF Supplemental Site Assess

LABORATORY CONTROL SAMPLE: 3380913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	40	53	132	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380914 3380915 Original: T2002403001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	13	50	62	61	97	96	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3380916 3380917 Original: T2002876001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	13	50	62	62	98	99	90-110	1	10	

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Advanced Environmental Laboratories, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T2002403 SELF Supplemental Site Assess

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2002403001	TH-66A			SM 2540 C	WCA/1738
T2002403002	Field Blank			SM 2540 C	WCA/1738
T2002403003	TH-67			SM 2540 C	WCA/1738
T2002403004	TH-83			SM 2540 C	WCA/1738
T2002403001	TH-66A	SW-846 3010A	DGM/1193	SW-846 6010	ICP/1117
T2002403002	Field Blank	SW-846 3010A	DGM/1193	SW-846 6010	ICP/1117
T2002403003	TH-67	SW-846 3010A	DGM/1193	SW-846 6010	ICP/1117
T2002403004	TH-83	SW-846 3010A	DGM/1193	SW-846 6010	ICP/1117
T2002403005	TH-79	SW-846 3010A	DGM/1193	SW-846 6010	ICP/1117
T2002403005	TH-79			SM 2540 C	WCA/1797
T2002403001	TH-66A			EPA 350.1	WCA/1803
T2002403002	Field Blank			EPA 350.1	WCA/1803
T2002403003	TH-67			EPA 350.1	WCA/1803
T2002403004	TH-83			EPA 350.1	WCA/1803
T2002403005	TH-79			EPA 350.1	WCA/1803
T2002403002	Field Blank			SM 4500-CI-E	WCA/1834
T2002403004	TH-83			SM 4500-CI-E	WCA/1834
T2002403001	TH-66A			SM 4500-CI-E	WCA/1877
T2002403003	TH-67			SM 4500-CI-E	WCA/1877
T2002403005	TH-79			SM 4500-CI-E	WCA/1877
T2002403001	TH-66A	Field Measurements	FLDt/	Field Measurements	FLDt/
T2002403003	TH-67	Field Measurements	FLDt/	Field Measurements	FLDt/
T2002403004	TH-83	Field Measurements	FLDt/	Field Measurements	FLDt/
T2002403005	TH-79	Field Measurements	FLDt/	Field Measurements	FLDt/

CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.





Advanced Environmental Laboratories, Inc.

- Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte
- Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377
- Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 9
- Miramar: 10200 USA Today Way, Miramar FL 33025 • 954.689.22
- Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 •
- Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327



* T 2 0 0 2 4 0 3 *

Client Name: Hills. Co. Public Utilities		Project Name: SELF Supplemental Site Assessment	
Address: 332 North Falkenburg Rd.		P.O. Number/Project Number: N/A	
Tampa, Florida 33619		Project Location: Southeast County Landfill	
Phone: (813) 663-3222		REMARKS/SPECIAL INSTRUCTIONS	
FAX: (813) 274-6801			
Contact: Michael Townsel			
Sampled By: Moraks, Grayson			
Turn Around Time: <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RUSH			
Page: 1 of 1			

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
			DATE	TIME					
TH-66A		G	2/5/20	0929	GW	3	X		207
Field Blank		-	2/5/20	0950	DI	3	X		202
TH-79		G	2/5/20	1049	GW	3	X		203
TH-67		G	2/5/20	1131	GW	3	X		204
TH-83		G	2/5/20	1204	GW	3	X		204

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = ice H=(HC) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice Yes No Temp taken from sample Temp from blank

Where required pH checked Temperature when received 47 (in degrees Celsius)

Device used for measuring Temp by unique identifier (circle IR lamp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 1A S: 1V

Form revised 09/19/2012

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	2/5/20	1434	<i>[Signature]</i>	2/5/20	1455

FOR DRINKING WATER USE (When PWS information not otherwise supplied)

PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site-Address: _____



Advanced Environmental Laboratories, Inc.

- Altamonte Springs: 528 S. Northlake Blvd. Ste. 1016 - Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
- Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.355.6639
- Jacksonville: 6681 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: 9810 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

T2 202403

Client Name: Hills. Co. Public Utilities
 Address: 332 North Falkenburg Rd.
 Tampa, Florida 33619
 Phone: (813) 663-3222
 FAX: (813) 274-6801
 Contact: Michael Townsel
 Sampled By: Morales, Grayson
 Turn Around Time: STANDARD RUSH
 Page: 1 of 1

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	ANALYSIS REQUIRED	PRESER- VATION	LABORATORY I.D. NUMBER
			DATE	TIME					
TH-79		G	2/6/10	1034	Grw	3	Total Ammonia-N Chloride Sodium TDS	X X X X	205

Project Name: SELF Supplemental Site Assessment
 P.O. Number/Project Number: N/A
 Project Location: Southeast County Landfill
 REMARKS/SPECIAL INSTRUCTIONS:

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water Q = oil A = air SO = soil SL = sludge
 Preservation Code: I = ice H=(HC) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)
 Received on ice Yes No Temp taken from sample Temp from blank
 Where required, pH checked Temperature when received (y, l) (in degrees celcius)
 Device used for measuring Temp by unique identifier (circle IR temp gun used) J. 9A G. LT-1 LT-2 10A JA 3A M. 1A S. 1V
 Form revised 09/19/2012

FOR DRINKING WATER USE (When PWS information not otherwise supplied)
 PWS ID: _____
 Contact Person: _____ (Phone: _____)
 Supplier of Water: _____
 Site Address: _____

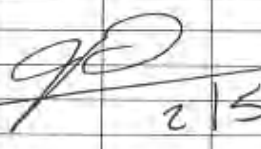
Received by	Date	Time	Received by	Date	Time
[Signature]	2/6/10	1435	[Signature]	2/6/10	1440

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

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-66A	SAMPLE ID: TH-66A
DATE: 2/5/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 5.37 ft to 15.37 ft	STATIC DEPTH TO WATER (feet): 9.63	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= { 15.37 feet - 9.63 feet } X 0.16 gallons/foot = 0.92 gallons				
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 = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.37	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.37	PURGING INITIATED AT: 0909	PURGING ENDED AT: 0929	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0925	0.96	0.96	0.06	11.03	5.93	22.3	286.1	0.55	0.67	clear	None
0927	0.12	01.08	0.06	11.03	5.96	22.3	286.4	0.39	0.49	clear	None
0929	0.12	01.20	0.06	11.03	5.95	22.4	285.1	0.34	1.12	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 (Gal./Ft.): 1/8" = 0.0006, 3/16" = 0.0014, 1/4" = 0.0026, 5/16" = 0.004, 3/8" = 0.006, 1/2" = 0.010, 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Morales, Apilar, Grayson				SAMPLER(S) SIGNATURE(S): M. Make				SAMPLING INITIATED AT: 0929		SAMPLING ENDED AT: 0932	
PUMP OR TUBING DEPTH IN WELL (feet): 14.37				TUBING MATERIAL CODE: T				FIELD-FILTERED: Y <input checked="" type="radio"/> (N)		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> (N)				TUBING Y <input checked="" type="radio"/> (replaced)				DUPLICATE: Y <input checked="" type="radio"/> (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: 0925 (16.8) 0927 (15.4) 0929 (12.1)

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)

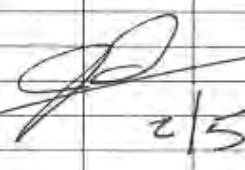
- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 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)

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

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: Field Blank	SAMPLE ID: Field Blank
DATE: 2/5/2020	

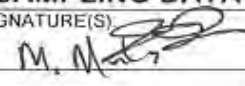
PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: N/A ft to N/A	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE 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) = (N/A feet - N/A feet) X 0.16 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)
											

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" = 0.0028; 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: Morales, Grayson				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 0950		SAMPLING ENDED AT: 0953	
PUMP OR TUBING DEPTH IN WELL (feet): N/A				TUBING MATERIAL CODE: N/A				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE 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 = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

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

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

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-67	DATE: 2/5/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.5	WELL SCREEN INTERVAL DEPTH: 5.25 ft to 15.25 ft	STATIC DEPTH TO WATER (feet): 6.89	PURGE PUMP TYPE OR BAILER: BP
----------------------------------	--------------------------------------	--	---	--------------------------------------

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable)
 = (**15.25** feet - **6.89** feet) X **0.16** gallons/foot = **1.34** gallons

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 = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.25	PURGING INITIATED AT: 1104	PURGING ENDED AT: 1131	TOTAL VOLUME PURGED (gallons): 1.62
---	---	-----------------------------------	-------------------------------	--

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 (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1127	1.38	1.38	0.06	8.66	6.22	24.0	479.2	0.22	8.68	Clear	None
1129	0.12	1.50	0.06	8.66	6.22	24.1	479.8	0.19	6.83	Clear	None
1131	0.12	1.62	0.06	8.66	6.22	24.1	482.6	0.22	5.68	Clear	None

[Signature]
2/5/2020

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: Morales, Grayson	SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>	SAMPLING INITIATED AT: 1131	SAMPLING ENDED AT: 1135
PUMP OR TUBING DEPTH IN WELL (feet): 14.25	TUBING MATERIAL CODE: T	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: 1127 (-11.8) 1129 (-12.9) 1131 (**

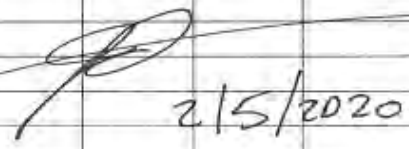
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM =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

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


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

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-83	DATE: 2/5/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 5.47 ft to 15.47 ft	STATIC DEPTH TO WATER (feet): 9.29	PURGE PUMP TYPE OR BAILER: BP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (15.47 feet - 9.29 feet) X 0.16 gallons/foot = 0.99 gallons											
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 = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.47	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.47	PURGING INITIATED AT: 1153	PURGING ENDED AT: 1204	TOTAL VOLUME PURGED (gallons): 1.65							
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)
1200	1.05	1.05	0.15	9.32	6.48	23.7	1156	0.36	0.73	Clear	None
1202	0.30	1.35	0.15	9.32	6.47	23.8	1139	0.29	0.57	Clear	None
1204	0.30	1.65	0.15	9.32	6.46	23.7	1131	0.22	0.49	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 (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: Morales, Grayson				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1204		SAMPLING ENDED AT: 1207	
PUMP OR TUBING DEPTH IN WELL (feet): 14.47				TUBING MATERIAL CODE: T		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ (µm)			
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> N (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
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: 1200 (-8.7) 1202 (-9.1) 1204 (-10.0)					
MATERIAL CODES: AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, PP = Polypropylene, S = Silicone, T = Teflon, O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump, B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, RFP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), O = Other (Specify)											

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

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

SITE NAME: Southeast County Landfill	SITE LOCATION: Lithia, Florida
WELL NO: TH-79	DATE: 2/6/2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 7.80 ft to 17.80 Ft	STATIC DEPTH TO WATER (feet): 8.02	PURGE PUMP TYPE OR BAILER: BP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (17.80 feet - 8.02 feet) X 0.16 gallons/foot = 1.56 gallons				
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 = _____ gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16.80	PURGING INITIATED AT: 0920	PURGING ENDED AT: 1034	TOTAL VOLUME PURGED (gallons): 3.330
---	---	-----------------------------------	-------------------------------	---

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)
0955	1.575	1.575	0.045	8.99	5.87	22.7	334.2	0.38	26.3	Cloudy	None
1030	1.575	3.150	0.045	8.97	5.76	23.7	343.2	0.18	19.5	Cloudy	None
1032	0.090	3.240	0.045	8.97	5.75	23.7	343.4	0.27	19.4	Cloudy	None
1034	0.090	3.330	0.045	8.97	5.75	23.8	343.9	0.21	18.0	Cloudy	None

P
2/6/20

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 = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Morales, Aguilar, Grayson	SAMPLER(S) SIGNATURE(S): <i>[Signatures]</i>	SAMPLING INITIATED AT: 1034	SAMPLING ENDED AT: 1038
PUMP OR TUBING: T	TUBING: T	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
DEPTH IN WELL (feet): 16.80	MATERIAL CODE: T	Filtration Equipment Type: _____	

FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>	TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>
--	--	---

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			
							ORP 1034 (27.4)		

REMARKS: **SEE C.O.C. FOR SAMPLE ANALYSIS** **ORP: 0955(14.5) 1030(27.1) 1032(26.6)**

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: ± 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)



Project No.: T2002403
Client Name: Hillsborough County Public Utilities
ProjectID: SELF Supplemental Site Assess

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010
Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike (MS) recovery of Sodium for G2001227001 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further correction required.
E. Serial Diluion: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other:



Project No.: T2002403
Client Name: Hillsborough County Public Utilities
ProjectID: SELF Supplemental Site Assess

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.
Analysis: All holding times were met.

III. Method

Analysis: SM 4500-Cl-E
Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Duplicates: All acceptance criteria were met.
D. Spikes: The matrix spike and matrix spike duplicate (MS) (MSD) recoveries of Chloride for T2002403004 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further correction required.
E. Serial Diluion: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.
G. Other: