

November 18, 2020

Renée J. Kwiat, CHMM, Environmental Consultant, Air and Waste
Florida Department of Environmental Protection - South District
PO Box 2549
2295 Victoria Ave.
Fort Myers, Florida 33902-2549

RE: Lee County Resource Recovery Facility, PA90-30H
Construction & Demolition Debris Recycling Facility
Second Semiannual 2020 Resample (September 2020 – 20M9)
FDEP Permit No. 0130719-018-SO-01
WACS Facility ID: 93715
Jones Edmunds Project No. 12345-016-01

Dear Ms. Kwiat:

During the Second Semiannual 2020 sampling event at the Lee County Resource Recovery Facility (RRF) and the Construction & Demolition Debris Recycling Facility (CDDRF), Sulfate in MW-5S was reported at 356 mg/L; above the SDWS of 250 mg/L. MW-5S was resampled for Sulfate on September 8, 2020. The table below provides the result of the resample event compared to the original result.

Sample	Parameter	Second Semiannual 2020 Result	September 8, 2020 Resample Result
MW-2S	Sulfate	356 mg/L	191 mg/L

Bold = Concentrations above groundwater standard.

The Sulfate concentration reported in MW-5S for the resample event is less than that reported during the Second Semiannual 2020 sampling event and is below the SDWS of 250 mg/L. Trend analysis indicates that Sulfate and Conductivity have been generally increasing in MW-5S.

Discussions with the County concerning possible sources of Sulfate in the area of MW-5S have been inconclusive. We will continue to explore possible Sulfate sources with the County and will report any pertinent information in future semiannual reports.

A table of groundwater results for the Second Semiannual 2020 sampling event and the resampling event compared to groundwater standards is provided in Attachment 1. Parameter Monitoring Report forms (PMRs) are provided in Attachment 2. Laboratory data and Chain of Custody forms are presented in Attachment 3. Field Data forms are included

Ms. Renée J. Kwiat
November 18, 2020
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in Attachment 4 and trend graphs of historical Conductivity and Sulfate concentrations in MW-5S are included in Attachment 5.

If you have any questions regarding this report, please contact me at (352) 377-5821 or ekennelley@jonesedmunds.com.

Sincerely,

A handwritten signature in blue ink that reads "Elizabeth D Kennelley". The signature is fluid and cursive, with the first name "Elizabeth" and last name "Kennelley" clearly legible.

Elizabeth D Kennelley
Project Manager / Project Scientist
730 NE Waldo Road
Gainesville, FL 32641

M:\EnvDocs\Lee County\Lee Resource Recovery Facility - WTE\2020\20M9 Resample\20M9_Lee RRF_Letter.docx

xc: Rebecca Rodriguez, Lee County
Linda Monroy, Lee County
Laura Gray, Lee County

Attachments

ATTACHMENT 1

ANALYSIS RESULTS COMPARED TO GROUNDWATER STANDARDS

ALL DATA
LEE COUNTY RESOURCE RECOVERY FACILITY
AUGUST 2020 THROUGH SEPTEMBER 2020

PARAMETER	CONDUCTIVITY (FIELD)	DEPTH TO WATER FROM MEASURE PT	DISSOLVED OXYGEN (FIELD)	GROUND- WATER ELEVATION	pH (FIELD)	REDOX POTENTIAL	TEMPER- ATURE (FIELD)	TURBIDITY (FIELD)	SULFATE
STANDARD UNITS	(1) uS/cm	(1) ft	(1) ppm	(1) ft, NGVD	6.5-8.5 S.U.** S.U.	(1) mV	(1) deg C	(1) NTU	250 mg/L** mg/L

DETECTION

MW-5S	08/03/2020	1208	4.92	0.37	18.89	6.76	-58.2	27.8	0.33	356
MW-5S	09/08/2020	1016	2.75	0.80	21.06	6.71	28.7	28.6	0.27	191

LEGEND

*	=Primary Drinking Water Standard	I	= Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
**	=Secondary Drinking Water Standard	J	= Estimated value
***	=Chapter 62-777 - Groundwater Cleanup Target Level (GCTL)	V	= Analyte found in associated method blank
(1)	=No Standard	Q	= Estimated value; analyte analyzed after acceptable holding time
-	=Not Analyzed		

ATTACHMENT 2

PARAMETER MONITORING REPORT FORMS

Lee County Resource Recovery Facility

Parameter Monitoring Report

PART III Analytical Results

Facility WACS #: 00093715

Test Site ID #: 23411

Well Name: MW-5S

Classification of Ground Water: G II

Ground Water Elevation (NGVD): 21.06

Sampling Date/Time: 9/8/2020 11:53:00 AM

Report Period: SEPTEMBER 2020

Well Purged: Y

Well Type: ☐ Background ☐ Intermediate
☐ Compliance ☐ Water Supply
☒ Detection ☐ Piezometer
☐ Assessment ☐ Leachate
☐ Other ☐ Surface Water

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
082546	DEPTH TO WATER FROM MEASURE PT	PP	No	DEP SOP	9/8/2020 11:53:00 AM	2.75	feet	feet
082545	GROUNDWATER ELEVATION	PP	No	DEP SOP	9/8/2020 11:53:00 AM	21.06	feet	feet
000094	CONDUCTIVITY (FIELD)	PP	No	EPA 120.1	9/8/2020 11:53:00 AM	1016	umhos/cm	umhos/cm
000406	pH (FIELD)	PP	No	EPA 150.1	9/8/2020 11:53:00 AM	6.71	Std. Units	Std. Units
000010	TEMPERATURE (FIELD)	PP	No	EPA 170.1	9/8/2020 11:53:00 AM	28.6	deg C	deg C
082078	TURBIDITY (FIELD)	PP	No	EPA 180.1	9/8/2020 11:53:00 AM	0.27	NTU	NTU
000945	SULFATE	PP	No	EPA 300.0	9/21/2020 8:24:00 PM	191	mg/L	5.0 mg/L
000299	DISSOLVED OXYGEN (FIELD)	PP	No	EPA 360.1	9/8/2020 11:53:00 AM	0.80	mg/L	mg/L
046480	REDOX POTENTIAL (FIELD)	PP	No	SM2580B	9/8/2020 11:53:00 AM	28.7	mV	mV

ATTACHMENT 3

ORIGINAL LABORATORY DATA INCLUDING CHAIN-OF-CUSTODY FORMS

September 23, 2020

Lab Data
Jones Edmunds & Associates
730 NE Waldo Road
Gainesville, FL 32641

RE: Project: Lee County Resource Recovery
Pace Project No.: 35576566

Dear Lab Data:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lee County Resource Recovery

Pace Project No.: 35576566

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Lee County Resource Recovery

Pace Project No.: 35576566

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35576566001	MW-5S	Water	09/08/20 11:53	09/09/20 10:58

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Lee County Resource Recovery

Pace Project No.: 35576566

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35576566001	MW-5S	EPA 300.0	NMT	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lee County Resource Recovery

Pace Project No.: 35576566

Sample: MW-5S **Lab ID: 35576566001** Collected: 09/08/20 11:53 Received: 09/09/20 10:58 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Pace Analytical Services - Ormond Beach									
Field pH	6.71	Std. Units			1		09/08/20 11:53		
Field Temperature	28.6	deg C			1		09/08/20 11:53		
Field Specific Conductance	1016	umhos/cm			1		09/08/20 11:53		
Oxygen, Dissolved	0.80	mg/L			1		09/08/20 11:53	7782-44-7	
REDOX	28.7	mV			1		09/08/20 11:53		
Turbidity	0.27	NTU			1		09/08/20 11:53		
Depth to Water	2.75	feet			1		09/08/20 11:53		
Water Level(NGVD)	21.06	feet			1		09/08/20 11:53		

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Pace Analytical Services - Ormond Beach

Sulfate	191	mg/L	10.0	5.0	2		09/21/20 20:24	14808-79-8	
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lee County Resource Recovery
Pace Project No.: 35576566

QC Batch: 666927	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35576566001

METHOD BLANK: 3627702 Matrix: Water
Associated Lab Samples: 35576566001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	2.5 U	5.0	2.5	09/21/20 13:26	

LABORATORY CONTROL SAMPLE: 3627703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3628771 3628772

Parameter	Units	35576481003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	2.5 U	50	50	42.8	47.9	83	93	90-110	11	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3628773 3628774

Parameter	Units	35576604003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	12.0	50	50	57.7	60.8	91	98	90-110	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Lee County Resource Recovery
Pace Project No.: 35576566

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lee County Resource Recovery

Pace Project No.: 35576566

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35576566001	MW-5S				
35576566001	MW-5S	EPA 300.0	666927		

REPORT OF LABORATORY ANALYSIS

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Gainesville, Florida 32641
Ph. (352) 377-5821 • Fax: (352) 377-3166

3910 S. Washington Avenue, Suite 210
Titusville, Florida 32780
Ph. (321) 269-2950 • Fax: (321) 269-2951

1100 Cesery Blvd.
Jacksonville, Florida 32211
Ph. (904) 744-5401 • Fax: (904) 744-6267

324 S. Hyde Park Ave., Suite 250
Tampa, Florida 33606
Ph. (813) 258-0703 • Fax: (813) 254-6860

2402

Lab Tracking Number

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE <i>Lee County - Resource Recovery Facility</i>		PROJECT NO. <i>12345-016-01</i>		MATRIX TYPE		REQUIRED ANALYSIS		PAGE <i>1</i> OF <i>1</i>			
SAMPLER(S) NAME <i>Steve Messick</i>				<div style="writing-mode: vertical-rl; transform: rotate(180deg);">SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER SOIL/SOLID/SEDIMENT NONAQUEOUS LIQUID (not solvent, etc.) AIR SLUDGE OTHER</div>		<i>Sulfate</i>		<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY <input type="checkbox"/> EXPEDITED REPORT REQUIRED Date Due: _____			
CLIENT NAME <i>Jones Edmunds</i>											
LABORATORY NAME AND ADDRESS <i>Pace Analytical - Ormond Beach, FL.</i>											
SAMPLE				FIELD IDENTIFICATION NUMBER		PRESERVATIVE		Date Due: _____			
STATION	DATE	TIME	GRAB	COMP			NUMBER OF CONTAINERS SUBMITTED		REMARKS		
<i>MW-55</i>	<i>9-8-20</i>	<i>1153</i>	<input checked="" type="checkbox"/>		<i>20M9LCRAF-55</i>		<i>1</i>		<i>Resample</i>		
<i>2</i>											
<i>3</i>											
<i>4</i>											
<i>5</i>											
<i>6</i>											
<i>7</i>											
<i>8</i>											
<i>9</i>											
<i>10</i>											
<i>11</i>											
<i>12</i>											
<i>13</i>											
<i>14</i>											
INITIAL KITS RECEIVED BY <i>Steve Messick</i>		DATE <i>9-3-20</i>	TIME <i>1830</i>	RELINQUISHED BY: (SIGNATURE) <i>Steve Messick</i>		DATE <i>9-8-20</i>	TIME <i>1515</i>	RECEIVED BY: (SIGNATURE) <i>Spencer Pace</i>		DATE <i>9/9/20</i>	TIME <i>1153</i>
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
SHIPPING METHOD <i>Fed-X Standard Overnight</i>				SHIPMENT ORIGIN <i>Fort Myers, FL.</i>				SHIPMENT DESTINATION <i>Ormond Beach, FL.</i>			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		LAB LOG NO.		REMARKS <i>This is a resample for 1st time Sulfate exceedance in MW-55</i>			

Project #

Project Manager:

Client:

WO#: 35576566

PM: JSB Due Date: 09/23/20

CLIENT: JONEDM

SCUR

Date and Initials of person:
Examining contents:
Label: KMF
Deliver: KMF
pH:

Thermometer Used: T353

Date: 9-9-20

Time: 1115

Initials: BRN

State of Origin:

☐ For WW projects, all containers verified to $\pm 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 3.6 (Visual) 7.1 (Correction Factor) 3.7 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☒ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☒ Unknown

Tracking # 1836 0260 1538

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

Seals intact: ☒ Yes ☐ No

Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:		
Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: <u> </u> Lot #/Trace #: <u> </u> Date: <u> </u> Time: <u> </u> Initials: <u> </u>
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution (use back for additional comments): Extra sample sent not listed on COC

MW-55 9-8-20 1153 sulfate

Project Manager Review:

Date:

Please return a copy of this form with original lab report.

Project Name: Lee Henry RSWF County - Resource Recovery Facility

[illegible]

Collection Method:	Description:
BA	BAILER
BP	BLADDER PUMP
CP	CENTRIFUGAL PUMP
E	GRAB
M	METER READING
PP	PERISTALTIC PUMP
SP	SUBMERSIBLE OR IN-PLACE DEDICATED PUMP
Z	UNKNOWN

ATTACHMENT 4

FIELD DATA FORMS

GROUNDWATER SAMPLING LOG

SITE NAME: Lee County Resource Recovery Facility		SITE LOCATION: Fort Myers, Florida	
WELL NO: MW-5S	WELL WACS NO:	SAMPLE ID: 20S2LCRRF-5S	DATE: 9-8-20

PURGING DATA

WELL DIAMETER(in): 2" PVC	TUBING DIAMETER (in): 1/8"	SCREEN LENGTH: 5' ft From 12.70 ft to 17.70 ft**	STATIC DEPTH TO WATER (feet): 2.75'	PURGE PUMP TYPE: Peristaltic Pump (PP)
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY 1 WELL VOLUME = (17.70 feet - 2.75 feet) X 0.16 gallons/foot = 2.4 gallons				Water Level measured with: mem-GNV-03
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				PURGE METHOD: 2.3
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3 1/2		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3 1/2		PURGING INITIATED AT: 1107
		PURGING ENDED AT: 1151		TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR	ORP (mVolts)
1135	2.4	2.4	0.08	2.82	6.70	28.7	1042	0.93	0.30	None Clear	None	48.2
1143	0.6	3.0	1	2.82	6.70	28.6	1024	0.82	0.33	↓	↓	34.1
1151	0.6	3.6	↓	2.82	6.71	28.6	1016	0.80	0.27	↓	↓	28.7

SAMPLING DATA

SAMPLED BY (Print) / AFFILIATION: Steve Messick / Jones Edmunds & Associates Inc.		SAMPLER(S) SIGNATURES: <i>Steve Messick</i>		SAMPLING INITIATED AT: 1153	SAMPLING ENDED AT: 1154
PUMP OR TUBING DEPTH IN WELL (feet): 3 1/2		SAMPLE PUMP VOC Sampling Rate 100-400 mL/min <input checked="" type="checkbox"/> FLOW RATE Other Samples Rate (mL / min): 1.325		TUBING MATERIAL CODE: PE & S	SAMPLING EQUIPMENT CODE: APP
FIELD DECONTAMINATION: Y <input checked="" type="checkbox"/> (N)		FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N) FILTER SIZE: _____ µm		DUPLICATE: Y <input checked="" type="checkbox"/> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOL	PRES. USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL PH*	
20S2LCRRF-5S	3	CG	40 mL	HCL	None	N/A	601/602
20S2LCRRF-5S	1	PE	250 mL	HNO3	None	 	Metals
20S2LCRRF-5S	1	PE	250 mL	H2SO4	None	 	Ammonia
20S2LCRRF-5S	1	PE	250 mL	None	None	N/A	Sulfate
20S2LCRRF-5S	1	PE	500 mL	None	None	N/A	Chlorides, Nitrate, TDS
20M92CRRF-5S	1	PE	250mL	None	None	N/A	Sulfate

REMARKS:

• Verified Sample pH as <2 or >12 (as applicable) at **N/A**
 • Screened interval referenced is depth below Top of Casing
 Sky Conditions: **Cloudy** Ambient Air Temperature: **31°C**
 Approx. Wind Speed and Direction: **2-7 MPH E/SE**
 Grundfos Settings: **—** HZ Peristaltic Setting: **#4**
 Bladder Pump: CPM **—** Refill/Discharge **—** sec Pressure **—** PSI
 Total Tubing Length: **20** feet (New Tubing)

COMMENTS: Total Well Depth = **17.70** by **S. Messick** date **8-5-19**



730 NE Waldo Road
Gainesville, Florida 32641
Ph. (352) 377-5821 • Fax: (352) 377-3166

3910 S. Washington Avenue, Suite 210
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1100 Cesery Blvd.
Jacksonville, Florida 32211
Ph. (904) 744-5401 • Fax: (904) 744-6267

324 S. Hyde Park Ave., Suite 250
Tampa, Florida 33606
Ph. (813) 258-0703 • Fax: (813) 254-6860

2402

Lab Tracking Number

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE <i>Lee County - Resource Recovery Facility</i>		PROJECT NO. <i>12345-016-01</i>		MATRIX TYPE		REQUIRED ANALYSIS		PAGE <i>1</i> OF <i>1</i>			
SAMPLER(S) NAME <i>Steve Merrick</i>		<div><div>SURFACE WATER</div><div>GROUND WATER</div><div>WASTEWATER</div><div>DRINKING WATER</div><div>SOIL/SOLID SEDIMENT</div><div>NONAQUEOUS LIQUID (oil, solvent, etc.)</div><div>AIR</div><div>SLUDGE</div><div>OTHER</div></div>		<div><div><i>Sulfate</i></div></div>		<div><div><input checked="" type="checkbox"/> STANDARD REPORT DELIVERY</div><div><input type="checkbox"/> EXPEDITED REPORT REQUIRED</div></div>		Date Due: _____			
CLIENT NAME <i>Jones Edmunds</i>											
LABORATORY NAME AND ADDRESS <i>Pace Analytical - Ormond Beach, FL.</i>											
SAMPLE		FIELD IDENTIFICATION NUMBER		PRESERVATIVE		NUMBER OF CONTAINERS SUBMITTED		REMARKS			
STATION	DATE	TIME	GRAB	COMP							
<i>1 MW-55</i>	<i>9-8-20</i>	<i>1153</i>	<i>✓</i>		<i>20M9LCARF-55</i>	<i>✓</i>		<i>1</i>		<i>Resample</i>	
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
INITIAL KITS RECEIVED BY <i>Steve Merrick</i>		DATE <i>9-3-20</i>	TIME <i>1830</i>	RELINQUISHED BY: (SIGNATURE) <i>Steve Merrick</i>		DATE <i>9-8-20</i>	TIME <i>1515</i>	RECEIVED BY: (SIGNATURE)		DATE	TIME
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
SHIPPING METHOD <i>Fed-X Standard Overnight</i>				SHIPMENT ORIGIN <i>Fort Myers, FL.</i>				SHIPMENT DESTINATION <i>Ormond Beach, FL.</i>			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO		LAB LOG NO.		REMARKS <i>This is a resample for 1 time Sulfate exceeded in MW-55</i>			

Jones, Edmunds, and Associates, Inc.
Environmental Consultants
730 NE Waldo Road
Gainesville, Florida 32641
(352) 377-5821 Fax (352) 377-3166

Please return a copy of this form with original lab report.

Field Data Information Form

Project Name: Lee County RRF
Project Number: 12345-016-01
Date: 9-8-20
Sampler: Steve Messick
Laboratory: Pace Analytical - Ocala Beach, FL.

[illegible]

TO BE SUBMITTED TO LABORATORY WITH CHAIN-OF-CUSTODY

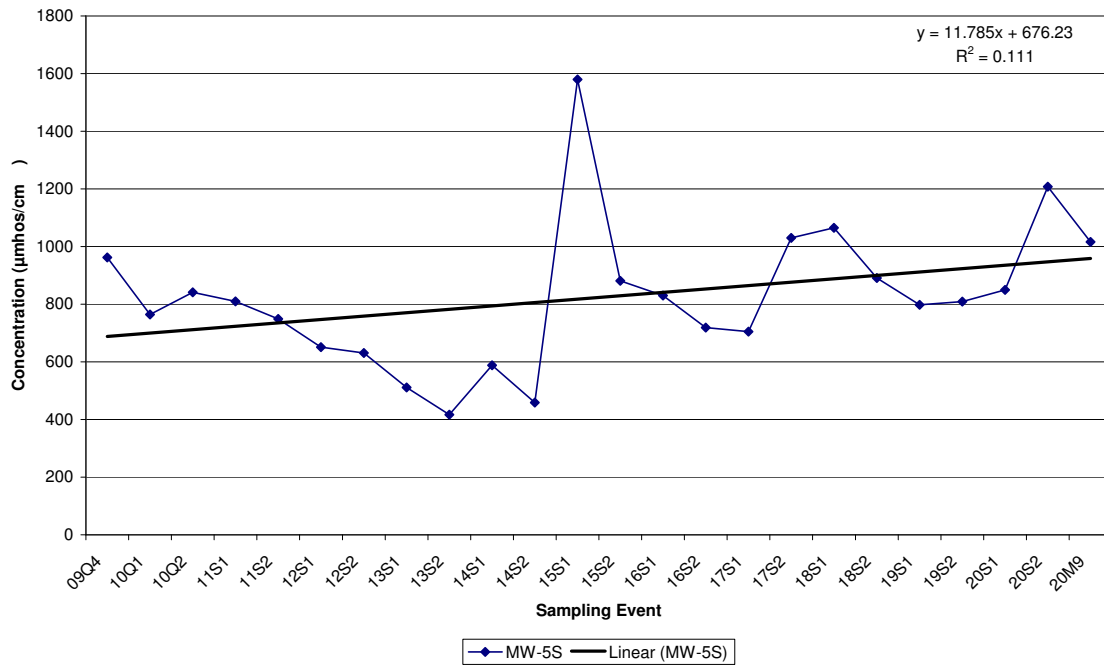
Collection Method:	Description.
BA	BAILER
BP	BLADDER PUMP
CP	CENTRIFUGAL PUMP
E	GRAB
M	METER READING
PP	PERISTALTIC PUMP
SP	SUBMERSIBLE OR IN-PLACE DEDICATED PUMP
Z	UNKNOWN

* Initial Depth to Water at Time of Sampling

ATTACHMENT 5

TREND GRAPHS

Lee County Resource Recovery Facility
Historic SPEC. CONDUCTANCE (FIELD) in MW-5S



Lee County Resource Recovery Facility
Historic SULFATE (SO4) in MW-5S

