



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

Mark Ashton
Greater Pine Island Water Assn, Inc
5281 Pine Island Road
Bokeelia, FL 33922
TEL: (239) 283-1072
FAX:

RE: UCMR5 Sampling & Analyses

Order No.: 2307291

Dear Mark Ashton:

Sanders Laboratories, Inc received 2 sample(s) on 7/10/2023 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of \$50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
SL 001= Nokomis Certificate # E84380 1050 Endeavor Court Nokomis Fl 34275. SL002= Fort Myers Certificate # E85457 10090 Bavaria Road Fort Myers Fl 33913

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director



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Definition Only

WO#: 2307291
Date:

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value. Lab QC not in range.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

S: Final DO reading is less than 1 mg/l and the difference between initial and final DO is not at least 2 mg/l or if seed dilutions have wide variance per mL seed (30%).

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: MF: Too many colonies were present for accurate counting. MPN: All wells were positive. Results maybe higher than reported.

DEP Form FD 9000-24:
SAMPLING LOG

SITE NAME:	Pine Island WTP	SITE LOCATION:	WGR-5
WELL NO:	Lab Tap	SAMPLE ID:	
		DATE:	7/10/73

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BALLER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$= (\text{feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	PH EPA 150.1 (standard units)	TEMP. EPA 170.1 (°C)	COND. EPA 120.1 (circle units) µmhos/cm or SAL ppt	DISSOLVED OXYGEN EPA 360.1 mg/L	TURBIDITY EPA 180.1 (NTUs)	COLOR (describe)	ODOR (describe)
Equipment Serial Numbers											
				5602	13E10301 ₅	13E10301 ₅	13E10301 ₅	13E10301 ₅	20012585		
					DUP		Blank:		Blank:		
10:15						836.28.6	691	4.38	0.90	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 = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

[illegible]

MARKS: Free ch 1.48

MATERIAL CODES:	AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES:	APP = After (Through) 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)
Peristaltic Pump Geotach S/N: 51055 Submersible Pump S/N: 002917 Chlorine Meter Hach: S/N: 1808E364895	
NOTES: 1 The above do not constitute all of the information collected during this study.	

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: $\pm 0.2^\circ\text{C}$. Specific Conductance: $\pm 5\%$. Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally + 0.2 mg/L or $+10\%$ (whichever is greater). Turbidity: all readings $\leq 20\text{ NTU}$, optionally $\pm 5\text{ NTU}$ or $\pm 10\%$ (whichever is greater).



DEP Form FD 9000-



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

August 17, 2023

Jeff Walsh
Sanders Laboratories-FL
10090 Bavaria Road
Fort Myers, FL 33913

RE: FL5360322

Dear Jeff Walsh:

Please find enclosed the analytical results for the **2** sample(s) the laboratory received on **7/11/23 1:14 pm** and logged in under work order **GG01307**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

A handwritten signature in cursive script that reads 'Janet Clutters'.

Janet Clutters
Project Manager
(309) 692-9688 x1743
janet.clutters@pacelabs.com

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order GG01307

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: GG01307-01

Name: 10001-GREATER PINE ISLAND WATER ASSOC-LAB TAP

Reg ID: FL5360322

Sampled: 07/10/23 10:15

Received: 07/11/23 13:14

Matrix: Drinking Water - FS

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Semivolatile Organics - PFAS - PIA									
PFTTrDA	< 0.0070	ug/L		07/20/23 09:15	1	0.0070	07/21/23 19:06	PSB	EPA 537.1 REV1*
NETFOSAA	< 0.0050	ug/L		07/20/23 09:15	1	0.0050	07/21/23 19:06	PSB	EPA 537.1 REV1*
NMEFOSAA	< 0.0060	ug/L		07/20/23 09:15	1	0.0060	07/21/23 19:06	PSB	EPA 537.1 REV1*
PFTeDA	< 0.0080	ug/L		07/20/23 09:15	1	0.0080	07/21/23 19:06	PSB	EPA 537.1 REV1*
PFBA	< 0.0050	ug/L		07/26/23 09:01	1	0.0050	07/27/23 12:17	DJB	EPA 533*
PFMPA	< 0.0040	ug/L		07/26/23 09:01	1	0.0040	07/27/23 12:17	DJB	EPA 533*
PFPeA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFBS	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFMBA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFEESA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
HFPO-DA	< 0.0050	ug/L		07/26/23 09:01	1	0.0050	07/27/23 12:17	DJB	EPA 533*
NFDHA	< 0.020	ug/L		07/26/23 09:01	1	0.020	07/27/23 12:17	DJB	EPA 533*
4:2 FTS	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFHxS	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFHpA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFHxA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
ADONA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFPeS	< 0.0040	ug/L		07/26/23 09:01	1	0.0040	07/27/23 12:17	DJB	EPA 533*
6:2 FTS	< 0.0050	ug/L		07/26/23 09:01	1	0.0050	07/27/23 12:17	DJB	EPA 533*
PFOA	< 0.0040	ug/L		07/26/23 09:01	1	0.0040	07/27/23 12:17	DJB	EPA 533*
PFHpS	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFOS	< 0.0040	ug/L		07/26/23 09:01	1	0.0040	07/27/23 12:17	DJB	EPA 533*
PFNA	< 0.0040	ug/L		07/26/23 09:01	1	0.0040	07/27/23 12:17	DJB	EPA 533*
9CI-PF3ONS	< 0.0020	ug/L		07/26/23 09:01	1	0.0020	07/27/23 12:17	DJB	EPA 533*
8:2 FTS	< 0.0050	ug/L		07/26/23 09:01	1	0.0050	07/27/23 12:17	DJB	EPA 533*
PFDA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
PFUnA	< 0.0020	ug/L		07/26/23 09:01	1	0.0020	07/27/23 12:17	DJB	EPA 533*
11CI-PF3OUdS	< 0.0050	ug/L		07/26/23 09:01	1	0.0050	07/27/23 12:17	DJB	EPA 533*
PFDoA	< 0.0030	ug/L		07/26/23 09:01	1	0.0030	07/27/23 12:17	DJB	EPA 533*
Total Metals - PIA									
Lithium	< 9.00	ug/L		07/21/23 05:18	2.5	9.00	07/26/23 08:49	BRS	EPA 200.7 REV4.4*



NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Janet Clutters, Project Manager

SITE NAME: Pine Island WTP		SITE LOCATION: UCMR-5	
WELL NO: Lab Tap		SAMPLE ID:	DATE: 7/10/23

WELL DIAMETER (inches):		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) <div style="text-align: center;"> = (feet - feet) X gallons/foot = gallons </div>											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) <div style="text-align: center;"> = gallons + (gallons/foot X feet) + gallons = gallons </div>											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH EPA 150.1 (standard units)	TEMP. EPA 170.1 (°C)	COND. EPA 120.1 (circle units) µmhos/cm or SAL ppt	DISSOLVED OXYGEN EPA 360.1 mg/L	TURBIDITY EPA 180.1 (NTUs)	COLOR (describe)	ODOR (describe)
Equipment Serial Numbers				6602	13E103015	13E103015	13E103015	13E103015	20012585		
					DUP		Blank:		Blank:		
							Dup:		Dup:		
10:15					8.36	28.6	691	4.38	0.90	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)											

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT: 10:15		SAMPLING ENDED AT: 10:20	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y N X		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y X N				TUBING Y N X (replaced)			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			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				
							plas		Lab Tap	
REMARKS: Free c/p 1.48										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) 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)										
Peristaltic Pump Geotach S/N: 5105 Submersible Pump S/N: 002917 Chlorine Meter Hach: S/N: 1808E364895										

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: $\pm 0.2^{\circ}\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+ 0.2 \text{ mg/L}$ or $+ 10\%$ (whichever is greater) Turbidity: all readings $\leq 20 \text{ NTU}$; optionally $\pm 5 \text{ NTU}$ or $\pm 10\%$ (whichever is greater)



Sanders Laboratories Inc, South
10090 Bavaria Rd
Fort Myers, Fl
FDOH #E85457



DEP Form FD 9000-...

Project # 6601307

Project Manager: Janet

Client: Sanders

Courier: ☐ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other _____

Tracking # 6319 6001 9644

Custody Seal: ☐ Yes ☐ No Seal intact: ☐ Yes ☐ No ☐ N/A Ice: ☐ Yes ☐ No

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

		Comments
Chain of Custody Present	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Chain of Custody Completed	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished & Sampler Signature	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples Arrived within Hold Time	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sufficient Volume	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Labels match COC	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples received ≤48 hr from collection	<input type="checkbox"/> Yes <input type="checkbox"/> No	
If no, were samples kept ≤6°C after 48 hrs of collection?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Person contacted for verification		

Temperature Verification

Initials: zc

Date: 7/1/23

Time: 930

IR Gun ID: 16

CF (°C): 0.0

	Observed (°C)	Corrected (°C)	Comments
EPA 533	<u>3.0</u>	<u>3.0</u>	
EPA 537.1	<u>4.8</u>	<u>4.8</u>	

Preservation Verification

pH strip: HC248510 & HC201851

pH meter: _____

Free Cl Strip/DPD: 0324311-HH

Cl Meter: _____

200.7 Lab Preserved: Nitric Acid: _____

Date/Time: _____

Initials: _____

Sample/Container ID	pH				Free Chlorine**		Comments
	533* (pH 6.0-8.0)	537.1 (pH 6.0-8.0)	200.7 (pH <2)	200.7 Lab Preserved	533	537.1	
<u>6601307 01A</u>	<u>6</u>				<u>ND</u>		
<u>B</u>	<u>6</u>				<u>I</u>		
<u>C</u>	<u>6</u>				<u>I</u>		
<u>D</u>	<u>6</u>						
<u>E</u>		<u>7</u>				<u>ND</u>	
<u>F</u>		<u>7</u>				<u>I</u>	
<u>G</u>		<u>7</u>					
<u>H</u>		<u>7</u>					

*533 pH may be adjusted at the bench prior to extra ** ND = <0.1 mg/L

Preservation Verification Continued

[illegible]

*533 pH may be adjusted at the bench prior to extraction ** ND = <0.1 mg/L