

**FORT MEADE LANDFILL, LLC
PEMBROKE SOUTH CONSTRUCTION AND
DEMOLITION DEBRIS DISPOSAL FACILITY
FOURTH QUARTERLY GROUNDWATER QUALITY REPORT 2025
DEP PERMIT NO. 126762-020-SO/24
WACS No. 88561**

Prepared by:

**LOCKLEAR AND ASSOCIATES, INC.
210 Southwest 4th Avenue
Gainesville, Florida 32601**



1/7/26
C. Walker Wrenn

**C. Walker Wrenn
P.G. 2792**



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January 7, 2026

Ms. Betsy Loaiza

Florida Department of Environmental Protection – Southwest District

13051 North Telecom Parkway

Temple Terrace, FL 33637

**RE: Water Quality Monitoring Report – Fourth Quarterly Evaluation, 2025
Pembroke South Construction and Demolition Debris Disposal Facility
3400 U.S. Hwy 17 North, Fort Meade, Polk County, Florida
Permit No. 126762-020-SO/24
WACS No. 88561**

Dear Ms. Loaiza:

This report presents data from the Fourth Quarter – 2025 Evaluation at the Pembroke South Construction and Demolition Debris Disposal Facility performed on December 3, 2025. Background monitoring well, MW-9, and downgradient detection points MW-8, MW-8A and SW-8A were sampled.

Below is a discussion of parameters of interest. Analytical results are summarized in Attachments 1 and 2.

Secondary Drinking Water Standards (SDWS)

- The Iron concentrations reported from the samples collected from MW-9, MW-8 and MW-8A were above the SDWS of 300 µg/L, at 25000, 17000 and 8400 µg/L, respectively. The Iron concentration for SW-8A was below the standard at 130 µg/L.
- The pH levels reported from MW-9, MW-8 and MW-8A were below the lower limit of 6.5 S.U., at 5.71, 6.18 and 5.60 S.U., respectively. The pH level for SW-8A was within the SDWS, at 6.83 S.U.
- The Total Dissolved Solids (TDS) concentrations reported from the samples collected from MW-8 and MW-8A were above the SDWS of 500 mg/L, at 1600 and 670 mg/L, respectively. The TDS concentrations for MW-9 and SW-8A were below the SDWS at 130 and 400 mg/L, respectively.

Primary Drinking Water Standards (PDWS)

- The Arsenic concentrations reported from the samples collected from MW-8 and MW-8A were above the PDWS of 10 µg/L, at 18 and 12 µg/L, respectively. The Arsenic concentrations for the remaining sampling points were below the PDWS at 3.1 and 0.93 µg/L, respectively.
- The Sodium values for MW-8 was above the PDWS of 250 mg/L, at 310 mg/L. The Sodium concentrations for the remaining sampling points were below the PDWS, ranging from 7.9 to 78 mg/L.

Conclusions

Continued semiannual sampling will be conducted as required by the facility permit. Quarterly assessment sampling will be discussed under a separate cover.

Laboratory analyses for the quality assurance and quality control (QAQC) samples (Equipment and Trip) are present in Attachment 3. Automated Data Processing Tool (ADaPT), Electronic Data Deliverable (EDDs) are delivered electronically in accordance with the facility permit. The laboratory reports are provided in Attachment 5.

If you have any questions regarding this report, please contact me or John Locklear at (352) 672-6867.

Sincerely,



**C. Walker Wrenn, PG
Team Locklear,
Environmental Division Director**

xc: Tony Bishop, Eco South Services, Vice President of Post Collection
 Jason Harris, Eco South Services, Landfill Manager
 Joe O'Neill, Civil Design Services, Vice President

Attachment 1:	Detected Parameter Exceedances Compared to Groundwater Standards
Attachment 2:	Groundwater Parameters At or Above the Laboratory Detection Limit
Attachment 3:	Quality Assurance/Quality Control Summary
Attachment 4:	Field Forms
Attachment 5:	Laboratory Reports

Attachment 1

Detected Parameter Exceedances Compared to Groundwater Standards

Pembroke South Construction and Demolition Debris Facility

Detected Parameter Exceedances Compared to Groundwater Standards

Groundwater Quality Report – Fourth Quarterly 2025

PARAMETER	COLLECTION	ARSENIC	IRON	pH (FIELD)	SODIUM	TOTAL DISSOLVED SOLIDS
STANDARD	DATE	10 µg/L *	300 µg/L **	6.5-8.5 s.u. **	160 mg/L *	500 mg/L **
UNITS	M/D/Y	µg/L	µg/L	S.U.	mg/L	mg/L
Background						
MW-9	12/3/2025	-	25000	5.71	-	-
Detection						
MW-8	12/3/2025	18	17000	6.18	310	1600
MW-8A	12/3/2025	12	8400	5.6	-	670
Evaluation						
SW-8A	12/3/2025	-	-	-	-	-
QAQC						
EQUBLKGW	12/3/2025	-	-	NM	-	-

LEGEND

* = primary drinking water standard

** = secondary drinking water standard

*** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

A = Analysis Result is at Groundwater Standard

- = Analysis Result is not at or outside Groundwater Standard

NS = Not Sampled

NM = Not Measured

Note: Analysis results which were reported above the laboratory detection limit, but not at or above the Groundwater Standard are not displayed in this table.

Attachment 2

Groundwater Parameters At or Above the Laboratory Detection Limit

Pembroke South Construction and Demolition Debris Facility
Groundwater Parameters At or Above Laboratory Detection Limit
Groundwater Quality Report – Fourth Quarterly 2025

PARAMETER		ALUMINUM	AMMONIA as NITROGEN	AMMONIA, UNIONIZED	ARSENIC	BARIUM	CHLORIDE	CHROMIUM	COBALT
STANDARD	COLLECTION	200 µg/L**	N	N	10 µg/L*	2000 µg/L*	250 mg/L**	100 µg/L*	140µg/L***
UNITS	DATE	µg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L
Background									
MW-9	12/3/2025	53	0.4	-	3.1 I	1.6 I	9.9	0.55 I V	0.26 I
Detection									
MW-8	12/3/2025	28 V	33	-	18	2.0 I	300	9.0 V	0.90 I
MW-8A	12/3/2025	94	2	-	12	3.6 I	61	1.2 I V	3.5
Evaluation									
SW-8A	12/3/2025	19 V	0.89	0.0061	0.93 I	7.3	42	1.6 I V	0.32 I

LEGEND

* = primary drinking water standard
** = secondary drinking water standard
*** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)
N = No Standard
- = Not analyzed
I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
J = Estimated value
V = Analyte found in associated method blank
Q = Estimated value; analyte analyzed after acceptable holding time
U = Indicates that the compound was analyzed for but not detected

Pembroke South Construction and Demolition Debris Facility
Groundwater Parameters At or Above Laboratory Detection Limit
Groundwater Quality Report – Fourth Quarterly 2025

PARAMETER	COPPER	DISSOLVED OXYGEN (FIELD)	IRON	LEAD	NICKEL	NITRATE as N	NITROGEN, TOTAL	pH (FIELD)	SODIUM
STANDARD	1000 µg/L**	NI	300 µg/L**	15 µg/L*	100 µg/L*	10 mg/L*	NI	6.5-8.5 s.u.**	160 mg/L*
UNITS	µg/L	mg/L	µg/L	µg/L		mg/L	mg/L	S.U.	mg/L
Background									
MW-9	<0.64	2.99	25000	<0.24	<0.92	<0.10	-	5.71	7.9
Detection									
MW-8	<0.64	1.16	17000	<0.24	13	<0.10	-	6.18	310
MW-8A	13	1.18	8400	<0.24	3.2 I	<0.10	-	5.6	78
Evaluation									
SW-8A	<0.64	1.8	130 I	<0.24	<0.92	<0.10	3.4	6.83	43

LEGEND

* = primary drinking water standard

** = secondary drinking water standard

*** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

NI = No Standard

- = Not analyzed

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)

J = Estimated value

V = Analyte found in associated method blank

Q = Estimated value; analyte analyzed after acceptable holding time

U = Indicates that the compound was analyzed for but not detected

Pembroke South Construction and Demolition Debris Facility

Groundwater Parameters At or Above Laboratory Detection Limit

Groundwater Quality Report – Fourth Quarterly 2025

PARAMETER	SPECIFIC CONDUCTIVITY (FIELD)	SULFATE	TEMPERATURE (FIELD)	TOTAL DISSOLVED SOLIDS	TURBIDITY (FIELD)	VANADIUM	ZINC
STANDARD	N	250 mg/L**	N	500 mg/L**	N	49 µg/L***	5000 µg/L**
UNITS	umhos/cm	mg/L	deg C	mg/L	NTU	µg/L	µg/L
Background							
MW-9	212	0.61 I	20.71	130	4.06	<0.49	<1.3
Detection							
MW-8	1951	<0.50	28.4	1600	3.59	1.3 I	<1.3
MW-8A	801	170	25.81	670	2.8	0.66 I	15
Evaluation							
SW-8A	581	5.9	16.21	400	13.6	<0.49	<1.3

LEGEND

* = primary drinking water standard

** = secondary drinking water standard

*** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

N = No Standard

- = Not analyzed

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)

J = Estimated value

V = Analyte found in associated method blank

Q = Estimated value; analyte analyzed after acceptable holding time

U = Indicates that the compound was analyzed for but not detected

Attachment 3

Quality Assurance and Control Summary

Field Quality Control Sample Review

Site:	Pembroke South Construction and Demolition Debris Facility
Sampling Period:	Fourth Quaterly 2025

Equipment Blanks:

Chain-of-Custody Identifier	Final Report Identifier	Date	Analysis	Equipment	Parameters Detected / Comment
25Q4P-EQGW	EQUBLK1	12/3/2025	Groundwater Parameters	Submersible Pump and Tubing	Sodium

Field Sampling Procedures:

No deficiencies noted.

Laboratory Procedures:

Parameters reported in the Equipment Blanks and samples between the Practical Quantitation Limit and the Method Detection Limit will be presented with an "I" qualifier.
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Note: TRIPGW in table is reported in Desoto data set.

Attachment 4

Field Forms

DEP-SOP-001/01
FT 1600 Field Measurement of Turbidity

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME Pembroke 25Q4 DATE 12/2/25
INSTRUMENT (MAKE/MODEL#) HACH 2100P INSTRUMENT# 080706030647
Instrument Calibration Date 8/29/25

PARAMETER: [check only one]

☒ TURBIDITY

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased.]

Standard A <0.1 NTU

Standard B 20 NTU

Standard C 100 NTU

Standard D 800 NTU

Standard E Measurement Cell + Distilled Water <0.25 NTU

DATE	TIME (military)	STD (A, B, C)	STD VALUE (NTU)	INSTRUMENT RESPONSE (NTU)	(+/- 5 NTU or 10%) DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/2/25	0833	A	<0.1	0.09	-	No	Cont	WW
↓	0841	B	20	20	0	↓	↓	↓
↓	0842	C	100	98	2	↓	↓	↓
↓	0843	E	<0.25	0.16	-	↓	↓	↓
12/4/25	0931	A	<0.1	0.09	-	No	Cont	↓
↓	0931	B	20	20	0	↓	↓	↓
↓	0933	C	100	99	1	↓	↓	↓
↓	0933	E	<0.25	0.17	-	↓	↓	↓

LOCKLEAR

[illegible][illegible][illegible]

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Pembroke South		SITE LOCATION: Fort Meade, Florida	
WELL NO: MW-9	SAMPLE ID: 25Q2P -9	DATE: 12/3/25	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH bottom 15 ft.	STATIC DEPTH TO WATER (feet): 11.07	PURGE PUMP TYPE: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22.70 feet - 11.07 feet) X 0.16 gallons/foot = 1.86 gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17	PURGING INITIATED AT: 0721	PURGING ENDED AT: 0743	TOTAL VOLUME PURGED (gallons): 4.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (SU)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	ODOR (describe)
0739	3.6	3.6	0.2	11.47	5.71	20.72	212	3.00	4.11	-99.2	clear	none
0741	0.4	4.0	↓	11.47	5.71	20.74	212	2.99	4.17	-98.9	↓	↓
0743	0.4	4.4	↓	11.47	5.71	20.71	212	2.99	4.06	-98.9	↓	↓

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: Walker Wrenn, Locklear & Associates, Inc.				SAMPLER SIGNATURE: <i>[Signature]</i>				SAMPLING INITIATED AT: 0744		SAMPLING ENDED AT: 0745	
PUMP OR TUBING DEPTH IN WELL (feet): 17				TUBING MATERIAL CODE: PE				FIELD-FILTERED: N			
FIELD DECONTAMINATION: PUMP <u>Y</u>				TUBING <u>N</u> (replaced)				DUPLICATE: <u>N</u>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CON TAIN ERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
25Q2P -9	1	PE	250mL	HNO3	-	12.0	Metals	ESP	~500
↓	1	PE	250mL	H2SO4	-	12.0	Ammonia	ESP	~500
	1	PE	250mL	--	-	-	TDS	ESP	~500
	1	PE	125mL	--	-	-	Sulfate, Nitrate, Chloride	ESP	~500

REMARKS:
Historic purge method: 2b#3
Cloudy, orange to start – tiny orange particles in flow cell
purge until clear
PURGE 2 VOLUMES

*= verified sample pH as <2 or >12 (as applicable) at MW-9
Pump Setting: 7.4
Total Tubing Length: 30 feet

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)

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)

62-160.800 F.A.C.

Revision Date: January 2017

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Pembroke South		SITE LOCATION: Fort Meade, Florida	
WELL NO: MW-8	SAMPLE ID: 25Q2P -8	DATE: 12/3/25	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH bottom 15 ft.	STATIC DEPTH TO WATER (feet): 10.61	PURGE PUMP TYPE: ESP								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22.60 feet - 10.01 feet) X 0.16 gallons/foot = 2.01 gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16	PURGING INITIATED AT: 0803	PURGING ENDED AT: 0827	TOTAL VOLUME PURGED (gallons): 5.04								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (SU)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	ODOR (describe)
0823	4.2	4.2	0.21	10.87	6.18	28.34	1948	1.17	3.72	-1824	clear	none
0825	0.42	4.62	↓	10.87	6.18	28.41	1950	1.14	3.70	-1895	↓	↓
0827	0.42	5.04	↓	10.87	6.18	28.40	1951	1.16	3.59	-190.3	↓	↓
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: Walker Wrenn, Locklear & Associates, Inc.				SAMPLER SIGNATURE: <i>[Signature]</i>				SAMPLING INITIATED AT: 0828		SAMPLING ENDED AT: 0829			
PUMP OR TUBING DEPTH IN WELL (feet): 16				TUBING MATERIAL CODE: PE				FIELD-FILTERED: N					
FIELD DECONTAMINATION: PUMP <u>Y</u>				TUBING <u>N</u> (replaced)				DUPLICATE: <u>N</u>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CON TAIN ERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
25Q2P -8	1	PE	250mL	HNO3	-	*	Metals		ESP		~500		
↓	1	PE	250mL	H2SO4	-	*	Ammonia		ESP		~500		
	1	PE	250mL	--	-	-	TDS		ESP		~500		
	1	PE	125mL	--	-	-	Sulfate, Nitrate, Chloride		ESP		~500		
REMARKS: Historic purge method: 2b#3 Orange to start; purge until clear PURGE 2 VOLUMES *= verified sample pH as <2 or >12 (as applicable) at MW-9 Pump Setting: 7.0 Total Tubing Length: 30 feet													
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)													

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)

62-160.800 F.A.C.

Revision Date: January 2017

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Pembroke South		SITE LOCATION: Fort Meade, Florida	
WELL NO: MW-8A	SAMPLE ID: 25Q2P -8A	DATE: 12/3/25	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH bottom 15 ft.	STATIC DEPTH TO WATER (feet): 11.45	PURGE PUMP TYPE: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY $= (23.27 \text{ feet} - 11.45 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.89 \text{ gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0924	TOTAL VOLUME PURGED (gallons): 4.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (SU)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	ODOR (describe)
0920	3.96	3.96	0.22	11.72	5.59	25.81	799	1.23	2.81	-67.5	clear	none
0922	0.44	4.40	↓	11.72	5.60	25.80	800	1.20	2.53	-67.8	↓	↓
0924	0.44	4.84	↓	11.72	5.60	25.81	801	1.18	2.80	-67.5	↓	↓

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: Walker Wrenn, Locklear & Associates, Inc.		SAMPLER SIGNATURE: <i>Walker Wrenn</i>		SAMPLING INITIATED AT: 0925	SAMPLING ENDED AT: 0926
PUMP OR TUBING DEPTH IN WELL (feet): 16		TUBING MATERIAL CODE: PE		FIELD-FILTERED: N	
FIELD DECONTAMINATION: PUMP <u>Y</u>		TUBING <u>N</u> (replaced)		DUPLICATE: <u>N</u>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CON TAIN ERS	MATERIAL CODE	VOLUM E	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
25Q2P -8A	1	PE	250mL	HNO3	-	*	Metals	ESP	~500
↓	1	PE	250mL	H2SO4	-	*	Ammonia	ESP	~500
↓	1	PE	250mL	--	-	-	TDS	ESP	~500
↓	1	PE	125mL	--	-	-	Sulfate, Nitrate, Chloride	ESP	~500

REMARKS:
Historic purge method: 2b#3
PURGE 2 VOLUMES

*= verified sample pH as <2 or >12 (as applicable) at MW-9
Pump Setting: 7.6
Total Tubing Length: 30 feet

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)

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)

62-160.800 F.A.C.

Revision Date: January 2017

Florida Department of Environmental Protection

SURFACE WATER SAMPLING LOG

SITE NAME: Pembroke South	SITE LOCATION: Fort Meade
STATION: SW-8A	SAMPLE ID: 25Q2 SW8A
DATE: 12/3/25	

FIELD MEASUREMENT DATA

OBSERVATIONS:											
SAMPLE METHOD: Bottle & Pole				SAMPLE INITIATED AT: 0944				SAMPLE ENDED AT: 0945			
Time	Water Depth (ft)	Secchi Depth (ft)	Sample Depth (ft)	pH	Temp. (°C)	Cond. (µmhos)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color	Odor	ORP (mVolts)
0943	2.0	72.0	1.0	6.83	16.21	581	1.80	13.6	622	none	-92.2

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Walker Wrenn, Locklear & Associates, Inc.				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			
FIELD DECONTAMINATION: Y				FIELD-FILTERED: N		DUPLICATE: N	
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
1	PE	250mL	HNO3	---	X	Metals	
1	PE	250mL	H2SO4	---	X	Ammonia	
1	PE	250mL	--	---	-	TDS	
1	PE	125mL	--	---	-	Sulfate, Nitrate, Chloride	

REMARKS:

Staff gauge = 1.70'

pH verified @ MW-9

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

Attachment 5

Laboratory Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Walker Wrenn
Locklear & Associates, PLLC
210 SW 4th Avenue
Gainesville, Florida 32601

Generated 1/6/2026 9:47:00 AM

JOB DESCRIPTION

Pembroke South C&DD - Quarterly
Pembroke Quarterly - MWS 8, 8A, 9

JOB NUMBER

670-75987-1

Eurofins Orlando

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater Southeast, LLC Project Manager.

Authorization



Generated
1/6/2026 9:47:00 AM

Authorized for release by
Kaitlin Dylnicki, Project Manager
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(407)339-5984

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Definitions/Glossary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit 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.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Locklear & Associates, PLLC
Project: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Job ID: 670-75987-1

Eurofins Orlando

Job Narrative 670-75987-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 12/4/2025 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 670-193519 and analytical batch 670-193869 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method UnionizedNH3: Ideal values used to complete calculation.

SW-8A (670-75987-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Case Narrative

Client: Locklear & Associates, PLLC
Project: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Job ID: 670-75987-2

Eurofins Orlando

Job Narrative 670-75987-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 12/4/2025 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Orlando

Detection Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: MW-9

Lab Sample ID: 670-75987-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.9		0.40	0.20	mg/L	1		300.0	Total/NA
Sulfate	0.61	I	1.0	0.50	mg/L	1		300.0	Total/NA
Iron	25000		200	110	ug/L	1		6010D	Total Recoverable
Sodium	7.9		0.50	0.13	mg/L	1		6010D	Total Recoverable
Aluminum	53		15	3.4	ug/L	1		6020B	Total Recoverable
Arsenic	3.1	I	4.0	0.39	ug/L	1		6020B	Total Recoverable
Barium	1.6	I	4.0	0.37	ug/L	1		6020B	Total Recoverable
Chromium	0.55	I V	2.0	0.39	ug/L	1		6020B	Total Recoverable
Cobalt	0.26	I	2.0	0.10	ug/L	1		6020B	Total Recoverable
Ammonia	0.40		0.020	0.014	mg/L	1		350.1	Total/NA
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.71				SU	1		Field Sampling	Total/NA
Field Temperature	20.71				Celsius	1		Field Sampling	Total/NA
Specific Conductance	212				uS/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.99				mg/L	1		Field Sampling	Total/NA
Turbidity	4.06				NTU	1		Field Sampling	Total/NA
Depth to Water (ft from MP)	11.47				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 670-75987-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	300		4.0	2.0	mg/L	10		300.0	Total/NA
Iron	17000		200	110	ug/L	1		6010D	Total Recoverable
Sodium	310		0.50	0.13	mg/L	1		6010D	Total Recoverable
Aluminum	28	V	15	3.4	ug/L	1		6020B	Total Recoverable
Arsenic	18		4.0	0.39	ug/L	1		6020B	Total Recoverable
Barium	2.0	I	4.0	0.37	ug/L	1		6020B	Total Recoverable
Nickel	13		4.0	0.92	ug/L	1		6020B	Total Recoverable
Vanadium	1.3	I	2.0	0.49	ug/L	1		6020B	Total Recoverable
Chromium	9.0	V	2.0	0.39	ug/L	1		6020B	Total Recoverable
Cobalt	0.90	I	2.0	0.10	ug/L	1		6020B	Total Recoverable
Ammonia	33		0.40	0.28	mg/L	20		350.1	Total/NA
Total Dissolved Solids	1600		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	6.18				SU	1		Field Sampling	Total/NA
Field Temperature	28.40				Celsius	1		Field Sampling	Total/NA
Specific Conductance	1951				uS/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.16				mg/L	1		Field Sampling	Total/NA
Turbidity	3.59				NTU	1		Field Sampling	Total/NA
Depth to Water (ft from MP)	10.87				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: MW-8A

Lab Sample ID: 670-75987-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	61		0.40	0.20	mg/L	1		300.0	Total/NA
Sulfate	170		5.0	2.5	mg/L	5		300.0	Total/NA
Iron	8400		200	110	ug/L	1		6010D	Total Recoverable
Sodium	78		0.50	0.13	mg/L	1		6010D	Total Recoverable
Aluminum	94		15	3.4	ug/L	1		6020B	Total Recoverable
Arsenic	12		4.0	0.39	ug/L	1		6020B	Total Recoverable
Barium	3.6	I	4.0	0.37	ug/L	1		6020B	Total Recoverable
Nickel	3.2	I	4.0	0.92	ug/L	1		6020B	Total Recoverable
Vanadium	0.66	I	2.0	0.49	ug/L	1		6020B	Total Recoverable
Copper	13		2.0	0.64	ug/L	1		6020B	Total Recoverable
Zinc	15		4.0	1.3	ug/L	1		6020B	Total Recoverable
Chromium	1.2	I V	2.0	0.39	ug/L	1		6020B	Total Recoverable
Cobalt	3.5		2.0	0.10	ug/L	1		6020B	Total Recoverable
Ammonia	2.0		0.020	0.014	mg/L	1		350.1	Total/NA
Total Dissolved Solids	670		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.60				SU	1		Field Sampling	Total/NA
Field Temperature	25.81				Celsius	1		Field Sampling	Total/NA
Specific Conductance	801				uS/cm	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.18				mg/L	1		Field Sampling	Total/NA
Turbidity	2.80				NTU	1		Field Sampling	Total/NA
Depth to Water (ft from MP)	11.72				ft	1		Field Sampling	Total/NA

Client Sample ID: Equipment Blank GW

Lab Sample ID: 670-75987-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.16	I	0.50	0.13	mg/L	1		6010D	Total Recoverable

Client Sample ID: SW-8A

Lab Sample ID: 670-75987-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	42		0.40	0.20	mg/L	1		300.0	Total/NA
Sulfate	5.9		1.0	0.50	mg/L	1		300.0	Total/NA
Iron	130	I	200	110	ug/L	1		6010D	Total Recoverable
Sodium	43		0.50	0.13	mg/L	1		6010D	Total Recoverable
Aluminum	19	V	15	3.4	ug/L	1		6020B	Total Recoverable
Arsenic	0.93	I	4.0	0.39	ug/L	1		6020B	Total Recoverable
Barium	7.3		4.0	0.37	ug/L	1		6020B	Total Recoverable
Chromium	1.6	I V	2.0	0.39	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: SW-8A (Continued)

Lab Sample ID: 670-75987-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Cobalt	0.32	I	2.0	0.10	ug/L	1			6020B	Total Recoverable
Ammonia	0.89		0.020	0.014	mg/L	1			350.1	Total/NA
Nitrogen, Kjeldahl	3.4		0.40	0.22	mg/L	1			351.2	Total/NA
Total Dissolved Solids	400		5.0	5.0	mg/L	1			SM 2540C	Total/NA
Nitrogen, Total	3.4		0.040	0.020	mg/L	1			Total Nitrogen	Total/NA
Unionized Ammonia	0.0061		0.00010	0.00010	mg/L	1			UnionizedNH3	Total/NA
Ammonium ion	1.1		0.010	0.010	mg/L	1			UnionizedNH3	Total/NA
Field pH	6.83				SU	1			Field Sampling	Total/NA
Field Temperature	16.21				Celsius	1			Field Sampling	Total/NA
Specific Conductance	581				umhos/cm	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.80				mg/L	1			Field Sampling	Total/NA
Turbidity	13.6				NTU	1			Field Sampling	Total/NA
Depth to Water (ft from MP)	1.0				ft	1			Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: MW-9

Date Collected: 12/03/25 07:44

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-1

Matrix: Ground Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		0.40	0.20	mg/L			12/04/25 18:18	1
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 18:18	1
Sulfate	0.61	I	1.0	0.50	mg/L			12/04/25 18:18	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25000		200	110	ug/L		12/05/25 09:46	12/05/25 15:29	1
Sodium	7.9		0.50	0.13	mg/L		12/05/25 09:46	12/05/25 15:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	53		15	3.4	ug/L		12/05/25 09:44	12/06/25 00:44	1
Arsenic	3.1	I	4.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:44	1
Lead	0.24	U	2.0	0.24	ug/L		12/05/25 09:44	12/06/25 00:44	1
Barium	1.6	I	4.0	0.37	ug/L		12/05/25 09:44	12/06/25 00:44	1
Nickel	0.92	U	4.0	0.92	ug/L		12/05/25 09:44	12/06/25 00:44	1
Vanadium	0.49	U	2.0	0.49	ug/L		12/05/25 09:44	12/06/25 00:44	1
Copper	0.64	U	2.0	0.64	ug/L		12/05/25 09:44	12/06/25 00:44	1
Zinc	1.3	U	4.0	1.3	ug/L		12/05/25 09:44	12/06/25 00:44	1
Chromium	0.55	I V	2.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:44	1
Cobalt	0.26	I	2.0	0.10	ug/L		12/05/25 09:44	12/06/25 00:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.40		0.020	0.014	mg/L			12/11/25 12:50	1
Total Dissolved Solids (SM 2540C)	130		5.0	5.0	mg/L			12/10/25 10:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.71				SU			12/03/25 07:44	1
Field Temperature	20.71				Celsius			12/03/25 07:44	1
Specific Conductance	212				uS/cm			12/03/25 07:44	1
Oxygen, Dissolved	2.99				mg/L			12/03/25 07:44	1
Turbidity	4.06				NTU			12/03/25 07:44	1
Depth to Water (ft from MP)	11.47				ft			12/03/25 07:44	1

Client Sample ID: MW-8

Date Collected: 12/03/25 08:08

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-2

Matrix: Ground Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		4.0	2.0	mg/L			12/05/25 13:17	10
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 18:28	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/04/25 18:28	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	17000		200	110	ug/L		12/05/25 09:46	12/05/25 15:31	1
Sodium	310		0.50	0.13	mg/L		12/05/25 09:46	12/05/25 15:31	1

Eurofins Orlando

Client Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: MW-8

Date Collected: 12/03/25 08:08

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-2

Matrix: Ground Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	28	V	15	3.4	ug/L		12/05/25 09:44	12/06/25 00:47	1
Arsenic	18		4.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:47	1
Lead	0.24	U	2.0	0.24	ug/L		12/05/25 09:44	12/06/25 00:47	1
Barium	2.0	I	4.0	0.37	ug/L		12/05/25 09:44	12/06/25 00:47	1
Nickel	13		4.0	0.92	ug/L		12/05/25 09:44	12/06/25 00:47	1
Vanadium	1.3	I	2.0	0.49	ug/L		12/05/25 09:44	12/06/25 00:47	1
Copper	0.64	U	2.0	0.64	ug/L		12/05/25 09:44	12/06/25 00:47	1
Zinc	1.3	U	4.0	1.3	ug/L		12/05/25 09:44	12/06/25 00:47	1
Chromium	9.0	V	2.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:47	1
Cobalt	0.90	I	2.0	0.10	ug/L		12/05/25 09:44	12/06/25 00:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	33		0.40	0.28	mg/L			12/11/25 14:15	20
Total Dissolved Solids (SM 2540C)	1600		10	10	mg/L			12/10/25 10:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.18				SU			12/03/25 08:08	1
Field Temperature	28.40				Celsius			12/03/25 08:08	1
Specific Conductance	1951				uS/cm			12/03/25 08:08	1
Oxygen, Dissolved	1.16				mg/L			12/03/25 08:08	1
Turbidity	3.59				NTU			12/03/25 08:08	1
Depth to Water (ft from MP)	10.87				ft			12/03/25 08:08	1

Client Sample ID: MW-8A

Date Collected: 12/03/25 09:25

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-3

Matrix: Ground Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61		0.40	0.20	mg/L			12/04/25 18:38	1
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 18:38	1
Sulfate	170		5.0	2.5	mg/L			12/05/25 13:08	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8400		200	110	ug/L		12/05/25 09:46	12/05/25 15:40	1
Sodium	78		0.50	0.13	mg/L		12/05/25 09:46	12/05/25 15:40	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	94		15	3.4	ug/L		12/05/25 09:44	12/06/25 00:53	1
Arsenic	12		4.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:53	1
Lead	0.24	U	2.0	0.24	ug/L		12/05/25 09:44	12/06/25 00:53	1
Barium	3.6	I	4.0	0.37	ug/L		12/05/25 09:44	12/06/25 00:53	1
Nickel	3.2	I	4.0	0.92	ug/L		12/05/25 09:44	12/06/25 00:53	1
Vanadium	0.66	I	2.0	0.49	ug/L		12/05/25 09:44	12/06/25 00:53	1
Copper	13		2.0	0.64	ug/L		12/05/25 09:44	12/06/25 00:53	1
Zinc	15		4.0	1.3	ug/L		12/05/25 09:44	12/06/25 00:53	1
Chromium	1.2	IV	2.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:53	1

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Client Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: MW-8A

Date Collected: 12/03/25 09:25

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-3

Matrix: Ground Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	3.5		2.0	0.10	ug/L		12/05/25 09:44	12/06/25 00:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	2.0		0.020	0.014	mg/L			12/11/25 11:14	1
Total Dissolved Solids (SM 2540C)	670		5.0	5.0	mg/L			12/10/25 10:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.60				SU			12/03/25 09:25	1
Field Temperature	25.81				Celsius			12/03/25 09:25	1
Specific Conductance	801				uS/cm			12/03/25 09:25	1
Oxygen, Dissolved	1.18				mg/L			12/03/25 09:25	1
Turbidity	2.80				NTU			12/03/25 09:25	1
Depth to Water (ft from MP)	11.72				ft			12/03/25 09:25	1

Client Sample ID: Equipment Blank GW

Date Collected: 12/03/25 07:55

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-4

Matrix: Ground Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			12/04/25 18:48	1
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 18:48	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/04/25 18:48	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110	U	200	110	ug/L		12/05/25 09:46	12/05/25 15:42	1
Sodium	0.16	I	0.50	0.13	mg/L		12/05/25 09:46	12/05/25 15:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.4	U	15	3.4	ug/L		12/05/25 09:44	12/06/25 00:56	1
Arsenic	0.39	U	4.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:56	1
Lead	0.24	U	2.0	0.24	ug/L		12/05/25 09:44	12/06/25 00:56	1
Barium	0.37	U	4.0	0.37	ug/L		12/05/25 09:44	12/06/25 00:56	1
Nickel	0.92	U	4.0	0.92	ug/L		12/05/25 09:44	12/06/25 00:56	1
Vanadium	0.49	U	2.0	0.49	ug/L		12/05/25 09:44	12/06/25 00:56	1
Copper	0.64	U	2.0	0.64	ug/L		12/05/25 09:44	12/06/25 00:56	1
Zinc	1.3	U	4.0	1.3	ug/L		12/05/25 09:44	12/06/25 00:56	1
Chromium	0.39	U	2.0	0.39	ug/L		12/05/25 09:44	12/06/25 00:56	1
Cobalt	0.10	U	2.0	0.10	ug/L		12/05/25 09:44	12/06/25 00:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.014	U	0.020	0.014	mg/L			12/11/25 11:19	1
Total Dissolved Solids (SM 2540C)	5.0	U	5.0	5.0	mg/L			12/10/25 09:59	1

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Client Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: SW-8A

Lab Sample ID: 670-75987-5

Date Collected: 12/03/25 09:44

Matrix: Ground Water

Date Received: 12/04/25 14:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		0.40	0.20	mg/L			12/04/25 18:59	1
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 18:59	1
Nitrite as N	0.10	U	0.20	0.10	mg/L			12/04/25 18:59	1
Sulfate	5.9		1.0	0.50	mg/L			12/04/25 18:59	1
Nitrate Nitrite as N	0.20	U	0.40	0.20	mg/L			12/04/25 18:59	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	130	I	200	110	ug/L		12/05/25 09:46	12/05/25 15:44	1
Sodium	43		0.50	0.13	mg/L		12/05/25 09:46	12/05/25 15:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	19	V	15	3.4	ug/L		12/05/25 09:44	12/06/25 01:03	1
Arsenic	0.93	I	4.0	0.39	ug/L		12/05/25 09:44	12/06/25 01:03	1
Lead	0.24	U	2.0	0.24	ug/L		12/05/25 09:44	12/06/25 01:03	1
Barium	7.3		4.0	0.37	ug/L		12/05/25 09:44	12/06/25 01:03	1
Nickel	0.92	U	4.0	0.92	ug/L		12/05/25 09:44	12/06/25 01:03	1
Vanadium	0.49	U	2.0	0.49	ug/L		12/05/25 09:44	12/06/25 01:03	1
Copper	0.64	U	2.0	0.64	ug/L		12/05/25 09:44	12/06/25 01:03	1
Zinc	1.3	U	4.0	1.3	ug/L		12/05/25 09:44	12/06/25 01:03	1
Chromium	1.6	I V	2.0	0.39	ug/L		12/05/25 09:44	12/06/25 01:03	1
Cobalt	0.32	I	2.0	0.10	ug/L		12/05/25 09:44	12/06/25 01:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.89		0.020	0.014	mg/L			12/11/25 12:42	1
Nitrogen, Kjeldahl (EPA 351.2)	3.4		0.40	0.22	mg/L		12/15/25 15:07	12/16/25 15:44	1
Total Dissolved Solids (SM 2540C)	400		5.0	5.0	mg/L			12/10/25 10:02	1
Nitrogen, Total (EPA Total Nitrogen)	3.4		0.040	0.020	mg/L			12/16/25 15:44	1
Unionized Ammonia (FL-DEP UnionizedNH3)	0.0061		0.00010	0.00010	mg/L			12/05/25 17:44	1
Ammonium ion (FL-DEP UnionizedNH3)	1.1		0.010	0.010	mg/L			12/05/25 17:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.83				SU			12/03/25 09:44	1
Field Temperature	16.21				Celsius			12/03/25 09:44	1
Specific Conductance	581				umhos/cm			12/03/25 09:44	1
Oxygen, Dissolved	1.80				mg/L			12/03/25 09:44	1
Turbidity	13.6				NTU			12/03/25 09:44	1
Depth to Water (ft from MP)	1.0				ft			12/03/25 09:44	1

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QC Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-191356/36

Matrix: Water

Analysis Batch: 191356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 14:41	1
Nitrite as N	0.10	U	0.20	0.10	mg/L			12/04/25 14:41	1
Nitrate Nitrite as N	0.20	U	0.40	0.20	mg/L			12/04/25 14:41	1

Lab Sample ID: MB 670-191356/5

Matrix: Water

Analysis Batch: 191356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/04/25 09:23	1
Nitrite as N	0.10	U	0.20	0.10	mg/L			12/04/25 09:23	1
Nitrate Nitrite as N	0.20	U	0.40	0.20	mg/L			12/04/25 09:23	1

Lab Sample ID: LCS 670-191356/35

Matrix: Water

Analysis Batch: 191356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.00	1.90		mg/L		95	90 - 110
Nitrite as N	2.00	1.98		mg/L		99	90 - 110
Nitrate Nitrite as N	4.00	3.88		mg/L		97	90 - 110

Lab Sample ID: MB 670-191358/36

Matrix: Water

Analysis Batch: 191358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			12/04/25 14:41	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/04/25 14:41	1

Lab Sample ID: MB 670-191358/5

Matrix: Water

Analysis Batch: 191358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			12/04/25 09:23	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/04/25 09:23	1

Lab Sample ID: LCS 670-191358/35

Matrix: Water

Analysis Batch: 191358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.00	3.83		mg/L		96	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

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QC Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 670-191633/5

Matrix: Water

Analysis Batch: 191633

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.20	0.10	mg/L			12/05/25 09:16	1

Lab Sample ID: LCS 670-191633/4

Matrix: Water

Analysis Batch: 191633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.00	1.91		mg/L		96	90 - 110

Lab Sample ID: MB 670-191634/5

Matrix: Water

Analysis Batch: 191634

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			12/05/25 09:16	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/05/25 09:16	1

Lab Sample ID: LCS 670-191634/4

Matrix: Water

Analysis Batch: 191634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.00	3.98		mg/L		99	90 - 110
Sulfate	10.0	9.82		mg/L		98	90 - 110

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 670-191688/3-A

Matrix: Water

Analysis Batch: 191868

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 191688

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	96	U	180	96	ug/L		12/05/25 09:46	12/05/25 15:06	1
Sodium	0.156	I	0.45	0.12	mg/L		12/05/25 09:46	12/05/25 15:06	1

Lab Sample ID: LCS 670-191688/1-A

Matrix: Water

Analysis Batch: 191868

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 191688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10100	10100		ug/L		100	80 - 120
Sodium	10.1	10.3		mg/L		102	80 - 120

Lab Sample ID: LCSD 670-191688/2-A

Matrix: Water

Analysis Batch: 191868

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 191688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10100	10200		ug/L		101	80 - 120	1	20
Sodium	10.1	10.3		mg/L		102	80 - 120	0	20

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QC Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 670-191684/3-A

Matrix: Water

Analysis Batch: 191968

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 191684

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.65	I	14	3.1	ug/L		12/05/25 09:44	12/05/25 17:42	1
Arsenic	0.35	U	3.6	0.35	ug/L		12/05/25 09:44	12/05/25 17:42	1
Lead	0.22	U	1.8	0.22	ug/L		12/05/25 09:44	12/05/25 17:42	1
Barium	0.33	U	3.6	0.33	ug/L		12/05/25 09:44	12/05/25 17:42	1
Nickel	0.82	U	3.6	0.82	ug/L		12/05/25 09:44	12/05/25 17:42	1
Vanadium	0.44	U	1.8	0.44	ug/L		12/05/25 09:44	12/05/25 17:42	1
Copper	0.58	U	1.8	0.58	ug/L		12/05/25 09:44	12/05/25 17:42	1
Zinc	1.2	U	3.6	1.2	ug/L		12/05/25 09:44	12/05/25 17:42	1
Chromium	1.12	I	1.8	0.35	ug/L		12/05/25 09:44	12/05/25 17:42	1
Cobalt	0.092	U	1.8	0.092	ug/L		12/05/25 09:44	12/05/25 17:42	1

Lab Sample ID: LCS 670-191684/1-A

Matrix: Water

Analysis Batch: 191968

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 191684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5000	4850		ug/L		97	80 - 120
Arsenic	100	94.4		ug/L		94	80 - 120
Lead	100	95.9		ug/L		96	80 - 120
Barium	100	99.9		ug/L		100	80 - 120
Nickel	100	96.8		ug/L		97	80 - 120
Vanadium	100	93.3		ug/L		93	80 - 120
Copper	100	96.1		ug/L		96	80 - 120
Zinc	100	94.7		ug/L		95	80 - 120
Chromium	100	93.1		ug/L		93	80 - 120
Cobalt	100	95.3		ug/L		95	80 - 120

Lab Sample ID: LCSD 670-191684/2-A

Matrix: Water

Analysis Batch: 191968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 191684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5000	4720		ug/L		94	80 - 120	3	20
Arsenic	100	94.8		ug/L		95	80 - 120	0	20
Lead	100	96.7		ug/L		97	80 - 120	1	20
Barium	100	100		ug/L		100	80 - 120	0	20
Nickel	100	94.1		ug/L		94	80 - 120	3	20
Vanadium	100	93.7		ug/L		94	80 - 120	0	20
Copper	100	95.1		ug/L		95	80 - 120	1	20
Zinc	100	93.0		ug/L		93	80 - 120	2	20
Chromium	100	92.8		ug/L		93	80 - 120	0	20
Cobalt	100	93.3		ug/L		93	80 - 120	2	20

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QC Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 670-192929/16

Matrix: Water

Analysis Batch: 192929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.014	U	0.020	0.014	mg/L			12/11/25 10:10	1

Lab Sample ID: MB 670-192929/50

Matrix: Water

Analysis Batch: 192929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.014	U	0.020	0.014	mg/L			12/11/25 11:41	1

Lab Sample ID: MB 670-192929/84

Matrix: Water

Analysis Batch: 192929

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.014	U	0.020	0.014	mg/L			12/11/25 13:11	1

Lab Sample ID: LCS 670-192929/15

Matrix: Water

Analysis Batch: 192929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.50	1.46		mg/L		97	90 - 110

Lab Sample ID: LCS 670-192929/49

Matrix: Water

Analysis Batch: 192929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.50	1.51		mg/L		101	90 - 110

Lab Sample ID: LCS 670-192929/83

Matrix: Water

Analysis Batch: 192929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.50	1.50		mg/L		100	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 670-193519/3-A

Matrix: Water

Analysis Batch: 193869

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 193519

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.22	U	0.40	0.22	mg/L		12/15/25 15:07	12/16/25 15:39	1

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QC Sample Results

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 670-193519/1-A
Matrix: Water
Analysis Batch: 193869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	2.00	1.93		mg/L		97	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 670-192514/1
Matrix: Water
Analysis Batch: 192514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/10/25 09:59	1

Lab Sample ID: LCS 670-192514/2
Matrix: Water
Analysis Batch: 192514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	750	750		mg/L		100	90 - 110

Lab Sample ID: MB 670-192515/1
Matrix: Water
Analysis Batch: 192515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/10/25 10:02	1

Lab Sample ID: LCS 670-192515/2
Matrix: Water
Analysis Batch: 192515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	750	772		mg/L		103	90 - 110

Lab Sample ID: MB 670-192517/1
Matrix: Water
Analysis Batch: 192517

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/10/25 10:06	1

Lab Sample ID: LCS 670-192517/2
Matrix: Water
Analysis Batch: 192517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	750	766		mg/L		102	90 - 110

QC Association Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

HPLC/IC

Analysis Batch: 191356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total/NA	Ground Water	300.0	
670-75987-2	MW-8	Total/NA	Ground Water	300.0	
670-75987-3	MW-8A	Total/NA	Ground Water	300.0	
670-75987-4	Equipment Blank GW	Total/NA	Ground Water	300.0	
670-75987-5	SW-8A	Total/NA	Ground Water	300.0	
MB 670-191356/36	Method Blank	Total/NA	Water	300.0	
MB 670-191356/5	Method Blank	Total/NA	Water	300.0	
LCS 670-191356/35	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 191358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total/NA	Ground Water	300.0	
670-75987-2	MW-8	Total/NA	Ground Water	300.0	
670-75987-3	MW-8A	Total/NA	Ground Water	300.0	
670-75987-4	Equipment Blank GW	Total/NA	Ground Water	300.0	
670-75987-5	SW-8A	Total/NA	Ground Water	300.0	
MB 670-191358/36	Method Blank	Total/NA	Water	300.0	
MB 670-191358/5	Method Blank	Total/NA	Water	300.0	
LCS 670-191358/35	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 191633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-191633/5	Method Blank	Total/NA	Water	300.0	
LCS 670-191633/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 191634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-2	MW-8	Total/NA	Ground Water	300.0	
670-75987-3	MW-8A	Total/NA	Ground Water	300.0	
MB 670-191634/5	Method Blank	Total/NA	Water	300.0	
LCS 670-191634/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 191684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total Recoverable	Ground Water	3005A	
670-75987-2	MW-8	Total Recoverable	Ground Water	3005A	
670-75987-3	MW-8A	Total Recoverable	Ground Water	3005A	
670-75987-4	Equipment Blank GW	Total Recoverable	Ground Water	3005A	
670-75987-5	SW-8A	Total Recoverable	Ground Water	3005A	
MB 670-191684/3-A	Method Blank	Total Recoverable	Water	3005A	
LCS 670-191684/1-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 670-191684/2-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 191688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total Recoverable	Ground Water	3005A	
670-75987-2	MW-8	Total Recoverable	Ground Water	3005A	
670-75987-3	MW-8A	Total Recoverable	Ground Water	3005A	
670-75987-4	Equipment Blank GW	Total Recoverable	Ground Water	3005A	

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QC Association Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Metals (Continued)

Prep Batch: 191688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-5	SW-8A	Total Recoverable	Ground Water	3005A	
MB 670-191688/3-A	Method Blank	Total Recoverable	Water	3005A	
LCS 670-191688/1-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 670-191688/2-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 191868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total Recoverable	Ground Water	6010D	191688
670-75987-2	MW-8	Total Recoverable	Ground Water	6010D	191688
670-75987-3	MW-8A	Total Recoverable	Ground Water	6010D	191688
670-75987-4	Equipment Blank GW	Total Recoverable	Ground Water	6010D	191688
670-75987-5	SW-8A	Total Recoverable	Ground Water	6010D	191688
MB 670-191688/3-A	Method Blank	Total Recoverable	Water	6010D	191688
LCS 670-191688/1-A	Lab Control Sample	Total Recoverable	Water	6010D	191688
LCSD 670-191688/2-A	Lab Control Sample Dup	Total Recoverable	Water	6010D	191688

Analysis Batch: 191968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total Recoverable	Ground Water	6020B	191684
670-75987-2	MW-8	Total Recoverable	Ground Water	6020B	191684
670-75987-3	MW-8A	Total Recoverable	Ground Water	6020B	191684
670-75987-4	Equipment Blank GW	Total Recoverable	Ground Water	6020B	191684
670-75987-5	SW-8A	Total Recoverable	Ground Water	6020B	191684
MB 670-191684/3-A	Method Blank	Total Recoverable	Water	6020B	191684
LCS 670-191684/1-A	Lab Control Sample	Total Recoverable	Water	6020B	191684
LCSD 670-191684/2-A	Lab Control Sample Dup	Total Recoverable	Water	6020B	191684

General Chemistry

Analysis Batch: 191821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-5	SW-8A	Total/NA	Ground Water	UnionizedNH3	

Analysis Batch: 192514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-4	Equipment Blank GW	Total/NA	Ground Water	SM 2540C	
MB 670-192514/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 670-192514/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 192515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total/NA	Ground Water	SM 2540C	
670-75987-3	MW-8A	Total/NA	Ground Water	SM 2540C	
670-75987-5	SW-8A	Total/NA	Ground Water	SM 2540C	
MB 670-192515/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 670-192515/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 192517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-2	MW-8	Total/NA	Ground Water	SM 2540C	
MB 670-192517/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

General Chemistry (Continued)

Analysis Batch: 192517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 670-192517/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 192929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total/NA	Ground Water	350.1	
670-75987-2	MW-8	Total/NA	Ground Water	350.1	
670-75987-3	MW-8A	Total/NA	Ground Water	350.1	
670-75987-4	Equipment Blank GW	Total/NA	Ground Water	350.1	
670-75987-5	SW-8A	Total/NA	Ground Water	350.1	
MB 670-192929/16	Method Blank	Total/NA	Water	350.1	
MB 670-192929/50	Method Blank	Total/NA	Water	350.1	
MB 670-192929/84	Method Blank	Total/NA	Water	350.1	
LCS 670-192929/15	Lab Control Sample	Total/NA	Water	350.1	
LCS 670-192929/49	Lab Control Sample	Total/NA	Water	350.1	
LCS 670-192929/83	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 193519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-5	SW-8A	Total/NA	Ground Water	351.2	
MB 670-193519/3-A	Method Blank	Total/NA	Water	351.2	
LCS 670-193519/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 193869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-5	SW-8A	Total/NA	Ground Water	351.2	193519
MB 670-193519/3-A	Method Blank	Total/NA	Water	351.2	193519
LCS 670-193519/1-A	Lab Control Sample	Total/NA	Water	351.2	193519

Analysis Batch: 193874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-5	SW-8A	Total/NA	Ground Water	Total Nitrogen	

Field Service / Mobile Lab

Analysis Batch: 196688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-75987-1	MW-9	Total/NA	Ground Water	Field Sampling	
670-75987-2	MW-8	Total/NA	Ground Water	Field Sampling	
670-75987-3	MW-8A	Total/NA	Ground Water	Field Sampling	
670-75987-5	SW-8A	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: MW-9

Date Collected: 12/03/25 07:44

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	191356	YGS	EET ORL	12/04/25 18:18
Total/NA	Analysis	300.0		1	191358	YGS	EET ORL	12/04/25 18:18
Total Recoverable	Prep	3005A			191688	JR	EET ORL	12/05/25 09:46
Total Recoverable	Analysis	6010D		1	191868	EB	EET ORL	12/05/25 15:29
Total Recoverable	Prep	3005A			191684	JR	EET ORL	12/05/25 09:44
Total Recoverable	Analysis	6020B		1	191968	JA	EET ORL	12/06/25 00:44
Total/NA	Analysis	350.1		1	192929	GL	EET ORL	12/11/25 12:50
Total/NA	Analysis	SM 2540C		1	192515	TG	EET ORL	12/10/25 10:02
Total/NA	Analysis	Field Sampling		1	196688	T1Y	EET ORL	12/03/25 07:44

Client Sample ID: MW-8

Date Collected: 12/03/25 08:08

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	191634	YGS	EET ORL	12/05/25 13:17
Total/NA	Analysis	300.0		1	191356	YGS	EET ORL	12/04/25 18:28
Total/NA	Analysis	300.0		1	191358	YGS	EET ORL	12/04/25 18:28
Total Recoverable	Prep	3005A			191688	JR	EET ORL	12/05/25 09:46
Total Recoverable	Analysis	6010D		1	191868	EB	EET ORL	12/05/25 15:31
Total Recoverable	Prep	3005A			191684	JR	EET ORL	12/05/25 09:44
Total Recoverable	Analysis	6020B		1	191968	JA	EET ORL	12/06/25 00:47
Total/NA	Analysis	350.1		20	192929	GL	EET ORL	12/11/25 14:15
Total/NA	Analysis	SM 2540C		1	192517	TG	EET ORL	12/10/25 10:06
Total/NA	Analysis	Field Sampling		1	196688	T1Y	EET ORL	12/03/25 08:08

Client Sample ID: MW-8A

Date Collected: 12/03/25 09:25

Date Received: 12/04/25 14:00

Lab Sample ID: 670-75987-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	191634	YGS	EET ORL	12/05/25 13:08
Total/NA	Analysis	300.0		1	191356	YGS	EET ORL	12/04/25 18:38
Total/NA	Analysis	300.0		1	191358	YGS	EET ORL	12/04/25 18:38
Total Recoverable	Prep	3005A			191688	JR	EET ORL	12/05/25 09:46
Total Recoverable	Analysis	6010D		1	191868	EB	EET ORL	12/05/25 15:40
Total Recoverable	Prep	3005A			191684	JR	EET ORL	12/05/25 09:44
Total Recoverable	Analysis	6020B		1	191968	JA	EET ORL	12/06/25 00:53
Total/NA	Analysis	350.1		1	192929	GL	EET ORL	12/11/25 11:14
Total/NA	Analysis	SM 2540C		1	192515	TG	EET ORL	12/10/25 10:02
Total/NA	Analysis	Field Sampling		1	196688	T1Y	EET ORL	12/03/25 09:25

Eurofins Orlando

Lab Chronicle

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Client Sample ID: Equipment Blank GW

Lab Sample ID: 670-75987-4

Date Collected: 12/03/25 07:55

Matrix: Ground Water

Date Received: 12/04/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	191356	YGS	EET ORL	12/04/25 18:48
Total/NA	Analysis	300.0		1	191358	YGS	EET ORL	12/04/25 18:48
Total Recoverable	Prep	3005A			191688	JR	EET ORL	12/05/25 09:46
Total Recoverable	Analysis	6010D		1	191868	EB	EET ORL	12/05/25 15:42
Total Recoverable	Prep	3005A			191684	JR	EET ORL	12/05/25 09:44
Total Recoverable	Analysis	6020B		1	191968	JA	EET ORL	12/06/25 00:56
Total/NA	Analysis	350.1		1	192929	GL	EET ORL	12/11/25 11:19
Total/NA	Analysis	SM 2540C		1	192514	TG	EET ORL	12/10/25 09:59

Client Sample ID: SW-8A

Lab Sample ID: 670-75987-5

Date Collected: 12/03/25 09:44

Matrix: Ground Water

Date Received: 12/04/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	191356	YGS	EET ORL	12/04/25 18:59
Total/NA	Analysis	300.0		1	191358	YGS	EET ORL	12/04/25 18:59
Total Recoverable	Prep	3005A			191688	JR	EET ORL	12/05/25 09:46
Total Recoverable	Analysis	6010D		1	191868	EB	EET ORL	12/05/25 15:44
Total Recoverable	Prep	3005A			191684	JR	EET ORL	12/05/25 09:44
Total Recoverable	Analysis	6020B		1	191968	JA	EET ORL	12/06/25 01:03
Total/NA	Analysis	350.1		1	192929	GL	EET ORL	12/11/25 12:42
Total/NA	Prep	351.2			193519	DGS	EET ORL	12/15/25 15:07
Total/NA	Analysis	351.2		1	193869	BK	EET ORL	12/16/25 15:44
Total/NA	Analysis	SM 2540C		1	192515	TG	EET ORL	12/10/25 10:02
Total/NA	Analysis	Total Nitrogen		1	193874	BK	EET ORL	12/16/25 15:44
Total/NA	Analysis	UnionizedNH3		1	191821	GL	EET ORL	12/05/25 17:44
Total/NA	Analysis	Field Sampling		1	196688	T1Y	EET ORL	12/03/25 09:44

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

Accreditation/Certification Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Laboratory: Eurofins Orlando

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Field Sampling		Ground Water	Depth to Water (ft from MP)
Field Sampling		Ground Water	Field pH
Field Sampling		Ground Water	Field Temperature
Field Sampling		Ground Water	Oxygen, Dissolved
Field Sampling		Ground Water	Specific Conductance
Field Sampling		Ground Water	Turbidity
UnionizedNH3		Ground Water	Ammonium ion

Method Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET ORL
6010D	Metals (ICP)	SW846	EET ORL
6020B	Metals (ICP/MS)	SW846	EET ORL
350.1	Nitrogen, Ammonia	EPA	EET ORL
351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET ORL
Total Nitrogen	Nitrogen, Total	EPA	EET ORL
UnionizedNH3	Ammonia, Unionized	FL-DEP	EET ORL
Field Sampling	Field Sampling	EPA	EET ORL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ORL
351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

Sample Summary

Client: Locklear & Associates, PLLC
Project/Site: Pembroke South C&DD - Quarterly

Job ID: 670-75987-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
670-75987-1	MW-9	Ground Water	12/03/25 07:44	12/04/25 14:00	Florida
670-75987-2	MW-8	Ground Water	12/03/25 08:08	12/04/25 14:00	Florida
670-75987-3	MW-8A	Ground Water	12/03/25 09:25	12/04/25 14:00	Florida
670-75987-4	Equipment Blank GW	Ground Water	12/03/25 07:55	12/04/25 14:00	Florida
670-75987-5	SW-8A	Ground Water	12/03/25 09:44	12/04/25 14:00	Florida

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <u>Pembroke South</u>		SITE LOCATION: <u>Fort Meade, Florida</u>	
WELL NO: <u>MW-9</u>		SAMPLE ID: <u>25Q2P -9</u>	
		DATE: <u>12/3/25</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>		TUBING DIAMETER (inches): <u>1/4</u>		WELL SCREEN INTERVAL DEPTH bottom <u>15</u> ft.		STATIC DEPTH TO WATER (feet): <u>11.07</u>		PURGE PUMP TYPE: <u>ESP</u>				
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>22.70</u> feet - <u>11.07</u> feet) X <u>0.16</u> gallons/foot = <u>1.86</u> gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>17</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>17</u>		PURGING INITIATED AT: <u>0721</u>		PURGING ENDED AT: <u>0743</u>		TOTAL VOLUME PURGED (gallons): <u>4.4</u>				
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (SU)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	ODOR (describe)
<u>0739</u>	<u>3.6</u>	<u>3.6</u>	<u>0.2</u>	<u>11.47</u>	<u>5.71</u>	<u>20.42</u>	<u>212</u>	<u>3.00</u>	<u>4.11</u>	<u>-99.2</u>	<u>clear</u>	<u>none</u>
<u>0741</u>	<u>0.4</u>	<u>4.0</u>	<u>↓</u>	<u>11.47</u>	<u>5.71</u>	<u>20.74</u>	<u>212</u>	<u>2.99</u>	<u>4.17</u>	<u>-98.9</u>	<u>↓</u>	<u>↓</u>
<u>0743</u>	<u>0.4</u>	<u>4.4</u>	<u>↓</u>	<u>11.47</u>	<u>5.71</u>	<u>20.71</u>	<u>212</u>	<u>2.99</u>	<u>4.06</u>	<u>-98.9</u>	<u>↓</u>	<u>↓</u>
WELL CAPACITY (Gallons Per Foot): <u>0.75"</u> = 0.02; <u>1"</u> = 0.04; <u>1.25"</u> = 0.06; <u>2"</u> = 0.16; <u>3"</u> = 0.37; <u>4"</u> = 0.65; <u>5"</u> = 1.02; <u>6"</u> = 1.47; <u>12"</u> = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): <u>1/8"</u> = 0.0006; <u>3/16"</u> = 0.0014; <u>1/4"</u> = 0.0026; <u>5/16"</u> = 0.004; <u>3/8"</u> = 0.006; <u>1/2"</u> = 0.010; <u>5/8"</u> = 0.016												
PURGING EQUIPMENT CODES: <u>B</u> = Bailer; <u>BP</u> = Bladder Pump; <u>ESP</u> = Electric Submersible Pump; <u>PP</u> = Peristaltic Pump; <u>O</u> = Other (Specify)												

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Walker Wrenn, Locklear & Associates, Inc.</u>				SAMPLER SIGNATURE: <u>[Signature]</u>				SAMPLING INITIATED AT: <u>0744</u>		SAMPLING ENDED AT: <u>0745</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>17</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: <u>N</u>			
FIELD DECONTAMINATION: <u>PUMP</u> <u>Y</u>				TUBING <u>N</u> (replaced)				DUPLICATE: <u>N</u>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CON TAIN ERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>25Q2P -9</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>HNO3</u>	<u>-</u>	<u>12.0</u>	<u>Metals</u>		<u>ESP</u>		
<u>↓</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>H2SO4</u>	<u>-</u>	<u>12.0</u>	<u>Ammonia</u>		<u>ESP</u>		
<u>↓</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>--</u>	<u>-</u>	<u>-</u>	<u>TDS</u>		<u>ESP</u>		
<u>↓</u>	<u>1</u>	<u>PE</u>	<u>125mL</u>	<u>--</u>	<u>-</u>	<u>-</u>	<u>Sulfate, Nitrate, Chloride</u>		<u>ESP</u>		
REMARKS: Historic purge method: 2b#3 Cloudy, orange to start – tiny orange particles in flow cell purge until clear PURGE 2 VOLUMES *= verified sample pH as <2 or >12 (as applicable) at MW-9 Pump Setting: <u>7.4</u> Total Tubing Length: <u>30</u> feet											
MATERIAL CODES: <u>AG</u> = Amber Glass; <u>CG</u> = Clear Glass; <u>HDPE</u> = High Density Polyethylene; <u>LDPE</u> = Low Density Polyethylene; <u>PP</u> = Polypropylene; <u>S</u> = Silicone; <u>T</u> = Teflon; <u>O</u> = Other (Specify)											
SAMPLING EQUIPMENT CODES: <u>APP</u> = After (Through) Peristaltic Pump; <u>B</u> = Bailer; <u>BP</u> = Bladder Pump; <u>ESP</u> = Electric Submersible Pump; <u>RFPP</u> = Reverse Flow Peristaltic Pump; <u>SM</u> = Straw Method (Tubing Gravity Drain); <u>O</u> = 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)

62-160.800 F.A.C.

Revision Date: January 2017

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Revision Date: January 2017

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <u>Pembroke South</u>		SITE LOCATION: <u>Fort Meade, Florida</u>	
WELL NO: <u>MW-8</u>	SAMPLE ID: <u>25Q2P -8</u>	DATE: <u>12/3/25</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH bottom <u>15</u> ft.	STATIC DEPTH TO WATER (feet): <u>10.61</u>	PURGE PUMP TYPE: <u>ESP</u>								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>22.60</u> feet - <u>10.61</u> feet) X 0.16 gallons/foot = <u>2.01</u> gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>16</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>16</u>	PURGING INITIATED AT: <u>0803</u>	PURGING ENDED AT: <u>0827</u>	TOTAL VOLUME PURGED (gallons): <u>5.04</u>								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (SU)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	ODOR (describe)
<u>0823</u>	<u>4.2</u>	<u>4.2</u>	<u>0.21</u>	<u>10.87</u>	<u>6.18</u>	<u>28.34</u>	<u>1948</u>	<u>1.17</u>	<u>3.72</u>	<u>-1824</u>	<u>clear</u>	<u>none</u>
<u>0825</u>	<u>0.42</u>	<u>4.62</u>	<u>↓</u>	<u>10.87</u>	<u>6.18</u>	<u>28.41</u>	<u>1950</u>	<u>1.14</u>	<u>3.70</u>	<u>-1895</u>	<u>↓</u>	<u>↓</u>
<u>0827</u>	<u>0.42</u>	<u>5.04</u>	<u>↓</u>	<u>10.87</u>	<u>6.18</u>	<u>28.40</u>	<u>1951</u>	<u>1.16</u>	<u>3.59</u>	<u>-190.3</u>	<u>↓</u>	<u>↓</u>
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: <u>Walker Wrenn, Locklear & Associates, Inc.</u>		SAMPLER SIGNATURE: <u>[Signature]</u>		SAMPLING INITIATED AT: <u>0828</u>	SAMPLING ENDED AT: <u>0829</u>				
PUMP OR TUBING DEPTH IN WELL (feet): <u>16</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: <u>N</u>							
FIELD DECONTAMINATION: PUMP <u>Y</u>	TUBING <u>N</u> (replaced)	DUPLICATE: <u>N</u>							
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION						
SAMPLE ID CODE	# CON TAIN ERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
<u>25Q2P -8</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>HNO3</u>	<u>-</u>	<u>*</u>	<u>Metals</u>	<u>ESP</u>	<u>~500</u>
<u>↓</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>H2SO4</u>	<u>-</u>	<u>*</u>	<u>Ammonia</u>	<u>ESP</u>	<u>~500</u>
<u>↓</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>--</u>	<u>-</u>	<u>-</u>	<u>TDS</u>	<u>ESP</u>	<u>~500</u>
<u>↓</u>	<u>1</u>	<u>PE</u>	<u>125mL</u>	<u>--</u>	<u>-</u>	<u>-</u>	<u>Sulfate, Nitrate, Chloride</u>	<u>ESP</u>	<u>~500</u>
REMARKS: Historic purge method: 2b#3 Orange to start; purge until clear PURGE 2 VOLUMES *= verified sample pH as <2 or >12 (as applicable) at MW-9 Pump Setting: <u>7.0</u> Total Tubing Length: <u>30</u> feet									
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)									

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)

62-160.800 F.A.C.

Revision Date: January 2017

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Pembroke South		SITE LOCATION: Fort Meade, Florida	
WELL NO: MW-8A	SAMPLE ID: 25Q2P -8A	DATE: 12/3/25	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH bottom 15 ft.	STATIC DEPTH TO WATER (feet): 11.45	PURGE PUMP TYPE: ESP								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY												
= (23.27 feet - 11.45 feet) X 0.16 gallons/foot = 1.89 gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0924	TOTAL VOLUME PURGED (gallons): 4.84								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (SU)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	ODOR (describe)
0920	3.96	3.96	0.22	11.72	5.59	25.81	799	1.23	2.81	-67.5	clear	none
0922	0.44	4.40		11.72	5.60	25.80	800	1.20	2.53	-67.8		
0924	0.44	4.84		11.72	5.60	25.81	801	1.18	2.80	-67.5		
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: Walker Wrenn, Locklear & Associates, Inc.		SAMPLER SIGNATURE: <i>Walker Wrenn</i>		SAMPLING INITIATED AT: 0925		SAMPLING ENDED AT: 0926	
PUMP OR TUBING DEPTH IN WELL (feet): 16		TUBING MATERIAL CODE: PE		FIELD-FILTERED: N			
FIELD DECONTAMINATION: PUMP Y		TUBING N (replaced)		DUPLICATE: 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	
25Q2P -8A	1	PE	250mL	HNO3	-	*	
	1	PE	250mL	H2SO4	-	*	
	1	PE	250mL	--	-	-	
	1	PE	125mL	--	-	-	Sulfate, Nitrate, Chloride
REMARKS: Historic purge method: 2b#3 PURGE 2 VOLUMES *= verified sample pH as <2 or >12 (as applicable) at MW-9 Pump Setting: 7.2 Total Tubing Length: 30 feet							
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)							

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)

62-160.800 F.A.C.

Revision Date: January 2017

Florida Department of Environmental Protection

SURFACE WATER SAMPLING LOG

SITE NAME: Pembroke South	SITE LOCATION: Fort Meade
STATION: SW-8A	SAMPLE ID: 25Q2 SW8A DATE: 12/3/25

FIELD MEASUREMENT DATA

OBSERVATIONS:											WATER DICHARGING/ ESTIMATED DISCHARGE RATE: N/A	
SAMPLE METHOD: Bottle & Pole				SAMPLE INITIATED AT: 0944			SAMPLE ENDED AT: 0945					
Time	Water Depth (ft)	Secchi Depth (ft)	Sample Depth (ft)	pH	Temp. (°C)	Cond. (µmhos)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color	Odor	ORP (mVolts)	
0943	2.0	72.0	1.0	6.83	16.21	581	1.80	13.6	cb2r	none	-92.2	

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Walker Wrenn, Locklear & Associates, Inc.				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			
FIELD DECONTAMINATION: Y				FIELD-FILTERED: N		DUPLICATE: N	
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH		
1	PE	250mL	HNO3	---	*	Metals	
1	PE	250mL	H2SO4	---	*	Ammonia	
1	PE	250mL	--	---	-	TDS	
1	PE	125mL	--	---	-	Sulfate, Nitrate, Chloride	

REMARKS:

Staff gauge = 1.70'

pH verified @ MW-9

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

Login Sample Receipt Checklist

Client: Locklear & Associates, PLLC

Job Number: 670-75987-2

Login Number: 75987

List Source: Eurofins Orlando

List Number: 1

Creator: Bittle, David W

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Orlando