

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: YSI Best

RQ: 2021-04-05-31

Project: Nassau North Bay

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 2/15/21

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>Jerome</u>	<u>4/20/21</u>	<u>734</u>	<u>22.1</u>	<u>760</u>	<u>8.7</u>	<u>8.7</u>	<u>100.0</u>	<u>—</u>	<u>1.056</u>	<u>(P) / F</u>	<u>(L) / F</u>
ICV	<u>L</u>	<u>4/20/21</u>	<u>735</u>	<u>22.1</u>	<u>760</u>	<u>8.7</u>	<u>8.72</u>	<u>100.0</u>	<u>—</u>	<u>1.056</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV	<u>Jerome</u>	<u>4/20/21</u>	<u>1422</u>	<u>22.2</u>	<u>760</u>	<u>8.7</u>	<u>8.63</u>	<u>99.1</u>	<u>—</u>	<u>—</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV											<u>P / F</u>	<u>L / F</u>

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>J Purnish</u>	<u>4/20/21</u>	<u>737</u>	<u>201222B</u>	<u>1/22</u>	<u>1000</u>	<u>1000</u>	<u>(P) / F</u>	<u>(L) / F</u>
ICV	<u>L</u>	<u>4/20/21</u>	<u>738</u>	<u>201222A</u>	<u>1/22</u>	<u>100</u>	<u>101.7</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV	<u>J Purnish</u>	<u>4/20/21</u>	<u>1423</u>	<u>200102C</u>	<u>9/21</u>	<u>1413</u>	<u>1411</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV								<u>P / F</u>	<u>L / F</u>

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>J Purnish</u>	<u>4/20/21</u>	<u>742</u>	<u>2010F27</u>	<u>10/22</u>	<u>7.</u>	<u>22.8</u>	<u>7.01</u>	<u>-42.9</u>	<u>(P) / F</u>	<u>(L) / F</u>
Calibr.	<u>L</u>	<u>4/20/21</u>	<u>745</u>	<u>2010C31</u>	<u>9/22</u>	<u>4.</u>	<u>22.9</u>	<u>4.00</u>	<u>138.9</u>	<u>(P) / F</u>	<u>(L) / F</u>
Calibr.	<u>L</u>	<u>4/20/21</u>	<u>747</u>	<u>2012797</u>	<u>5/22</u>	<u>10.</u>	<u>22.8</u>	<u>10.00</u>	<u>-211.1</u>	<u>(P) / F</u>	<u>(L) / F</u>
ICV	<u>L</u>	<u>4/20/21</u>	<u>748</u>	<u>2010C31</u>	<u>9/22</u>	<u>4.</u>	<u>22.8</u>	<u>4.01</u>	<u>136.8</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV	<u>J Purnish</u>	<u>4/20/21</u>	<u>1425</u>	<u>2012797</u>	<u>5/22</u>	<u>10.</u>	<u>22.9</u>	<u>10.00</u>	<u>-212.7</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV										<u>P / F</u>	<u>L / F</u>

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	<u>J Purnish</u>	<u>4/20/21</u>	<u>DSO</u>	<u>0.00</u>	<u>0.00</u>	<u>(P) / F</u>	<u>(L) / F</u>

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 4/20/2021 **Collected By:** Jeremy Parrish, Kelly McDonald
Customer: NE-DIST **Sampling Agency:** FDEP
RQ: RQ-2021-04-05-31 **Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 1

Delivery Method: FedEx

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
SMR 3.2 MI S TRACY RD	 19010157
SMR 0.3 MI S TRACY RD	 19010156
Plummer Creek @ Second Island	 G4NE0301

RELINQUISHED BY(SIGNATURE):

Kelly A McDonald

DATE/TIME: 4/20/2021 1600

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Plummer Creek @ Second Island **Date:** 4/20/2021
WIN/Field ID: G4NE0301 **WBID:** 2130 **ENR:** - **Latitude:** 30.5796
County: NASSAU **Org ID:** 21FLA **Longitude:** -81.6564
Receiving Body of Water: Nassau - St. Marys **RQ:** 2021-04-05-31

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Jeremy Parrish		x		x	x
☒	Kelly McDonald	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☒ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# DESI					
Photos: NO		Flow: FLOW		Tide: FALLING		Tide Times: High: 0642 Low: 1300					
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:											
SBIO ID Numbers:											
Notes:											

Duplicate Sample

Time Zone: EST	Time: _____	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID: _____			

Blank

Time Zone: _____	Time: _____	Field ID: _____	(Blank Type_DDDMMYY)
DI Source: _____	Location: _____		
DI Type: _____	Equipment ID: _____		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: _____ WIN Import ID: _____
Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-04-05-31

Customer: WQAP

Project ID: SMP

Collected By: Jeremy Parrish, Kelly McDonald

Field Report Prepared By: Jeremy Parrish

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4NE0301

Location: Plummer Creek @ Second Island

Comments: Microbiology sample(s) submitted to contract laboratory

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
4/20/2021	910 EST	6.17	70.9	22.1	6.49	0.3	0.45 ☐ VOB (S)	2.451	1092	0.54
	912 EST	6.15	70.7	22.1	6.54	1.951	Central Lab please use top row for login purposes		1091	0.54

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # Sa0293040 Exp: 10.19.21	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3*	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # R0nb35407 Syringe Lot #	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine) (P-1L)	☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☒ Ice		1	A
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☐ E Coli ☐ F Coli ☒ Enterococci ☒ Contract Lab	☒ Ice		1	A
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C DTM-QN-C PRN-QN-C PKD-QN-BV	☐ Ice			

Name:
Jeremy Parrish
Kelly McDonald

Signature:

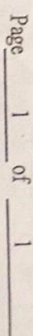
Kelly A McDonald

Date:

4/20/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



ALS Contact: Mandy Sullivan

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