

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: Stitch

RQ: 2021-03-15-12

Project: Nassau North West

2021-01-11-24

Nassau West 1

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>Kim Appleby</u>	<u>3/17/21</u>	<u>717</u>	<u>22.2</u>	<u>762.8</u>	<u>8.7</u>	<u>8.74</u>	<u>100.4</u>	<u>-</u>	<u>1.03223</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>718</u>	<u>22.2</u>	<u>762.9</u>	<u>8.7</u>	<u>8.74</u>	<u>100.4</u>	<u>-</u>	<u>1.03223</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1354</u>	<u>23.1</u>	<u>761.2</u>	<u>8.6</u>	<u>8.60</u>	<u>100.5</u>	<u>-</u>	<u>1.03223</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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>K. Appleby</u>	<u>3/17/21</u>	<u>721</u>	<u>201222B</u>	<u>1/2022</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>723</u>	<u>2009021</u>	<u>9/2021</u>	<u>1413</u>	<u>1409</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1424</u>	<u>201222A</u>	<u>1/2022</u>	<u>100</u>	<u>104.5</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1400</u>					<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>K. Appleby</u>	<u>3/17/21</u>	<u>724</u>	<u>200652</u>	<u>6/2022</u>	<u>7.00</u>	<u>23.5</u>	<u>7.00</u>	<u>-18.1</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>726</u>	<u>2912371</u>	<u>12/2021</u>	<u>4.00</u>	<u>23.6</u>	<u>4.00</u>	<u>160.5</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>727</u>	<u>2012797</u>	<u>5/2022</u>	<u>10.00</u>	<u>23.5</u>	<u>10.00</u>	<u>-187.7</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>730</u>	<u>2912371</u>	<u>12/2021</u>	<u>4.00</u>	<u>23.6</u>	<u>3.99</u>	<u>160.7</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1403</u>	<u>200652</u>	<u>6/2022</u>	<u>7.00</u>	<u>23.5</u>	<u>7.08</u>	<u>-19.4</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: 2/15/21

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>Kim Appleby</u>	<u>3/17/21</u>	<u>743</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: 3/17/2021 **Collected By:** Kelly McDonald, Kimberly Applebee
Customer: NE-DIST **Sampling Agency:** FDEP
RQ: RQ-2021-01-11-29 **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

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

Site Location	Field ID/WIN ID
Unnamed Drain to Brandy Branch at US301	 G4NE0302

RELINQUISHED BY(SIGNATURE): *Kelly A McDonald* **DATE/TIME:** 3/17/2021 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: Unnamed Drain to Brandy Branch at US301 **Date:** 3/17/2021
WIN/Field ID: G4NE0302 **WBID:** 2225 **ENR:** **Latitude:** 30.37793599
County: NASSAU **Org ID:** 21FLA **Longitude:** -81.940639
Receiving Body of Water: Nassau - St. Marys **RQ:** 2021-01-11-29

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Kelly McDonald	x		x		
☒	Kimberly Applebee		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Secchi	
Secchi Equipment ID: 3	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☒ From Shore	☐ Electric Motor
☐ Other _____	☐ Gasoline Motor

Water Level: ☐ Normal ☐ Low ☒ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# STITCH					
Photos: NO		Flow: FLOW		Tide:		Tide Times: High: Low:					
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-2021-01-11-29

Customer: WQAP

Project ID: SMP

Collected By: Kelly McDonald, Kimberly Applebee

Field Report Prepared By: Kelly McDonald

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4NE0302

Location: Unnamed Drain to Brandy Branch at US301

Comments:

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)
3/17/2021	1330 EST	3.81	43.4	21.4	4.24	0.2	0.35 ☐ VOB (S)	0.45	78.1	0.04
	EST						Central Lab please use top row for login purposes			

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	☒ Ice ☒ H2SO4*	☒ <2	1	C
	Lot # Sa0293040 Exp: 10.19.21				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD	☒ Ice ☒ HNO3*	☒ <2	1	C
	Lot # Na0344060 Exp: 1.4.22				
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice		1	C
	Filter Lot # R0nb35407				
	Syringe Lot #				
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	C
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	C
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
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			
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	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN				
Phytoplankton/Periphyton	☐ DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			
	☐ DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV				

Name:
Kelly McDonald
Kimberly Applebee

Signature:

Kelly A McDonald

Date:

3/17/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution