

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

WBUD 2322

Boldly "X" this box if there is qualified data on this name.

Meter Quanta #1

RQ- 2017-03-06-59

Project BMAP WRES

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/04/2016

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	PO Connor	03/09/17	0650	22.4	8.67	8.64	100.0	—	—	Pass	LAD
ICV	✓	✓	0657	22.4	8.67	8.63	99.8	—	—	Pass	LAD
CCV	PO Connor	03/09/17	1601	23.4	8.51	8.80	103.8	—	—	Pass	LAD
CCV	PO Can	03/09/17	1610	23.4	8.51	8.63	101.8	—	—	Pass	LAD

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	PO Connor	03/09/17	0700	161101A	11/2017	1000	1000	Pass	LAD
ICV	✓	✓	0703	161101B	05/2017	100	100	Pass	LAD
CCV	PO Connor	03/09/17	1612	129811C	04/2017	12,900	13,310	Pass	LAD
CCV	PO	✓	1618						

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	PO Connor	03/09/17	0705	2608904	07/2018	7.0	7.00	—	Pass	LAD
Calibr.	✓	✓	0707	2608626	08/2018	4.0	4.00	—	Pass	LAD
Calibr. ICV	✓	✓	0715	2608E35	02/2018	10.0	9.91	—	Pass	LAD
ICV	PO Connor	03/09/17	1615	2608626	08/2018	4.00	3.98	—	Pass	LAD
CCV	✓	✓	1618	2608904	01/2018	7.00	6.95	—	Pass	LAD
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification N/A

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

NF Scanned

WRLS Observation Sheet

Florida Department of Environmental Protection

Locating possible human waste sources
by process of elimination.Round 1: Exploratory
Rounds 2 and 3: Sewage Detection Response

WBID Name <u>Butcher pen Creek</u>			Form filled out by: <u>P. I.</u>			Date of Observations: <u>March 9, 2017</u>		
WBID Number		Class	Marine or Fresh <u>Marine</u>	Names of Observers: <u>P.O'Connor / A. Kelmacher</u>				
Rainfall in the last... (inches)	6 hrs: <u>0</u>	24 hrs: <u>0</u>	36 hrs: <u>0</u>	Comments:				
Source of rain data:								

Station ID	Time of observations	Sampled today? (✓)	Type of station				Site Accessibility Easy access? Or is it inaccessible and why? What equipment may be needed? Is municipality assistance needed (i.e. key, road block, manhole lift)?	Flow conditions (✓)				Flow Direction		Flow parameters (estimated)			Area Observations ² Add Upstream (↑) or Downstream (↓) of station, where possible						
			Open segment of stream proper (✓)	Open ditch (✓)	Manhole to stormwater conveyance	Outfall of Open (O) or Closed (C) conveyance		Flowing	Flushing ¹	Wet but stagnate	Visibly disconnected	Example: NE → SW		Depth of Flowing Water (m)	Width of flowing water (m)	Flow Speed (m/s)	Wildlife (birds, etc.)	Farm animals	Pet waste	Homeless population observed nearby (number)	Trash (in water [W] or on banks [B]? Take Photo)	Urban (U)/ Rural (R)	Homes (H), Farm (F), Businesses (B), Industries (I)
RI A	1300	✓	✓				EASY ACCESS	✓				SW → NE		0.3 8-10	8-10	0.05	✓				✓	U	APTS H, B
RI B	1335	✓	Yost NO	Test NO	✓	C	EASY ACCESS to OPEN Portion. MANHOLE to CLOSED Portion	✓				W → E		0.2	4.0	0.05					✓	U	B, Commercial
RI C	1415	✓	✓				Easy Access	✓				W → E		0.2	2.0	0.05	✓				✓	U	Commercial
RI D	1445	✓	✓				Easy Access	✓				S → N		0.1	1-2	0.05					✓	U	Homes
												→											
												→											
												→											
												→											
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¹Flushing means the entire water segment is flushing while on site.²Add any additional comments on observations (i.e. possible human waste sources, unmapped sewer pipe or outfall, sewage odors) in the photo log.

Track all photos taken and record any new outfalls observed that are not listed on map.

Date of Photos 03/09/17		Photos Uploaded Date		
Station ID or New Outfall Name	Photo number from camera	GPS Location (Decimal degrees)		Comments (Include subject of photo and any additional observations made that are not included on the observation sheet.)
		Latitude	Longitude	
R1-A	③ 1010131 1010132 1010133	30.26494	81.73376	DS, Site, Upstream
R1-B	③ 1010134 1010137 1010136	30.25976	81.74093	2 CIRCULAR END WALLS + DS + CONFL US
R1-C	2 1010139	30.25938	81.74153	Downstream, Upstream
R1-D	2 1010140			Downstream, Upstream
R1-D	1010141 2 1010142	30.25658	81.74393	Down Stream, Upstream
R2-A1	1010120 ③ 1010121 1010122			120 EVIDENCE of possible Homeless Occupation Under Bridge 121 END WALL of SW CONVEYANCE 122 DAYCARE Dumpster ADJACENT to SW DRAIN to Creek
R2-A2	① 1010117			EASTERN TERMINUS of Ditch to Butler PEN
R2 A3	② 1010112 1010113			Flexible 3" PIPE from old manhole to Ditch END WALL + CONVEYANCE UNDER BRIDGELINE to DITCH PERSISTENT Bubbles in Ditch
R2 B1	③ 1010124 1010125 1010127			124 BOX culvert N side of Box - 7 INPUTS 125 BOX culvert S side of Box 127 SEEPAGE from N. Bank of Ditch
R2 B2	① 1010129			CONFLUENCE of S NEW FLOWS Ditch Flows East
R2 B3	① 1010130			Ditch Looking West, LS, obvious signs of EROSION ADJACENT to LS
R2 B4	① 1010128			Ditch flows from South



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

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Data Qualified?

Yes / No

STORET Station Name: Butcher Pan Creek @ Blanding Blvd (2) Date: 3-9- 2017

STORET Station ID: _____ WBID: 2322 Latitude: 30.25967

County: Duval RQ: 2017-03-06-59 ORG ID: 21 FLA Longitude: 81.74093

Receiving Body of Water: St. Johns R Field ID: _____

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
P. O'Connor									
A. KAMBACKER									

Sampling Equipment				
☒ Sample Container	☐ Van Dorn	☒ Pole		
☐ Carboy	☐ Syringe			
☐ Dipper	☐ Other			
Equipment ID <u>Ortho Kit #</u>				

Collection Method				
☐ Wading	☐ Via Boat			
☒ From Shore	☐ Canoe/Kayak			
☐ Other (note below)	☐ Electric Motor			
	☐ Gasoline Motor			

Water Level:	Dry / Pooled / Low	<u>Normal</u> / High / Flooded	Matrix:	<u>Fresh</u> / Marine / DI
Meter ID# <u>Quanta</u>	Photos:	<u>Yes</u> / No	Tide Falling:	<u>Yes</u> / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1335</u>	<u>0.1</u>	<u>0.2</u>	<u>8.49</u>	<u>92.0</u>	<u>7.22</u>	<u>0.14</u>	<u>0.2 S</u>	<u>297</u>	<u>20.5</u>
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____

SBIO ID Numbers: _____ SBIO-ID: _____ RPS-ID: _____ Macrophyte-ID: _____ LIMS#: _____

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H2SO4			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococcus ☐ PCR-FILTER	☒ Ice			
Tracers	☐ W-LCMS-DIJ ☒ W-UHERB-AA <u>W-SUC-AA-R</u>	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Notes: 3-9-13 Turbid Discharge from smaller 0 conduits @ N Fork of Stream (pics)



BUTCHERP RD1 SITE B

Signature: [Signature] Date: 3-9- 2017

Field Parameters Entered into LIMS: _____ Field Parameters QC in LIMS: _____

Date Migrated to STORET: _____ Field Sheets Scanned/Saved: NF

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

PAGE 1 OF 1

Data Qualified?

Yes / No

STORET Station Name: Butcher Pen @ DuCheneau

Date: 3-9

2017

STORET Station ID: _____

WBID: 2322

Latitude: 30.25658

(mm/dd/yyyy)

County: Duval

RQ: 2017-03-06-59

ORG ID: 21 FLA

Longitude: 81.74393

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: St. Johns R

Field ID: _____

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
RO'Connor							X			
AKalmhacher						X				

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☒ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other
Equipment ID <u>Ortho Kit #</u>	
Collection Method	
☐ Wading	☐ Via Boat
☒ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Pooled / Low / <u>(Normal)</u> / High / Flooded						Matrix: <u>(Fresh)</u> / Marine / DI					
Meter ID# <u>awanta</u>						Photos: <u>Yes</u> / No					
Tide Falling: <u>Yes</u> / No / NA											
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)	
EST	1445	0.1	0.1	5.32	56.7	7.26	0.18	0.1	370	21.5	
CEN											

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____

SBIO ID Numbers: _____ SBIO-ID: _____ RPS-ID: _____ Macrophyte-ID: _____ LIMS#: _____

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H2SO4			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enteroc ☐ PCR-FILTER	☒ Ice			
Tracers	☐ W-LCMS-DIJ ☒ W-UHERB-AA ☒ W-SUC-AA-R	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Notes:

2 photos
Downstream, Upstream



BUTCHERP RD1 SITE D

Signature: [Signature]

Date: 3-9-

2017

Field Parameters Entered into LIMS: _____

(Initials/Date)

Field Parameters QC in LIMS: _____

(Initials/Date)

Date Migrated to STORET: _____

(Initials/Date)

Field Sheets Scanned/Saved: NF

(Initials/Date)