

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

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

Meter YSI #4 RQ- 2017-03-20-09 Project Ockl. Lake

- 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.	J. Purnish	3/21/17	740	20.2	9.06	9.04	100	56.3	-	P	
ICV	J	3/21/17	741	20.3	9.04	8.99	99.5	56.3	-	P	
CCV	A. Kalmbacher	3-21-17	1545	22.9	8.59	8.56	99.7	57.4		P	L
CCV											

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Purnish	3/21/17	745	161101A	11/17	1000	1000	P	
ICV	J	3/21/17	746	2147207	12/17	147	146	P	
CCV	A. Kalmbacher	3-21-17	1550	2147207	12/17	147	150	P	L
CCV									

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.	J. Purnish	3/21/17	750	2608904	7/18	7.0	7.0	161.8	P	
Calibr.	J	3/21/17	751	2608626	8/18	4.0	4.0	161.8	P	
Calibr.	J	3/21/17	752	2608635	2/18	10.0	10.0	186.1	P	
ICV	J	3/21/17	756	2608626	8/18	4.0	4.05	159	P	
CCV	A. Kalmbacher	3-21-17	1555	2608904	7/18	7.0	7.02	-13.2	P	L
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 2/9/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	A. Kalmbacher	3-21-17	0758	0.000	0.00	P	L

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

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

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

Meter QUANTA #1 RQ- RQ-2017-03-20-A Project SUWANNEE

- 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 Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/04/2016 02/2017

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 Com	03/21/17	0658	20.7	8.96	8.95	99.9	-	-	Pass	LAB
ICV	↓	↓	0705	20.6	8.98	8.92	99.9	-	-	Pass	LAB
CCV	PO Com	03/21/17	1340	21.2	8.88	8.62	97.1	-	-	Pass	LAB
CCV											

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	PO Com	03/21/17	0707	161101A	11/2017	1000	1000	Pass	LAB
ICV	↓	↓	0710	161101B	05/2011	100	100	Pass	LAB
CCV	PO Com	03/21/17	1342	21472017	12/2017	147	148	Pass	LAB
CCV									

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 Com	03/21/17	0712	2608904	07/2018	7.0	7.00	-	Pass	LAB
Calibr.	↓	↓	0728	2608926	08/2018	4.0	4.00	-	Pass	LAB
Calibr.	↓	↓	0735	2608E35	02/2018	10.0	9.89	-	Pass	LAB
ICV	PO Com	03/21/17	1345	2608904	07/2018	7.00	7.1	-	Pass	LAB
CCV					07/2018					
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



F ENVIRONMENTAL PROTECTION RING PROGRAM FIELD SHEET

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Field ID:



G1NE0857 03212017

January 2017

Data Qualified?

Yes / No

Sunshine Lake
Center

STORET:



G1NE0857

Date:

3/21/2017

(mm/dd/yyyy)

WBID: 3648A

Latitude: 29.6599

(Decimal Degrees)

County: Alachua RQ - 2017-03-20-71

ORG ID: 21 FLA

Longitude: 82.5583

(Decimal Degrees)

Receiving Body of Water: Santa Fe

Field ID:

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
B. Venn									
D. Pat O'Connor									

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other
Equipment ID Ortho Kit # 2	

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

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

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	1110	0.3	1.0	9.1	98.8	7.6	0.04	1.2	76	19.4
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 Lots	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H2SO4	6302030	10/28/17	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Notes: Algae Bloom present,

Place Label Here (If Available)

Signature: B. Venn Date: 3/21/2017

Field Parameters Entered into LIMS: 3/24/17 (Initials/Date)

Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: (Initials/Date)