

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 YSI 118154 RQ- 2016-05-09-13 Project Hawthorne Lakes

- 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 4/1/2016

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. Gevertzel	5/10/16	0716	21.76	8.78	8.89	100.8	24.7	1.9471	P	L
ICV	J. Gevertzel	5/10/16	0720	21.89	8.76	8.83	100.7	25.0	1.9471	P	L
CCV	A. Kalmbacher	5/10/16	1540	24.8	8.29	8.28	99.8	24.7	1.9471	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals. slightly off
 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. Gevertzel	5/10/16	0728	160216 A	2/2017	1000	1000	P	L
ICV	J. Gevertzel	5/10/16	0729	160216 B	8/2016	100	1000	P	L
CCV	A. Kalmbacher	5/10/16	1543	160216 A	2/2017	1000	1004	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. Gevertzel	5/10/16	0734	2509677	8/2017	7.0	7.0	-8.7	P	L
Calibr.	J. Gevertzel	5/10/16	0736	2509674	9/2017	4.0	4.0	170.4	P	L
Calibr.	J. Gevertzel	5/10/16	0739	2510A88	4/2017	10.0	9.98	-182.2	P	L
ICV	J. Gevertzel	5/10/16	0742	2510A88	4/2017	10.0	9.98	-182.1	P	L
CCV	A. Kalmbacher	5/10/16	1545	2509677	8/2017	7.0	7.03	-8.4	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 4/2016

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	J. Gevertzel	5/10/16	0744	0.000	0.000	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)

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Meter QUANTA #1

RQ- 2016-05-09-28

Project GAINESVILLE

- 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

04/1 - /2016

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.	P O'Connor	05/10/16	0652	23.4	8.51	8.48	100.0	-	-	Pass	LAB
ICV	↓	↓	0707	23.4	8.51	8.48	99.9	-	-	Pass	LAB
CCV	J Parrish	5/10/16	1330	24.1	8.40	8.41	100.3	-	-	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	P O'Connor	05/10/16	0710	160216A	02/2017	1000	1000	Pass	LAB
ICV	↓	↓	0712	↓	↓	↓	1008	Pass	LAB
CCV	J Parrish	5/10/16	1333	05151413	5/16	1413	1408	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.	P O'Connor	05/10/16	0715	2509677	08/2017	7.0	7.00	-	Pass	LAB
Calibr.	↓	↓	0718	2509677	09/2017	4.0	4.00	-	Pass	LAB
Calibr.	↓	↓	0720	2509677	08/2017	10.0	6.99	-	Pass	LAB
ICV	↓	↓	1333	2509677	8/2017	7.00	7.15	-	Pass	LAB
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;
 +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;
 and 180mV

mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range

Slope from 7 to 10 and 4 to 7 must be between 165

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

Scanned 5/17/16