

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- 2016-06-06-66 Project Swanneece 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 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	06-08-16	0710	24.8	8.40	8.38	100.0	-	-	Pass	LAB
ICV	↓	↓	0725	24.1	8.40	8.37	100.0	-	-	Pass	LAB
CCV	J. Gruentzel	6/8/16	1324	24.27	8.37	8.46	100.9	-	-	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.	PO'Connor	06/08/16	0726	160216A	02/2017	1000	1000	Pass	LAB
ICV	↓	↓	0728	↓	↓	↓	1006	Pass	LAB
CCV	J. Gruentzel	6/8/16	1325	160216A	02/2017	1000	992	P	L
CCV	J. Gruentzel	6/8/16	1326	160216B	8/16	100	99	P	L

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 mV	Pass / Fail	Lab / Field
Calibr.	PO'Connor	06/08/16	0729	2510A81	10/2017	7.0	7.00	Pass	LAB
Calibr.	↓	↓	0733	2509F74	09/2017	4.0	4.00	Pass	LAB
Calibr.	↓	↓	0740	2510A88	04/2017	10.0	9.94	Pass	LAB
ICV	J. Gruentzel	6/8/16	1327	2510A81	10/17	7.0	7.11	P	L
CCV	J. Gruentzel	6/8/16	1331	2510A88	4/17	10.0	10.0	P	L
CCV									

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

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 $\pm 0.05m$, whichever is greater

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

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Meter ID:

YSI 4

Project:

Nassau Mel + West

RQ-2016-06-06-21

- 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 4/11/2016

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO	Name	Date	Time	Temp	D.O. Chart	Meter D.O.	% DO	Probe Charge	Probe Gain	Pass	Lab
DEP SOP			CT-ET		mg/L	mg/L				/	/
Calibr.	A. Kalmbacher	6/8/2016	0750	22.7	8.62	8.62	100	58.4	1.062	P	L
ICV			0815	23.9	8.53	8.68	101.7	59.4	1.0602	P	L
CCV			1400	22.7	8.62	8.74	101.4	59.4	1.0602	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.	Name	Date	Time	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass	Lab
Cond.			CT-ET					/	/
Calibr.	A. Kalmbacher	6/8/2016	0755	160216B	8/2016	100	100	P	L
ICV			0810	160216B	8/2016	100	96	P	L
CCV			1430	160216A	2/2017	1,000	898	F	L
CCV			1430	160216B	8/2016	100	90	F	L

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

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time	Lot #	Expir. Date	pH Buffer	Meter reading	mV	Pass	Lab
DEP SOP			CT-ET			su	su		/	/
Calibr.	A. Kalmbacher	6/8/2016	0800	2510A81	10/17	7.0	7.0	-4.4	P	L
Calibr.			0803	2509F74	9/17	4.0	4.0	173.4	P	L
Calibr.			0806	2510A88	4/17	10.0	10.0	-179.7	P	L
ICV			0810	2510A81	10/17	7.0	7.02	-4.4	P	L
CCV			1432	2510A81	10/17	7.0	7.04	-5.9	P	L
CCV										

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

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

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 m

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air	A. Kalmbacher	6/8/2016	0817	0.000	0.000	P	L

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