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CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD4000)

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

Meter YSI 556 #1 RQ- 2016-05-16-26 Project Gville SCI

- 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 04/2016

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	05/19/16	0710	22.8	8.61	8.61	100.0	—	—	Pass	LAB
ICV	✓	✓	0717	22.8	8.61	8.60	100.0	—	—	Pass	LAB
CCV	PO'Connor	05/19/16	1420	24		8.55	101.9	10			
CCV	PO'Connor	05/19/16	1629	23.10	8.41	8.55	101.9				

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 #	Explr. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	PO'Connor	05/19/16	0718	160216A	02/2017	1000	1000	Pass	LAB
ICV	✓	✓	0720	✓	✓	✓	1001		
CCV	✓	05/19/16	1625	160216B	✓	✓			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 #	Explr. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	PO'Connor	05/19/16	0722	2509677	08/2017	7.0	7.00	-41.7	Pass	LAB
Calibr.	✓	✓	0725	2509674	09/2017	4.0	4.00	158.6	Pass	LAB
Calibr.	✓	✓	0728	2510A88	04/2017	10.0	9.97	-7.12.1	Pass	LAB
ICV	✓	✓	0732	2509677	08/2017	7.0	7.03	-39.7	Pass	LAB
CCV	PO'Connor	05/19/16		2510A88	04/2017	10.0	9.81	-20.9	Pass	LAB
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 (Dally)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode				0.000			
In-air							

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 RQ- 2016-05-16-18 Project Gville South

- 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 4/16/2016

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.	B. Davis	5/19/16	738	23.07	8.56	8.56	100			P	L
ICV			739	22.92							
CCV			739	23.08	8.56	8.55	99.8			P	L
CCV	B. Davis	5/19/16	1642	23.9	8.43	8.22	97.4			P	L

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.	B. Davis	5/19/16	740	160216A	2/17	1000	1000	P	L
ICV			744			1000	1004	P	L
CCV			74	160216B	8/16	100	104	P	L
CCV			1644						

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.	B. Davis	5/19/16	746	2509677	8/17	7.0	7.0		P	L
Calibr.			749	2509674	7/17	4.0	4.0		P	L
Calibr.			752	2509678	4/17	10.0	10.0		P	L
ICV			754	2509677	8/17	7.0	6.92		P	L
CCV			1645	2509674	9/17	4.0	3.92		P	L
CCV										

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

mV pH7 Range 0 ± 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 _____

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