

RQ-2016-01-25-54

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

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

Meter ID:

CUGUS

Project:

SMT

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

12/15/15

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.	Rachel Brecht	01/27/16	0752	20.5	9.0	9.0	100	51	1.00	P	L
ICV	Rachel Brecht	01/27/16	0754	20.5	9.0	9.0	100	51		P	L
CCV	mutated	12/16/1830		23.1	8.6	8.7	98	50.8		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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Rachel Brecht	01/27/16	0803	150929	10/1/16	1000	1001	P	L
ICV	Rachel Brecht	01/27/16	0807	150811	01/1/16	100	100	P	L
CCV	mutated	12/16/1830		150419	10/1/16	1000	960	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.	Rachel Brecht	01/27/16	0811	150812	3/7	7.0	7.0	-28	P	L
Calibr.	Rachel Brecht		0813	153255	5/17	4.0	4.0	146	P	L
Calibr.	Rachel Brecht		0815	149101	1/17	10.0	10.0	-207	P	L
ICV	Rachel Brecht	01/27/16	0817	149101	1/17	10.0	10.0	-200	P	L
CCV	mutated	12/16/1830		153225	5/17	4.0	4.0	149	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

12/8/15

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Rachel Brecht	01/27/16	0820	0.000	0.0	P	L

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater