

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 Quantek #1 RQ- Z06-12-12-20 Project 2016 VEC No. 44

- 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 11/2016

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 Conn	12/12/16	0745	22.4	8.67	8.67	100	—	—	Pass	LAB
ICV	V	V	0750	22.6	8.64	8.64	100.3	—	—	Pass	LAB
CCV	PO Conn	12/12/16	1411	23.1	8.56	8.29					LAB
CCV	PO Conn	12/12/16	1417	23.3	8.53	8.29	97.6	—	—	Pass	LAB

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.	PO Conn	12/12/16	0752	160616A	06/2017	1000	1000	Pass	LAB
ICV	V	V	0756	160616B	12/2016	100	102	Pass	LAB
CCV	PO Conn	12/12/16	1420	160616A	06/2017	1000	1006	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 Conn	12/12/16	0800	2606 ECU	06/2018	7.0	7.00	—	Pass	LAB
Calibr.	V	V	0805	2605918	04/2018	4.0	4.00	—	Pass	LAB
Calibr.	V	V	0810	2607973	01/2018	10.0	9.88	—	Pass	LAB
ICV	PO Conn	12/12/16	1425	2606 ECU	06/2018	7.00	7.12	—	Pass	LAB
CCV										
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 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 $\pm 0.05\text{m}$, whichever is greater