

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 name.

Meter ID:

S

Project:

SMP: Yucca + Alvarado

- 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

7-7-16

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Corey Anderson	7-14-16	704	24.4	8.4	8.4	100	36		(P) F	(L) F
ICV	"	"	710	24.5	8.3	8.4	101			(P) F	(L) F
CCV	Corey Anderson	7-14-16		7.6	2.03	1.8	98			(P) F	(L) F
CCV										P F	L F

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 (ET)	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Corey Anderson	7-14-16	712	160418A	4/17	1000	1000	(P) F	(L) F
ICV	"	"	713	160318	9/16	100	99	(P) F	(L) F
CCV	Corey Anderson	7-14-16	1521	2511C38	11/17	50,000	49260	(P) F	(L) F
CCV								P F	L F

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Corey Anderson	7-14-16	716	160322A	3/17	7.0	7.0	-12	(P) F	(L) F
Calibr.	"	"	717	161523	3/18	4.0	4.0	167	(P) F	(L) F
Calibr.	"	"	718	160126	2/18	10.0	10.0	-188	(P) F	(L) F
ICV	"	"	719	160126	2/18	10.0	10.0		(P) F	(L) F
CCV	Corey Anderson	7-14-16	1523	161523	3/18	4.0	4.0	165	(P) F	(L) F
CCV									P F	L F

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

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

Notes: RQ-2016-07-18-29 RQ-2016-07-18-30 ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Field Meter Calibration Log

Meter ID: YSI multiprobe

	Date	6-27-16	6-28-16	7-14-16	7-19-16	
AM	pH 4.00	4.00	4.00	4.00	4.00	
	pH 7.00	7.00	7.01	7.01	7.00	
	pH 10.00	10.00	10.00	10.00	10.00	
	Cond 147					
	Cond 717.5					
	Cond 1413					
	@ Temp					
	DO %	100.4	100.3	100.4	100.3	
	DO @ Temp	26.46	27.02	26.00	27.83	
PM	pH	4/7/10	4/7/10	4/7.1/10	4/7.1/10	
	Cond	—	—	—	—	
	DO% @ Temp	100.1/25.92	100.3/27.95	100.4/25.64	98.5/26.88	
	Batteries	4540	4540	4540		
	Comments		D.O. membrane New installed			
	User	J.D.F	J.D.F	J.D.F	J.D.F	