

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

YSI # 4

RQ-

201709-11-18

Project

Sum

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

10/10/17

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	10-25-17	0655	22.5	8.66	8.65	100.0	61.4	1.02376	P	C
ICV	✓	✓	0700	22.6	8.64	8.63	99.8	60.4	1.02376	P	C
CCV	B = D =	10/25/17	1355	21.4	8.84	8.86	100.2	61.4	1.02376	P	C
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	10-25-17	0702	170720A	08-2018	1000	1000	P	C
ICV	✓	✓	0704	170720A	08-2018	100	104	P	C
CCV	B = D =	10/25/17	1357	170720A	8/18	1000	998	P	C
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.	P Connor	10-25-17	0707	2707656	06-2019	7.0	7.00	-25.5	P	C
Calibr.	✓	✓	0710	2707722	06-2019	4.0	4.00	153.9	P	C
Calibr.	✓	✓	0713	2704798	09-2018	10.0	9.98	-198.2	P	C
ICV	✓	✓	0717	2707656	06-2019	7.0	7.04	-25.4	P	C
CCV	B = D =	10/25/17	1359	2707722	6/19	4.0	4.01	152.2	P	C
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 180mV

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

B = D 10/30/17

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

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Meter YSI # 3 RQ- 2017-10-23-13 Project Swansee N 2

- 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

10/10/17

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.	J. Parnell	10/25/17	725	22.0	8.74	8.74	100	64.5		P	L
ICV	J. Parnell	10/29/17	727	22.3	8.70	8.67	99.7	63.5		P	L
CCV	J. Parnell	10/29/17	1438	22.2	8.69	8.66	100.8	64.5		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.	J. Parnell	10/25/17	729	170720A	8/18	1000	1000	P	L
ICV	J. Parnell	L	730	170720B	8/18	100	101	P	L
CCV	J. Parnell	10/25/17	1440	8147207	3/18	147	147	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.	J. Parnell	10/25/17	732	2707656	6/19	7.0	7.0		P	L
Calibr.	J. Parnell		733	2707722	6/19	4.0	4.0	1445	P	L
Calibr.	J. Parnell		734	2707748	9/18	10.0	10.0	145	P	L
ICV	J. Parnell		730	2707676	6/19	7.0	7.07	29	P	L
CCV	J. Parnell		1441	2707722	6/19	4.0	4.03		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

10/30/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode In air	J. Parnell	10/25/17	737	0.000	0.0	P	L

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

JP 10/30/17