

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

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

Meter ID:

143734

Project:

Hawthorne lakes

RD-2016-03-21-06

- 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 1/22/2016

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500 Calibr.	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass /	Lab /
	J. Gwentzel	3/21/2016	0732	22.85	8.6	8.58	99.2	-	-	P	L
ICV	J. Gwentzel	3/21/2016	0735	22.89	8.6	8.59	99.9	-	-	P	L
CCV	A. Kalmbacher	3/21/2016	1550	23.3	8.53	8.55	99.6	-	-	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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass /	Lab /
Cond.									
Calibr.	J. Gwentzel	3/21/2016	0738	160216A	2/2017	1000	1000	P	L
ICV	J. Gwentzel	3/21/2016	0739	160216A	7/2016	100	99	P	L
CCV	A. Kalmbacher	3/21/2016	1555	160216A	2/2017	1000	1011	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass /	Lab /
DEP SOP										
Calibr.	J. Gwentzel	3/21/2016	0742	2509667	8/2017	7.0	7.0	-	P	L
Calibr.	J. Gwentzel	3/21/2016	0745	2509674	9/2017	4.0	4.0	-	P	L
Calibr.	J. Gwentzel	3/21/2016	0748	2509675	11/2016	10.0	9.93	-	P	L
ICV	A. Kalmbacher	3/21/2016	1557	2509667	8/2017	7.00	7.04	-	P	L
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 m

Depth (Quarterly)

Date of Last Depth Verification

NA

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air				0.000			

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

Meter ID:

YSE 556

Project:

Rocky Creek

RQ-2016-03-14-16

- 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 L.C

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

01/2016

DO DEP SOP FT 1500 Calibr.	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass /	Lab /
	B Davis	3/21	745	22.53	8.66	8.66	100	✓	✓	P	L
ICV	↓	↓	746	22.63	8.64	8.63	99.9	✓	✓	P	L
CCV	PO'Connor	3/21/16	1722	23.8	8.49	8.65	101.7	✓	✓	Pass	LAD
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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass /	Lab /
Cond. Calibr.	B Davis	3/21	748	160216A	2/17	1000	1000	P	L
ICV	↓	↓	749	↓	↓	1000	1000	P	L
CCV	PO'Connor	3/21/16	1725	150701A	07/2016	100	104	Pass	LAD
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer	Meter reading SU	mV	Pass /	Lab /
Calibr.	B Davis	3/21	752	160216A	2/17	7.0	7.00	✓	P	L
Calibr.	↓	↓	755	2509F74	9/17	4.0	4.00	✓	P	L
Calibr.	↓	↓	800	2506675	11/16	10.0	10.00	✓	P	L
ICV	B Davis	3/21	802	2509677	8/17	7.0	7.01	-36.1	P	L
CCV	PO'Connor	3/21/16	1727	2509F74	09/2017	4.0	4.02	137.7	Pass	LAD
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 m

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air				0.000			

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