

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:

457556 #1

Project:

RQ-2016-06-27-22

- 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

04/2016

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	07/05/16	0655	23.6	8.48	8.48	100.0	-	-	Pass	LAB
ICV	↓	↓	0710	23.7	8.46	8.46	99.9	-	-	Pass	LAB
CCV	PO Conn	07/05/16	1350	26.3	8.06	7.76	96.1	-	-	Pass	LAB
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 Conn	07/05/16	0712	160216A	02/2017	1000	1000	Pass	LAB
ICV	↓	↓	0714	↓	↓	↓	1003	Pass	LAB
CCV	PO Conn	07/05/16	0728	151113A	11/2016	100	102	Pass	LAB
CCV	PO Conn	07/05/16	1351	160216A	02/2017	1000	1006	Pass	LAB

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	07/05/15	0715	2510A81	10/2017	7.0	7.00	-41.5	Pass	LAB
Calibr.	↓	↓	0720	2509F74	09/2017	4.0	4.00	117.6	Pass	LAB
Calibr.	↓	↓	0724	2510A88	04/2017	10.0	9.96	-188.5	Pass	LAD
ICV	↓	↓	0726	2510A81	10/2017	7.0	7.06	-40.5	Pass	LAD
CCV	PO Conn	07/05/16	1355	2509F74	09/2017	4.0	4.01	115.2	Pass	LAD
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

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 Quanta

RQ- 2016-07-04-10

Project Nassau East

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

4/27/2016

		Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Status	Pass	Fail
Calibr.	<u>1 Kalmbacher</u>	<u>7-5-16</u>	<u>0805</u>	<u>23.6</u>	<u>8.48</u>	<u>8.48</u>	<u>99.9</u>	<u>—</u>	<u>—</u>	<u>P</u>	<u>L</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0827</u>	<u>23.3</u>	<u>8.53</u>	<u>8.38</u>	<u>98.2</u>	<u>—</u>	<u>—</u>	<u>P</u>	<u>L</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1450</u>	<u>26.3</u>	<u>8.06</u>	<u>7.76</u>	<u>95.3</u>	<u>—</u>	<u>—</u>	<u>P</u>	<u>L</u>
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.

		Date	Time CT-ET	Lot #	Expir. Date	Standard umhos/cm	Meter Reading umhos/cm	Pass	Fail
Calibr.	<u>1 Kalmbacher</u>	<u>7-5-16</u>	<u>0810</u>	<u>160216A</u>	<u>2/2017</u>	<u>1.000</u>	<u>1.000</u>	<u>P</u>	<u>L</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0813</u>	<u>151113A</u>	<u>11/2016</u>	<u>100</u>	<u>101</u>	<u>P</u>	<u>L</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1500</u>	<u>12916</u>	<u>4/2016</u>	<u>12,900</u>	<u>13,140</u>	<u>P</u>	<u>L</u>
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

		Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass	Fail
Calibr.	<u>1 Kalmbacher</u>	<u>7-5-16</u>	<u>0815</u>	<u>2510A81</u>	<u>10/2017</u>	<u>7.0</u>	<u>6.99</u>	<u>—</u>	<u>P</u>	<u>L</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>0818</u>	<u>2509F74</u>	<u>9/2017</u>	<u>4.0</u>	<u>4.00</u>	<u>—</u>	<u>P</u>	<u>L</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>0820</u>	<u>2510A88</u>	<u>4/2017</u>	<u>10.0</u>	<u>10.00</u>	<u>—</u>	<u>P</u>	<u>L</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0824</u>	<u>2510A81</u>	<u>10/2017</u>	<u>7.0</u>	<u>6.92</u>	<u>—</u>	<u>P</u>	<u>L</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1505</u>	<u>2510A81</u>	<u>10/2017</u>	<u>7.0</u>	<u>7.10</u>	<u>—</u>	<u>P</u>	<u>L</u>
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.25 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

N/A

		Date	Time CT-ET	Zero the Sensor	ICV Value	Pass/ Fail	Lab/ Field
Pressure mode in air	<u>N/A</u>			<u>0.000</u>			

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