

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

Meter ID: Big 7 RQ: 2018-07-23-05 Project: Cont Mat

J - QUALIFIED
PH

~~Boldly "X" in box if there is qualified based on this name.~~

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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 6/19/18

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.	Gregory Searcy	7/26/18	820	24.7	8.304	8.31	100			P/F	L/F
ICV	"	"	825	24.6	24.6	8.32	100			P/F	L/F
CCV	JOHN BARRINGTON	7/31/18	1652	26.48	8.04	8.06	100.1			P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Gregory Searcy	7/26/18	830	171211H	12/18	10000	10005	P/F	L/F
ICV	"	"	835	180321C	04/19	100	104	P/F	L/F
CCV	JOHN BARRINGTON	7/31/18	1654	180321D	4/19	50,000	50282	P/F	L/F
CCV								P/F	L/F

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.	Gregory Searcy	7/26/18	843	177435	10/14	7.0	7.0	-26.5	P/F	L/F
Calibr.	"	"	846	180710	2/20	4.0	4.0	132.3	P/F	L/F
Calibr.	"	"	850	181282	5/20	10.0	10.0	-185.9	P/F	L/F
ICV	"	"	853	181456	4/20	7.0	3.91	137.0	P/F	L/F
CCV	JOHN BARRINGTON	7/31/18	1656	181282	5/20	10.0	9.35	-	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;
 If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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 ID: B917

RQ: 2018-07-22-05

Project: Cont. Plant

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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: 6/19/18

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.	<u>Cary Smith</u>	<u>7/26/18</u>	<u>0725</u>	<u>24.3</u>	<u>8.37</u>	<u>7.38</u>	<u>100</u>			<u>P/F</u>	<u>L/F</u>
ICV		<u>11</u>	<u>0726</u>	<u>24.5</u>	<u>8.34</u>	<u>8.34</u>	<u>99.9</u>			<u>P/F</u>	<u>L/F</u>
CCV			<u>1702</u>	<u>23.72</u>	<u>8.47</u>	<u>8.56</u>	<u>101.1</u>			<u>P/F</u>	<u>L/F</u>
CCV											

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
 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.	<u>Cary Smith</u>	<u>7/26/18</u>	<u>0728</u>	<u>17124A</u>	<u>12/18</u>	<u>10,000</u>	<u>10,019</u>	<u>P/F</u>	<u>L/F</u>
ICV		<u>7/26/18</u>	<u>0740</u>	<u>18032K</u>	<u>4/18</u>	<u>100</u>	<u>102</u>	<u>P/F</u>	<u>L/F</u>
CCV		<u>7/31/18</u>	<u>1700</u>	<u>2711227</u>		<u>50,000</u>	<u>48506</u>	<u>P/F</u>	<u>L/F</u>
CCV									

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.	<u>Cary Smith</u>	<u>7/26/18</u>	<u>0741</u>	<u>17745</u>	<u>10/19</u>	<u>7.0</u>	<u>7.0</u>	<u>-44.2</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>800</u>	<u>186710</u>	<u>2/20</u>	<u>4.0</u>	<u>4.0</u>	<u>130.8</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>804</u>	<u>181282</u>	<u>5/20</u>	<u>10.0</u>	<u>7.99</u>	<u>-217.0</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>808</u>	<u>180710</u>	<u>2/20</u>	<u>4.0</u>	<u>5.93</u>	<u>139.0</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1705</u>	<u>181282</u>	<u>5/20</u>	<u>10.0</u>	<u>9.95</u>	<u>-214.2</u>	<u>P/F</u>	<u>L/F</u>
CCV										

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;
 If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

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Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						<u>P/F</u>	<u>L/F</u>

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: