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Form FD9000-8 CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000) 11-10-05

Project/Site: RD-2014-10-03-49 Date: 10/3/14 Meter # DEP 132237

Temperature (Quarterly) For Date of Last Temperature Verification see in log book

Dissolved Oxygen		DEP SOP FT 1500	Initials	Date	Time	Probe Charge	Probe Gain	Temp °C	% DO	Saturation mg/L (from chart)	Pass or Fail
CAL	ICV	CCV	<u>nm</u>	<u>10/3</u>	<u>0710</u>		<u>1.06738</u>	<u>24.7</u>	<u>100</u>	<u>8.309</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/4</u>	<u>0800</u>			<u>24.0</u>	<u>99</u>	<u>8.418</u>	<u>P</u>
CAL	ICV	CCV									<u>P</u>
CAL	ICV	CCV									<u>P</u>
CAL	ICV	CCV									<u>P</u>
CAL	ICV	CCV									<u>P</u>
CAL	ICV	CCV									<u>P</u>
CAL	ICV	CCV									<u>P</u>

Specific Conductance		DEP SOP FT 1200	Initials	Date	Time	Standard $\mu\text{mhos/cm}$	Exp. Date	Lot #	Bottle #	Cell Constant	Reading $\mu\text{mhos/cm}$	Pass or Fail
Acceptance Criteria: $\pm 0.3 \text{ mg/L}$												
CAL	ICV	CCV	<u>nm</u>	<u>10/3</u>	<u>0715</u>	<u>12900</u>	<u>1/21/2017</u>	<u>KCL 12-1</u>			<u>12900</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/3</u>	<u>0716</u>	<u>1413</u>	<u>7/14/17</u>	<u>KCL 16-5</u>			<u>1415</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/4</u>	<u>0800</u>	<u>100</u>	<u>11/17</u>	<u>251494</u>			<u>94</u>	<u>P</u>
CAL	ICV	CCV										<u>P</u>
CAL	ICV	CCV										<u>P</u>
CAL	ICV	CCV										<u>P</u>
CAL	ICV	CCV										<u>P</u>

pH		DEP SOP FT 1100	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	mV / Slope	Reading SU	Pass or Fail
Acceptance Criteria: $\pm 0.2 \text{ SU}$												
CAL	ICV	CCV	<u>nm</u>	<u>10/3</u>	<u>0720</u>	<u>7</u>	<u>05/2017</u>	<u>2506518</u>		<u>-23.5</u>	<u>7.0</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/3</u>	<u>0721</u>	<u>4</u>	<u>03/2018</u>	<u>2608491</u>		<u>160.3</u>	<u>4.0</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/3</u>	<u>0722</u>	<u>10</u>	<u>10/2017</u>	<u>1605846</u>		<u>-191.2</u>	<u>10.0</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/4</u>	<u>0725</u>	<u>4</u>	<u>03/2018</u>	<u>2603491</u>			<u>4.0</u>	<u>P</u>
CAL	ICV	CCV	<u>nm</u>	<u>10/4</u>	<u>0800</u>	<u>7</u>	<u>08/17</u>	<u>2606518</u>		<u>-31.3</u>	<u>7.10</u>	<u>P</u>
CAL	ICV	CCV										<u>P</u>
CAL	ICV	CCV										<u>P</u>
CAL	ICV	CCV										<u>P</u>
CAL	ICV	CCV										<u>P</u>

Maintenance: Weekly pH Slope: _____

Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Perform only in Calibrate Mode: CAL - Calibrate
Perform only in Run Mode: ICV - Initial Calibration Verification
Perform only in Run Mode: CCV - Continuing Calibration Verification

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Form FD9000-8 CALIBRATION LOG (FDEP SOP FT 1000-FD 1500, FD 1000-FD 4000) 11-10-05

Project/Site: RQ-2016-08-15-59

Date: 10/3/16

Meter # DEP 113529

Temperature (Quarterly) For Date of Last Temperature Verification see in log book

Dissolved Oxygen

DEP SOP FT 1500	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °C	% DO	Saturation mg/L (from chart)	Pass or Fail
CAL ICV CCV	RA	10/3/16	0850		1.00525	8.3	24.0	99	8.418	P
CAL ICV CCV	BR	10/4/16	0810			8.4	23.4	99	8.514	P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P

Acceptance Criteria: ± 0.3 mg/L

Specific Conductance

DEP SOP FT 1200	Initials	Date	Time	Standard μ mhos/cm	Exp. Date	Lot #	Bottle #	Cell Constant	Reading μ mhos/cm	Pass or Fail
CAL ICV CCV	RA	10/3/16	0855	12900	1/21/17	KCI 16-1			12920 - 12998	P
CAL ICV CCV	RA	10/3/16	0856	1413	7/14/17	KCI 16-5			1474	P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P

Acceptance Criteria: $\pm 5\%$

pH

DEP SOP FT 1100	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	mV / Slope	Reading SU	Pass or Fail
CAL ICV CCV	RA	10/3/16	0858	7	9/17	2506518		-25.9	7.09 - 7.00	P
CAL ICV CCV	RA	10/3/16	0900	4	3/18	2603H91		153.1	3.90 - 4.00	P
CAL ICV CCV	RA	10/3/16	0901	10	10/17	1605846			9.83 - 9.97	P
CAL ICV CCV	RA	10/3/16	0909	4	3/18	2603H91			4.0	P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P
CAL ICV CCV										P

Acceptance Criteria: ± 0.2 SU

Maintenance: Weekly pH Slope: _____ Dissolved Oxygen Membrane Changed: Yes No

Notes: Rattlesnake Lake CVI