

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

57176

RQ:

2021-04-19-73

Project:

LFV Source Tracking

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

2/15/21

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Brian Davis	4/21/21	735	22.6	760.9	8.7	8.7	100.1	✓	1.02	P/F	L/F
ICV			738	22.8	760.8	8.6	8.58	99.9	✓	1.02	P/F	L/F
CCV			1540	24.5	758.9	8.3	8.24	98.9	✓	1.02	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	4/21/21	740	201222B	1/22	1000	1000	P/F	L/F
ICV			742	201222A	1/22	100	103.3	P/F	L/F
CCV			1543	200902C	9/21	1413	1407	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Brian Davis	4/21/21	746	2010F27	10/22	7.01	23.3	7.01	-20.1	P/F	L/F
Calibr.			749	2010C31	9/22	4.00	23.2	4.00	157.0	P/F	L/F
Calibr.			752	2012797	5/22	10.02	23.3	10.02	-192.2	P/F	L/F
ICV			754	2010F27	10/22	7.01	23.3	7.05	-20.7	P/F	L/F
CCV			1545	2012797	5/22	10.02	23.2	10.02	-192.2	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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	Brian Davis	4/21/21	755	0.00	0.00	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:

bmap tribs

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Brian Davis

Field Report Prepared By: K. McDonald

Project ID: SMP

Collected By: K. McDonald, B. Davis

Sampling Agency: FDEP NEROC

Location Little Fishweir @ MacArthur		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 4/21/21 Time 0935		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s) (See pg 2)	
Field ID LFW2		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.0		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 20.5		pH 7.42		Sample Depth 0.05		☐ ft ☒ m		Sp. Conductance (umho/cm) 428.9	
Latitude 30.30231		☒ dd ☐ dms		Longitude -81.71719		☒ dd ☐ dms		Salinity (ppt) 0.21		Comments	
Location Stormwater effluent @ Randall		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 4/21/21 Time 1010		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID LFW5		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.75		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 20.9		pH 7.4		Sample Depth 0.05		☐ ft ☒ m		Sp. Conductance (umho/cm) 480.1	
Latitude 30.302943		☒ dd ☐ dms		Longitude -81.717751		☒ dd ☐ dms		Salinity (ppt) 0.23		Comments	
Location Upstream of Randall		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 4/21/21 Time 1110		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID LFW6		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.58		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 28.8		pH 7.14		Sample Depth 0.12		☐ ft ☒ m		Sp. Conductance (umho/cm) 394.4	
Latitude 30.303090		☒ dd ☐ dms		Longitude -81.177970		☒ dd ☐ dms		Salinity (ppt) 0.19		Comments	
Location Rensselaer + Randall manhole		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 4/21/21 Time 1110		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID LFW7		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.73		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 21.8		pH 7.48		Sample Depth 0.10		☐ ft ☒ m		Sp. Conductance (umho/cm) 540	
Latitude 30.303350		☒ dd ☐ dms		Longitude -81.715924		☒ dd ☐ dms		Salinity (ppt) 0.26		Comments	

Relinquished By: Kelly McDonald	Date/Time 4/21/21 1600	Shipping Method FedEx	Number of Coolers Shipped: 1	Received By:	Date/Time
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Group: A Bottle Type: QPCR-P-500ML # of Bottles: 4 Preservative: ICE Enter Number of Bottles Sent to Lab 4
PCR-DG3
PCR-HF183

Group: A Bottle Type: BG-500ML # of Bottles: 4 Preservative: ICE Enter Number of Bottles Sent to Lab 4
W-E8321-DI
W-E8321-MS