

NERRS SWMP Water Quality Calibration Log

Last Edit Date: 04/11/2025

Reserve: **GTM**

Station Name:

CDMO Raw File Name:

Datasonde and Probe Identification Numbers

	Sonde Code	Serial Number		Serial Number	Model Number
Datasonde:	<input type="text" value="EXO210122020"/>	<input type="text" value="20H100464"/>	pH:	<input type="text" value="24G104085"/>	<input type="text" value="577602"/>
Vented:	<input type="text" value="No"/>	Model Number	RP DO:	<input type="text"/>	<input type="text"/>
Nickname:	<input type="text" value="Matthew"/>	<input type="text" value="EXO2"/>	ODO:	<input type="text" value="24H100705"/>	<input type="text" value="599100-01"/>
			Turbidity:	<input type="text" value="13K102042"/>	<input type="text" value="599101-01"/>
			Conductivity:	<input type="text" value="24H100562"/>	<input type="text" value="599827"/>
			Chl/TotAlg:	<input type="text" value="20C000096"/>	<input type="text" value="599103-01"/>
			EXO Wiper:	<input type="text" value="12L101282"/>	<input type="text" value="599090-01"/>

Datasonde Maintenance

Date of Calibration: mm/dd/yyyy Technician(s):

	Central/TURB	ODO	CHL		Central/TURB	ODO	CHL
Wiper(s) Replaced:	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text"/>	Wiper parks 180° from optics:	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text"/>
Batteries Replaced:	<input type="text" value="Yes"/>			DO/ODO membrane replaced:	<input type="text" value="No"/>		
Format Flash Disk:	<input type="text"/>			Membrane integrity test:	<input type="text"/>		

Comments:

Pre/Post Deployment Calibration

Pre-Deployment				Post-Deployment		Sensor Diagnostics	
Standards	Before Cal	Calibrated	Error			Pre-Deployment	
Temp <input type="text" value="21.48"/> °C	<input type="text" value="21.494"/> °C		<input type="text" value="No"/>	Check Date	<input type="text" value="04/10/2025"/>	RP DO chrg (range 25-75)	<input type="text"/>
RP % DO @ 100% sat	<input type="text"/>	<input type="text"/>	<input type="text"/>			RP DO gain (0.7-1.4)	<input type="text"/>
BP @ cal (Rapid Pulse)	<input type="text"/> mm Hg					Optical DO gain (6600: 0.7-1.4, EXO: 0.87-1.25)	<input type="text" value="1.12"/>
Optical %DO @ 100% sat	<input type="text" value="90.1"/> %	<input type="text" value="100.7"/> %	<input type="text" value="No"/>	<input type="text" value="102.7"/> %	<input type="text" value="102.8"/> %	RP DO warm up test (hi/lo)	<input type="text"/>
BP @ Cal (Optical)	<input type="text" value="765.2"/> mm Hg			<input type="text" value="767.2"/> mm Hg		Cell const (6600: 4.6-5.45, EXO CT2: 4.59-5.61, WPD EXO: 0.419-0.519)	<input type="text" value="0.47"/>
Baro. Pres. (Depth Calib)	<input type="text" value="764.3"/> mm Hg	(760.0 for vented sonde)		<input type="text" value="767.2"/> mm Hg	(760.0 for vented)	pH 7 (0 +/- 50 mV)	<input type="text" value="-17.1"/>
Depth 0.058 offset	<input type="text" value="0.076"/> m	<input type="text" value="0.058"/> m	<input type="text" value="No"/>	<input type="text" value="0.144"/> m	0.098 offset	pH 10 (-180 +/- 50 mV)	<input type="text" value="-195.6"/>
Station Offset	<input type="text"/>			<input type="text"/>		pH 4 (+180 +/- 50 mV)	<input type="text" value="163.7"/>
Level 0.0 offset	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	0.0 offset	Calculated pH slope	178.5
SpCond <input type="text" value="50.0"/> mS/cm	<input type="text" value="50.095"/> mS/cm	<input type="text" value="50.0"/> mS/cm	<input type="text" value="No"/>	<input type="text" value="50.117"/> mS/cm		(<155 is suspect)	
ph 7 <input type="text" value="7.02"/>	<input type="text" value="7.06"/>	<input type="text" value="7.02"/>	<input type="text" value="No"/>	<input type="text" value="7.13"/>		(4/7 will result in negative slope)	
ph 10 <input type="text" value="10.06"/>	<input type="text" value="10.09"/>	<input type="text" value="10.06"/>	<input type="text" value="No"/>	<input type="text" value="10.13"/>		Post-Deployment	
ph 4 <input type="text" value="4.0"/>	<input type="text" value="3.99"/>	<input type="text" value="3.99"/>	<input type="text" value="No"/>	<input type="text" value="4.07"/>		RP DO chrg (range 25-75)	<input type="text"/>
Turb <input type="text" value="0.0"/> NTU/FNU	<input type="text" value="-0.01"/> NTU/FNU	<input type="text" value="0.0"/> NTU/FNU	<input type="text" value="No"/>	<input type="text" value="-0.02"/> NTU/FNU		RP DO warm up test (hi/lo)	<input type="text"/>
Turb <input type="text" value="124.0"/> NTU/FNU	<input type="text" value="125.39"/> NTU/FNU	<input type="text" value="123.99"/> NTU/FNU	<input type="text" value="No"/>	<input type="text"/>		pH 7 (0 +/- 50 mV)	<input type="text" value="-22.5"/>
Rhodamine WT Temp	<input type="text" value="22.051"/> °C			<input type="text" value="21.893"/> °C		pH 10 (-180 +/- 50 mV)	<input type="text" value="-200.8"/>
Chl (0) 0.0 ug/L	<input type="text" value="-0.04"/> ug/L	<input type="text" value="0.0"/> ug/L	<input type="text" value="No"/>	<input type="text" value="0.13"/> ug/L		pH 4 (+180 +/- 50 mV)	<input type="text" value="159.2"/>
Chl (118) 6600: 113.7 ug/L	<input type="text" value="68.12"/> ug/L	<input type="text" value="68.38"/> ug/L	<input type="text" value="No"/>	<input type="text"/>	6600: 114.0	Calculated pH Slope	178.3
EXO: 65.9 ug/L					EXO: 66.1	(<155 is suspect)	
Battery voltage	<input type="text" value="5.39"/> V	(remove ext. power -650,6038)		<input type="text" value="5.51"/> V	(remove ext. power)		

Programming

Interval:	<input type="text" value="15"/> min	Start date:	<input type="text" value="03/26/2025"/> mm/dd/yyyy	Start time (STD):	<input type="text" value="05:00:00"/> 24 hh:mm:ss
Duration:	<input type="text" value="365"/> days	sonde file name:	<input type="text" value="PI032625"/>	Battery life:	<input type="text" value="134.75"/> days
Free memory:	<input type="text" value="24221.35"/> days	Set clock (status):	<input type="text" value="Yes"/> Y or N	Free memory (status):	<input type="text" value="98.69"/> bytes (k) or %
Parameters recorded:					
Temp:	<input type="text" value="Yes"/>	Sp Cond:	<input type="text" value="Yes"/>	Salinity:	<input type="text" value="Yes"/>
DO % sat:	<input type="text" value="Yes"/>	DO Conc.:	<input type="text" value="Yes"/>	Depth/Level:	<input type="text" value="Yes"/>
pH:	<input type="text" value="Yes"/>	Turbidity:	<input type="text" value="Yes"/>	Chlorophyll:	<input type="text" value="Yes"/>
		pH mV:	<input type="text" value="Yes"/>	Battery Voltage:	<input type="text" value="Yes"/>

Comments-Pre:

fDOM Calibrated: 0.04, 0.00 RFU; 99.35, 100.00 QSU; -0.01, 0.00 QSU; 296.59, 300.00 QSU; TAL CHLa RFU DI: -0.01, 0.00; 22C Rhod (std 16.4): 16.55, 16.39; New ODO sensor added

Comments-Post:

temp: 21.307C, 21.29C; fDOM: 0.50QSU, 0.25RFU; TAL RFU: 0.06

NERRS SWMP Water Quality Field Log

Last Edit Date: 04/11/2025

Deployment Information

First Sample Time:10:45

Date Deployed: mm/dd/yyyy * **Time:** hh:mm (24hr) **White Towel:**

Technician(s):

Field Data:

Water Temp °C DO Percent % Instrument Type:
Sp Cond mS/cm DO Conc. mg/L
Salinity psu Other

Comments:

windy, no clouds, warm, outgoing tide

Infield Maintenance: Note changes to site during deployment, sonde tube maintenance, biofouling removal, etc.

Date: mm/dd/yyyy **Duration:** **Maintenance:**

Comments:

Retrieval Information

Last Sample Time:10:30

Date Retrieved: mm/dd/yyyy **Time:** hh:mm (24hr) **White Towel:**

Technician(s):

Field Data:

Water Temp °C DO Percent % Instrument Type:
Sp Cond mS/cm DO Conc. mg/L
Salinity psu Other

Fouling Presence: Type: A=algae, B=barnacles, C=crabs, E=eggs, F=fish, H=hydroids, MD=mud, S=sponges, SI=silt, SL=shell
SP=shrimp, T=tunicates, W=worm, O=other, N=none

Amount: H=heavy, M=moderate, L=light (e.g. A/H, B/L)

Sonde/Guard External Screen Chlorophyll
Temp/Cond Dissolved Oxygen
pH Turbidity

Comments:

no fouling

File Retrieval

Sonde Filename: **Probe Malfunction:**

Comments: