

NERRS SWMP Water Quality Calibration Log

Last Edit Date: 03/31/2025

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="15C105033"/>	<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="20.95"/> °C	<input type="text" value="20.991"/> °C		<input type="text" value="No"/>	Check Date	<input type="text" value="03/05/202"/>	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"/>	<input type="text"/>				Optical DO gain (6600: 0.7-1.4, EXO: 0.87-1.25)	<input type="text" value="1.07"/>
Optical %DO @ 100% sat	<input type="text" value="99.2"/> %	<input type="text" value="101.0"/> %	<input type="text" value="No"/>			RP DO warm up test (hi/lo)	<input type="text"/>
BP @ Cal (Optical)	<input type="text" value="768.8"/> mm Hg			<input type="text" value="756.7"/> 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="767.2"/> mm Hg	(760.0 for vented sonde)		<input type="text" value="756.7"/> mm Hg	(760.0 for vented)	pH 7 (0 +/- 50 mV)	<input type="text" value="-16.0"/>
Depth 0.098 offset	<input type="text" value="0.183"/> m	<input type="text" value="0.098"/> m	<input type="text" value="No"/>	<input type="text" value="-0.049"/> m	-0.045 offset	pH 10 (-180 +/- 50 mV)	<input type="text" value="-193.3"/>
Station Offset	<input type="text"/>					pH 4 (+180 +/- 50 mV)	<input type="text" value="163.3"/>
Level 0.0 offset	<input type="text"/>	<input type="text"/>	<input type="text"/>		0.0 offset	Calculated pH slope	177.3
SpCond <input type="text" value="50.0"/> mS/cm	<input type="text" value="50.262"/> mS/cm	<input type="text" value="50.0"/> mS/cm	<input type="text" value="No"/>	<input type="text" value="50.09"/> mS/cm		(<155 is suspect)	
ph 7 <input type="text" value="7.02"/>	<input type="text" value="7.11"/>	<input type="text" value="7.02"/>	<input type="text" value="No"/>	<input type="text" value="7.12"/>		(4/7 will result in negative slope)	
ph 10 <input type="text" value="10.06"/>	<input type="text" value="10.12"/>	<input type="text" value="10.06"/>	<input type="text" value="No"/>	<input type="text" value="10.16"/>		Post-Deployment	
ph 4 <input type="text" value="4.0"/>	<input type="text" value="4.06"/>	<input type="text" value="3.99"/>	<input type="text" value="No"/>	<input type="text" value="4.04"/>		RP DO chrg (range 25-75)	<input type="text"/>
Turb <input type="text" value="0.0"/> NTU/FNU	<input type="text" value="0.07"/> NTU/FNU	<input type="text" value="0.0"/> NTU/FNU	<input type="text" value="No"/>	<input type="text" value="-0.05"/> 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="118.62"/> NTU/FNU	<input type="text" value="124.0"/> NTU/FNU	<input type="text" value="No"/>	<input type="text"/>		pH 7 (0 +/- 50 mV)	<input type="text" value="-21.0"/>
Rhodamine WT Temp	<input type="text" value="21.863"/> °C			<input type="text" value="21.527"/> °C		pH 10 (-180 +/- 50 mV)	<input type="text" value="-199.7"/>
Chl (0) 0.0 ug/L	<input type="text" value="-0.03"/> ug/L	<input type="text" value="-0.01"/> ug/L	<input type="text" value="No"/>	<input type="text" value="0.08"/> ug/L	6600: 114.8	pH 4 (+180 +/- 50 mV)	<input type="text" value="160.3"/>
Chl (118) 6600: 114.1 ug/L	<input type="text" value="66.76"/> ug/L	<input type="text" value="66.02"/> ug/L	<input type="text" value="No"/>	<input type="text"/>	EXO: 66.6	Calculated pH Slope	178.7
EXO: 66.2 ug/L						(<155 is suspect)	
Battery voltage	<input type="text" value="5.47"/> V	(remove ext. power -650,6038)		<input type="text" value="5.23"/> V	(remove ext. power)		

Programming

Interval:	<input type="text" value="15"/> min	Start date:	<input type="text" value="02/11/2025"/> 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="PI021125"/>	Battery life:	<input type="text" value="129.72"/> days
Free memory:	<input type="text" value="24249.65"/> days	Set clock (status):	<input type="text" value="Yes"/> Y or N	Free memory (status):	<input type="text" value="98.80"/> 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: -0.06, 0.00 RFU; 97.36, 100.90RFU; 0.15, 0.01QSU; 290.66, 299.99 QSU; TAL
CHLa RFU DI: -0.05, 0.00; 22C Rhod (std 16.4): 16.67, 16.39

Comments-Post:

temp: 20.804C, 20.78C; fDOM: 0.43QSU, 0.27RFU; TAL RFU: 0.05; DO sensor failed for entire deployment

NERRS SWMP Water Quality Field Log

Last Edit Date: 03/31/2025

Deployment Information

First Sample Time:12:00

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:

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:11:00

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:

File Retrieval

Sonde Filename: **Probe Malfunction:**

Comments: