CALIBRATION WORK SHEET

Date of Calibration: Aug. 19, 2015 Sonde ID: Ø36ØØ61AA
Technician: ______________________

RP DO membrane changed? Y (N) *Note: Wait 3 to 6 hours before calibrating for unattended deployments; run in Discrete mode for 10 minutes to accelerate burn in. (Rapid Pulse DO Only)*
RP DO membrane o-ring changed? Y (N)

~~Turbidity wiper changed?~~ Y N ~~Chlorophyll wiper changed?~~ Y N
~~ROX DO wiper changed?~~ Y N ~~BGA-PE wiper changed?~~ Y N
~~BGA-PC wiper changed?~~ Y N ~~Rhodamine wiper changed?~~ Y N

Note: If parking problems occur with optical probes having a serial number 07L (Dec 07) or older, be sure the firmware is 3.06 or later. Parking issues with optical probes having a serial number prior to 07L may be related to a dirty wiper body or pad.

Record sonde battery voltage: 11.1V (if applicable)

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant	4.94678	Range 5.0 ± .45
Integrated conductivity cell constant		Range 5.0 ± .70
pH mv Buffer 7	-30	Range 0 ± 50 mv
pH mv Buffer 4	~~143~~	~~Range +180 ± 50 mv*~~
pH mv Buffer 10	-207	Range -180 ± 50 mv *

***Note:** Millivolt span between pH 4 and 7 should be ≈ 165 to 180 mv
Millivolt span between pH 7 and 10 should be ≈ 165 to 180 mv

DO charge (RP only)	32.9	Range 25 to 75
☆ – DO gain	2.053	Range 0.7 to 1.4
ODO gain	~~____~~	~~Range 0.85 to~~ 1.15

Turbidity standard used in calibration ~~______~~
Manufacturer and part number ~~______~~

Barometric Pressure: 29.86 in atlanta mo 758.44 mmHg
DO % Calculated – (BARO mmHg divided by 7.6) = % saturation
Example: 760 ÷ 7.6 = 100.0%

Record Calibration Values

	Standard	Pre Cal / Post Cal
Temperature		Sonde
Conductivity	50 μS/cm	50.4 no cal necessary
pH 7	7	7.27 / 7.00
pH 4	~~4.0~~	~~/ 4.0~~
pH 10	10	10.02 / 10.00
~~ORP~~		/
~~Turbidity~~		/
~~Turbidity~~		/
~~Turbidity 0.5~~		/
~~Chlorophyll~~		/
~~Chlorophyll~~		/
DO RP	atmosph	64.8 / 99.4
~~DO ROX~~		/
~~BGA PE/PC~~		/
~~BGA PE/PC~~		/
~~Rhodamine~~		/

Depth Calibration ~~- If zero was entered, record barometric pressure at time of calibration~~ ______ mmHg
Depth Calibration - I~~f offset depth was entered, record value~~ ______ ~~meters/feet and pressure~~ ______ mmHg
Depth Calibration (Vented) – ~~Acceptable calibration constant: 0.0 psig ± 0.15~~ ______

Notes: computer & phone time 8:19 pm YSI time = 20:21:43. YSI is 3 minutes fast.
pH offset (ph-7)*k = -161.617
pH gain (ph-7)*k/mV = -513377
Note that DO gain is out of range ~~and needs to be ca~~
redo membrane at later date
Conductivity was good & not recalibrated.

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