

Texas Commission on Environmental Quality YSI Calibration and Maintenance Log					
Calibration					
Date:		Time:		Employee Name:	
Battery Voltage:			Sonde Type and Serial No.:		
Function	Temp. of Standard	Value of Standard	Initial Reading	Calibrated to	Comments
Specific conductance (high) $\geq 1,000 \mu\text{S/cm}$					
Conductivity cell constant					Range 5.0 ± 0.5
pH calibrated (~7)					
pH mV for pH 7 solution					Range $0 \pm 50 \text{ mV}$
pH slope (~ 4/10)					
pH mV for pH 10 pH mV for pH 4					Range: -130 to -230 mV Range: 130 to 230 mV
Dissolved oxygen (%sat) *					
Dissolved-oxygen charge					Range 25 to 75
Dissolved-oxygen gain					Range 0.7 to 1.4
DATA NEEDED FOR DISSOLVED-OXYGEN CALIBRATION					
Altitude (A) = _____ feet above MSL		Barometric pressure _____ inches _____ mm			
Barometric-Pressure (BP) Options		Barometric-Pressure Formulas			
Barometer		Barometric pressure (inches) _____ $\times 25.4 = \text{BP}$ _____ mm			
From local source after correction (CBP)		BP _____ mm = CBP _____ mm - 2.5 (altitude ____/100)			
Estimated from altitude only		BP _____ mm = $760 \text{ mm} - 2.5$ (altitude ____/100)			
* DO% saturation standard calculation		Current barometric pressure in mm / 760 \times 100			
Deployment Checklist (required for data logging only)					
Logging interval: Yes No			SDI-12 Autosleep enabled: Yes No		
DO warm-up time:			Battery volts in sonde (days):		
RS 232 autosleep enabled: Yes No			Available memory in sonde (days):		
Post-Calibration Check					
Date:		Time:		Employee Name:	
Battery Voltage:			Sonde Type and Serial No.:		
Function	Temp. of Standard	Value of Standard	Initial Reading	Comments	
Specific conductance					
pH calibrated (~7)					
pH slope (~ 4/10)					
Dissolved oxygen (% sat) *					
Barometric pressure _____ inches _____ mm			Were data associated with this cal/post-cal used? Yes No		
Check previous maintenance and use; do the following before calibration as scheduled:					
Brush conductivity cell. Must be cleaned within the last two months or once every 15 field trips or deployment days.			Date:	Name/comments:	
Inspect DO membrane for nicks or bubbles. Must be changed within last six months or once every 15 field trips or deployment days.			Date:	Name/comments:	
Temperature: Check temperature as part of routine maintenance against NIST traceable thermometer			Date:	Thermometer:	Sonde: Difference:
Location of Deployment, Routine Run, or Special Study:			Date/Time Deployed:		Date/Time Retrieved:
Use (circle one):	24-hour	Continuous	Grab	Referee	