APPENDIX 5:

FIELD METER CALIBRATION SHEET

Appendix 5. Field Meter Calibration Sheet.

Water Quality Monitoring Field Meter Calibration Sheet

Collector(s):

Study:

Sampling Location:

Meter Model:

Meter / Sonde Serial No:

	Date yy/mm/dd	Time 24hr hh:mm	Initials
Pre-Sampling Calibration			
Post-Sampling Check			

Miscellaneous (Does not apply to YSI or Accumet Meters)

	Battery Level (V)		Stirrer Working?
Pre-Sampling Calibration			Y / N
Post-Sampling Check			Y / N

Battery Ranges = Surveyor: internal- 7.2-7.5V, external- 11-13V; Quanta: 4.0-4.5V

Barometer Calibration (mmHg)

**YSI Pro Plus Meters Only*

Initial Reading	Calibrated Value

Dissolved Oxygen (mg/L)

	Temp. °C	Initial % Saturation	Barometric Pressure (mmHg)	Altitude (ft.)	D.O. Table Value	Initial Meter Reading (mg/L)	Calibrated Meter Reading (mg/L)	Calibrated % Saturation
Pre-Sampling Calibration								
Post-Sampling Check								
					Within ± 0.5 ? Y / N			

Specific Conductance (µS/cm at 25°C)

	Dry Air [1, 2] Zero (0)		Lot #: Conductivity Standard [3] Value: _____		Lot #: Calibration Check Value: _____
	Initial Meter Reading	Calibrated [4] Meter Reading	Initial Meter Reading	Calibrated [4] Meter Reading	Initial Meter Reading
Pre-Sampling Calibration					
Post-Sampling Check	Within ± 2? Y / N		Within ±10%? Y / N		Within ±10% Y / N

±10% Ranges for Sp. Cond.

Standard	Range
100	90 to 110
447	402 to 492
1,000	900 to 1,100
10,000	9,000 to 11,000
15,000	13,500 to 16,500
58,670	52,803 to 64,537

NOTE: Quanta reads in mS/cm; move decimal 3 places right for µS/cm.

[1] Dry Air CALIBRATIONS are conducted for 4a and MS5 Hydrolabs only.

[2] Dry Air CHECKS (confirmation of zero in dry air) are conducted for YSI 85, YSI 6920, YSI Pro Plus & Quanta meters.

[3] Conductivity standards are used to CHECK the YSI 85 meter and to CALIBRATE all Hydrolab meters and the YSI 6920 & YSI Pro Plus.

[4] Does not apply to Dry Air CHECKS or Conductivity Standard CHECKS (leave blank).

pH (SU)

	Lot #: Buffer #1 7.0 Buffer Temp: _____		Lot #: Buffer #2 4.0 / 10.0 Buffer Temp: _____		Slope Efficiency[5]	Confirmation Buffer 7.0
	Initial Meter Reading	Calibrated Meter Reading	Initial Meter Reading	Calibrated Meter Reading		Meter Reading
Pre-Sampling Calibration						
Post-Sampling Check	Within ± 0.2? Y / N		Within ± 0.2? Y / N			Within ± 0.1? Y / N

[5] Slope efficiency applies to Accumet meters only (does not apply to Hydrolab or YSI meters).

Comments: