Hydrolab Quanta Pre/Post-Calibration Check: SpCond, DO, pH, Turbidity

Streamkeepers of Clallam County, WA (USA) 360-417-2281 streamkeepers@co.clallam.wa.us -- Last revised 1/27/11

Episode type: SK_grabtours / Other: _____ **Episode descriptor**--season/year: _____

Tour type: CWD_Hydrolab_checks / Other: _____   **Tour ID (from database entry):**

Pre-Sampling Calibration/Checks		Post-Sampling Quality Checks	
Visit ID (from database entry):		**Visit ID (from database entry):**	

Site: Wet Lab Generic   **Date:** / /   **Time (mil):** | **Date:** / /   **Time:**

Chief Sampler (initials + last name)**:** | **Chief Sampler:**

Other samplers: | **Others:**

Batch ID (from database entry)**:**			
Voltage check: County Meter:	JS Tribe Meter:	County Meter:	JS Tribe Meter:

(replace batteries if <3.5 V if you're going to use the stirrer; if not, 3 V should suffice)

Specific Conductivity (1 point Calibration)

Standard Information:	Strength	Lot		Expiration	Strength	Lot		Expiration

	County EH Meter		JS Tribe Meter		County EH Meter		JS Tribe Meter	
Pre-calibration SpC (mS/cm^2)								
Post-calibration SpC (mS/cm^2)								

DO (1 point Saturated-Air Calibration)

*Local barometric pressure, mmHg (mm= in X 25.4): [____] mmHg   [____] mmHg

Barometer owner/model/label:

	County EH Meter		JS Tribe Meter		County EH Meter		JS Tribe Meter	
Pre-calibration DO (mg/l):								
Temp at stabilization (°C):								
Post-calibration DO (mg/l):								
Expected DO from chart (mg/l):								

pH (2 point Calibration)

Standard Information:	Strength	Lot		Expiration	Strength	Lot		Expiration
	7							
* use if anticipated results > 7	10*							
** use if anticipated results < 7	4**							

		County EH Meter		JS Tribe Meter		County EH Meter		JS Tribe Meter	
		Pre-Cal	Post-Cal	Pre-Cal	Post-Cal	Pre-Cal		Pre-Cal	
	pH 7								
Slope	pH 10*								
	pH 4**								

Turbidity (2 point Calibration)

Standard Information:	Strength	Lot		Expiration	Strength	Lot		Expiration
	0							
(Upper)								

	County EH Meter		JS Tribe Meter		County EH Meter		JS Tribe Meter	
	0	Upper	0	Upper	0	Upper	0	Upper
Pre-calibration NTU:								
Post-calibration NTU:								

Hydrolab Quanta DO Calibration / Check Sheet

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Calibration and Calibration-Check activities to be performed with Hydrolab Quanta meters (incl. Winkler titration check). Winkler checks may be performed by Streamkeepers' regular equipment-calibration team on a quarterly basis; when this occurs, the data will be entered on Streamkeepers' regular DO/Winkler check data sheet.

NOTE: Conductivity precision can be checked by comparing field readings from the different meters below.

Chief Sampler:		**Other Samplers:**	
Date:	**Site:**		

DO Calibration

	County EH Meter	JS Tribe Meter		
DO membrane replaced? (Y / N)				
Pre-calibration DO %				
Pre-calibration DO mg/l				
Calibrated* successfully? (Y / N)				

*Local barometric pressure used in calibration: _____ mmHg (if barometer reads inHg, multiply by 25.4).

Barometer used: Owner: _____   Model: _____   Label: _____

Side-by-side meter readings taken with Winkler titrations

Pre Winkler Readings			
County EH Meter	JS Tribe Meter		
Time (mil)			
DO %			
DO mg/l			
SpC			

Post Winkler Readings			
County EH Meter	JS Tribe Meter		
Time (mil)			
DO %			
DO mg/l			
SpC			

Winkler titrations

	Time	Thiosulfate titration volume	Biiodate Volume	Normality Check Volume	Comments: (If data not usable, explain why)
Winkler 1					
Winkler 2					
Winkler 3					

Chemical Information:	Strength	Lot	Expiration
Sodium Thiosulfate			
Potassium Biiodate			
Sodium Sulfite			

Cal ID#	Initials

After database entry of Winkler side-by-side results, enter Calibration ID# from database: