PO Box 518 620 Applegate St. Philomath, OR 97370



(541) 929-5650 Fax (541) 929-5277 www.wetlabs.com

ECO CDOM Fluorometer Characterization Sheet

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CDOM (Quinine Dihydrate Equivalent) concentration expressed in ppb can be derived using the equation:

CDOM (QSDE) = Scale Factor * (Output - Dark Counts)

	Analog Range 1	Analog Range 2	Analog Range 4 (default)	Digital
Dark Counts	0.086	0.045	0.025 V	64 counts
Scale Factor (SF)	25	50	100 ppb/V	0.0305 ppb/count
Maximum Output	4.96	4.96	4.96 V	16327 counts
Resolution	1.6	1.6	1.6 mV	2.0 counts
Ambient temperature during characterization				22.3 ℃

Analog Range: 1 (most sensitive, 0-4,000 counts), 2 (midrange, 0-8,000 counts), 4 (entire range, 0-16,000 counts).

Dark Counts: Signal output of the meter in clean water with black tape over detector.

SF: Determined using the following equation: $SF = x \div (output - dark counts)$, where x is the concentration of the solution used during instrument characterization. SF is used to derive instrument output concentration from the raw signal output of the fluorometer.

Maximum Output: Maximum signal output the fluorometer is capable of.

Resolution: Standard deviation of 1 minute of collected data.