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FLNTU Characterization Sheet

Date: October 10, 2011 S/N: FLNTU-873

Chlorophyll Scale Factor

Chlorophyll concentration expressed in µg/l can be derived using the equation:

CHL (µg/l) = Scale Factor x (Output - Dark Counts)

	Analog		Digital	
Dark Counts	0.094	V	58	counts
Scale Factor (SF)	6	µg/l/V	0.0071	µg/l/count
Maximum Output	5.00	V	4121	counts
Resolution	1.0	mV	1.0	counts

Ambient temperature during calibration 22.3 ℃

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

SF (CHL): Determined using the following equation: SF = x ÷ (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.