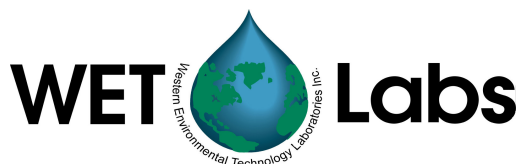


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ECO Phycoerythrin Fluorometer Characterization Sheet

Date: 2/15/2005

Customer: Mary Jane Perry

Job #: 501013

S/N#: **FL3-302**

Phycoerythrin concentration expressed in ppb can be derived using the equation:

$$\text{Phycoerythrin (ppb)} = \text{Scale Factor} * (\text{Output} - \text{Clean Water Offset})$$

Clean Water Offset (CWO)	Digital 58 counts
Scale Factor (SF)	0.0419 ppb/l/count
Maximum Output	4120 counts
Resolution	1.0 counts
Ambient temperature during characterization	23.3 °C

CWO: Clean Water Offset value obtained using pure filtered de-ionized water.

SF: Determined using the following equation: $SF = x \div (\text{output} - \text{CWO})$, 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.