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ECO CDOM Fluorometer Characterization Sheet

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S/N: FLBBCDPML-6566

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

$$\text{CDOM (ppb)} = \text{Scale Factor} * (\text{Output} - \text{Dark Counts})$$

Dark Counts

Digital

Scale Factor (SF)

50 counts

Maximum Output

0.0913 ppb/count

Resolution

4130 counts

1.0 counts

Ambient temperature during characterization

22.5 °C

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

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