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## ECO Phycoerythrin Fluorometer Characterization Sheet

Date: 6/28/2016 S/N: BBFL2W-1481

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

Phycoerythrin (ppb) = Scale Factor \* (Output - Dark Counts)

Dark CountsDigitalDark Counts60 countsScale Factor (SF)0.0426 ppb/countMaximum Output4130 countsResolution1.3 counts

Ambient temperature during characterization 21.3 °C

**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 fluo

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

Resolution: Standard deviation of 1 minute of collected data.

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