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NTU Characterization Sheet

Date: 4/20/2007

Customer: Sea-Bird

Job #: 703036

SO #: 963

S/N:# BBRTD-371R

Nephelometric Turbidity Unit (NTU) Scale Factor

Turbidity units expressed in NTU can be derived using the equation:

$$\text{NTU} = \text{Scale Factor} \times (\text{Output} - \text{Dark Counts})$$

	Analog	Digital
Dark Counts	0.069 V	50 counts
Scale Factor (SF)	19 $\mu\text{g/l/V}$	0.0234 NTU/count
Maximum Output	4.98 V	4122 counts
Resolution	0.3 mV	0.6 counts
Ambient temperature during calibration	20.1	$^{\circ}\text{C}$

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

SF: Scale factor is determined using the following equation: $\text{SF} = \text{xx} \div (\text{Output} - \text{Dark Counts})$, where xx is the value of a Formazin concentration. For example: $12.2 \div (2011 - 50) = 0.0062$.

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

Resolution: standard deviation of 1 minute of collected data.