

FLNTU Characterization Sheet

Date: March 10, 2008

S/N: FLNTURTD-304

Chlorophyll Scale Factor

Chlorophyll concentration expressed in $\mu\text{g/l}$ can be derived using the equation:

$$\text{CHL } (\mu\text{g/l}) = \text{Scale Factor} \times (\text{Output} - \text{Dark Counts})$$

| | Analog | | Digital | |
|----------------------------------------|--------|--------------------|---------|-----------------------|
| Dark Counts | 0.071 | V | 51 | counts |
| Scale Factor (SF) | 10 | $\mu\text{g/l/V}$ | 0.0121 | $\mu\text{g/l/count}$ |
| Maximum Output | 4.99 | V | 4120 | counts |
| Resolution | 0.5 | mV | 0.7 | counts |
| Ambient temperature during calibration | 22.3 | $^{\circ}\text{C}$ | | |

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 | 0.048 | V | 50 | counts |
| NTU Solution Value | 3.66 | V | 3012 | counts |
| Scale Factor (SF) | 5 | NTU/V | 0.0062 | NTU/count |
| Maximum Output | 4.96 | V | 4121 | counts |
| Resolution | 0.7 | mV | 0.8 | counts |
| Ambient temperature during calibration | 22.3 | $^{\circ}\text{C}$ | | |

See reverse side for definition of terms.