PO Box 518 620 Applegate St. Philomath, OR 97370



(541) 929-5650 Fax (541) 929-5277 www.wetlabs.com

Date: July 14, 2009 S/N: WSCD-859

CDOM (Quinine Sulfate Dihydrate Equivalent) concentration expressed in ppb can be derived using the equation:

CDOM (QSDE) (ppb) = Scale Factor x (Output - Clean Water Offset)

Analog output

Clean Water Offset (CWO) 0.070 V @

Scale Factor (SF) 25.7 ppb/V @

Current Draw 40 mA @ 12V (typical)

12-hour Stability 1.55 mV/hr Temperature Stability, 25–2 °C 1.48 mV/°C

Definitions:

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

SF: Determined using the following equation: SF = x/(output - CWO), where x is the concentration of the solution used during the instrument characterization. SF is used to derive instrument output concentration from the raw signal output of the fluorometer.

Maximum Output: Maximum signal output of the fluorometer.

Resolution: Standard deviation of 1 minute of clean water data, sampled once per second. **Ambient Characterization Temperature:** Room temperature at time of characterization.

Current Draw: The amount of current the instrument uses for operation.

12-hour Stability: Deviation of output averaged over 12 hours.

Temperature Stability: Measured output variation per degree.

PO Box 518 620 Applegate St. Philomath, OR 97370



(541) 929-5650 Fax (541) 929-5277 www.wetlabs.com

WETStar Calibration and Repairs

Date July 14, 2009 **Customer** Oregon State University

S/N# WSCD-859 Repair Order 6675

Standard Service

- Performed noise test: 1 sample/sec for 60 sec
- Performed stability test: 1 sample/min for 12 hrs
- Performed temperature test: 25-2 °C
- Performed saturation test
- Shake-tested unit
- Pressure-tested unit
- Updated unit's calibration sheet

Additional Repairs

Replaced Bulkhead Connector, Power Board and O-Rings.

Comments

wsxwkbka1.xls Revision I 4/17/08