

SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

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SENSOR SERIAL NUMBER: 3861
CALIBRATION DATE: 25-Feb-11

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHJ COEFFICIENTS

g = -1.02461340e+001
h = 1.36335330e+000
i = -1.24254575e-003
j = 1.58283501e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.68241397e-006
b = 1.36022278e+000
c = -1.02399258e+001
d = -8.68213607e-005
m = 5.4
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.74365	0.00000	0.00000
-0.9998	34.9481	2.81422	5.31049	2.81421	-0.00001
1.0001	34.9485	2.98619	5.42806	2.98620	0.00001
15.0002	34.9491	4.28619	6.24508	4.28621	0.00002
18.5002	34.9490	4.63409	6.44603	4.63407	-0.00002
29.0002	34.9461	5.72120	7.03679	5.72120	0.00000
32.5002	34.9387	6.09493	7.22861	6.09493	-0.00000

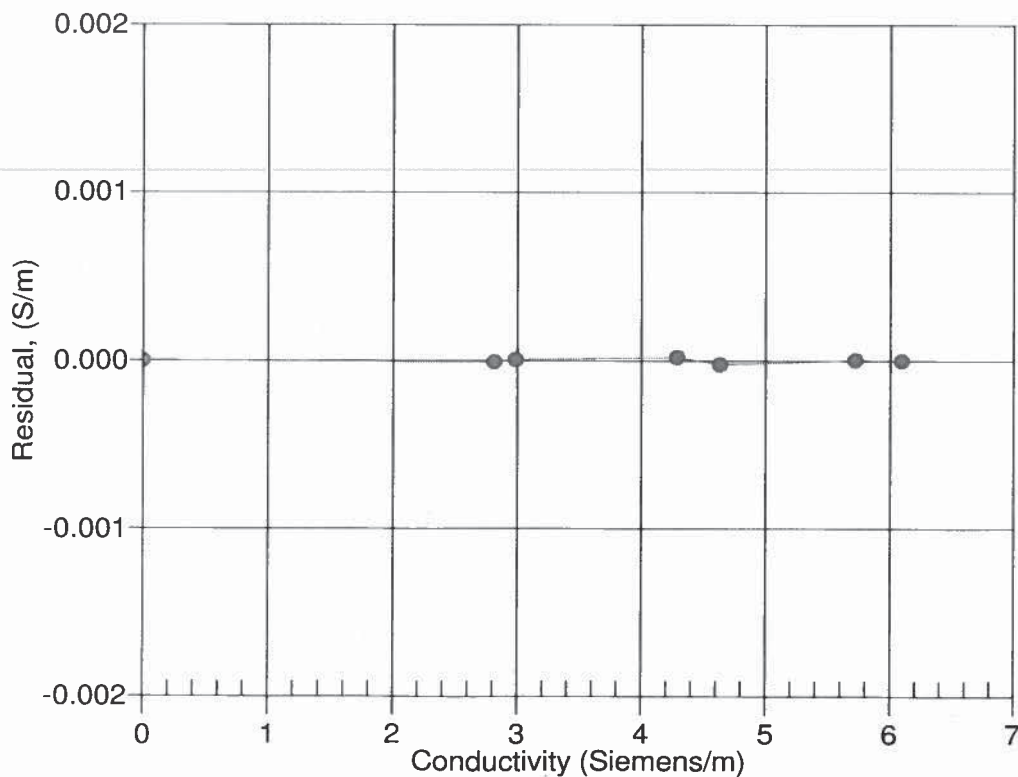
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction





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SBE Pressure Test Certificate

Test Date: 12/3/2010 Description SBE-4 Conductivity Sensor

Job Number: 61831

Customer Name NOAA/AOML

SBE Sensor Information:

Model Number: 04

Serial Number: 3861

Pressure Sensor Information:

Sensor Type: None

Sensor Serial Number: None

Sensor Rating: 0

Pressure Test Protocol:

Low Pressure Test: 40 PSI Held For 15 Minutes

High Pressure Test: 10000 PSI Held For 15 Minutes

Passed Test: ☒

Tested By: ND

