SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1054
CALIBRATION DATE: 03-Nov-09

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

GHIJ COEFFICIENTS

```
g = -4.09501986e+000
h =  5.92232935e-001
i = -5.78727223e-005
j =  3.65158204e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  2.49718693e-005
b =  5.92137733e-001
c = -4.09513025e+000
d = -8.92591088e-005
m =  4.1
CPcor = -9.5700e-008 (nominal)
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.62933	0.00000	0.00000
-0.9999	34.8501	2.80705	7.36003	2.80705	-0.00001
1.0001	34.8501	2.97859	7.55319	2.97861	0.00002
15.0001	34.8516	4.27549	8.87669	4.27546	-0.00004
18.5002	34.8514	4.62254	9.19821	4.62256	0.00002
29.0002	34.8502	5.70727	10.13625	5.70730	0.00003
32.5001	34.8448	6.08041	10.43902	6.08038	-0.00002

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

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

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

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