SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 12-Aug-04

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

GHIJ COEFFICIENTS

```
g = -3.84502136e+000
h =  4.15555114e-001
i =  1.78043248e-005
j =  1.99525164e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  2.73137646e-005
b =  4.15552451e-001
c = -3.84479489e+000
d = -8.05014471e-005
m =  3.9
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	3.04096	0.00000	0.00000
-1.0003	34.8612	2.80783	8.74706	2.80783	0.00000
0.9997	34.8615	2.97943	8.97818	2.97944	0.00000
14.9997	34.8628	4.27668	10.56052	4.27667	-0.00002
18.4997	34.8628	4.62384	10.94457	4.62385	0.00001
28.9997	34.8618	5.70890	12.06456	5.70891	0.00001
32.4997	34.8573	6.08230	12.42605	6.08229	-0.00001

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