SEA-BIRD ELECTRONICS, INC.

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

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 2356
CALIBRATION DATE: 19-Jul-11

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

GHIJ COEFFICIENTS

```
g = -1.00758804e+001
h =  1.46758423e+000
i =  1.11929059e-003
j =  2.13760395e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  1.34630946e-003
b =  1.46692566e+000
c = -1.00743673e+001
d = -8.07672812e-005
m =  3.0
CPcor = -9.5700e-008 (nominal)
```

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	2.61749	0.00000	0.00000
-1.0000	34.8725	2.80868	5.08854	2.80866	-0.00002
1.0000	34.8731	2.98036	5.20152	2.98039	0.00004
15.0000	34.8740	4.27794	5.98616	4.27792	-0.00002
18.5000	34.8739	4.62518	6.17915	4.62516	-0.00002
29.0000	34.8710	5.71027	6.74646	5.71034	0.00007
32.5000	34.8637	6.08332	6.93061	6.08327	-0.00005

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