Sea-Bird Electronics, Inc.

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

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 3854
CALIBRATION DATE: 06-Feb-14

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

GHIJ COEFFICIENTS

```
g = -1.04135442e+001
h =  1.58208445e+000
i = -1.09536279e-003
j =  1.79416667e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  1.19071312e-005
b =  1.57967400e+000
c = -1.04096365e+001
d = -8.59582706e-005
m =  4.9
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	2.56690	0.00000	0.00000
-1.0000	34.8231	2.80507	4.93238	2.80508	0.00001
1.0000	34.8230	2.97648	5.04096	2.97647	-0.00001
15.0000	34.8198	4.27200	5.79593	4.27201	0.00002
18.5000	34.8185	4.61863	5.98166	4.61863	-0.00000
29.0001	34.8156	5.70223	6.52798	5.70220	-0.00002
32.5000	34.8062	6.07443	6.70529	6.07444	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