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: 1246
CALIBRATION DATE: 17-Apr-12

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g = -1.031214e+000
h =  1.517185e-001
i = -1.290052e-004
j =  3.592493e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -2.7464e-005
```

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2608.66	0.00000	0.00000
1.0000	34.9254	2.98440	5139.92	2.98444	0.00004
4.5000	34.9048	3.29225	5332.70	3.29221	-0.00004
15.0000	34.8606	4.27647	5906.48	4.27645	-0.00003
18.5000	34.8510	4.62247	6095.16	4.62248	0.00000
24.0000	34.8405	5.18183	6388.15	5.18185	0.00002
29.0000	34.8344	5.70495	6650.22	5.70498	0.00003
32.5000	34.8308	6.07823	6830.90	6.07821	-0.00003

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

Residual = instrument conductivity - bath conductivity