# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4139
CALIBRATION DATE: 18-Jun-10

SBE16plus CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g = -1.005861e+000
h =  1.384582e-001
i = -4.713435e-004
j =  5.233703e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
```

| 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 | 2704.04 | 0.0000 | 0.00000 |
| 1.0000 | 34.7864 | 2.97365 | 5381.01 | 2.9737 | 0.00001 |
| 4.5000 | 34.7662 | 3.28046 | 5584.18 | 3.2804 | -0.00001 |
| 14.9999 | 34.7226 | 4.26132 | 6188.34 | 4.2613 | -0.00000 |
| 18.5000 | 34.7127 | 4.60611 | 6386.85 | 4.6061 | 0.00000 |
| 24.0000 | 34.7018 | 5.16347 | 6694.96 | 5.1635 | 0.00000 |
| 29.0000 | 34.6953 | 5.68473 | 6970.41 | 5.6847 | 0.00001 |
| 32.5000 | 34.6913 | 6.05665 | 7160.23 | 6.0566 | -0.00001 |

f = INST FREQ / 1000.0

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

t = temperature[°C)]; p = pressure[decibars]; $\delta$ = CTcor; $\varepsilon$ = CPcor;

Residual = instrument conductivity - bath conductivity