

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0471
 CALIBRATION DATE: 30-May-07

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

COEFFICIENTS:

g = -1.054265e+000	CPcor = -9.5700e-008
h = 1.506817e-001	CTcor = 3.2500e-006
i = -4.197153e-004	WBOTC = -7.2184e-005
j = 5.556333e-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	2653.59	0.00000	0.00000
1.0000	34.8962	2.98214	5187.63	2.98215	0.00001
4.5000	34.8755	3.28976	5381.79	3.28975	-0.00000
15.0000	34.8316	4.27329	5959.91	4.27327	-0.00002
18.4999	34.8223	4.61907	6150.13	4.61909	0.00002
24.0000	34.8124	5.17811	6445.58	5.17810	-0.00001
29.0000	34.8073	5.70101	6709.98	5.70103	0.00002
32.5000	34.8048	6.07421	6892.34	6.07420	-0.00001

$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

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

$$t = \text{temperature}[^{\circ}\text{C}]; p = \text{pressure}[\text{decibars}]; \delta = \text{CTcor}; \epsilon = \text{CPcor};$$

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

