SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 0219
CALIBRATION DATE: 04-Aug-09

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -1.010200e+000
h =  1.550725e-001
i =  3.801211e-004
j =  1.151896e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -2.4451e-005
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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	2544.48	0.00000	0.00000
1.0000	34.8118	2.97562	5034.22	2.97564	0.00003
4.5000	34.7922	3.28267	5223.19	3.28266	-0.00002
15.0000	34.7499	4.26433	5785.26	4.26430	-0.00003
18.5000	34.7409	4.60944	5970.03	4.60944	-0.00001
23.9999	34.7312	5.16735	6256.90	5.16739	0.00004
29.0000	34.7262	5.68922	6513.47	5.68923	0.00001
32.5000	34.7239	6.06170	6690.41	6.06168	-0.00002

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