Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0455
CALIBRATION DATE: 13-Apr-17

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

COEFFICIENTS:

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g = -9.918158e-001
h =  1.292346e-001
i = -5.291093e-004
j =  5.357894e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  8.9947e-008
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BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2781.69	0.00000	0.00000
1.0000	34.6977	2.96679	5562.30	2.96681	0.00002
4.5000	34.6783	3.27298	5773.04	3.27297	-0.00001
14.9999	34.6363	4.25185	6399.52	4.25182	-0.00003
18.5000	34.6275	4.59602	6605.36	4.59602	0.00001
24.0001	34.6179	5.15238	6924.76	5.15240	0.00002
28.9999	34.6129	5.67273	7210.25	5.67274	0.00001
32.5000	34.6104	6.04413	7407.01	6.04412	-0.00002

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity