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SENSOR SERIAL NUMBER: 0827
CALIBRATION DATE: 10-Oct-18

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

COEFFICIENTS:

g = -1.036634e+000
h = 1.588140e-001
i = -1.016907e-004
j = 3.714727e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7313e-005

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	2555.78	0.00000	0.00000
1.0000	34.8515	2.97869	5021.59	2.97870	0.00001
4.5000	34.8317	3.28603	5209.63	3.28602	-0.00002
15.0000	34.7894	4.26866	5769.28	4.26866	-0.00001
18.4999	34.7805	4.61412	5953.33	4.61413	0.00000
24.0000	34.7710	5.17263	6239.17	5.17264	0.00001
29.0000	34.7658	5.69498	6494.86	5.69497	-0.00000
32.5000	34.7626	6.06768	6671.17	6.06768	-0.00000

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

