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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 11-Oct-19

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

COEFFICIENTS:

g = -1.097076e+000
h = 1.564709e-001
i = -5.534805e-004
j = 6.705042e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.4742e-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	2658.56	0.00000	0.00000
1.0000	34.8295	2.97699	5120.51	2.97700	0.00002
4.5000	34.8087	3.28408	5310.22	3.28407	-0.00001
15.0000	34.7649	4.26597	5875.51	4.26594	-0.00003
18.5000	34.7553	4.61115	6061.59	4.61114	-0.00001
24.0000	34.7449	5.16918	6350.73	5.16924	0.00006
29.0000	34.7377	5.69089	6609.34	5.69086	-0.00003
32.5000	34.7325	6.06303	6787.74	6.06310	0.00007

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

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

