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SENSOR SERIAL NUMBER: 0269
 CALIBRATION DATE: 08-Feb-24

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

COEFFICIENTS:

g = -1.017057e+000 CPcor = -9.5700e-008
 h = 1.399798e-001 CTcor = 3.2500e-006
 i = -3.545419e-004 WBOTC = 6.7862e-007
 j = 4.700715e-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	2701.42	0.00000	0.00000
1.0000	34.8407	2.97785	5352.76	2.97786	0.00001
4.5000	34.8208	3.28511	5554.17	3.28511	0.00000
15.0000	34.7783	4.26744	6153.18	4.26743	-0.00002
18.5000	34.7690	4.61277	6350.02	4.61276	-0.00001
23.9999	34.7586	5.17098	6655.58	5.17100	0.00002
29.0000	34.7510	5.69283	6928.65	5.69284	0.00001
32.5001	34.7450	6.06497	7116.75	6.06496	-0.00001

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

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

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

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

