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SENSOR SERIAL NUMBER: 0812  
CALIBRATION DATE: 27-Sep-18

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

COEFFICIENTS:

g = -2.478754e+005  
h = 5.400356e+004  
i = 1.104309e+004  
j = -6.833950e+003

CPcor = -9.5700e-008  
CTcor = 3.2500e-006  
WBOTC = -8.0013e-005

| BATH TEMP<br>(° C) | BATH SAL<br>(PSU) | BATH COND<br>(S/m) | INSTRUMENT<br>OUTPUT (Hz) | INSTRUMENT<br>COND (S/m) | RESIDUAL<br>(S/m) |
|--------------------|-------------------|--------------------|---------------------------|--------------------------|-------------------|
| 22.0000            | 0.0000            | 0.00000            | 2673.11                   | 0.04166                  | 0.04166           |
| 1.0000             | 34.8029           | 2.97493            | 2671.56                   | 2.76564                  | -0.20928          |
| 4.5000             | 34.7832           | 3.28191            | 2672.08                   | 3.31702                  | 0.03511           |
| 15.0000            | 34.7407           | 4.26332            | 2673.60                   | 4.78315                  | 0.51983           |
| 18.5000            | 34.7315           | 4.60833            | 2674.14                   | 5.37976                  | 0.77143           |
| 24.0000            | 34.7218           | 5.16612            | 2674.62                   | 4.98505                  | -0.18107          |
| 28.9999            | 34.7163           | 5.68777            | 2675.26                   | 5.35917                  | -0.32860          |
| 32.5000            | 34.7125           | 6.05993            | 2675.65                   | 5.41090                  | -0.64903          |

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

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

