Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3200

SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 01-Aug-15

 COEFFICIENTS:
 A = -3.5499e-003
 NOMINAL DYNAMIC COEFFICIENTS

 Soc = 0.5462
 B = 1.4816e-004
 D1 = 1.92634e-4
 H1 = -3.300000e-2

 Voffset = -0.5086
 C = -2.1733e-006
 D2 = -4.64803e-2
 H2 = 5.00000e+3

 Tau20 = 2.47
 E nominal = 0.036
 H3 = 1.45000e+3

BATH OX (ml/l)	BATH TEMP (ITS-90)	BATH SAL (PSU)	INSTRUMENT OUTPUT (VOLTS)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.13	2.00	0.00	0.723	1.13	-0.00
1.14	5.74	0.00	0.749	1.13	-0.00
1.14	12.00	0.00	0.793	1.14	-0.00
1.15	26.00	0.00	0.890	1.15	0.00
1.15	20.00	0.00	0.850	1.15	-0.00
1.16	30.00	0.00	0.924	1.16	0.00
3.92	2.00	0.00	1.255	3.92	0.00
3.93	5.87	0.00	1.345	3.93	0.00
3.94	12.00	0.00	1.489	3.94	0.00
3.95	20.00	0.00	1.680	3.95	0.00
3.96	26.00	0.00	1.827	3.96	0.00
3.98	30.00	0.00	1.933	3.98	0.00
6.69	20.00	0.00	2.490	6.69	-0.00
6.69	2.00	0.00	1.783	6.69	-0.00
6.71	5.99	0.00	1.942	6.71	0.00
6.72	12.00	0.00	2.182	6.72	-0.00
6.79	29.93	0.00	2.932	6.79	-0.00
6.80	26.00	0.00	2.770	6.80	-0.00

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)

V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU], K = temperature [deg K]

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar]

 $Residual = instrument\ oxygen\ -\ bath\ oxygen$

