

Table 5-3 Summary of OctoAir-10™ Test Results

DATE: RUN:	1-Aug-11 22	1-Aug-11 23	2-Aug-11 24	8/84/2011 27	4-Aug-11 26	3-Aug-11 25	11-Jul-11 19	12-Jul-11 20	13-Jul-11 21
Barometric Pres. (PSIA)	14.42	14.40	14.36	14.33	14.37	14.35	14.38	14.38	14.39
Ambient Temperature (°F)	92.9	88.0	85.0	82.5	87.9	87.6	86.8	83.2	85.1
Relative Humidity (%)	0.53	0.50	0.48	0.55	0.53	0.51	0.59	0.57	0.55
Line Pressure (PSIG)	8.90	7.67	7.00	6.50	5.89	4.86	3.20	2.68	4.43
Line Temperature (°F)	115	99	89	113	95	92	96	92	112
Water Temp. (°C)	26.81	26.99	27.16	26.99	27.78	27.73	25.76	26.35	26.67
Number Of Aeration Devices	100	100	100	100	100	100	100	100	100
Air Release Depth (ft)	15.00	15.00	15.00	10.00	10.00	10.00	5.00	5.00	5.00
Blower HPwire	0.69	0.32	0.14	0.49	0.25	0.09	0.13	0.06	0.33
Average Air Flow (SCFM)	10.77	5.66	2.63	10.02	5.59	2.48	5.07	2.61	9.73
Average Air Flow (SCFM/ft)	0.11	0.06	0.03	0.10	0.06	0.02	0.05	0.03	0.10
C*20 Standard Conditions	10.72	10.71	10.64	10.15	10.17	10.18	9.63	9.63	9.61
Tank Volume (Ft³)	5,195	5,195	5,195	3,464	3,464	3,464	1,934	1,934	1,934
TDS (mg/L)	325	410	506	778	681	596	331	416	503
KLa20 (hr⁻¹)	0.56	0.34	0.25	0.69	0.50	0.30	0.63	0.43	0.92
TDS Corrected Results									
KLa20 (hr⁻¹)	0.60	0.36	0.26	0.71	0.52	0.31	0.67	0.45	0.97
SOTR (Lb O₂/Hr)	2.1	1.3	0.9	1.6	1.1	0.7	0.8	0.5	1.1
SOTE OBSERVED (%)	18.6%	21.6%	32.7%	15.0%	19.6%	26.3%	14.9%	19.4%	11.1%
SOTE (%/Ft)	1.24%	1.44%	2.18%	1.50%	1.96%	2.63%	2.97%	3.88%	2.23%
SAE (Lb O₂/Hr/HP)	3.00	3.96	6.49	3.17	4.56	7.28	6.08	9.40	3.37
Metric Results (TDS Corrected)									
Air Flow (Nm³/h)	16.92	8.88	4.14	15.74	8.78	3.90	7.97	4.10	15.29
SOTR (g/Hr)	943.1	573.3	404.2	705.3	515.8	306.7	354.2	237.7	510.0
SOTE - %/m	4.07%	4.72%	7.14%	4.91%	6.45%	8.62%	9.75%	12.72%	7.32%