Appendix E. Long term trends in phytoplankton bioindicators at all stations and for all seasons, for the period of 1985 through 2006. Layer abbreviation is: AP=Above Pycnocline. See the method section of the report for definitions of Seasons. "N.E." in the Percent Change column indicates "No Estimate" was made for the percent change due to a zero value for the parameter baseline.

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Annual	AP	Total Abundance	0.0826	4.42E+05	2.12E+07	43.69	0.0057	No Trend
TF5.5	Annual	AP	Total Biomass	<0.0001	4.63E+07	5.09E+08	190.78	0.5554	Increasing
TF5.5	Annual	AP	Biomass to Abundance Ratio	<0.0001	1.544	28.269	114.73	0.6873	Improving
TF5.5	Annual	AP	Margalef Diversity Index	0.1556	-0.009	2.39	-8.30	0.8210	No Trend
TF5.5	Annual	AP	Diatom Biomass	0.0011	1.88E+07	3.44E+08	114.99	0.6004	Improving
TF5.5	Annual	AP	Dinoflagellate Biomass	0.1176	0	7.00E+05	0.00	0.6151	No Trend
TF5.5	Annual	AP	Cyanobacteria Biomass	0.0020	6.61E+05	1.62E+07	85.59	0.5090	Degrading
TF5.5	Annual	AP	Chlorophyte Biomass	<0.0001	1.72E+07	1.37E+07	2634.33	0.9929	Improving
TF5.5	Annual	AP	Picoplankton Biomass	0.0003	-1.45E+06	7.68E+07	-33.92	0.2867	Improving
TF5.5	Annual	AP	Cryptophyte Biomass	0.0271	4.64E+05	1.03E+07	94.86	0.5536	No Trend
TF5.5	Annual	AP	Cyanobacteria Abundance	0.0022	9.02E+04	4.51E+06	41.99	0.3180	Degrading
TF5.5	Annual	AP	Number of Species per Replicate	0.5529	-0.07	40.00	-3.89	0.8230	No Trend
TF5.5	Annual	AP	Pielou's Evenness	<0.0001	0.009	0.50	36.46	0.3585	Improving
TF5.5	Annual	AP	Shannon Weiner Diversity Index	<0.0001	0.037	2.44	32.14	0.7703	Improving
TF5.5	Annual	AP	Diatom Abundance	0.8282	1.14E+04	8.26E+06	2.90	0.0069	No Trend
TF5.5	Annual	AP	Dinoflagellate Abundance	0.7402	0	1.66E+03	0.00	0.8414	No Trend
TF5.5	Annual	AP	Chlorophyte Abundance	<0.0001	1.61E+05	7.72E+05	436.84	0.9148	Improving
TF5.5	Annual	AP	Cryptophyte Abundance	<0.0001	5.17E+04	4.28E+05	254.00	0.6108	Increasing
TF5.5	Annual	AP	Number of Genera per replicate	0.6705	0.000	32.00	0.00	0.3437	No Trend
TF5.5	Annual	AP	Picoplankton Abundance	0.0003	-9.65E+05	5.12E+07	-33.92	0.2867	Improving
RET5.2	Annual	AP	Total Abundance	0.6829	6.56E+04	7.43E+06	18.55	0.0717	No Trend
RET5.2	Annual	AP	Total Biomass	0.0001	2.07E+07	1.68E+08	258.14	0.0684	Increasing
RET5.2	Annual	AP	Biomass to Abundance Ratio	<0.0001	1.203	19.272	131.08	0.9967	Improving
RET5.2	Annual	AP	Margalef Diversity Index	<0.0001	-0.033	1.65	-41.73	0.6106	Degrading
RET5.2	Annual	AP	Diatom Biomass	0.0117	8.81E+06	1.18E+08	157.29	0.1847	No Trend
RET5.2	Annual	AP	Dinoflagellate Biomass	0.9006	0	4.79E+05	0.00	0.4878	No Trend
RET5.2	Annual	AP	Cyanobacteria Biomass	0.5045	7.73E+04	3.58E+06	45.35	0.7687	No Trend
RET5.2	Annual	AP	Chlorophyte Biomass	<0.0001	3.21E+06	1.76E+06	3824.32	0.1910	Improving
RET5.2	Annual	AP	Picoplankton Biomass	<0.0001	-2.69E+06	1.14E+08	-42.65	0.0498	Improving
RET5.2	Annual	AP	Cryptophyte Biomass	0.0045	7.71E+05	1.44E+07	112.59	0.9318	Increasing
RET5.2	Annual	AP	Cyanobacteria Abundance	0.6684	-7.39E+03	7.15E+05	-21.71	0.3318	No Trend
RET5.2	Annual	AP	Number of Species per Replicate	<0.0001	-0.53	28.50	-38.78	0.2095	Degrading
RET5.2	Annual	AP	Pielou's Evenness	0.0005	0.005	0.55	18.43	0.7086	Improving
RET5.2	Annual	AP	Shannon Weiner Diversity Index	0.1852	0.010	2.67	7.53	0.6581	No Trend
RET5.2	Annual	AP	Diatom Abundance	0.5045	-4.15E+04	5.52E+06	-15.77	0.1382	No Trend
RET5.2	Annual	AP	Dinoflagellate Abundance	0.5882	0	7.04E+02	0.00	0.4842	No Trend
RET5.2	Annual	AP	Chlorophyte Abundance	<0.0001	7.01E+04	1.04E+05	1417.44	0.0287	Improving
RET5.2	Annual	AP	Cryptophyte Abundance	<0.0001	5.44E+04	5.99E+05	190.63	0.7984	Increasing
RET5.2	Annual	AP	Number of Genera per replicate	0.0013	-0.333	24.00	-29.17	0.3106	Degrading
RET5.2	Annual	AP	Picoplankton Abundance	<0.0001	-1.79E+06	7.58E+07	-42.65	0.0498	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Annual	AP	Total Abundance	0.0059	9.12E+04	5.07E+06	39.60	0.1796	Increasing
LE5.5	Annual	AP	Total Biomass	0.0066	7.01E+06	2.35E+08	65.55	0.0903	Increasing
LE5.5	Annual	AP	Biomass to Abundance Ratio	0.2634	0.432	47.312	20.07	0.0956	No Trend
LE5.5	Annual	AP	Margalef Diversity Index	0.0276	-0.016	2.50	-13.85	0.2567	No Trend
LE5.5	Annual	AP	Diatom Biomass	0.0026	5.30E+06	1.61E+08	72.18	0.1935	Improving
LE5.5	Annual	AP	Dinoflagellate Biomass	0.0062	1.04E+06	2.08E+07	110.00	0.3674	Degrading
LE5.5	Annual	AP	Cyanobacteria Biomass	<0.0001	3.60E+04	5.08E+02	156025.22	0.3543	Degrading
LE5.5	Annual	AP	Chlorophyte Biomass	0.0637	0	5.83E+03	0.00	0.9103	No Trend
LE5.5	Annual	AP	Picoplankton Biomass	0.1262	-2.03E+05	6.89E+07	-5.31	0.9829	No Trend
LE5.5	Annual	AP	Cryptophyte Biomass	0.3754	-1.29E+05	2.02E+07	-14.02	0.2033	No Trend
LE5.5	Annual	AP	Cyanobacteria Abundance	<0.0001	5.39E+03	1.43E+04	829.73	0.7405	Degrading
LE5.5	Annual	AP	Number of Species per Replicate	0.0161	-0.21	39.00	-12.09	0.2953	No Trend
LE5.5	Annual	AP	Pielou's Evenness	<0.0001	0.008	0.43	39.86	0.6538	Improving
LE5.5	Annual	AP	Shannon Weiner Diversity Index	<0.0001	0.029	2.27	27.80	0.6111	Improving
LE5.5	Annual	AP	Diatom Abundance	0.1174	4.12E+04	3.61E+06	25.14	0.0204	No Trend
LE5.5	Annual	AP	Dinoflagellate Abundance	0.0062	3.53E+03	9.40E+04	82.51	0.5928	Degrading
LE5.5	Annual	AP	Chlorophyte Abundance	<0.0001	5.48E+03	1.60E+02	75328.00	0.7036	Improving
LE5.5	Annual	AP	Cryptophyte Abundance	0.0152	1.54E+04	8.80E+05	38.39	0.1234	No Trend
LE5.5	Annual	AP	Number of Genera per replicate	0.0599	-0.125	31.50	-8.73	0.5734	No Trend
LE5.5	Annual	AP	Picoplankton Abundance	0.1262	-1.36E+05	4.60E+07	-5.31	0.9829	No Trend
SBE5	Annual	AP	Total Abundance	0.2731	3.44E+04	2.55E+06	24.24	0.0875	No Trend
SBE5	Annual	AP	Total Biomass	0.9031	8.27E+04	7.63E+07	1.95	0.0260	No Trend
SBE5	Annual	AP	Biomass to Abundance Ratio	0.7315	-0.083	25.784	-5.82	0.0479	No Trend
SBE5	Annual	AP	Margalef Diversity Index	0.0016	-0.026	2.40	-19.51	0.0802	Degrading
SBE5	Annual	AP	Diatom Biomass	0.5724	4.78E+05	4.44E+07	19.37	0.0271	No Trend
SBE5	Annual	AP	Dinoflagellate Biomass	0.8162	-1.45E+04	8.66E+06	-3.01	0.6282	No Trend
SBE5	Annual	AP	Cyanobacteria Biomass	<0.0001	6.86E+04	1.03E+05	1196.98	0.8798	Degrading
SBE5	Annual	AP	Chlorophyte Biomass	0.5037	0	2.76E+05	0.00	0.5392	No Trend
SBE5	Annual	AP	Picoplankton Biomass	0.7433	2.46E+04	2.69E+07	1.65	0.2422	No Trend
SBE5	Annual	AP	Cryptophyte Biomass	0.8507	3.12E+04	1.37E+07	4.08	0.9246	No Trend
SBE5	Annual	AP	Cyanobacteria Abundance	0.0020	5.34E+03	7.87E+03	1222.16	0.6303	Degrading
SBE5	Annual	AP	Number of Species per Replicate	0.0019	-0.33	35.00	-17.14	0.1262	Degrading
SBE5	Annual	AP	Pielou's Evenness	0.1294	0.002	0.57	6.42	0.4366	No Trend
SBE5	Annual	AP	Shannon Weiner Diversity Index	0.7650	-0.002	2.94	-1.26	0.6800	No Trend
SBE5	Annual	AP	Diatom Abundance	0.5875	-8.17E+03	1.44E+06	-10.24	0.0141	No Trend
SBE5	Annual	AP	Dinoflagellate Abundance	0.4254	1.30E+03	9.05E+04	25.86	0.6131	No Trend
SBE5	Annual	AP	Chlorophyte Abundance	<0.0001	4.99E+03	1.04E+04	863.73	0.8984	Improving
SBE5	Annual	AP	Cryptophyte Abundance	0.0087	1.93E+04	5.73E+05	60.81	0.5419	Increasing
SBE5	Annual	AP	Number of Genera per replicate	0.0012	-0.333	32.50	-18.46	0.0676	Degrading
SBE5	Annual	AP	Picoplankton Abundance	0.7433	1.64E+04	1.79E+07	1.65	0.2422	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Annual	AP	Total Abundance	0.0007	1.24E+05	3.32E+06	74.92	0.9750	Increasing
TF4.2	Annual	AP	Total Biomass	0.0018	4.93E+06	1.00E+08	98.49	0.8326	Increasing
TF4.2	Annual	AP	Biomass to Abundance Ratio	0.8883	0.077	32.221	4.80	0.7597	No Trend
TF4.2	Annual	AP	Margalef Diversity Index	0.0179	-0.016	1.85	-17.76	0.2134	No Trend
TF4.2	Annual	AP	Diatom Biomass	0.0678	1.94E+06	8.67E+07	44.80	0.9382	No Trend
TF4.2	Annual	AP	Dinoflagellate Biomass	0.9380	0	1.55E+05	0.00	0.3038	No Trend
TF4.2	Annual	AP	Cyanobacteria Biomass	0.0001	9.92E+04	3.65E+05	543.61	0.0605	Degrading
TF4.2	Annual	AP	Chlorophyte Biomass	<0.0001	3.46E+05	8.71E+05	793.71	0.7661	Improving
TF4.2	Annual	AP	Picoplankton Biomass	0.0646	-3.95E+05	3.84E+07	-18.53	0.9763	No Trend
TF4.2	Annual	AP	Cryptophyte Biomass	0.0098	4.59E+05	8.55E+06	107.46	0.7370	Increasing
TF4.2	Annual	AP	Cyanobacteria Abundance	0.0023	1.46E+04	5.84E+04	499.90	0.0606	Degrading
TF4.2	Annual	AP	Number of Species per Replicate	0.0731	-0.17	29.00	-11.49	0.2232	No Trend
TF4.2	Annual	AP	Pielou's Evenness	0.0819	0.003	0.56	9.07	0.4262	No Trend
TF4.2	Annual	AP	Shannon Weiner Diversity Index	0.7052	0.003	2.74	2.12	0.6224	No Trend
TF4.2	Annual	AP	Diatom Abundance	0.7704	3.15E+03	1.38E+06	4.58	0.9710	No Trend
TF4.2	Annual	AP	Dinoflagellate Abundance	0.9734	0	6.40E+02	0.00	0.1534	No Trend
TF4.2	Annual	AP	Chlorophyte Abundance	<0.0001	1.68E+04	3.89E+04	864.84	0.8199	Improving
TF4.2	Annual	AP	Cryptophyte Abundance	<0.0001	3.30E+04	3.70E+05	178.14	0.8843	Increasing
TF4.2	Annual	AP	Number of Genera per replicate	0.2449	-0.077	25.00	-6.15	0.2661	No Trend
TF4.2	Annual	AP	Picoplankton Abundance	0.0646	-2.64E+05	2.56E+07	-18.53	0.9763	No Trend
RET4.3	Annual	AP	Total Abundance	0.0261	1.90E+05	7.86E+06	50.68	0.3764	No Trend
RET4.3	Annual	AP	Total Biomass	0.0082	9.24E+06	3.30E+08	58.82	0.7333	Increasing
RET4.3	Annual	AP	Biomass to Abundance Ratio	0.1261	0.296	31.871	19.54	0.7496	No Trend
RET4.3	Annual	AP	Margalef Diversity Index	0.0676	-0.010	1.61	-12.97	0.1779	No Trend
RET4.3	Annual	AP	Diatom Biomass	0.0138	6.30E+06	1.85E+08	71.54	0.2339	No Trend
RET4.3	Annual	AP	Dinoflagellate Biomass	0.8580	8.09E+03	1.99E+07	0.85	0.8453	No Trend
RET4.3	Annual	AP	Cyanobacteria Biomass	<0.0001	1.94E+05	9.01E+05	451.26	0.6392	Degrading
RET4.3	Annual	AP	Chlorophyte Biomass	<0.0001	3.77E+05	1.40E+03	563737.97	0.5620	Improving
RET4.3	Annual	AP	Picoplankton Biomass	0.0565	-5.90E+05	4.25E+07	-24.99	0.4937	No Trend
RET4.3	Annual	AP	Cryptophyte Biomass	0.3158	3.14E+05	1.93E+07	34.05	0.1072	No Trend
RET4.3	Annual	AP	Cyanobacteria Abundance	<0.0001	2.29E+04	1.94E+05	247.12	0.8093	Degrading
RET4.3	Annual	AP	Number of Species per Replicate	0.2017	-0.11	27.00	-8.64	0.1165	No Trend
RET4.3	Annual	AP	Pielou's Evenness	0.0676	0.002	0.54	9.27	0.5942	No Trend
RET4.3	Annual	AP	Shannon Weiner Diversity Index	0.4994	0.006	2.47	4.84	0.1135	No Trend
RET4.3	Annual	AP	Diatom Abundance	0.1120	6.70E+04	4.50E+06	31.27	0.1770	No Trend
RET4.3	Annual	AP	Dinoflagellate Abundance	0.3764	-1.48E+03	1.50E+05	-20.66	0.9832	No Trend
RET4.3	Annual	AP	Chlorophyte Abundance	<0.0001	3.01E+04	1.28E+02	493625.28	0.7093	Improving
RET4.3	Annual	AP	Cryptophyte Abundance	0.0051	3.01E+04	8.06E+05	78.44	0.0712	Increasing
RET4.3	Annual	AP	Number of Genera per replicate	0.2678	-0.071	24.50	-6.12	0.1277	No Trend
RET4.3	Annual	AP	Picoplankton Abundance	0.0565	-3.94E+05	2.84E+07	-24.99	0.4937	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Annual	AP	Total Abundance	0.4630	2.87E+04	6.09E+06	10.37	0.8138	No Trend
WE4.2	Annual	AP	Total Biomass	0.3822	2.20E+06	3.59E+08	13.46	0.6859	No Trend
WE4.2	Annual	AP	Biomass to Abundance Ratio	0.8339	-0.092	45.338	-4.47	0.6346	No Trend
WE4.2	Annual	AP	Margalef Diversity Index	<0.0001	-0.037	2.61	-30.91	0.5640	Degrading
WE4.2	Annual	AP	Diatom Biomass	0.0868	3.32E+06	1.83E+08	39.90	0.5083	No Trend
WE4.2	Annual	AP	Dinoflagellate Biomass	0.0719	8.46E+05	5.18E+07	35.92	0.4452	No Trend
WE4.2	Annual	AP	Cyanobacteria Biomass	<0.0001	3.43E+04	0.00E+00	N.E.	0.9353	Degrading
WE4.2	Annual	AP	Chlorophyte Biomass	0.1088	0	7.14E+04	0.00	0.6512	No Trend
WE4.2	Annual	AP	Picoplankton Biomass	0.7640	-6.52E+04	5.69E+07	-2.06	0.6752	No Trend
WE4.2	Annual	AP	Cryptophyte Biomass	0.0050	-5.01E+05	2.33E+07	-47.30	0.3405	Decreasing
WE4.2	Annual	AP	Cyanobacteria Abundance	<0.0001	3.71E+03	1.54E+03	5314.33	0.9768	Degrading
WE4.2	Annual	AP	Number of Species per Replicate	<0.0001	-0.50	41.50	-26.51	0.5797	Degrading
WE4.2	Annual	AP	Pielou's Evenness	<0.0001	0.008	0.46	38.42	0.4880	Improving
WE4.2	Annual	AP	Shannon Weiner Diversity Index	<0.0001	0.029	2.44	26.00	0.5363	Improving
WE4.2	Annual	AP	Diatom Abundance	0.3365	2.72E+04	3.62E+06	16.54	0.0983	No Trend
WE4.2	Annual	AP	Dinoflagellate Abundance	0.1729	2.76E+03	2.55E+05	23.76	0.8308	No Trend
WE4.2	Annual	AP	Chlorophyte Abundance	<0.0001	3.85E+03	3.14E+03	2695.49	0.7036	Improving
WE4.2	Annual	AP	Cryptophyte Abundance	0.2904	-6.17E+03	9.70E+05	-14.00	0.1954	No Trend
WE4.2	Annual	AP	Number of Genera per replicate	0.0002	-0.286	32.25	-19.49	0.7175	Degrading
WE4.2	Annual	AP	Picoplankton Abundance	0.7640	-4.35E+04	3.79E+07	-2.06	0.6752	No Trend
TF3.3	Annual	AP	Total Abundance	<0.0001	1.03E+06	4.89E+06	444.20	0.9113	Increasing
TF3.3	Annual	AP	Total Biomass	<0.0001	3.73E+07	9.43E+07	829.50	0.8273	Increasing
TF3.3	Annual	AP	Biomass to Abundance Ratio	0.0046	0.563	22.369	52.85	0.3271	Improving
TF3.3	Annual	AP	Margalef Diversity Index	0.7177	-0.003	1.54	-4.15	0.9813	No Trend
TF3.3	Annual	AP	Diatom Biomass	<0.0001	2.42E+07	7.24E+07	700.92	0.6896	Improving
TF3.3	Annual	AP	Dinoflagellate Biomass	0.0126	1.56E+04	8.81E+05	37.28	0.6292	No Trend
TF3.3	Annual	AP	Cyanobacteria Biomass	<0.0001	1.18E+06	1.36E+06	1827.48	0.8327	Degrading
TF3.3	Annual	AP	Chlorophyte Biomass	<0.0001	4.52E+06	1.75E+06	5421.55	0.7744	Improving
TF3.3	Annual	AP	Picoplankton Biomass	0.8922	5.30E+04	7.17E+07	1.33	0.6641	No Trend
TF3.3	Annual	AP	Cryptophyte Biomass	0.0563	4.57E+05	1.24E+07	77.15	0.6823	No Trend
TF3.3	Annual	AP	Cyanobacteria Abundance	<0.0001	2.85E+05	1.71E+05	3493.77	0.8694	Degrading
TF3.3	Annual	AP	Number of Species per Replicate	0.3535	0.10	25.00	8.02	0.9853	No Trend
TF3.3	Annual	AP	Pielou's Evenness	0.0188	0.003	0.57	10.70	0.4964	No Trend
TF3.3	Annual	AP	Shannon Weiner Diversity Index	0.0538	0.017	2.66	13.18	0.8529	No Trend
TF3.3	Annual	AP	Diatom Abundance	<0.0001	3.46E+05	2.41E+06	301.07	0.7345	Improving
TF3.3	Annual	AP	Dinoflagellate Abundance	0.3229	0	1.51E+04	0.00	0.5803	No Trend
TF3.3	Annual	AP	Chlorophyte Abundance	<0.0001	1.15E+05	1.65E+05	1459.35	0.6836	Improving
TF3.3	Annual	AP	Cryptophyte Abundance	0.0002	4.03E+04	5.59E+05	151.12	0.5928	Increasing
TF3.3	Annual	AP	Number of Genera per replicate	0.0811	0.146	23.00	13.37	0.9906	No Trend
TF3.3	Annual	AP	Picoplankton Abundance	0.8922	3.53E+04	4.78E+07	1.33	0.6641	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Annual	AP	Total Abundance	<0.0001	7.07E+05	6.64E+06	223.65	0.4776	Increasing
RET3.1	Annual	AP	Total Biomass	<0.0001	2.09E+07	2.01E+08	218.61	0.3342	Increasing
RET3.1	Annual	AP	Biomass to Abundance Ratio	0.8480	0.027	29.082	1.97	0.9241	No Trend
RET3.1	Annual	AP	Margalef Diversity Index	0.0541	-0.011	1.77	-12.65	0.6369	No Trend
RET3.1	Annual	AP	Diatom Biomass	<0.0001	1.14E+07	1.18E+08	202.93	0.6343	Improving
RET3.1	Annual	AP	Dinoflagellate Biomass	0.1627	-1.06E+05	2.08E+07	-10.68	0.7715	No Trend
RET3.1	Annual	AP	Cyanobacteria Biomass	<0.0001	9.29E+05	1.94E+06	1007.13	0.0894	Degrading
RET3.1	Annual	AP	Chlorophyte Biomass	<0.0001	8.93E+05	1.49E+06	1256.72	0.8522	Improving
RET3.1	Annual	AP	Picoplankton Biomass	0.7565	-1.50E+05	1.20E+08	-2.26	0.9853	No Trend
RET3.1	Annual	AP	Cryptophyte Biomass	0.0827	5.94E+05	2.14E+07	58.25	0.3919	No Trend
RET3.1	Annual	AP	Cyanobacteria Abundance	<0.0001	1.29E+05	1.69E+05	1599.95	0.7253	Degrading
RET3.1	Annual	AP	Number of Species per Replicate	0.5707	0.00	29.00	0.00	0.4946	No Trend
RET3.1	Annual	AP	Pielou's Evenness	0.0006	0.004	0.56	16.19	0.3092	Improving
RET3.1	Annual	AP	Shannon Weiner Diversity Index	0.0232	0.015	2.83	10.80	0.7892	No Trend
RET3.1	Annual	AP	Diatom Abundance	0.0003	2.24E+05	3.27E+06	144.28	0.6990	Improving
RET3.1	Annual	AP	Dinoflagellate Abundance	0.0056	-3.83E+03	4.35E+05	-18.47	0.7024	Improving
RET3.1	Annual	AP	Chlorophyte Abundance	<0.0001	7.29E+04	8.74E+04	1751.90	0.1077	Improving
RET3.1	Annual	AP	Cryptophyte Abundance	<0.0001	5.79E+04	8.92E+05	136.32	0.2203	Increasing
RET3.1	Annual	AP	Number of Genera per replicate	0.7690	0.000	26.50	0.00	0.6253	No Trend
RET3.1	Annual	AP	Picoplankton Abundance	0.7565	-1.00E+05	7.98E+07	-2.26	0.9853	No Trend
LE3.6	Annual	AP	Total Abundance	0.1502	7.39E+04	5.06E+06	32.12	0.8098	No Trend
LE3.6	Annual	AP	Total Biomass	0.5258	2.10E+06	3.78E+08	12.20	0.8072	No Trend
LE3.6	Annual	AP	Biomass to Abundance Ratio	0.3959	-0.275	59.349	-10.18	0.7536	No Trend
LE3.6	Annual	AP	Margalef Diversity Index	0.0023	-0.019	2.23	-18.62	0.4005	Degrading
LE3.6	Annual	AP	Diatom Biomass	0.5614	1.24E+06	2.25E+08	12.13	0.5860	No Trend
LE3.6	Annual	AP	Dinoflagellate Biomass	0.0012	1.71E+06	2.32E+07	162.16	0.4188	Degrading
LE3.6	Annual	AP	Cyanobacteria Biomass	<0.0001	6.09E+04	6.43E+02	208390.23	0.5101	Degrading
LE3.6	Annual	AP	Chlorophyte Biomass	0.0858	0	1.87E+05	0.00	0.8267	No Trend
LE3.6	Annual	AP	Picoplankton Biomass	<0.0001	-1.44E+06	1.07E+08	-24.32	0.3235	Improving
LE3.6	Annual	AP	Cryptophyte Biomass	0.0151	-3.79E+05	2.72E+07	-30.60	0.5637	No Trend
LE3.6	Annual	AP	Cyanobacteria Abundance	<0.0001	9.81E+03	2.56E+02	84337.34	0.8759	Degrading
LE3.6	Annual	AP	Number of Species per Replicate	0.0096	-0.25	35.25	-15.60	0.3732	Degrading
LE3.6	Annual	AP	Pielou's Evenness	<0.0001	0.007	0.48	31.47	0.8843	Improving
LE3.6	Annual	AP	Shannon Weiner Diversity Index	<0.0001	0.028	2.44	25.07	0.7653	Improving
LE3.6	Annual	AP	Diatom Abundance	0.2077	3.40E+04	2.63E+06	28.43	0.8731	No Trend
LE3.6	Annual	AP	Dinoflagellate Abundance	0.0008	7.38E+03	1.83E+05	88.65	0.7242	Degrading
LE3.6	Annual	AP	Chlorophyte Abundance	<0.0001	3.92E+03	8.29E+03	1038.43	0.7390	Improving
LE3.6	Annual	AP	Cryptophyte Abundance	0.4369	6.52E+03	1.13E+06	12.65	0.4250	No Trend
LE3.6	Annual	AP	Number of Genera per replicate	0.0878	-0.125	29.50	-9.32	0.3531	No Trend
LE3.6	Annual	AP	Picoplankton Abundance	<0.0001	-9.59E+05	7.10E+07	-24.32	0.3235	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Annual	AP	Total Abundance	0.0783	5.74E+04	5.32E+06	23.75	0.9233	No Trend
CB6.1	Annual	AP	Total Biomass	0.7545	9.90E+05	4.22E+08	5.16	0.0276	No Trend
CB6.1	Annual	AP	Biomass to Abundance Ratio	0.2277	-0.564	86.600	-14.32	0.4077	No Trend
CB6.1	Annual	AP	Margalef Diversity Index	0.0155	-0.016	2.33	-15.49	0.9374	No Trend
CB6.1	Annual	AP	Diatom Biomass	0.2209	2.02E+06	2.29E+08	19.45	0.0866	No Trend
CB6.1	Annual	AP	Dinoflagellate Biomass	0.3126	4.53E+05	3.21E+07	31.02	0.0284	No Trend
CB6.1	Annual	AP	Cyanobacteria Biomass	<0.0001	3.77E+04	6.53E+02	126991.76	0.4635	Degrading
CB6.1	Annual	AP	Chlorophyte Biomass	0.0696	0	1.40E+05	0.00	0.8729	No Trend
CB6.1	Annual	AP	Picoplankton Biomass	0.0005	-1.56E+06	8.20E+07	-34.22	0.5833	Improving
CB6.1	Annual	AP	Cryptophyte Biomass	0.0006	-6.82E+05	2.57E+07	-58.32	0.3942	Decreasing
CB6.1	Annual	AP	Cyanobacteria Abundance	<0.0001	5.58E+03	9.98E+03	1230.28	0.6132	Degrading
CB6.1	Annual	AP	Number of Species per Replicate	0.0507	-0.18	37.25	-10.88	0.9408	No Trend
CB6.1	Annual	AP	Pielou's Evenness	<0.0001	0.006	0.50	26.95	0.8731	Improving
CB6.1	Annual	AP	Shannon Weiner Diversity Index	0.0005	0.022	2.44	20.26	0.7253	Improving
CB6.1	Annual	AP	Diatom Abundance	0.2077	2.65E+04	2.97E+06	19.62	0.8085	No Trend
CB6.1	Annual	AP	Dinoflagellate Abundance	0.0416	3.65E+03	1.84E+05	43.57	0.0714	No Trend
CB6.1	Annual	AP	Chlorophyte Abundance	<0.0001	2.81E+03	6.23E+03	992.74	0.7182	Improving
CB6.1	Annual	AP	Cryptophyte Abundance	0.9501	6.21E+02	1.13E+06	1.20	0.6619	No Trend
CB6.1	Annual	AP	Number of Genera per replicate	0.2660	-0.067	30.00	-4.89	0.8441	No Trend
CB6.1	Annual	AP	Picoplankton Abundance	0.0005	-1.04E+06	5.47E+07	-34.22	0.5833	Improving
CB6.4	Annual	AP	Total Abundance	0.0045	1.06E+05	3.71E+06	62.79	0.5419	Increasing
CB6.4	Annual	AP	Total Biomass	0.0250	6.29E+06	2.22E+08	62.41	0.7583	No Trend
CB6.4	Annual	AP	Biomass to Abundance Ratio	0.8812	0.067	64.602	2.26	0.6891	No Trend
CB6.4	Annual	AP	Margalef Diversity Index	0.0003	-0.022	2.19	-22.43	0.4638	Degrading
CB6.4	Annual	AP	Diatom Biomass	0.1039	2.34E+06	1.62E+08	31.84	0.8231	No Trend
CB6.4	Annual	AP	Dinoflagellate Biomass	0.0001	2.31E+06	3.19E+07	159.82	0.8272	Degrading
CB6.4	Annual	AP	Cyanobacteria Biomass	<0.0001	2.64E+04	0.00E+00	N.E.	0.9900	Degrading
CB6.4	Annual	AP	Chlorophyte Biomass	0.1015	0	8.24E+04	0.00	0.7191	No Trend
CB6.4	Annual	AP	Picoplankton Biomass	0.0003	-9.76E+05	9.25E+07	-19.00	0.7841	Improving
CB6.4	Annual	AP	Cryptophyte Biomass	0.4656	-1.76E+05	1.68E+07	-23.07	0.0199	No Trend
CB6.4	Annual	AP	Cyanobacteria Abundance	<0.0001	5.33E+03	0.00E+00	N.E.	0.9603	Degrading
CB6.4	Annual	AP	Number of Species per Replicate	0.0021	-0.30	33.00	-20.00	0.6136	Degrading
CB6.4	Annual	AP	Pielou's Evenness	<0.0001	0.009	0.47	41.26	0.1067	Improving
CB6.4	Annual	AP	Shannon Weiner Diversity Index	<0.0001	0.037	2.37	34.66	0.2377	Improving
CB6.4	Annual	AP	Diatom Abundance	0.0286	4.85E+04	2.19E+06	48.73	0.6537	No Trend
CB6.4	Annual	AP	Dinoflagellate Abundance	<0.0001	8.12E+03	1.09E+05	163.50	0.3160	Degrading
CB6.4	Annual	AP	Chlorophyte Abundance	<0.0001	3.38E+03	3.66E+03	2030.16	0.3768	Improving
CB6.4	Annual	AP	Cryptophyte Abundance	0.0743	1.49E+04	7.00E+05	46.90	0.0209	No Trend
CB6.4	Annual	AP	Number of Genera per replicate	0.0294	-0.182	28.00	-14.29	0.7592	No Trend
CB6.4	Annual	AP	Picoplankton Abundance	0.0003	-6.51E+05	6.17E+07	-19.00	0.7841	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Annual	AP	Total Abundance	0.0088	7.85E+04	3.43E+06	50.38	0.2549	Increasing
CB7.3E	Annual	AP	Total Biomass	0.0602	5.03E+06	2.98E+08	37.21	0.1123	No Trend
CB7.3E	Annual	AP	Biomass to Abundance Ratio	0.6527	-0.217	76.668	-6.24	0.8161	No Trend
CB7.3E	Annual	AP	Margalef Diversity Index	0.0002	-0.026	2.46	-23.26	0.8139	Degrading
CB7.3E	Annual	AP	Diatom Biomass	0.0733	2.68E+06	1.94E+08	30.45	0.8348	No Trend
CB7.3E	Annual	AP	Dinoflagellate Biomass	0.0256	9.01E+05	3.14E+07	63.10	0.1760	No Trend
CB7.3E	Annual	AP	Cyanobacteria Biomass	<0.0001	2.92E+04	9.33E+03	6896.44	0.9889	Degrading
CB7.3E	Annual	AP	Chlorophyte Biomass	0.0493	0	1.57E+03	0.00	0.9102	No Trend
CB7.3E	Annual	AP	Picoplankton Biomass	0.1229	-4.80E+05	8.31E+07	-10.41	0.9732	No Trend
CB7.3E	Annual	AP	Cryptophyte Biomass	0.3318	-1.46E+05	1.80E+07	-17.83	0.0426	No Trend
CB7.3E	Annual	AP	Cyanobacteria Abundance	<0.0001	4.79E+03	8.29E+03	1270.34	0.9684	Degrading
CB7.3E	Annual	AP	Number of Species per Replicate	0.0008	-0.33	39.75	-18.45	0.5396	Degrading
CB7.3E	Annual	AP	Pielou's Evenness	<0.0001	0.007	0.48	31.06	0.7080	Improving
CB7.3E	Annual	AP	Shannon Weiner Diversity Index	<0.0001	0.026	2.55	22.21	0.8470	Improving
CB7.3E	Annual	AP	Diatom Abundance	0.1103	3.69E+04	2.09E+06	38.86	0.4186	No Trend
CB7.3E	Annual	AP	Dinoflagellate Abundance	0.0009	5.01E+03	1.18E+05	93.28	0.0701	Degrading
CB7.3E	Annual	AP	Chlorophyte Abundance	<0.0001	2.60E+03	5.60E+01	102204.81	0.9391	Improving
CB7.3E	Annual	AP	Cryptophyte Abundance	0.0691	1.02E+04	7.50E+05	29.92	0.1588	No Trend
CB7.3E	Annual	AP	Number of Genera per replicate	0.0160	-0.200	32.75	-13.44	0.5735	No Trend
CB7.3E	Annual	AP	Picoplankton Abundance	0.1229	-3.20E+05	5.54E+07	-10.41	0.9732	No Trend
CB7.4	Annual	AP	Total Abundance	<0.0001	1.20E+05	2.54E+06	104.24	0.7671	Increasing
CB7.4	Annual	AP	Total Biomass	0.0001	8.78E+06	1.63E+08	118.21	0.8730	Increasing
CB7.4	Annual	AP	Biomass to Abundance Ratio	0.5880	0.235	66.733	7.75	0.8905	No Trend
CB7.4	Annual	AP	Margalef Diversity Index	<0.0001	-0.046	2.85	-35.47	0.8551	Degrading
CB7.4	Annual	AP	Diatom Biomass	0.0002	6.29E+06	1.35E+08	102.37	0.7679	Improving
CB7.4	Annual	AP	Dinoflagellate Biomass	0.0007	1.02E+06	1.82E+07	122.51	0.6279	Degrading
CB7.4	Annual	AP	Cyanobacteria Biomass	<0.0001	2.97E+03	0.00E+00	N.E.	0.5178	Degrading
CB7.4	Annual	AP	Chlorophyte Biomass	0.1464	0	2.99E+04	0.00	0.0726	No Trend
CB7.4	Annual	AP	Picoplankton Biomass	0.2511	-2.99E+05	9.78E+07	-5.51	0.4848	No Trend
CB7.4	Annual	AP	Cryptophyte Biomass	0.5940	-6.66E+04	7.81E+06	-18.77	0.4115	No Trend
CB7.4	Annual	AP	Cyanobacteria Abundance	<0.0001	1.72E+03	2.40E+02	15806.39	0.3004	Degrading
CB7.4	Annual	AP	Number of Species per Replicate	<0.0001	-0.53	43.00	-27.35	0.7213	Degrading
CB7.4	Annual	AP	Pielou's Evenness	<0.0001	0.007	0.46	33.01	0.7652	Improving
CB7.4	Annual	AP	Shannon Weiner Diversity Index	0.0002	0.024	2.46	21.17	0.7559	Improving
CB7.4	Annual	AP	Diatom Abundance	0.0039	5.40E+04	1.93E+06	61.47	0.7124	Improving
CB7.4	Annual	AP	Dinoflagellate Abundance	<0.0001	6.49E+03	6.12E+04	233.52	0.7422	Degrading
CB7.4	Annual	AP	Chlorophyte Abundance	<0.0001	1.92E+03	1.16E+03	3619.76	0.6906	Improving
CB7.4	Annual	AP	Cryptophyte Abundance	0.0483	9.36E+03	3.25E+05	63.34	0.5624	No Trend
CB7.4	Annual	AP	Number of Genera per replicate	<0.0001	-0.333	34.50	-21.26	0.6413	Degrading
CB7.4	Annual	AP	Picoplankton Abundance	0.2511	-2.00E+05	6.52E+07	-5.51	0.4848	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	SAV1	AP	Total Abundance	0.4153	-3.00E+05	4.15E+07	-15.18	0.2053	No Trend
TF5.5	SAV1	AP	Total Biomass	0.0074	3.46E+07	8.45E+08	86.12	0.8763	Increasing
TF5.5	SAV1	AP	Biomass to Abundance Ratio	<0.0001	1.388	19.946	146.09	0.6269	Improving
TF5.5	SAV1	AP	Margalef Diversity Index	0.1425	-0.013	2.40	-11.45	0.8796	No Trend
TF5.5	SAV1	AP	Diatom Biomass	0.2352	7.99E+06	6.04E+08	27.76	0.9689	No Trend
TF5.5	SAV1	AP	Dinoflagellate Biomass	0.0516	1.12E+04	4.58E+05	51.53	0.6948	No Trend
TF5.5	SAV1	AP	Cyanobacteria Biomass	0.2541	4.03E+05	5.55E+07	15.25	0.9628	No Trend
TF5.5	SAV1	AP	Chlorophyte Biomass	<0.0001	2.15E+07	4.55E+07	990.77	0.9991	Improving
TF5.5	SAV1	AP	Picoplankton Biomass	0.0001	-6.24E+06	2.01E+08	-55.79	0.4307	Improving
TF5.5	SAV1	AP	Cryptophyte Biomass	0.4847	2.15E+05	1.48E+07	30.49	0.8092	No Trend
TF5.5	SAV1	AP	Cyanobacteria Abundance	0.5451	2.64E+04	1.67E+07	3.33	0.9546	No Trend
TF5.5	SAV1	AP	Number of Species per Replicate	0.1763	-0.25	42.50	-12.35	0.9535	No Trend
TF5.5	SAV1	AP	Pielou's Evenness	<0.0001	0.010	0.43	49.85	0.3495	Improving
TF5.5	SAV1	AP	Shannon Weiner Diversity Index	<0.0001	0.043	2.27	39.79	0.6809	Improving
TF5.5	SAV1	AP	Diatom Abundance	0.1135	-2.19E+05	1.62E+07	-28.28	0.0770	No Trend
TF5.5	SAV1	AP	Dinoflagellate Abundance	0.3915	0	5.76E+02	0.00	0.9032	No Trend
TF5.5	SAV1	AP	Chlorophyte Abundance	<0.0001	2.20E+05	2.68E+06	172.11	0.9853	Improving
TF5.5	SAV1	AP	Cryptophyte Abundance	0.0003	4.09E+04	6.16E+05	139.38	0.3158	Increasing
TF5.5	SAV1	AP	Number of Genera per replicate	0.1151	-0.200	34.00	-12.35	0.8182	No Trend
TF5.5	SAV1	AP	Picoplankton Abundance	0.0001	-4.16E+06	1.34E+08	-55.79	0.4307	Improving
RET5.2	SAV1	AP	Total Abundance	0.9816	-2.63E+04	9.13E+06	-6.05	0.1206	No Trend
RET5.2	SAV1	AP	Total Biomass	0.0053	1.95E+07	2.05E+08	199.44	0.1860	Increasing
RET5.2	SAV1	AP	Biomass to Abundance Ratio	0.0007	0.938	17.866	110.25	0.9923	Improving
RET5.2	SAV1	AP	Margalef Diversity Index	<0.0001	-0.039	1.59	-51.28	0.9208	Degrading
RET5.2	SAV1	AP	Diatom Biomass	0.0759	8.87E+06	1.18E+08	158.27	0.6156	No Trend
RET5.2	SAV1	AP	Dinoflagellate Biomass	0.3290	0	1.80E+06	0.00	0.6050	No Trend
RET5.2	SAV1	AP	Cyanobacteria Biomass	0.5490	1.16E+05	3.19E+06	76.46	0.6150	No Trend
RET5.2	SAV1	AP	Chlorophyte Biomass	0.0015	3.11E+06	2.24E+06	2920.77	0.7231	Improving
RET5.2	SAV1	AP	Picoplankton Biomass	0.0026	-4.94E+06	4.08E+08	-21.81	0.0093	Improving
RET5.2	SAV1	AP	Cryptophyte Biomass	0.0359	7.62E+05	1.58E+07	101.51	0.9409	No Trend
RET5.2	SAV1	AP	Cyanobacteria Abundance	0.3811	-3.79E+04	8.60E+05	-92.39	0.3104	No Trend
RET5.2	SAV1	AP	Number of Species per Replicate	<0.0001	-0.64	27.00	-49.49	0.9253	Degrading
RET5.2	SAV1	AP	Pielou's Evenness	0.0057	0.005	0.56	16.97	0.6088	Improving
RET5.2	SAV1	AP	Shannon Weiner Diversity Index	0.5039	0.007	2.63	5.80	0.7963	No Trend
RET5.2	SAV1	AP	Diatom Abundance	0.4333	-6.20E+04	6.04E+06	-21.57	0.0644	No Trend
RET5.2	SAV1	AP	Dinoflagellate Abundance	0.1722	0	7.21E+04	0.00	0.7621	No Trend
RET5.2	SAV1	AP	Chlorophyte Abundance	0.0001	7.83E+04	9.45E+04	1739.51	0.4237	Improving
RET5.2	SAV1	AP	Cryptophyte Abundance	0.0001	5.79E+04	6.57E+05	185.17	0.9568	Increasing
RET5.2	SAV1	AP	Number of Genera per replicate	0.0003	-0.458	24.00	-40.08	0.9415	Degrading
RET5.2	SAV1	AP	Picoplankton Abundance	0.0026	-3.30E+06	2.72E+08	-21.81	0.0093	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	SAV1	AP	Total Abundance	0.0232	1.07E+05	5.07E+06	46.43	0.4033	No Trend
LE5.5	SAV1	AP	Total Biomass	0.0584	6.53E+06	2.35E+08	61.11	0.0696	No Trend
LE5.5	SAV1	AP	Biomass to Abundance Ratio	0.7990	-0.178	50.865	-7.68	0.0333	No Trend
LE5.5	SAV1	AP	Margalef Diversity Index	0.0008	-0.028	2.61	-23.60	0.5409	Degrading
LE5.5	SAV1	AP	Diatom Biomass	0.0384	3.86E+06	1.87E+08	45.50	0.3761	No Trend
LE5.5	SAV1	AP	Dinoflagellate Biomass	0.2030	6.27E+05	2.35E+07	58.60	0.3778	No Trend
LE5.5	SAV1	AP	Cyanobacteria Biomass	<0.0001	6.62E+04	2.75E+02	528913.06	0.8578	Degrading
LE5.5	SAV1	AP	Chlorophyte Biomass	0.3615	0	0.00E+00	N.E.	0.8067	No Trend
LE5.5	SAV1	AP	Picoplankton Biomass	0.1493	-1.12E+06	3.37E+08	-5.99	0.9144	No Trend
LE5.5	SAV1	AP	Cryptophyte Biomass	0.2030	-2.44E+05	2.68E+07	-20.02	0.1912	No Trend
LE5.5	SAV1	AP	Cyanobacteria Abundance	<0.0001	8.88E+03	1.83E+04	1069.16	0.9790	Degrading
LE5.5	SAV1	AP	Number of Species per Replicate	0.0006	-0.43	41.25	-22.86	0.6216	Degrading
LE5.5	SAV1	AP	Pielou's Evenness	<0.0001	0.008	0.46	37.03	0.7262	Improving
LE5.5	SAV1	AP	Shannon Weiner Diversity Index	<0.0001	0.027	2.42	24.63	0.8315	Improving
LE5.5	SAV1	AP	Diatom Abundance	0.3818	3.01E+04	3.61E+06	18.34	0.2859	No Trend
LE5.5	SAV1	AP	Dinoflagellate Abundance	0.0555	3.25E+03	1.01E+05	70.76	0.2792	No Trend
LE5.5	SAV1	AP	Chlorophyte Abundance	<0.0001	4.88E+03	0.00E+00	N.E.	0.3440	Improving
LE5.5	SAV1	AP	Cryptophyte Abundance	0.1733	1.51E+04	1.12E+06	29.65	0.0763	No Trend
LE5.5	SAV1	AP	Number of Genera per replicate	0.0146	-0.250	31.50	-17.46	0.7466	No Trend
LE5.5	SAV1	AP	Picoplankton Abundance	0.1493	-7.48E+05	2.25E+08	-5.99	0.9144	No Trend
SBE5	SAV1	AP	Total Abundance	0.3521	4.99E+04	3.03E+06	29.70	0.0459	No Trend
SBE5	SAV1	AP	Total Biomass	0.7856	6.06E+05	8.67E+07	12.58	0.0197	No Trend
SBE5	SAV1	AP	Biomass to Abundance Ratio	0.3983	-0.275	25.233	-19.63	0.0392	No Trend
SBE5	SAV1	AP	Margalef Diversity Index	0.0001	-0.037	1.89	-35.29	0.0923	Degrading
SBE5	SAV1	AP	Diatom Biomass	0.6163	4.76E+05	4.84E+07	17.71	0.0240	No Trend
SBE5	SAV1	AP	Dinoflagellate Biomass	0.5766	-4.77E+04	8.66E+06	-9.91	0.4030	No Trend
SBE5	SAV1	AP	Cyanobacteria Biomass	0.0011	6.49E+04	5.06E+05	231.18	0.7916	Degrading
SBE5	SAV1	AP	Chlorophyte Biomass	0.6647	0	1.00E+05	0.00	0.4215	No Trend
SBE5	SAV1	AP	Picoplankton Biomass	0.0856	-6.18E+05	3.83E+08	-2.91	0.6555	No Trend
SBE5	SAV1	AP	Cryptophyte Biomass	0.8524	5.81E+04	1.54E+07	6.79	0.7288	No Trend
SBE5	SAV1	AP	Cyanobacteria Abundance	0.0579	3.97E+03	3.06E+04	233.56	0.4157	No Trend
SBE5	SAV1	AP	Number of Species per Replicate	0.0003	-0.53	29.50	-32.54	0.0904	Degrading
SBE5	SAV1	AP	Pielou's Evenness	0.4480	0.001	0.57	4.27	0.3033	No Trend
SBE5	SAV1	AP	Shannon Weiner Diversity Index	0.3671	-0.007	2.90	-4.61	0.3842	No Trend
SBE5	SAV1	AP	Diatom Abundance	0.9886	-5.59E+02	1.73E+06	-0.58	0.0173	No Trend
SBE5	SAV1	AP	Dinoflagellate Abundance	0.8636	2.56E+02	8.55E+04	5.39	0.2215	No Trend
SBE5	SAV1	AP	Chlorophyte Abundance	0.0275	3.00E+03	4.73E+03	1143.63	0.8663	No Trend
SBE5	SAV1	AP	Cryptophyte Abundance	0.0832	1.98E+04	6.42E+05	55.53	0.4770	No Trend
SBE5	SAV1	AP	Number of Genera per replicate	0.0005	-0.444	26.50	-30.19	0.0478	Degrading
SBE5	SAV1	AP	Picoplankton Abundance	0.0856	-4.12E+05	2.55E+08	-2.91	0.6555	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	SAV1	AP	Total Abundance	0.0095	1.33E+05	6.55E+06	40.65	0.7616	Increasing
TF4.2	SAV1	AP	Total Biomass	0.0221	5.79E+06	1.49E+08	77.75	0.4662	No Trend
TF4.2	SAV1	AP	Biomass to Abundance Ratio	0.5865	0.233	31.585	14.73	0.4095	No Trend
TF4.2	SAV1	AP	Margalef Diversity Index	0.0110	-0.020	1.91	-21.39	0.2388	No Trend
TF4.2	SAV1	AP	Diatom Biomass	0.1759	1.74E+06	1.20E+08	28.93	0.5856	No Trend
TF4.2	SAV1	AP	Dinoflagellate Biomass	0.6250	0	2.54E+05	0.00	0.1261	No Trend
TF4.2	SAV1	AP	Cyanobacteria Biomass	0.0544	7.30E+04	1.17E+06	124.36	0.0835	No Trend
TF4.2	SAV1	AP	Chlorophyte Biomass	<0.0001	4.89E+05	2.40E+06	407.59	0.4062	Improving
TF4.2	SAV1	AP	Picoplankton Biomass	0.2026	-7.96E+05	1.03E+08	-13.98	0.9182	No Trend
TF4.2	SAV1	AP	Cryptophyte Biomass	0.2823	2.70E+05	8.72E+06	62.01	0.6831	No Trend
TF4.2	SAV1	AP	Cyanobacteria Abundance	0.3896	4.38E+03	1.03E+05	85.22	0.1573	No Trend
TF4.2	SAV1	AP	Number of Species per Replicate	0.0175	-0.27	30.50	-17.49	0.3241	No Trend
TF4.2	SAV1	AP	Pielou's Evenness	0.6398	0.001	0.55	3.01	0.3996	No Trend
TF4.2	SAV1	AP	Shannon Weiner Diversity Index	0.5189	-0.003	2.77	-2.25	0.6975	No Trend
TF4.2	SAV1	AP	Diatom Abundance	0.9899	3.86E+02	2.84E+06	0.27	0.8674	No Trend
TF4.2	SAV1	AP	Dinoflagellate Abundance	0.4868	0	1.22E+03	0.00	0.0822	No Trend
TF4.2	SAV1	AP	Chlorophyte Abundance	<0.0001	2.72E+04	1.01E+05	541.01	0.8973	Improving
TF4.2	SAV1	AP	Cryptophyte Abundance	0.0002	3.26E+04	3.96E+05	164.91	0.5746	Increasing
TF4.2	SAV1	AP	Number of Genera per replicate	0.0635	-0.200	26.00	-15.38	0.4571	No Trend
TF4.2	SAV1	AP	Picoplankton Abundance	0.2026	-5.31E+05	6.84E+07	-13.98	0.9182	No Trend
RET4.3	SAV1	AP	Total Abundance	0.5567	6.27E+04	8.39E+06	15.70	0.5641	No Trend
RET4.3	SAV1	AP	Total Biomass	0.1449	5.14E+06	3.30E+08	32.74	0.7529	No Trend
RET4.3	SAV1	AP	Biomass to Abundance Ratio	0.2795	0.188	27.772	14.24	0.8727	No Trend
RET4.3	SAV1	AP	Margalef Diversity Index	0.0255	-0.013	1.55	-17.71	0.4738	No Trend
RET4.3	SAV1	AP	Diatom Biomass	0.3351	2.76E+06	1.85E+08	31.28	0.5337	No Trend
RET4.3	SAV1	AP	Dinoflagellate Biomass	0.9906	0	2.63E+07	0.00	0.8168	No Trend
RET4.3	SAV1	AP	Cyanobacteria Biomass	0.0004	2.79E+05	1.38E+06	424.50	0.4115	Degrading
RET4.3	SAV1	AP	Chlorophyte Biomass	0.0001	3.14E+05	1.78E+05	3692.37	0.5928	Improving
RET4.3	SAV1	AP	Picoplankton Biomass	0.0322	-1.40E+06	2.01E+08	-12.48	0.2991	No Trend
RET4.3	SAV1	AP	Cryptophyte Biomass	0.5410	-1.86E+05	2.47E+07	-15.81	0.2898	No Trend
RET4.3	SAV1	AP	Cyanobacteria Abundance	0.0050	2.29E+04	2.84E+05	169.22	0.5185	Degrading
RET4.3	SAV1	AP	Number of Species per Replicate	0.0573	-0.21	26.50	-16.68	0.5168	No Trend
RET4.3	SAV1	AP	Pielou's Evenness	0.2692	0.002	0.53	7.31	0.3575	No Trend
RET4.3	SAV1	AP	Shannon Weiner Diversity Index	0.5567	-0.004	2.47	-3.77	0.0974	No Trend
RET4.3	SAV1	AP	Diatom Abundance	0.9251	-5.44E+03	5.56E+06	-2.06	0.6168	No Trend
RET4.3	SAV1	AP	Dinoflagellate Abundance	0.5408	-8.76E+02	1.75E+05	-10.50	0.9942	No Trend
RET4.3	SAV1	AP	Chlorophyte Abundance	<0.0001	3.49E+04	1.51E+04	4868.32	0.6986	Improving
RET4.3	SAV1	AP	Cryptophyte Abundance	0.2692	1.45E+04	1.03E+06	29.47	0.0820	No Trend
RET4.3	SAV1	AP	Number of Genera per replicate	0.1083	-0.129	23.50	-11.54	0.5426	No Trend
RET4.3	SAV1	AP	Picoplankton Abundance	0.0322	-9.30E+05	1.34E+08	-12.48	0.2991	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	SAV1	AP	Total Abundance	0.7291	1.82E+04	6.09E+06	6.58	0.7189	No Trend
WE4.2	SAV1	AP	Total Biomass	0.5538	2.70E+06	3.59E+08	16.57	0.8448	No Trend
WE4.2	SAV1	AP	Biomass to Abundance Ratio	0.7460	0.165	54.525	6.66	0.3417	No Trend
WE4.2	SAV1	AP	Margalef Diversity Index	0.0033	-0.030	2.58	-25.43	0.3534	Degrading
WE4.2	SAV1	AP	Diatom Biomass	0.1560	3.42E+06	1.83E+08	41.02	0.5612	No Trend
WE4.2	SAV1	AP	Dinoflagellate Biomass	0.9555	7.21E+04	7.31E+07	2.17	0.8759	No Trend
WE4.2	SAV1	AP	Cyanobacteria Biomass	<0.0001	4.44E+04	0.00E+00	N.E.	0.9329	Degrading
WE4.2	SAV1	AP	Chlorophyte Biomass	0.3048	0	1.20E+05	0.00	0.7537	No Trend
WE4.2	SAV1	AP	Picoplankton Biomass	0.3259	-8.51E+05	4.18E+08	-3.66	0.4192	No Trend
WE4.2	SAV1	AP	Cryptophyte Biomass	0.0050	-7.19E+05	2.51E+07	-63.01	0.1119	Decreasing
WE4.2	SAV1	AP	Cyanobacteria Abundance	<0.0001	6.92E+03	1.22E+04	1245.46	0.8190	Degrading
WE4.2	SAV1	AP	Number of Species per Replicate	0.0046	-0.44	41.50	-23.19	0.3582	Degrading
WE4.2	SAV1	AP	Pielou's Evenness	<0.0001	0.009	0.51	37.26	0.7609	Improving
WE4.2	SAV1	AP	Shannon Weiner Diversity Index	<0.0001	0.031	2.84	24.06	0.8905	Improving
WE4.2	SAV1	AP	Diatom Abundance	0.9911	2.19E+03	3.62E+06	1.34	0.3048	No Trend
WE4.2	SAV1	AP	Dinoflagellate Abundance	0.9377	1.71E+02	3.99E+05	0.94	0.8076	No Trend
WE4.2	SAV1	AP	Chlorophyte Abundance	<0.0001	5.55E+03	5.28E+03	2313.00	0.8862	Improving
WE4.2	SAV1	AP	Cryptophyte Abundance	0.1433	-1.48E+04	1.05E+06	-31.08	0.0988	No Trend
WE4.2	SAV1	AP	Number of Genera per replicate	0.0264	-0.222	32.25	-15.16	0.4317	No Trend
WE4.2	SAV1	AP	Picoplankton Abundance	0.3259	-5.68E+05	2.79E+08	-3.66	0.4192	No Trend
TF3.3	SAV1	AP	Total Abundance	<0.0001	1.41E+06	5.32E+06	557.49	0.8516	Increasing
TF3.3	SAV1	AP	Total Biomass	<0.0001	5.53E+07	9.84E+07	1180.82	0.8410	Increasing
TF3.3	SAV1	AP	Biomass to Abundance Ratio	0.0073	0.632	21.205	62.55	0.1450	Improving
TF3.3	SAV1	AP	Margalef Diversity Index	0.7039	-0.006	1.62	-7.62	0.9543	No Trend
TF3.3	SAV1	AP	Diatom Biomass	<0.0001	3.17E+07	7.24E+07	919.17	0.9714	Improving
TF3.3	SAV1	AP	Dinoflagellate Biomass	0.0045	1.16E+05	1.28E+06	190.57	0.5857	Degrading
TF3.3	SAV1	AP	Cyanobacteria Biomass	<0.0001	2.00E+06	1.40E+06	2998.44	0.8089	Degrading
TF3.3	SAV1	AP	Chlorophyte Biomass	<0.0001	8.94E+06	3.53E+06	5314.47	0.7533	Improving
TF3.3	SAV1	AP	Picoplankton Biomass	0.4936	-6.70E+05	2.21E+08	-5.46	0.9611	No Trend
TF3.3	SAV1	AP	Cryptophyte Biomass	0.3665	3.46E+05	1.80E+07	40.30	0.5171	No Trend
TF3.3	SAV1	AP	Cyanobacteria Abundance	<0.0001	4.21E+05	8.29E+04	10655.29	0.4962	Degrading
TF3.3	SAV1	AP	Number of Species per Replicate	0.5673	0.07	25.50	5.51	0.9490	No Trend
TF3.3	SAV1	AP	Pielou's Evenness	0.0090	0.004	0.57	15.23	0.5499	Improving
TF3.3	SAV1	AP	Shannon Weiner Diversity Index	0.0574	0.020	2.62	15.93	0.8059	No Trend
TF3.3	SAV1	AP	Diatom Abundance	<0.0001	5.02E+05	2.36E+06	445.54	0.9025	Improving
TF3.3	SAV1	AP	Dinoflagellate Abundance	0.1204	9.72E+01	2.21E+04	9.23	0.6005	No Trend
TF3.3	SAV1	AP	Chlorophyte Abundance	<0.0001	1.70E+05	1.78E+05	2015.26	0.9010	Improving
TF3.3	SAV1	AP	Cryptophyte Abundance	0.0096	4.46E+04	8.62E+05	108.58	0.2364	Increasing
TF3.3	SAV1	AP	Number of Genera per replicate	0.2334	0.138	23.00	12.61	0.9801	No Trend
TF3.3	SAV1	AP	Picoplankton Abundance	0.4936	-4.47E+05	1.47E+08	-5.46	0.9611	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	SAV1	AP	Total Abundance	<0.0001	1.00E+06	7.86E+06	268.14	0.6618	Increasing
RET3.1	SAV1	AP	Total Biomass	<0.0001	2.52E+07	1.95E+08	272.08	0.3261	Increasing
RET3.1	SAV1	AP	Biomass to Abundance Ratio	0.7216	-0.055	27.677	-4.20	0.8402	No Trend
RET3.1	SAV1	AP	Margalef Diversity Index	0.1345	-0.010	1.76	-11.80	0.3486	No Trend
RET3.1	SAV1	AP	Diatom Biomass	<0.0001	1.55E+07	1.12E+08	292.73	0.7804	Improving
RET3.1	SAV1	AP	Dinoflagellate Biomass	0.3657	-6.53E+04	2.17E+07	-6.32	0.4248	No Trend
RET3.1	SAV1	AP	Cyanobacteria Biomass	<0.0001	1.69E+06	2.73E+06	1303.95	0.3596	Degrading
RET3.1	SAV1	AP	Chlorophyte Biomass	<0.0001	1.25E+06	1.49E+06	1752.62	0.6558	Improving
RET3.1	SAV1	AP	Picoplankton Biomass	0.5933	-6.64E+05	4.63E+08	-2.58	0.9938	No Trend
RET3.1	SAV1	AP	Cryptophyte Biomass	0.1087	7.19E+05	2.14E+07	70.53	0.4279	No Trend
RET3.1	SAV1	AP	Cyanobacteria Abundance	<0.0001	3.03E+05	1.58E+05	4025.10	0.8056	Degrading
RET3.1	SAV1	AP	Number of Species per Replicate	0.7386	0.00	29.00	0.00	0.2416	No Trend
RET3.1	SAV1	AP	Pielou's Evenness	0.0001	0.006	0.51	22.61	0.7605	Improving
RET3.1	SAV1	AP	Shannon Weiner Diversity Index	0.0047	0.019	2.42	16.58	0.9825	Improving
RET3.1	SAV1	AP	Diatom Abundance	0.0001	3.39E+05	3.27E+06	218.12	0.8758	Improving
RET3.1	SAV1	AP	Dinoflagellate Abundance	0.0634	-2.56E+03	4.83E+05	-11.13	0.5105	No Trend
RET3.1	SAV1	AP	Chlorophyte Abundance	<0.0001	1.16E+05	8.74E+04	2776.62	0.4175	Improving
RET3.1	SAV1	AP	Cryptophyte Abundance	<0.0001	7.32E+04	8.92E+05	172.35	0.5724	Increasing
RET3.1	SAV1	AP	Number of Genera per replicate	0.5999	0.000	26.50	0.00	0.3557	No Trend
RET3.1	SAV1	AP	Picoplankton Abundance	0.5933	-4.43E+05	3.09E+08	-2.58	0.9938	No Trend
LE3.6	SAV1	AP	Total Abundance	0.3064	7.39E+04	5.73E+06	28.37	0.9134	No Trend
LE3.6	SAV1	AP	Total Biomass	0.5124	3.39E+06	3.78E+08	19.76	0.7145	No Trend
LE3.6	SAV1	AP	Biomass to Abundance Ratio	0.2852	-0.415	69.892	-13.08	0.7842	No Trend
LE3.6	SAV1	AP	Margalef Diversity Index	0.0020	-0.025	2.23	-24.88	0.6987	Degrading
LE3.6	SAV1	AP	Diatom Biomass	0.6707	8.02E+05	2.25E+08	7.84	0.9324	No Trend
LE3.6	SAV1	AP	Dinoflagellate Biomass	0.0912	1.67E+06	4.93E+07	74.45	0.7945	No Trend
LE3.6	SAV1	AP	Cyanobacteria Biomass	<0.0001	7.22E+04	7.48E+04	2123.43	0.3536	Degrading
LE3.6	SAV1	AP	Chlorophyte Biomass	0.5660	0	4.15E+05	0.00	0.8575	No Trend
LE3.6	SAV1	AP	Picoplankton Biomass	0.0001	-7.52E+06	6.53E+08	-20.74	0.3854	Improving
LE3.6	SAV1	AP	Cryptophyte Biomass	0.0029	-7.42E+05	2.77E+07	-58.82	0.9599	Decreasing
LE3.6	SAV1	AP	Cyanobacteria Abundance	<0.0001	1.83E+04	2.71E+04	1481.70	0.6925	Degrading
LE3.6	SAV1	AP	Number of Species per Replicate	0.0064	-0.36	35.75	-21.98	0.8093	Degrading
LE3.6	SAV1	AP	Pielou's Evenness	<0.0001	0.007	0.49	30.59	0.7271	Improving
LE3.6	SAV1	AP	Shannon Weiner Diversity Index	0.0001	0.026	2.48	23.01	0.5408	Improving
LE3.6	SAV1	AP	Diatom Abundance	0.3762	3.40E+04	2.63E+06	28.42	0.9880	No Trend
LE3.6	SAV1	AP	Dinoflagellate Abundance	0.0049	9.08E+03	2.26E+05	88.53	0.7784	Degrading
LE3.6	SAV1	AP	Chlorophyte Abundance	<0.0001	5.19E+03	1.66E+04	687.84	0.6967	Improving
LE3.6	SAV1	AP	Cryptophyte Abundance	0.7303	-2.96E+03	1.16E+06	-5.63	0.7578	No Trend
LE3.6	SAV1	AP	Number of Genera per replicate	0.0549	-0.200	30.50	-14.43	0.7809	No Trend
LE3.6	SAV1	AP	Picoplankton Abundance	0.0001	-5.02E+06	4.35E+08	-20.74	0.3854	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	SAV1	AP	Total Abundance	0.2272	5.92E+04	5.32E+06	24.52	0.9852	No Trend
CB6.1	SAV1	AP	Total Biomass	0.8198	-1.31E+06	4.02E+08	-7.18	0.6275	No Trend
CB6.1	SAV1	AP	Biomass to Abundance Ratio	0.2546	-0.713	82.116	-19.09	0.9946	No Trend
CB6.1	SAV1	AP	Margalef Diversity Index	0.0755	-0.016	2.38	-15.20	0.9390	No Trend
CB6.1	SAV1	AP	Diatom Biomass	0.5845	1.27E+06	2.29E+08	12.19	0.8610	No Trend
CB6.1	SAV1	AP	Dinoflagellate Biomass	0.9637	2.71E+04	3.81E+07	1.56	0.1621	No Trend
CB6.1	SAV1	AP	Cyanobacteria Biomass	<0.0001	9.52E+04	1.30E+04	16101.04	0.7137	Degrading
CB6.1	SAV1	AP	Chlorophyte Biomass	0.0847	2.46E+02	1.40E+05	3.85	0.6364	No Trend
CB6.1	SAV1	AP	Picoplankton Biomass	0.0024	-6.68E+06	1.03E+09	-11.72	0.5831	Improving
CB6.1	SAV1	AP	Cryptophyte Biomass	0.0001	-1.08E+06	2.78E+07	-85.08	0.9762	Decreasing
CB6.1	SAV1	AP	Cyanobacteria Abundance	<0.0001	1.59E+04	6.57E+04	532.00	0.5853	Degrading
CB6.1	SAV1	AP	Number of Species per Replicate	0.1928	-0.15	39.00	-8.37	0.9310	No Trend
CB6.1	SAV1	AP	Pielou's Evenness	<0.0001	0.007	0.49	32.71	0.9605	Improving
CB6.1	SAV1	AP	Shannon Weiner Diversity Index	0.0011	0.031	2.37	28.58	0.9773	Improving
CB6.1	SAV1	AP	Diatom Abundance	0.3742	2.62E+04	2.50E+06	23.00	0.9718	No Trend
CB6.1	SAV1	AP	Dinoflagellate Abundance	0.1448	3.46E+03	1.67E+05	45.60	0.0706	No Trend
CB6.1	SAV1	AP	Chlorophyte Abundance	<0.0001	4.66E+03	6.23E+03	1645.51	0.4318	Improving
CB6.1	SAV1	AP	Cryptophyte Abundance	0.2546	-1.51E+04	1.20E+06	-27.74	0.8222	No Trend
CB6.1	SAV1	AP	Number of Genera per replicate	0.4172	-0.071	30.25	-5.19	0.9166	No Trend
CB6.1	SAV1	AP	Picoplankton Abundance	0.0024	-4.45E+06	6.83E+08	-11.72	0.5831	Improving
CB6.4	SAV1	AP	Total Abundance	0.1171	8.13E+04	3.54E+06	50.57	0.4694	No Trend
CB6.4	SAV1	AP	Total Biomass	0.2191	5.49E+06	2.22E+08	54.47	0.6962	No Trend
CB6.4	SAV1	AP	Biomass to Abundance Ratio	0.5059	0.475	65.483	15.95	0.7105	No Trend
CB6.4	SAV1	AP	Margalef Diversity Index	0.0021	-0.024	2.22	-23.53	0.3397	Degrading
CB6.4	SAV1	AP	Diatom Biomass	0.5059	1.65E+06	1.62E+08	22.40	0.8728	No Trend
CB6.4	SAV1	AP	Dinoflagellate Biomass	0.0196	2.43E+06	3.38E+07	158.35	0.8179	No Trend
CB6.4	SAV1	AP	Cyanobacteria Biomass	<0.0001	3.81E+04	0.00E+00	N.E.	0.9818	Degrading
CB6.4	SAV1	AP	Chlorophyte Biomass	0.5710	0	1.31E+05	0.00	0.9092	No Trend
CB6.4	SAV1	AP	Picoplankton Biomass	0.0625	-1.86E+06	6.22E+08	-5.38	0.8092	No Trend
CB6.4	SAV1	AP	Cryptophyte Biomass	0.1119	-4.20E+05	1.82E+07	-50.79	0.1737	No Trend
CB6.4	SAV1	AP	Cyanobacteria Abundance	<0.0001	1.00E+04	3.54E+04	624.04	0.8077	Degrading
CB6.4	SAV1	AP	Number of Species per Replicate	0.0074	-0.36	34.00	-23.53	0.3722	Degrading
CB6.4	SAV1	AP	Pielou's Evenness	<0.0001	0.010	0.47	47.14	0.9115	Improving
CB6.4	SAV1	AP	Shannon Weiner Diversity Index	<0.0001	0.044	2.43	39.66	0.8940	Improving
CB6.4	SAV1	AP	Diatom Abundance	0.3731	2.11E+04	1.89E+06	24.58	0.5560	No Trend
CB6.4	SAV1	AP	Dinoflagellate Abundance	0.0001	9.66E+03	1.10E+05	192.29	0.1923	Degrading
CB6.4	SAV1	AP	Chlorophyte Abundance	0.0002	3.35E+03	5.84E+03	1261.53	0.4205	Improving
CB6.4	SAV1	AP	Cryptophyte Abundance	0.9730	9.37E+01	7.57E+05	0.27	0.0355	No Trend
CB6.4	SAV1	AP	Number of Genera per replicate	0.1325	-0.167	28.50	-12.87	0.5602	No Trend
CB6.4	SAV1	AP	Picoplankton Abundance	0.0625	-1.24E+06	4.15E+08	-5.38	0.8092	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	SAV1	AP	Total Abundance	0.0150	9.11E+04	3.44E+06	58.21	0.0800	No Trend
CB7.3E	SAV1	AP	Total Biomass	0.0941	7.74E+06	2.70E+08	63.18	0.0831	No Trend
CB7.3E	SAV1	AP	Biomass to Abundance Ratio	0.5921	-0.390	79.217	-10.82	0.5912	No Trend
CB7.3E	SAV1	AP	Margalef Diversity Index	0.0018	-0.029	2.43	-26.65	0.5830	Degrading
CB7.3E	SAV1	AP	Diatom Biomass	0.1290	2.91E+06	1.94E+08	33.09	0.7986	No Trend
CB7.3E	SAV1	AP	Dinoflagellate Biomass	0.0287	1.51E+06	3.50E+07	95.00	0.1975	No Trend
CB7.3E	SAV1	AP	Cyanobacteria Biomass	<0.0001	4.40E+04	9.33E+03	10368.97	0.9453	Degrading
CB7.3E	SAV1	AP	Chlorophyte Biomass	0.3162	0	3.72E+02	0.00	0.7647	No Trend
CB7.3E	SAV1	AP	Picoplankton Biomass	0.2033	-1.15E+06	3.11E+08	-6.67	0.7149	No Trend
CB7.3E	SAV1	AP	Cryptophyte Biomass	0.6313	-1.16E+05	1.80E+07	-14.12	0.0794	No Trend
CB7.3E	SAV1	AP	Cyanobacteria Abundance	<0.0001	6.93E+03	1.00E+04	1520.48	0.9316	Degrading
CB7.3E	SAV1	AP	Number of Species per Replicate	0.0066	-0.38	40.25	-20.50	0.3539	Degrading
CB7.3E	SAV1	AP	Pielou's Evenness	<0.0001	0.009	0.44	42.80	0.8208	Improving
CB7.3E	SAV1	AP	Shannon Weiner Diversity Index	0.0001	0.034	2.27	32.56	0.8262	Improving
CB7.3E	SAV1	AP	Diatom Abundance	0.3045	2.76E+04	1.97E+06	30.76	0.2141	No Trend
CB7.3E	SAV1	AP	Dinoflagellate Abundance	0.0006	6.20E+03	1.01E+05	134.58	0.1019	Degrading
CB7.3E	SAV1	AP	Chlorophyte Abundance	<0.0001	3.75E+03	2.40E+01	343635.09	0.8284	Improving
CB7.3E	SAV1	AP	Cryptophyte Abundance	0.1105	1.07E+04	7.50E+05	31.50	0.4335	No Trend
CB7.3E	SAV1	AP	Number of Genera per replicate	0.0362	-0.250	32.75	-16.79	0.2383	No Trend
CB7.3E	SAV1	AP	Picoplankton Abundance	0.2033	-7.68E+05	2.07E+08	-6.67	0.7149	No Trend
CB7.4	SAV1	AP	Total Abundance	0.0040	1.10E+05	2.43E+06	99.50	0.7094	Increasing
CB7.4	SAV1	AP	Total Biomass	0.0359	6.23E+06	1.73E+08	79.29	0.9075	No Trend
CB7.4	SAV1	AP	Biomass to Abundance Ratio	0.6878	-0.260	70.181	-8.16	0.8365	No Trend
CB7.4	SAV1	AP	Margalef Diversity Index	<0.0001	-0.057	3.01	-42.00	0.9807	Degrading
CB7.4	SAV1	AP	Diatom Biomass	0.0321	4.08E+06	1.39E+08	64.60	0.7304	No Trend
CB7.4	SAV1	AP	Dinoflagellate Biomass	0.0256	1.03E+06	1.82E+07	123.77	0.4382	No Trend
CB7.4	SAV1	AP	Cyanobacteria Biomass	<0.0001	1.64E+04	6.36E+03	5667.34	0.1686	Degrading
CB7.4	SAV1	AP	Chlorophyte Biomass	0.6371	0	1.76E+05	0.00	0.2315	No Trend
CB7.4	SAV1	AP	Picoplankton Biomass	0.6130	-3.84E+05	1.95E+08	-3.54	0.3455	No Trend
CB7.4	SAV1	AP	Cryptophyte Biomass	0.2789	-1.57E+05	9.78E+06	-35.27	0.5171	No Trend
CB7.4	SAV1	AP	Cyanobacteria Abundance	<0.0001	4.93E+03	4.11E+03	2638.95	0.1983	Degrading
CB7.4	SAV1	AP	Number of Species per Replicate	<0.0001	-0.77	45.50	-37.19	0.9604	Degrading
CB7.4	SAV1	AP	Pielou's Evenness	<0.0001	0.008	0.44	38.54	0.7468	Improving
CB7.4	SAV1	AP	Shannon Weiner Diversity Index	0.0014	0.024	2.39	22.49	0.5691	Improving
CB7.4	SAV1	AP	Diatom Abundance	0.1130	4.05E+04	1.75E+06	50.87	0.6111	No Trend
CB7.4	SAV1	AP	Dinoflagellate Abundance	0.0004	6.76E+03	4.16E+04	356.97	0.5930	Degrading
CB7.4	SAV1	AP	Chlorophyte Abundance	0.0003	2.31E+03	7.82E+03	650.85	0.7059	Improving
CB7.4	SAV1	AP	Cryptophyte Abundance	0.2368	8.17E+03	4.07E+05	44.09	0.6444	No Trend
CB7.4	SAV1	AP	Number of Genera per replicate	<0.0001	-0.464	35.00	-29.18	0.9733	Degrading
CB7.4	SAV1	AP	Picoplankton Abundance	0.6130	-2.56E+05	1.30E+08	-3.54	0.3455	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	SAV2	AP	Total Abundance	0.0203	1.35E+05	3.99E+06	74.71	0.0004	No Trend
TF5.5	SAV2	AP	Total Biomass	0.0001	1.43E+07	2.18E+08	143.76	0.3273	Increasing
TF5.5	SAV2	AP	Biomass to Abundance Ratio	0.0231	0.710	36.529	42.75	0.0025	No Trend
TF5.5	SAV2	AP	Margalef Diversity Index	0.0091	-0.018	2.14	-18.29	0.1337	Degrading
TF5.5	SAV2	AP	Diatom Biomass	<0.0001	9.85E+06	1.51E+08	143.28	0.3418	Improving
TF5.5	SAV2	AP	Dinoflagellate Biomass	0.6990	0	6.29E+06	0.00	0.1268	No Trend
TF5.5	SAV2	AP	Cyanobacteria Biomass	<0.0001	1.06E+05	7.90E+05	296.23	0.0221	Degrading
TF5.5	SAV2	AP	Chlorophyte Biomass	<0.0001	1.86E+05	2.83E+05	1449.87	0.1603	Improving
TF5.5	SAV2	AP	Picoplankton Biomass	0.0608	-7.33E+05	8.98E+07	-14.69	0.5506	No Trend
TF5.5	SAV2	AP	Cryptophyte Biomass	0.8380	-6.53E+04	2.07E+07	-6.93	0.9449	No Trend
TF5.5	SAV2	AP	Cyanobacteria Abundance	<0.0001	2.14E+04	4.61E+04	1019.10	0.1307	Degrading
TF5.5	SAV2	AP	Number of Species per Replicate	0.0550	-0.25	32.00	-17.19	0.1223	No Trend
TF5.5	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.45	36.31	0.1948	Improving
TF5.5	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.032	2.33	29.85	0.5043	Improving
TF5.5	SAV2	AP	Diatom Abundance	0.1595	7.39E+04	3.05E+06	53.26	0.0006	No Trend
TF5.5	SAV2	AP	Dinoflagellate Abundance	0.3040	3.01E+01	2.38E+04	2.79	0.1296	No Trend
TF5.5	SAV2	AP	Chlorophyte Abundance	<0.0001	2.80E+04	1.64E+04	3762.61	0.7438	Improving
TF5.5	SAV2	AP	Cryptophyte Abundance	0.0085	1.99E+04	8.64E+05	50.60	0.4288	Increasing
TF5.5	SAV2	AP	Number of Genera per replicate	0.1377	-0.125	28.00	-9.82	0.1922	No Trend
TF5.5	SAV2	AP	Picoplankton Abundance	0.0608	-4.88E+05	5.99E+07	-14.69	0.5506	No Trend
RET5.2	SAV2	AP	Total Abundance	0.0239	1.15E+05	2.64E+06	96.03	0.2508	No Trend
RET5.2	SAV2	AP	Total Biomass	0.0001	1.37E+07	1.37E+08	219.07	0.7530	Increasing
RET5.2	SAV2	AP	Biomass to Abundance Ratio	0.0551	0.571	35.465	35.42	0.0313	No Trend
RET5.2	SAV2	AP	Margalef Diversity Index	0.0006	-0.024	1.70	-30.87	0.3415	Degrading
RET5.2	SAV2	AP	Diatom Biomass	0.0005	8.15E+06	7.52E+07	238.50	0.5292	Improving
RET5.2	SAV2	AP	Dinoflagellate Biomass	0.5867	0	7.07E+06	0.00	0.0413	No Trend
RET5.2	SAV2	AP	Cyanobacteria Biomass	<0.0001	9.54E+04	3.47E+04	6048.84	0.0149	Degrading
RET5.2	SAV2	AP	Chlorophyte Biomass	0.0009	1.40E+05	1.65E+05	1861.03	0.1730	Improving
RET5.2	SAV2	AP	Picoplankton Biomass	0.0497	-9.63E+05	9.15E+07	-18.93	0.6637	No Trend
RET5.2	SAV2	AP	Cryptophyte Biomass	0.4515	1.73E+05	1.81E+07	21.04	0.6194	No Trend
RET5.2	SAV2	AP	Cyanobacteria Abundance	0.0006	1.50E+04	2.51E+04	1319.28	0.0292	Degrading
RET5.2	SAV2	AP	Number of Species per Replicate	0.0020	-0.36	28.00	-28.32	0.2343	Degrading
RET5.2	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.51	29.32	0.1696	Improving
RET5.2	SAV2	AP	Shannon Weiner Diversity Index	0.0002	0.022	2.39	20.49	0.6394	Improving
RET5.2	SAV2	AP	Diatom Abundance	0.5278	3.64E+04	1.30E+06	61.41	0.0427	No Trend
RET5.2	SAV2	AP	Dinoflagellate Abundance	0.0704	0	3.90E+04	0.00	0.1304	No Trend
RET5.2	SAV2	AP	Chlorophyte Abundance	<0.0001	2.83E+04	7.34E+03	8477.00	0.8460	Improving
RET5.2	SAV2	AP	Cryptophyte Abundance	0.0013	2.83E+04	7.54E+05	82.46	0.5934	Increasing
RET5.2	SAV2	AP	Number of Genera per replicate	0.0098	-0.214	24.50	-19.24	0.4130	Degrading
RET5.2	SAV2	AP	Picoplankton Abundance	0.0497	-6.42E+05	6.10E+07	-18.93	0.6637	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	SAV2	AP	Total Abundance	0.0373	8.21E+04	4.16E+06	43.46	0.1064	No Trend
LE5.5	SAV2	AP	Total Biomass	0.0373	7.02E+06	2.13E+08	72.63	0.5470	No Trend
LE5.5	SAV2	AP	Biomass to Abundance Ratio	0.7300	0.134	50.323	5.85	0.2168	No Trend
LE5.5	SAV2	AP	Margalef Diversity Index	0.0121	-0.020	2.25	-19.28	0.1293	No Trend
LE5.5	SAV2	AP	Diatom Biomass	0.0048	6.66E+06	1.40E+08	104.72	0.2462	Improving
LE5.5	SAV2	AP	Dinoflagellate Biomass	0.1639	4.92E+05	1.79E+07	60.38	0.0334	No Trend
LE5.5	SAV2	AP	Cyanobacteria Biomass	<0.0001	9.04E+04	9.94E+03	20024.83	0.7144	Degrading
LE5.5	SAV2	AP	Chlorophyte Biomass	0.1125	1.72E+04	2.80E+05	135.48	0.6578	No Trend
LE5.5	SAV2	AP	Picoplankton Biomass	0.0740	-4.34E+05	8.52E+07	-9.18	0.6497	No Trend
LE5.5	SAV2	AP	Cryptophyte Biomass	0.7480	-8.37E+04	2.13E+07	-8.64	0.4762	No Trend
LE5.5	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.42E+04	7.92E+03	3947.12	0.7068	Degrading
LE5.5	SAV2	AP	Number of Species per Replicate	0.0193	-0.30	36.50	-18.08	0.1674	No Trend
LE5.5	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.48	31.77	0.4442	Improving
LE5.5	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.027	2.41	24.56	0.8318	Improving
LE5.5	SAV2	AP	Diatom Abundance	0.1788	5.75E+04	2.93E+06	43.16	0.2145	No Trend
LE5.5	SAV2	AP	Dinoflagellate Abundance	0.0168	3.05E+03	9.35E+04	71.65	0.0968	No Trend
LE5.5	SAV2	AP	Chlorophyte Abundance	<0.0001	9.12E+03	1.24E+04	1613.51	0.3579	Improving
LE5.5	SAV2	AP	Cryptophyte Abundance	0.0105	2.11E+04	8.89E+05	52.30	0.0721	No Trend
LE5.5	SAV2	AP	Number of Genera per replicate	0.0502	-0.167	30.25	-12.12	0.2554	No Trend
LE5.5	SAV2	AP	Picoplankton Abundance	0.0740	-2.90E+05	5.68E+07	-9.18	0.6497	No Trend
SBE5	SAV2	AP	Total Abundance	0.0946	5.86E+04	2.64E+06	48.73	0.0746	No Trend
SBE5	SAV2	AP	Total Biomass	0.8755	4.13E+05	1.37E+08	6.61	0.0149	No Trend
SBE5	SAV2	AP	Biomass to Abundance Ratio	0.1584	-0.438	39.835	-24.17	0.0903	No Trend
SBE5	SAV2	AP	Margalef Diversity Index	0.0006	-0.027	2.15	-28.00	0.0060	Degrading
SBE5	SAV2	AP	Diatom Biomass	0.1298	2.54E+06	5.12E+07	109.04	0.0033	No Trend
SBE5	SAV2	AP	Dinoflagellate Biomass	0.5308	-1.64E+05	1.19E+07	-30.25	0.0624	No Trend
SBE5	SAV2	AP	Cyanobacteria Biomass	<0.0001	8.87E+04	0.00E+00	N.E.	0.1475	Degrading
SBE5	SAV2	AP	Chlorophyte Biomass	0.1947	1.22E+04	9.33E+04	286.79	0.4057	No Trend
SBE5	SAV2	AP	Picoplankton Biomass	0.3528	-1.67E+05	3.04E+07	-9.88	0.2328	No Trend
SBE5	SAV2	AP	Cryptophyte Biomass	0.7739	-1.02E+05	2.49E+07	-9.05	0.6978	No Trend
SBE5	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.50E+04	7.16E+03	4625.74	0.2459	Degrading
SBE5	SAV2	AP	Number of Species per Replicate	0.0012	-0.43	32.00	-29.46	0.0064	Degrading
SBE5	SAV2	AP	Pielou's Evenness	<0.0001	0.005	0.46	25.10	0.0021	Improving
SBE5	SAV2	AP	Shannon Weiner Diversity Index	0.0231	0.015	2.33	14.59	0.0705	No Trend
SBE5	SAV2	AP	Diatom Abundance	0.7739	1.05E+04	9.43E+05	24.56	0.0117	No Trend
SBE5	SAV2	AP	Dinoflagellate Abundance	0.3959	9.01E+02	5.30E+04	37.39	0.0617	No Trend
SBE5	SAV2	AP	Chlorophyte Abundance	<0.0001	7.75E+03	4.15E+03	4111.68	0.3489	Improving
SBE5	SAV2	AP	Cryptophyte Abundance	0.0344	1.73E+04	1.04E+06	36.80	0.5690	No Trend
SBE5	SAV2	AP	Number of Genera per replicate	0.0020	-0.250	28.00	-19.64	0.0121	Degrading
SBE5	SAV2	AP	Picoplankton Abundance	0.3528	-1.11E+05	2.03E+07	-9.88	0.2328	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	SAV2	AP	Total Abundance	0.0034	1.03E+05	2.67E+06	84.90	0.6704	Increasing
TF4.2	SAV2	AP	Total Biomass	0.0255	4.78E+06	1.49E+08	70.55	0.5831	No Trend
TF4.2	SAV2	AP	Biomass to Abundance Ratio	0.9209	-0.044	39.809	-2.45	0.0639	No Trend
TF4.2	SAV2	AP	Margalef Diversity Index	0.0001	-0.026	1.98	-28.44	0.2909	Degrading
TF4.2	SAV2	AP	Diatom Biomass	0.0019	4.65E+06	5.66E+07	180.70	0.3097	Improving
TF4.2	SAV2	AP	Dinoflagellate Biomass	0.4417	0	7.65E+06	0.00	0.0387	No Trend
TF4.2	SAV2	AP	Cyanobacteria Biomass	<0.0001	1.10E+05	0.00E+00	N.E.	0.6136	Degrading
TF4.2	SAV2	AP	Chlorophyte Biomass	0.0158	4.90E+04	1.87E+05	577.15	0.2708	No Trend
TF4.2	SAV2	AP	Picoplankton Biomass	0.0235	-6.95E+05	1.14E+08	-10.97	0.8637	No Trend
TF4.2	SAV2	AP	Cryptophyte Biomass	0.9308	1.72E+04	1.71E+07	2.22	0.5984	No Trend
TF4.2	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.85E+04	6.77E+03	6001.38	0.5824	Degrading
TF4.2	SAV2	AP	Number of Species per Replicate	0.0010	-0.35	31.00	-24.94	0.1880	Degrading
TF4.2	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.47	31.96	0.2698	Improving
TF4.2	SAV2	AP	Shannon Weiner Diversity Index	0.0007	0.022	2.39	20.24	0.5903	Improving
TF4.2	SAV2	AP	Diatom Abundance	0.1066	3.92E+04	9.75E+05	88.50	0.4584	No Trend
TF4.2	SAV2	AP	Dinoflagellate Abundance	0.8499	0	4.67E+04	0.00	0.0028	No Trend
TF4.2	SAV2	AP	Chlorophyte Abundance	<0.0001	8.98E+03	8.29E+03	2382.27	0.9575	Improving
TF4.2	SAV2	AP	Cryptophyte Abundance	0.0113	1.91E+04	7.11E+05	58.94	0.5929	No Trend
TF4.2	SAV2	AP	Number of Genera per replicate	0.0026	-0.214	27.00	-17.46	0.4153	Degrading
TF4.2	SAV2	AP	Picoplankton Abundance	0.0235	-4.63E+05	7.61E+07	-10.97	0.8637	No Trend
RET4.3	SAV2	AP	Total Abundance	0.0129	1.30E+05	3.98E+06	71.60	0.3635	No Trend
RET4.3	SAV2	AP	Total Biomass	0.0313	6.19E+06	1.63E+08	83.52	0.8194	No Trend
RET4.3	SAV2	AP	Biomass to Abundance Ratio	0.8397	-0.067	39.835	-3.71	0.1441	No Trend
RET4.3	SAV2	AP	Margalef Diversity Index	0.0313	-0.015	1.71	-19.31	0.0481	No Trend
RET4.3	SAV2	AP	Diatom Biomass	0.0004	7.78E+06	6.90E+07	248.25	0.6632	Improving
RET4.3	SAV2	AP	Dinoflagellate Biomass	0.9431	-1.80E+04	2.63E+07	-1.51	0.1020	No Trend
RET4.3	SAV2	AP	Cyanobacteria Biomass	<0.0001	1.26E+05	8.96E+03	30831.13	0.5255	Degrading
RET4.3	SAV2	AP	Chlorophyte Biomass	0.0212	4.53E+04	0.00E+00	N.E.	0.7280	No Trend
RET4.3	SAV2	AP	Picoplankton Biomass	0.2273	-3.82E+05	6.05E+07	-11.35	0.2868	No Trend
RET4.3	SAV2	AP	Cryptophyte Biomass	0.7935	3.95E+04	2.30E+07	3.78	0.6689	No Trend
RET4.3	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.64E+04	2.50E+04	1439.03	0.4743	Degrading
RET4.3	SAV2	AP	Number of Species per Replicate	0.1041	-0.19	28.00	-15.11	0.0399	No Trend
RET4.3	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.46	31.59	0.0862	Improving
RET4.3	SAV2	AP	Shannon Weiner Diversity Index	0.0001	0.025	2.23	24.97	0.3794	Improving
RET4.3	SAV2	AP	Diatom Abundance	0.0419	8.40E+04	1.52E+06	121.88	0.2502	No Trend
RET4.3	SAV2	AP	Dinoflagellate Abundance	0.7751	2.08E+02	1.23E+05	3.74	0.0557	No Trend
RET4.3	SAV2	AP	Chlorophyte Abundance	<0.0001	1.61E+04	0.00E+00	N.E.	0.8614	Improving
RET4.3	SAV2	AP	Cryptophyte Abundance	0.0048	2.72E+04	9.56E+05	62.49	0.3167	Increasing
RET4.3	SAV2	AP	Number of Genera per replicate	0.1773	-0.100	25.00	-8.80	0.0870	No Trend
RET4.3	SAV2	AP	Picoplankton Abundance	0.2273	-2.54E+05	4.04E+07	-11.35	0.2868	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	SAV2	AP	Total Abundance	0.0016	1.39E+05	4.51E+06	67.91	0.5957	Increasing
WE4.2	SAV2	AP	Total Biomass	0.0314	7.28E+06	2.32E+08	69.09	0.7987	No Trend
WE4.2	SAV2	AP	Biomass to Abundance Ratio	0.5084	-0.233	65.849	-7.80	0.1362	No Trend
WE4.2	SAV2	AP	Margalef Diversity Index	0.0003	-0.030	2.43	-27.25	0.2042	Degrading
WE4.2	SAV2	AP	Diatom Biomass	0.0063	6.96E+06	1.58E+08	97.12	0.1984	Improving
WE4.2	SAV2	AP	Dinoflagellate Biomass	0.1982	4.69E+05	2.87E+07	35.93	0.0282	No Trend
WE4.2	SAV2	AP	Cyanobacteria Biomass	<0.0001	8.32E+04	8.82E+03	20740.91	0.5762	Degrading
WE4.2	SAV2	AP	Chlorophyte Biomass	0.2303	1.50E+03	9.33E+04	35.42	0.6819	No Trend
WE4.2	SAV2	AP	Picoplankton Biomass	0.1215	-4.99E+05	5.30E+07	-16.98	0.6037	No Trend
WE4.2	SAV2	AP	Cryptophyte Biomass	0.4487	-1.66E+05	2.08E+07	-17.61	0.9314	No Trend
WE4.2	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.37E+04	7.16E+03	4212.33	0.5473	Degrading
WE4.2	SAV2	AP	Number of Species per Replicate	0.0013	-0.42	38.75	-23.66	0.1437	Degrading
WE4.2	SAV2	AP	Pielou's Evenness	<0.0001	0.006	0.49	28.60	0.2630	Improving
WE4.2	SAV2	AP	Shannon Weiner Diversity Index	0.0010	0.021	2.43	18.68	0.4331	Improving
WE4.2	SAV2	AP	Diatom Abundance	0.0314	9.80E+04	3.15E+06	68.43	0.4909	No Trend
WE4.2	SAV2	AP	Dinoflagellate Abundance	0.0354	2.51E+03	1.30E+05	42.53	0.1918	No Trend
WE4.2	SAV2	AP	Chlorophyte Abundance	<0.0001	6.39E+03	4.15E+03	3388.33	0.3214	Improving
WE4.2	SAV2	AP	Cryptophyte Abundance	0.1457	9.61E+03	8.66E+05	24.42	0.5380	No Trend
WE4.2	SAV2	AP	Number of Genera per replicate	0.0095	-0.250	30.75	-17.89	0.1759	Degrading
WE4.2	SAV2	AP	Picoplankton Abundance	0.1215	-3.33E+05	3.53E+07	-16.98	0.6037	No Trend
TF3.3	SAV2	AP	Total Abundance	<0.0001	2.68E+05	3.06E+06	192.26	0.9422	Increasing
TF3.3	SAV2	AP	Total Biomass	<0.0001	1.37E+07	1.08E+08	277.91	0.4055	Increasing
TF3.3	SAV2	AP	Biomass to Abundance Ratio	0.1982	0.359	29.570	26.73	0.0037	No Trend
TF3.3	SAV2	AP	Margalef Diversity Index	0.0055	-0.019	1.81	-23.48	0.2245	Degrading
TF3.3	SAV2	AP	Diatom Biomass	<0.0001	1.05E+07	6.61E+07	348.73	0.5991	Improving
TF3.3	SAV2	AP	Dinoflagellate Biomass	0.5447	0	3.49E+06	0.00	0.1167	No Trend
TF3.3	SAV2	AP	Cyanobacteria Biomass	<0.0001	2.09E+05	4.09E+05	1121.60	0.7785	Degrading
TF3.3	SAV2	AP	Chlorophyte Biomass	0.0001	2.01E+05	2.80E+05	1582.70	0.1463	Improving
TF3.3	SAV2	AP	Picoplankton Biomass	0.0524	-7.54E+05	9.15E+07	-14.84	0.6720	No Trend
TF3.3	SAV2	AP	Cryptophyte Biomass	0.9234	1.38E+04	1.92E+07	1.58	0.6745	No Trend
TF3.3	SAV2	AP	Cyanobacteria Abundance	<0.0001	3.71E+04	3.97E+04	2057.24	0.6949	Degrading
TF3.3	SAV2	AP	Number of Species per Replicate	0.0579	-0.20	29.00	-15.17	0.1103	No Trend
TF3.3	SAV2	AP	Pielou's Evenness	<0.0001	0.006	0.52	25.50	0.0762	Improving
TF3.3	SAV2	AP	Shannon Weiner Diversity Index	0.0009	0.021	2.41	18.81	0.5852	Improving
TF3.3	SAV2	AP	Diatom Abundance	0.0009	1.35E+05	2.03E+06	145.64	0.9169	Improving
TF3.3	SAV2	AP	Dinoflagellate Abundance	0.1070	1.71E+02	2.16E+04	17.38	0.1598	No Trend
TF3.3	SAV2	AP	Chlorophyte Abundance	<0.0001	2.77E+04	1.24E+04	4893.53	0.8503	Improving
TF3.3	SAV2	AP	Cryptophyte Abundance	0.0091	2.43E+04	8.46E+05	63.09	0.7179	Increasing
TF3.3	SAV2	AP	Number of Genera per replicate	0.1315	-0.125	25.00	-11.00	0.1994	No Trend
TF3.3	SAV2	AP	Picoplankton Abundance	0.0524	-5.03E+05	6.10E+07	-14.84	0.6720	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	SAV2	AP	Total Abundance	0.0001	2.15E+05	4.26E+06	110.87	0.5520	Increasing
RET3.1	SAV2	AP	Total Biomass	0.0032	1.08E+07	1.71E+08	139.04	0.3491	Increasing
RET3.1	SAV2	AP	Biomass to Abundance Ratio	0.9329	0.058	39.835	3.18	0.1581	No Trend
RET3.1	SAV2	AP	Margalef Diversity Index	0.0032	-0.021	2.10	-22.38	0.0212	Degrading
RET3.1	SAV2	AP	Diatom Biomass	0.0004	7.99E+06	6.53E+07	269.04	0.3224	Improving
RET3.1	SAV2	AP	Dinoflagellate Biomass	0.8755	0	1.77E+07	0.00	0.0592	No Trend
RET3.1	SAV2	AP	Cyanobacteria Biomass	<0.0001	1.48E+05	1.31E+04	24850.76	0.0258	Degrading
RET3.1	SAV2	AP	Chlorophyte Biomass	0.0003	1.47E+05	2.51E+05	1287.12	0.2307	Improving
RET3.1	SAV2	AP	Picoplankton Biomass	0.0608	-8.30E+05	9.15E+07	-16.33	0.6657	No Trend
RET3.1	SAV2	AP	Cryptophyte Biomass	0.4486	1.98E+05	1.90E+07	22.88	0.6032	No Trend
RET3.1	SAV2	AP	Cyanobacteria Abundance	<0.0001	2.65E+04	7.92E+03	7376.23	0.2238	Degrading
RET3.1	SAV2	AP	Number of Species per Replicate	0.0263	-0.25	32.00	-17.19	0.0074	No Trend
RET3.1	SAV2	AP	Pielou's Evenness	<0.0001	0.006	0.47	30.49	0.1297	Improving
RET3.1	SAV2	AP	Shannon Weiner Diversity Index	0.0006	0.021	2.33	19.49	0.5943	Improving
RET3.1	SAV2	AP	Diatom Abundance	0.0120	1.07E+05	2.51E+06	94.19	0.5747	No Trend
RET3.1	SAV2	AP	Dinoflagellate Abundance	0.6383	1.24E+02	1.30E+05	2.11	0.0569	No Trend
RET3.1	SAV2	AP	Chlorophyte Abundance	<0.0001	2.81E+04	1.24E+04	4966.53	0.3646	Improving
RET3.1	SAV2	AP	Cryptophyte Abundance	0.0018	3.08E+04	7.91E+05	85.58	0.7270	Increasing
RET3.1	SAV2	AP	Number of Genera per replicate	0.0868	-0.143	28.00	-11.22	0.0171	No Trend
RET3.1	SAV2	AP	Picoplankton Abundance	0.0608	-5.54E+05	6.10E+07	-16.33	0.6657	No Trend
LE3.6	SAV2	AP	Total Abundance	0.0012	1.47E+05	4.07E+06	79.15	0.7622	Increasing
LE3.6	SAV2	AP	Total Biomass	0.0731	6.18E+06	2.89E+08	47.01	0.6006	No Trend
LE3.6	SAV2	AP	Biomass to Abundance Ratio	0.2017	-0.405	81.598	-10.93	0.1387	No Trend
LE3.6	SAV2	AP	Margalef Diversity Index	0.0008	-0.024	2.15	-24.86	0.1772	Degrading
LE3.6	SAV2	AP	Diatom Biomass	0.0093	7.08E+06	2.14E+08	72.77	0.1803	Improving
LE3.6	SAV2	AP	Dinoflagellate Biomass	0.0239	6.61E+05	1.29E+07	112.98	0.0059	No Trend
LE3.6	SAV2	AP	Cyanobacteria Biomass	<0.0001	9.42E+04	1.29E+04	16088.31	0.1082	Degrading
LE3.6	SAV2	AP	Chlorophyte Biomass	0.1463	1.16E+04	2.80E+05	91.54	0.6125	No Trend
LE3.6	SAV2	AP	Picoplankton Biomass	0.0041	-7.25E+05	6.03E+07	-21.63	0.4508	Improving
LE3.6	SAV2	AP	Cryptophyte Biomass	0.5153	-1.27E+05	2.32E+07	-12.04	0.5396	No Trend
LE3.6	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.79E+04	7.92E+03	4975.34	0.3235	Degrading
LE3.6	SAV2	AP	Number of Species per Replicate	0.0033	-0.33	34.00	-21.57	0.1113	Degrading
LE3.6	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.48	33.04	0.8760	Improving
LE3.6	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.024	2.41	22.22	0.7677	Improving
LE3.6	SAV2	AP	Diatom Abundance	0.0080	1.08E+05	2.38E+06	100.09	0.9358	Improving
LE3.6	SAV2	AP	Dinoflagellate Abundance	0.0015	3.62E+03	1.20E+05	66.34	0.1557	Degrading
LE3.6	SAV2	AP	Chlorophyte Abundance	<0.0001	8.23E+03	1.24E+04	1454.96	0.5704	Improving
LE3.6	SAV2	AP	Cryptophyte Abundance	0.0118	2.05E+04	9.68E+05	46.56	0.4146	No Trend
LE3.6	SAV2	AP	Number of Genera per replicate	0.0174	-0.200	28.25	-15.58	0.1533	No Trend
LE3.6	SAV2	AP	Picoplankton Abundance	0.0041	-4.83E+05	4.02E+07	-21.63	0.4508	Improving

Appendix E. Continued..

tStation	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	SAV2	AP	Total Abundance	0.0084	1.14E+05	3.98E+06	63.16	0.5047	Increasing
CB6.1	SAV2	AP	Total Biomass	0.0504	6.49E+06	2.16E+08	66.23	0.6866	No Trend
CB6.1	SAV2	AP	Biomass to Abundance Ratio	0.4155	-0.287	73.568	-8.59	0.2068	No Trend
CB6.1	SAV2	AP	Margalef Diversity Index	0.0054	-0.018	2.15	-18.73	0.1772	Degrading
CB6.1	SAV2	AP	Diatom Biomass	0.0034	7.12E+06	1.60E+08	97.79	0.3362	Improving
CB6.1	SAV2	AP	Dinoflagellate Biomass	0.0156	6.99E+05	1.26E+07	122.34	0.0061	No Trend
CB6.1	SAV2	AP	Cyanobacteria Biomass	<0.0001	6.50E+04	3.92E+03	36446.06	0.1682	Degrading
CB6.1	SAV2	AP	Chlorophyte Biomass	0.3533	7.23E+02	1.87E+05	8.49	0.7023	No Trend
CB6.1	SAV2	AP	Picoplankton Biomass	0.0390	-8.40E+05	7.94E+07	-19.05	0.8081	No Trend
CB6.1	SAV2	AP	Cryptophyte Biomass	0.1287	-3.83E+05	2.17E+07	-38.80	0.9298	No Trend
CB6.1	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.03E+04	7.92E+03	2853.43	0.1979	Degrading
CB6.1	SAV2	AP	Number of Species per Replicate	0.0186	-0.29	33.00	-19.05	0.1354	No Trend
CB6.1	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.47	32.18	0.3856	Improving
CB6.1	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.027	2.35	25.55	0.6911	Improving
CB6.1	SAV2	AP	Diatom Abundance	0.0245	8.40E+04	2.40E+06	77.13	0.7266	No Trend
CB6.1	SAV2	AP	Dinoflagellate Abundance	0.0001	4.97E+03	1.05E+05	103.96	0.0288	Degrading
CB6.1	SAV2	AP	Chlorophyte Abundance	<0.0001	7.28E+03	8.36E+03	1915.50	0.5044	Improving
CB6.1	SAV2	AP	Cryptophyte Abundance	0.1349	9.47E+03	9.04E+05	23.05	0.5812	No Trend
CB6.1	SAV2	AP	Number of Genera per replicate	0.0901	-0.143	28.00	-11.22	0.1296	No Trend
CB6.1	SAV2	AP	Picoplankton Abundance	0.0390	-5.60E+05	5.29E+07	-19.05	0.8081	No Trend
CB6.4	SAV2	AP	Total Abundance	0.0002	1.42E+05	3.54E+06	88.22	0.7865	Increasing
CB6.4	SAV2	AP	Total Biomass	0.0044	9.98E+06	2.02E+08	108.51	0.9297	Increasing
CB6.4	SAV2	AP	Biomass to Abundance Ratio	0.6564	-0.177	73.753	-5.29	0.1326	No Trend
CB6.4	SAV2	AP	Margalef Diversity Index	0.0023	-0.021	2.15	-21.01	0.2351	Degrading
CB6.4	SAV2	AP	Diatom Biomass	0.0009	8.25E+06	1.32E+08	137.04	0.5576	Improving
CB6.4	SAV2	AP	Dinoflagellate Biomass	0.0375	6.80E+05	1.19E+07	125.61	0.0257	No Trend
CB6.4	SAV2	AP	Cyanobacteria Biomass	<0.0001	8.96E+04	0.00E+00	N.E.	0.8190	Degrading
CB6.4	SAV2	AP	Chlorophyte Biomass	0.0576	1.06E+04	4.67E+04	500.49	0.4548	No Trend
CB6.4	SAV2	AP	Picoplankton Biomass	0.0215	-7.20E+05	8.92E+07	-14.52	0.8733	No Trend
CB6.4	SAV2	AP	Cryptophyte Biomass	0.7637	-7.73E+04	1.64E+07	-10.38	0.5321	No Trend
CB6.4	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.45E+04	2.30E+04	1388.63	0.2266	Degrading
CB6.4	SAV2	AP	Number of Species per Replicate	0.0186	-0.25	32.50	-16.92	0.1540	No Trend
CB6.4	SAV2	AP	Pielou's Evenness	<0.0001	0.008	0.46	36.96	0.7105	Improving
CB6.4	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.031	2.36	28.61	0.8597	Improving
CB6.4	SAV2	AP	Diatom Abundance	0.0120	8.91E+04	2.00E+06	98.10	0.8609	No Trend
CB6.4	SAV2	AP	Dinoflagellate Abundance	0.0001	4.83E+03	5.30E+04	200.56	0.0532	Degrading
CB6.4	SAV2	AP	Chlorophyte Abundance	<0.0001	7.49E+03	2.07E+03	7949.60	0.6001	Improving
CB6.4	SAV2	AP	Cryptophyte Abundance	0.0097	2.06E+04	6.82E+05	66.39	0.2051	Increasing
CB6.4	SAV2	AP	Number of Genera per replicate	0.1035	-0.167	26.75	-13.71	0.1962	No Trend
CB6.4	SAV2	AP	Picoplankton Abundance	0.0215	-4.80E+05	5.95E+07	-14.52	0.8733	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	SAV2	AP	Total Abundance	0.0043	1.04E+05	3.07E+06	74.51	0.5457	Increasing
CB7.3E	SAV2	AP	Total Biomass	0.0533	5.60E+06	2.00E+08	61.45	0.6142	No Trend
CB7.3E	SAV2	AP	Biomass to Abundance Ratio	0.8745	-0.067	71.616	-2.06	0.2355	No Trend
CB7.3E	SAV2	AP	Margalef Diversity Index	0.0008	-0.024	2.27	-22.80	0.2837	Degrading
CB7.3E	SAV2	AP	Diatom Biomass	0.0078	5.58E+06	9.79E+07	125.42	0.2136	Improving
CB7.3E	SAV2	AP	Dinoflagellate Biomass	0.1414	4.69E+05	2.72E+07	37.91	0.0515	No Trend
CB7.3E	SAV2	AP	Cyanobacteria Biomass	<0.0001	7.02E+04	0.00E+00	N.E.	0.5607	Degrading
CB7.3E	SAV2	AP	Chlorophyte Biomass	0.1263	3.13E+02	9.33E+04	7.39	0.5262	No Trend
CB7.3E	SAV2	AP	Picoplankton Biomass	0.0105	-9.92E+05	9.15E+07	-19.50	0.9004	No Trend
CB7.3E	SAV2	AP	Cryptophyte Biomass	0.0412	-4.20E+05	2.10E+07	-44.00	0.6582	No Trend
CB7.3E	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.13E+04	7.92E+03	3135.24	0.5255	Degrading
CB7.3E	SAV2	AP	Number of Species per Replicate	0.0048	-0.31	36.25	-18.97	0.2075	Degrading
CB7.3E	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.49	30.36	0.5241	Improving
CB7.3E	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.026	2.41	23.94	0.8850	Improving
CB7.3E	SAV2	AP	Diatom Abundance	0.0334	7.60E+04	2.04E+06	81.99	0.3850	No Trend
CB7.3E	SAV2	AP	Dinoflagellate Abundance	0.0072	3.16E+03	9.29E+04	74.83	0.1881	Degrading
CB7.3E	SAV2	AP	Chlorophyte Abundance	<0.0001	5.04E+03	4.15E+03	2674.76	0.6399	Improving
CB7.3E	SAV2	AP	Cryptophyte Abundance	0.3815	6.29E+03	8.74E+05	15.82	0.2479	No Trend
CB7.3E	SAV2	AP	Number of Genera per replicate	0.0168	-0.188	30.75	-13.41	0.2596	No Trend
CB7.3E	SAV2	AP	Picoplankton Abundance	0.0105	-6.61E+05	6.10E+07	-19.50	0.9004	No Trend
CB7.4	SAV2	AP	Total Abundance	0.0072	1.14E+05	3.73E+06	67.50	0.6423	Increasing
CB7.4	SAV2	AP	Total Biomass	0.0216	6.28E+06	2.00E+08	68.94	0.8354	No Trend
CB7.4	SAV2	AP	Biomass to Abundance Ratio	0.7985	-0.109	60.453	-3.98	0.1498	No Trend
CB7.4	SAV2	AP	Margalef Diversity Index	0.0001	-0.030	2.32	-27.94	0.1386	Degrading
CB7.4	SAV2	AP	Diatom Biomass	0.0050	6.81E+06	9.41E+07	159.25	0.2792	Improving
CB7.4	SAV2	AP	Dinoflagellate Biomass	0.0564	5.84E+05	1.92E+07	67.04	0.0305	No Trend
CB7.4	SAV2	AP	Cyanobacteria Biomass	<0.0001	7.37E+04	0.00E+00	N.E.	0.5795	Degrading
CB7.4	SAV2	AP	Chlorophyte Biomass	0.3746	0	1.03E+03	0.00	0.5379	No Trend
CB7.4	SAV2	AP	Picoplankton Biomass	0.0237	-1.02E+06	1.24E+08	-14.85	0.7866	No Trend
CB7.4	SAV2	AP	Cryptophyte Biomass	0.7154	-7.73E+04	1.61E+07	-10.59	0.9594	No Trend
CB7.4	SAV2	AP	Cyanobacteria Abundance	<0.0001	1.24E+04	3.50E+03	7806.57	0.4630	Degrading
CB7.4	SAV2	AP	Number of Species per Replicate	0.0013	-0.38	36.50	-22.60	0.0775	Degrading
CB7.4	SAV2	AP	Pielou's Evenness	<0.0001	0.007	0.46	34.91	0.6336	Improving
CB7.4	SAV2	AP	Shannon Weiner Diversity Index	<0.0001	0.029	2.33	27.09	0.9006	Improving
CB7.4	SAV2	AP	Diatom Abundance	0.0596	5.87E+04	2.51E+06	51.51	0.6521	No Trend
CB7.4	SAV2	AP	Dinoflagellate Abundance	0.0018	4.09E+03	7.10E+04	126.80	0.1126	Degrading
CB7.4	SAV2	AP	Chlorophyte Abundance	<0.0001	5.39E+03	6.40E+01	185120.00	0.6147	Improving
CB7.4	SAV2	AP	Cryptophyte Abundance	0.0564	1.10E+04	6.69E+05	36.08	0.6935	No Trend
CB7.4	SAV2	AP	Number of Genera per replicate	0.0040	-0.250	31.00	-17.74	0.0832	Degrading
CB7.4	SAV2	AP	Picoplankton Abundance	0.0237	-6.81E+05	8.25E+07	-14.85	0.7866	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Spring1	AP	Total Abundance	0.9148	8.11E+04	1.75E+07	9.76	0.0002	No Trend
TF5.5	Spring1	AP	Total Biomass	0.0017	3.84E+07	4.06E+08	198.76	0.1040	Increasing
TF5.5	Spring1	AP	Biomass to Abundance Ratio	0.0004	2.152	26.888	168.11	0.0800	Improving
TF5.5	Spring1	AP	Margalef Diversity Index	0.4326	-0.007	2.00	-7.81	0.6095	No Trend
TF5.5	Spring1	AP	Diatom Biomass	0.0246	2.24E+07	3.73E+08	126.31	0.1137	No Trend
TF5.5	Spring1	AP	Dinoflagellate Biomass	0.6783	0	4.58E+05	0.00	0.8107	No Trend
TF5.5	Spring1	AP	Cyanobacteria Biomass	0.4538	1.51E+05	7.70E+06	41.19	0.6159	No Trend
TF5.5	Spring1	AP	Chlorophyte Biomass	<0.0001	1.20E+07	1.17E+06	21468.28	0.5790	Improving
TF5.5	Spring1	AP	Picoplankton Biomass	0.6248	-1.02E+05	2.38E+07	-7.32	0.4787	No Trend
TF5.5	Spring1	AP	Cryptophyte Biomass	0.8584	7.38E+04	1.31E+07	11.85	0.7425	No Trend
TF5.5	Spring1	AP	Cyanobacteria Abundance	0.0353	2.97E+04	3.78E+05	165.20	0.2087	No Trend
TF5.5	Spring1	AP	Number of Species per Replicate	0.7883	0.00	34.00	0.00	0.9675	No Trend
TF5.5	Spring1	AP	Pielou's Evenness	0.0004	0.010	0.44	49.22	0.1441	Improving
TF5.5	Spring1	AP	Shannon Weiner Diversity Index	0.0039	0.053	2.33	48.09	0.2091	Improving
TF5.5	Spring1	AP	Diatom Abundance	0.5208	-1.25E+05	1.52E+07	-17.19	0.0003	No Trend
TF5.5	Spring1	AP	Dinoflagellate Abundance	0.8567	0	1.66E+03	0.00	0.7799	No Trend
TF5.5	Spring1	AP	Chlorophyte Abundance	<0.0001	1.31E+05	6.39E+04	4309.34	0.3934	Improving
TF5.5	Spring1	AP	Cryptophyte Abundance	0.0689	2.06E+04	5.45E+05	79.57	0.2264	No Trend
TF5.5	Spring1	AP	Number of Genera per replicate	0.8719	0.000	29.50	0.00	0.9471	No Trend
TF5.5	Spring1	AP	Picoplankton Abundance	0.6248	-6.83E+04	1.59E+07	-7.32	0.4787	No Trend
RET5.2	Spring1	AP	Total Abundance	0.9855	-6.63E+03	6.74E+06	-2.07	0.4246	No Trend
RET5.2	Spring1	AP	Total Biomass	0.0014	2.85E+07	1.66E+08	360.81	0.5257	Increasing
RET5.2	Spring1	AP	Biomass to Abundance Ratio	0.0023	1.785	25.916	144.65	0.7480	Improving
RET5.2	Spring1	AP	Margalef Diversity Index	0.0431	-0.023	1.41	-33.50	0.9949	No Trend
RET5.2	Spring1	AP	Diatom Biomass	0.1956	8.15E+06	9.43E+07	181.45	0.5059	No Trend
RET5.2	Spring1	AP	Dinoflagellate Biomass	0.4952	0	0.00E+00	N.E.	0.2077	No Trend
RET5.2	Spring1	AP	Cyanobacteria Biomass	0.7019	3.71E+04	1.26E+06	61.83	0.8914	No Trend
RET5.2	Spring1	AP	Chlorophyte Biomass	0.0006	7.69E+06	1.84E+05	87654.48	0.1685	Improving
RET5.2	Spring1	AP	Picoplankton Biomass	0.5467	-2.30E+05	2.91E+07	-13.42	0.6199	No Trend
RET5.2	Spring1	AP	Cryptophyte Biomass	0.1047	7.15E+05	1.08E+07	138.83	0.6577	No Trend
RET5.2	Spring1	AP	Cyanobacteria Abundance	0.9274	1.27E+03	1.71E+05	15.54	0.9379	No Trend
RET5.2	Spring1	AP	Number of Species per Replicate	0.0441	-0.42	24.00	-36.46	0.8609	No Trend
RET5.2	Spring1	AP	Pielou's Evenness	0.0074	0.007	0.55	28.29	0.4060	Improving
RET5.2	Spring1	AP	Shannon Weiner Diversity Index	0.0972	0.021	2.40	18.75	0.6665	No Trend
RET5.2	Spring1	AP	Diatom Abundance	0.0656	-2.88E+05	3.84E+06	-157.56	0.3248	No Trend
RET5.2	Spring1	AP	Dinoflagellate Abundance	0.3345	0	0.00E+00	N.E.	0.3811	No Trend
RET5.2	Spring1	AP	Chlorophyte Abundance	<0.0001	1.47E+05	2.02E+04	15250.17	0.5649	Improving
RET5.2	Spring1	AP	Cryptophyte Abundance	0.0070	5.05E+04	4.50E+05	235.64	0.4954	Increasing
RET5.2	Spring1	AP	Number of Genera per replicate	0.1433	-0.250	20.50	-25.61	0.9327	No Trend
RET5.2	Spring1	AP	Picoplankton Abundance	0.5467	-1.53E+05	1.94E+07	-13.42	0.6199	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Spring1	AP	Total Abundance	0.8343	-1.06E+04	8.93E+06	-2.50	0.1888	No Trend
LE5.5	Spring1	AP	Total Biomass	0.5533	4.98E+06	7.18E+08	14.57	0.4380	No Trend
LE5.5	Spring1	AP	Biomass to Abundance Ratio	0.5077	0.559	66.653	17.62	0.8632	No Trend
LE5.5	Spring1	AP	Margalef Diversity Index	0.5077	-0.009	2.38	-7.78	0.6424	No Trend
LE5.5	Spring1	AP	Diatom Biomass	0.7273	1.57E+06	6.29E+08	5.25	0.5613	No Trend
LE5.5	Spring1	AP	Dinoflagellate Biomass	0.0597	3.41E+06	2.41E+07	297.05	0.2925	No Trend
LE5.5	Spring1	AP	Cyanobacteria Biomass	0.0005	8.32E+04	2.73E+05	640.41	0.9621	Degrading
LE5.5	Spring1	AP	Chlorophyte Biomass	0.3923	2.07E+04	6.25E+05	69.42	0.4973	No Trend
LE5.5	Spring1	AP	Picoplankton Biomass	0.7036	-7.46E+04	1.10E+07	-11.58	0.7503	No Trend
LE5.5	Spring1	AP	Cryptophyte Biomass	1.0000	2.04E+03	2.04E+07	0.21	0.1350	No Trend
LE5.5	Spring1	AP	Cyanobacteria Abundance	0.0005	1.03E+04	6.46E+04	333.59	0.9588	Degrading
LE5.5	Spring1	AP	Number of Species per Replicate	0.3635	-0.20	38.75	-10.84	0.8561	No Trend
LE5.5	Spring1	AP	Pielou's Evenness	0.0002	0.008	0.50	32.49	0.4062	Improving
LE5.5	Spring1	AP	Shannon Weiner Diversity Index	0.0059	0.031	2.70	23.85	0.6590	Improving
LE5.5	Spring1	AP	Diatom Abundance	0.4856	-4.86E+04	6.94E+06	-14.72	0.4162	No Trend
LE5.5	Spring1	AP	Dinoflagellate Abundance	0.0646	1.19E+04	1.96E+05	127.70	0.2479	No Trend
LE5.5	Spring1	AP	Chlorophyte Abundance	0.0003	1.11E+04	2.78E+04	836.18	0.1406	Improving
LE5.5	Spring1	AP	Cryptophyte Abundance	0.0875	2.49E+04	8.51E+05	61.51	0.0167	No Trend
LE5.5	Spring1	AP	Number of Genera per replicate	0.5754	-0.067	30.75	-4.55	0.7202	No Trend
LE5.5	Spring1	AP	Picoplankton Abundance	0.7036	-4.97E+04	7.30E+06	-11.58	0.7503	No Trend
SBE5	Spring1	AP	Total Abundance	0.1970	-8.83E+04	2.56E+06	-62.12	0.9105	No Trend
SBE5	Spring1	AP	Total Biomass	0.0048	-9.72E+06	1.02E+08	-171.70	0.9497	Decreasing
SBE5	Spring1	AP	Biomass to Abundance Ratio	0.0304	-1.473	41.106	-64.51	0.5932	No Trend
SBE5	Spring1	AP	Margalef Diversity Index	0.0466	-0.034	2.78	-22.17	0.0049	No Trend
SBE5	Spring1	AP	Diatom Biomass	0.0272	-5.93E+06	6.83E+07	-156.28	0.6679	No Trend
SBE5	Spring1	AP	Dinoflagellate Biomass	0.2126	-5.22E+05	1.43E+07	-65.62	0.4994	No Trend
SBE5	Spring1	AP	Cyanobacteria Biomass	0.0287	5.67E+04	1.18E+05	863.75	0.3888	No Trend
SBE5	Spring1	AP	Chlorophyte Biomass	0.7425	1.46E+03	1.96E+06	1.34	0.2468	No Trend
SBE5	Spring1	AP	Picoplankton Biomass	0.3527	9.04E+04	3.57E+06	43.04	0.6217	No Trend
SBE5	Spring1	AP	Cryptophyte Biomass	0.9129	5.80E+04	1.10E+07	9.48	0.2957	No Trend
SBE5	Spring1	AP	Cyanobacteria Abundance	0.0442	8.10E+03	3.06E+04	475.99	0.5551	No Trend
SBE5	Spring1	AP	Number of Species per Replicate	0.0225	-0.60	41.50	-26.02	0.0078	No Trend
SBE5	Spring1	AP	Pielou's Evenness	0.9826	0.000	0.56	0.17	0.9478	No Trend
SBE5	Spring1	AP	Shannon Weiner Diversity Index	0.4184	-0.012	3.03	-7.21	0.9478	No Trend
SBE5	Spring1	AP	Diatom Abundance	0.0042	-1.13E+05	1.82E+06	-111.55	0.9478	Degrading
SBE5	Spring1	AP	Dinoflagellate Abundance	0.5117	-1.86E+03	7.60E+04	-43.99	0.4481	No Trend
SBE5	Spring1	AP	Chlorophyte Abundance	0.0377	6.91E+03	1.85E+04	672.34	0.6166	No Trend
SBE5	Spring1	AP	Cryptophyte Abundance	0.3251	1.32E+04	4.59E+05	51.95	0.4661	No Trend
SBE5	Spring1	AP	Number of Genera per replicate	0.0223	-0.500	37.50	-24.00	0.0068	No Trend
SBE5	Spring1	AP	Picoplankton Abundance	0.3527	6.03E+04	2.38E+06	43.04	0.6217	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Spring1	AP	Total Abundance	0.3472	6.36E+04	4.39E+06	29.01	0.7623	No Trend
TF4.2	Spring1	AP	Total Biomass	0.4543	2.47E+06	1.25E+08	39.69	0.4374	No Trend
TF4.2	Spring1	AP	Biomass to Abundance Ratio	0.9847	0.011	38.751	0.58	0.1360	No Trend
TF4.2	Spring1	AP	Margalef Diversity Index	0.0077	-0.028	1.74	-32.55	0.6632	Degrading
TF4.2	Spring1	AP	Diatom Biomass	0.5267	1.44E+06	1.09E+08	26.38	0.5178	No Trend
TF4.2	Spring1	AP	Dinoflagellate Biomass	0.1626	0	2.47E+05	0.00	0.3044	No Trend
TF4.2	Spring1	AP	Cyanobacteria Biomass	0.0004	1.29E+05	3.43E+03	75298.48	0.6750	Degrading
TF4.2	Spring1	AP	Chlorophyte Biomass	0.0347	1.28E+05	3.75E+05	680.94	0.1127	No Trend
TF4.2	Spring1	AP	Picoplankton Biomass	0.2819	-2.92E+05	7.32E+07	-6.79	0.9645	No Trend
TF4.2	Spring1	AP	Cryptophyte Biomass	0.5141	2.60E+05	8.08E+06	64.48	0.2751	No Trend
TF4.2	Spring1	AP	Cyanobacteria Abundance	0.0010	1.72E+04	1.82E+03	18939.93	0.6966	Degrading
TF4.2	Spring1	AP	Number of Species per Replicate	0.0206	-0.36	27.50	-25.97	0.6024	No Trend
TF4.2	Spring1	AP	Pielou's Evenness	0.0048	0.008	0.48	32.41	0.6578	Improving
TF4.2	Spring1	AP	Shannon Weiner Diversity Index	0.2268	0.020	2.36	16.79	0.8951	No Trend
TF4.2	Spring1	AP	Diatom Abundance	0.6590	-1.36E+04	1.96E+06	-13.82	0.9473	No Trend
TF4.2	Spring1	AP	Dinoflagellate Abundance	0.1102	0	3.59E+03	0.00	0.0363	No Trend
TF4.2	Spring1	AP	Chlorophyte Abundance	<0.0001	9.95E+03	1.96E+04	1016.81	0.9487	Improving
TF4.2	Spring1	AP	Cryptophyte Abundance	0.0951	1.99E+04	3.36E+05	118.32	0.4128	No Trend
TF4.2	Spring1	AP	Number of Genera per replicate	0.0338	-0.222	22.50	-19.75	0.8312	No Trend
TF4.2	Spring1	AP	Picoplankton Abundance	0.2819	-1.95E+05	4.88E+07	-6.79	0.9645	No Trend
RET4.3	Spring1	AP	Total Abundance	0.7013	7.87E+04	7.67E+06	21.54	0.4798	No Trend
RET4.3	Spring1	AP	Total Biomass	0.4856	3.01E+06	3.58E+08	17.65	0.9915	No Trend
RET4.3	Spring1	AP	Biomass to Abundance Ratio	0.8891	-0.101	35.577	-5.99	0.4072	No Trend
RET4.3	Spring1	AP	Margalef Diversity Index	0.8891	-0.002	1.61	-3.07	0.3224	No Trend
RET4.3	Spring1	AP	Diatom Biomass	0.1631	6.67E+06	1.23E+08	113.94	0.7766	No Trend
RET4.3	Spring1	AP	Dinoflagellate Biomass	0.7936	-5.04E+04	8.59E+07	-1.23	0.6173	No Trend
RET4.3	Spring1	AP	Cyanobacteria Biomass	0.0002	1.58E+05	3.13E+05	1058.15	0.4337	Degrading
RET4.3	Spring1	AP	Chlorophyte Biomass	0.0566	1.95E+05	0.00E+00	N.E.	0.6286	No Trend
RET4.3	Spring1	AP	Picoplankton Biomass	0.6343	8.52E+04	2.06E+07	7.05	0.4419	No Trend
RET4.3	Spring1	AP	Cryptophyte Biomass	0.3929	4.46E+05	2.25E+07	41.66	0.3794	No Trend
RET4.3	Spring1	AP	Cyanobacteria Abundance	0.0055	1.27E+04	5.74E+04	465.99	0.7114	Degrading
RET4.3	Spring1	AP	Number of Species per Replicate	0.8885	0.00	26.00	0.00	0.3505	No Trend
RET4.3	Spring1	AP	Pielou's Evenness	0.0161	0.007	0.44	33.52	0.2780	No Trend
RET4.3	Spring1	AP	Shannon Weiner Diversity Index	0.0469	0.029	2.05	29.98	0.2017	No Trend
RET4.3	Spring1	AP	Diatom Abundance	0.7537	2.73E+04	4.50E+06	12.73	0.1350	No Trend
RET4.3	Spring1	AP	Dinoflagellate Abundance	0.2155	-6.47E+03	8.80E+05	-15.44	0.8106	No Trend
RET4.3	Spring1	AP	Chlorophyte Abundance	<0.0001	3.32E+04	0.00E+00	N.E.	0.5886	Improving
RET4.3	Spring1	AP	Cryptophyte Abundance	0.0364	4.16E+04	9.36E+05	93.34	0.1380	No Trend
RET4.3	Spring1	AP	Number of Genera per replicate	0.7396	0.000	23.00	0.00	0.3900	No Trend
RET4.3	Spring1	AP	Picoplankton Abundance	0.6343	5.68E+04	1.37E+07	7.05	0.4419	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Spring1	AP	Total Abundance	0.1752	1.35E+05	7.85E+06	36.22	0.3892	No Trend
WE4.2	Spring1	AP	Total Biomass	0.4979	5.44E+06	5.95E+08	19.19	0.9403	No Trend
WE4.2	Spring1	AP	Biomass to Abundance Ratio	0.4119	-0.826	67.719	-25.60	0.4259	No Trend
WE4.2	Spring1	AP	Margalef Diversity Index	0.0224	-0.040	2.58	-32.25	0.4160	No Trend
WE4.2	Spring1	AP	Diatom Biomass	0.8584	1.47E+06	4.54E+08	6.80	0.5393	No Trend
WE4.2	Spring1	AP	Dinoflagellate Biomass	0.0805	2.33E+06	6.63E+07	73.81	0.2121	No Trend
WE4.2	Spring1	AP	Cyanobacteria Biomass	0.0015	5.73E+04	2.25E+04	5339.04	0.8526	Degrading
WE4.2	Spring1	AP	Chlorophyte Biomass	0.7865	0	2.28E+05	0.00	0.6882	No Trend
WE4.2	Spring1	AP	Picoplankton Biomass	1.0000	-7.52E+03	1.09E+07	-1.18	0.9102	No Trend
WE4.2	Spring1	AP	Cryptophyte Biomass	0.5208	-1.58E+05	2.03E+07	-16.35	0.6398	No Trend
WE4.2	Spring1	AP	Cyanobacteria Abundance	0.0030	9.82E+03	2.17E+04	952.09	0.7908	Degrading
WE4.2	Spring1	AP	Number of Species per Replicate	0.0289	-0.52	41.75	-26.12	0.4138	No Trend
WE4.2	Spring1	AP	Pielou's Evenness	0.0024	0.006	0.54	22.64	0.4772	Improving
WE4.2	Spring1	AP	Shannon Weiner Diversity Index	0.2688	0.019	2.96	13.18	0.5739	No Trend
WE4.2	Spring1	AP	Diatom Abundance	0.6428	7.17E+04	6.87E+06	21.89	0.3409	No Trend
WE4.2	Spring1	AP	Dinoflagellate Abundance	0.1536	9.83E+03	4.05E+05	50.96	0.6327	No Trend
WE4.2	Spring1	AP	Chlorophyte Abundance	0.0170	3.97E+03	1.01E+04	823.07	0.3590	No Trend
WE4.2	Spring1	AP	Cryptophyte Abundance	0.9431	5.08E+02	8.45E+05	1.26	0.7677	No Trend
WE4.2	Spring1	AP	Number of Genera per replicate	0.1372	-0.304	33.00	-19.34	0.2493	No Trend
WE4.2	Spring1	AP	Picoplankton Abundance	1.0000	-5.01E+03	7.25E+06	-1.18	0.9102	No Trend
TF3.3	Spring1	AP	Total Abundance	0.0001	7.52E+05	3.53E+06	447.55	0.8543	Increasing
TF3.3	Spring1	AP	Total Biomass	<0.0001	3.22E+07	8.99E+07	752.22	0.2725	Increasing
TF3.3	Spring1	AP	Biomass to Abundance Ratio	0.0385	1.032	23.994	90.28	0.0127	No Trend
TF3.3	Spring1	AP	Margalef Diversity Index	0.3009	-0.007	1.58	-9.30	0.9759	No Trend
TF3.3	Spring1	AP	Diatom Biomass	<0.0001	2.09E+07	7.80E+07	561.64	0.2155	Improving
TF3.3	Spring1	AP	Dinoflagellate Biomass	0.4573	0	2.01E+05	0.00	0.7831	No Trend
TF3.3	Spring1	AP	Cyanobacteria Biomass	0.0001	6.24E+05	1.89E+06	693.29	0.8115	Degrading
TF3.3	Spring1	AP	Chlorophyte Biomass	<0.0001	4.39E+06	2.82E+06	3271.94	0.4279	Improving
TF3.3	Spring1	AP	Picoplankton Biomass	0.5572	-2.74E+05	2.13E+07	-21.90	0.6973	No Trend
TF3.3	Spring1	AP	Cryptophyte Biomass	0.5324	2.09E+05	6.76E+06	64.93	0.3453	No Trend
TF3.3	Spring1	AP	Cyanobacteria Abundance	0.0001	1.62E+05	2.88E+05	1185.87	0.7554	Degrading
TF3.3	Spring1	AP	Number of Species per Replicate	0.8156	0.00	25.00	0.00	0.8527	No Trend
TF3.3	Spring1	AP	Pielou's Evenness	0.0868	0.004	0.56	15.13	0.9475	No Trend
TF3.3	Spring1	AP	Shannon Weiner Diversity Index	0.2391	0.015	2.52	12.40	0.9404	No Trend
TF3.3	Spring1	AP	Diatom Abundance	0.0296	2.37E+05	2.81E+06	177.01	0.5583	No Trend
TF3.3	Spring1	AP	Dinoflagellate Abundance	0.4905	0	8.96E+02	0.00	0.5759	No Trend
TF3.3	Spring1	AP	Chlorophyte Abundance	<0.0001	1.28E+05	1.36E+05	1961.71	0.6216	Improving
TF3.3	Spring1	AP	Cryptophyte Abundance	0.0745	3.38E+04	4.90E+05	144.79	0.6175	No Trend
TF3.3	Spring1	AP	Number of Genera per replicate	0.9002	0.000	22.00	0.00	0.9601	No Trend
TF3.3	Spring1	AP	Picoplankton Abundance	0.5572	-1.83E+05	1.42E+07	-21.90	0.6973	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Spring1	AP	Total Abundance	0.0092	4.97E+05	6.28E+06	166.23	0.1806	Increasing
RET3.1	Spring1	AP	Total Biomass	0.0636	1.66E+07	4.48E+08	77.77	0.1032	No Trend
RET3.1	Spring1	AP	Biomass to Abundance Ratio	0.7754	0.177	63.496	5.85	0.4827	No Trend
RET3.1	Spring1	AP	Margalef Diversity Index	0.1991	-0.013	1.90	-14.44	0.0328	No Trend
RET3.1	Spring1	AP	Diatom Biomass	0.1536	7.16E+06	3.14E+08	47.88	0.2089	No Trend
RET3.1	Spring1	AP	Dinoflagellate Biomass	0.6932	-9.37E+02	5.16E+07	-0.04	0.3135	No Trend
RET3.1	Spring1	AP	Cyanobacteria Biomass	0.0051	4.73E+05	1.85E+06	537.82	0.0167	Degrading
RET3.1	Spring1	AP	Chlorophyte Biomass	0.0001	1.72E+06	1.04E+06	3466.00	0.3373	Improving
RET3.1	Spring1	AP	Picoplankton Biomass	0.6248	-1.85E+05	4.41E+07	-7.14	0.7413	No Trend
RET3.1	Spring1	AP	Cryptophyte Biomass	0.1082	1.14E+06	8.25E+06	290.88	0.5599	No Trend
RET3.1	Spring1	AP	Cyanobacteria Abundance	0.0019	5.31E+04	1.43E+05	780.33	0.1662	Degrading
RET3.1	Spring1	AP	Number of Species per Replicate	0.4733	-0.09	31.00	-6.16	0.0172	No Trend
RET3.1	Spring1	AP	Pielou's Evenness	0.0113	0.006	0.49	27.15	0.3532	No Trend
RET3.1	Spring1	AP	Shannon Weiner Diversity Index	0.1869	0.019	2.21	17.73	0.8071	No Trend
RET3.1	Spring1	AP	Diatom Abundance	0.3179	1.04E+05	3.48E+06	62.51	0.2947	No Trend
RET3.1	Spring1	AP	Dinoflagellate Abundance	0.3152	-1.86E+03	6.09E+05	-6.40	0.6367	No Trend
RET3.1	Spring1	AP	Chlorophyte Abundance	<0.0001	1.17E+05	5.66E+04	4343.12	0.1383	Improving
RET3.1	Spring1	AP	Cryptophyte Abundance	0.0107	6.30E+04	3.43E+05	385.43	0.6999	No Trend
RET3.1	Spring1	AP	Number of Genera per replicate	0.8581	0.000	28.50	0.00	0.0260	No Trend
RET3.1	Spring1	AP	Picoplankton Abundance	0.6248	-1.24E+05	2.94E+07	-7.14	0.7413	No Trend
LE3.6	Spring1	AP	Total Abundance	0.1502	1.76E+05	9.37E+06	39.54	0.6751	No Trend
LE3.6	Spring1	AP	Total Biomass	0.9256	6.13E+05	8.45E+08	1.52	0.8213	No Trend
LE3.6	Spring1	AP	Biomass to Abundance Ratio	0.0759	-1.348	99.777	-28.37	0.7232	No Trend
LE3.6	Spring1	AP	Margalef Diversity Index	0.0591	-0.024	2.13	-23.28	0.3779	No Trend
LE3.6	Spring1	AP	Diatom Biomass	0.9256	-2.18E+06	7.27E+08	-6.31	0.6912	No Trend
LE3.6	Spring1	AP	Dinoflagellate Biomass	0.0011	2.55E+06	1.44E+07	371.44	0.1633	Degrading
LE3.6	Spring1	AP	Cyanobacteria Biomass	0.0107	6.57E+04	2.82E+05	489.77	0.1606	No Trend
LE3.6	Spring1	AP	Chlorophyte Biomass	0.5246	1.98E+03	8.29E+05	5.01	0.4718	No Trend
LE3.6	Spring1	AP	Picoplankton Biomass	0.0461	-4.50E+05	1.49E+07	-51.33	0.1819	No Trend
LE3.6	Spring1	AP	Cryptophyte Biomass	0.6270	-9.83E+04	2.32E+07	-8.88	0.1629	No Trend
LE3.6	Spring1	AP	Cyanobacteria Abundance	0.0016	1.61E+04	5.16E+04	653.27	0.2840	Degrading
LE3.6	Spring1	AP	Number of Species per Replicate	0.0752	-0.30	34.75	-18.13	0.3056	No Trend
LE3.6	Spring1	AP	Pielou's Evenness	<0.0001	0.009	0.51	36.09	0.8261	Improving
LE3.6	Spring1	AP	Shannon Weiner Diversity Index	0.0075	0.026	2.58	21.11	0.5590	Improving
LE3.6	Spring1	AP	Diatom Abundance	0.2391	1.15E+05	6.55E+06	36.94	0.9201	No Trend
LE3.6	Spring1	AP	Dinoflagellate Abundance	0.0023	1.18E+04	1.69E+05	146.42	0.8002	Degrading
LE3.6	Spring1	AP	Chlorophyte Abundance	0.0035	8.29E+03	3.69E+04	472.14	0.5715	Improving
LE3.6	Spring1	AP	Cryptophyte Abundance	0.1000	2.50E+04	9.68E+05	54.24	0.2197	No Trend
LE3.6	Spring1	AP	Number of Genera per replicate	0.2520	-0.188	28.25	-13.94	0.2216	No Trend
LE3.6	Spring1	AP	Picoplankton Abundance	0.0461	-3.00E+05	9.94E+06	-51.33	0.1819	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Spring1	AP	Total Abundance	0.5837	5.09E+04	1.00E+07	10.67	0.6808	No Trend
CB6.1	Spring1	AP	Total Biomass	0.7148	3.81E+06	8.41E+08	9.53	0.8539	No Trend
CB6.1	Spring1	AP	Biomass to Abundance Ratio	0.2894	-1.133	88.624	-26.84	0.8393	No Trend
CB6.1	Spring1	AP	Margalef Diversity Index	0.3063	-0.008	2.06	-8.32	0.6913	No Trend
CB6.1	Spring1	AP	Diatom Biomass	0.6611	2.32E+06	7.89E+08	6.19	0.7746	No Trend
CB6.1	Spring1	AP	Dinoflagellate Biomass	0.0005	2.57E+06	1.28E+07	419.89	0.2599	Degrading
CB6.1	Spring1	AP	Cyanobacteria Biomass	0.0260	9.05E+03	1.01E+05	187.81	0.4199	No Trend
CB6.1	Spring1	AP	Chlorophyte Biomass	0.8831	0	2.73E+05	0.00	0.9561	No Trend
CB6.1	Spring1	AP	Picoplankton Biomass	0.4498	-3.00E+05	3.49E+07	-14.63	0.9408	No Trend
CB6.1	Spring1	AP	Cryptophyte Biomass	0.0734	-6.49E+05	1.71E+07	-79.69	0.9958	No Trend
CB6.1	Spring1	AP	Cyanobacteria Abundance	0.1404	9.04E+02	1.35E+05	14.11	0.8426	No Trend
CB6.1	Spring1	AP	Number of Species per Replicate	0.3694	-0.17	35.25	-9.93	0.6374	No Trend
CB6.1	Spring1	AP	Pielou's Evenness	0.0006	0.008	0.51	31.35	0.5085	Improving
CB6.1	Spring1	AP	Shannon Weiner Diversity Index	0.0049	0.033	2.57	26.94	0.4102	Improving
CB6.1	Spring1	AP	Diatom Abundance	0.5588	3.77E+04	7.75E+06	10.20	0.6653	No Trend
CB6.1	Spring1	AP	Dinoflagellate Abundance	<0.0001	1.90E+04	1.32E+05	302.49	0.2895	Degrading
CB6.1	Spring1	AP	Chlorophyte Abundance	0.0071	5.52E+03	1.21E+04	954.32	0.5607	Improving
CB6.1	Spring1	AP	Cryptophyte Abundance	0.9127	1.17E+03	7.12E+05	3.46	0.8776	No Trend
CB6.1	Spring1	AP	Number of Genera per replicate	0.8979	0.000	29.00	0.00	0.3914	No Trend
CB6.1	Spring1	AP	Picoplankton Abundance	0.4498	-2.00E+05	2.33E+07	-14.63	0.9408	No Trend
CB6.4	Spring1	AP	Total Abundance	0.0323	1.58E+05	3.78E+06	87.94	0.4611	No Trend
CB6.4	Spring1	AP	Total Biomass	0.0868	1.78E+07	3.31E+08	113.36	0.8754	No Trend
CB6.4	Spring1	AP	Biomass to Abundance Ratio	0.6175	-0.396	108.820	-7.64	0.3712	No Trend
CB6.4	Spring1	AP	Margalef Diversity Index	0.1536	-0.013	2.13	-12.86	0.7663	No Trend
CB6.4	Spring1	AP	Diatom Biomass	0.2845	9.54E+06	3.21E+08	62.52	0.7990	No Trend
CB6.4	Spring1	AP	Dinoflagellate Biomass	0.0034	2.95E+06	8.88E+06	697.44	0.6667	Degrading
CB6.4	Spring1	AP	Cyanobacteria Biomass	<0.0001	7.28E+04	0.00E+00	N.E.	0.6770	Degrading
CB6.4	Spring1	AP	Chlorophyte Biomass	0.1894	4.43E+03	4.67E+04	199.34	0.2299	No Trend
CB6.4	Spring1	AP	Picoplankton Biomass	0.2606	-2.84E+05	2.28E+07	-21.16	0.9729	No Trend
CB6.4	Spring1	AP	Cryptophyte Biomass	0.9715	7.16E+03	1.38E+07	1.09	0.1645	No Trend
CB6.4	Spring1	AP	Cyanobacteria Abundance	0.0023	8.82E+03	8.13E+04	227.88	0.1813	Degrading
CB6.4	Spring1	AP	Number of Species per Replicate	0.3607	-0.13	32.50	-8.35	0.7535	No Trend
CB6.4	Spring1	AP	Pielou's Evenness	<0.0001	0.010	0.47	42.95	0.3857	Improving
CB6.4	Spring1	AP	Shannon Weiner Diversity Index	0.0003	0.044	2.36	38.83	0.6525	Improving
CB6.4	Spring1	AP	Diatom Abundance	0.3179	5.63E+04	3.15E+06	37.54	0.7698	No Trend
CB6.4	Spring1	AP	Dinoflagellate Abundance	0.0001	2.07E+04	5.93E+04	732.72	0.4982	Degrading
CB6.4	Spring1	AP	Chlorophyte Abundance	0.0004	6.85E+03	2.07E+03	6935.52	0.3823	Improving
CB6.4	Spring1	AP	Cryptophyte Abundance	0.0805	2.72E+04	5.75E+05	99.37	0.0716	No Trend
CB6.4	Spring1	AP	Number of Genera per replicate	0.9572	0.000	26.00	0.00	0.7786	No Trend
CB6.4	Spring1	AP	Picoplankton Abundance	0.2606	-1.89E+05	1.52E+07	-21.16	0.9729	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Spring1	AP	Total Abundance	0.3806	6.75E+04	5.22E+06	27.12	0.5413	No Trend
CB7.3E	Spring1	AP	Total Biomass	0.7423	3.06E+06	6.86E+08	9.37	0.7040	No Trend
CB7.3E	Spring1	AP	Biomass to Abundance Ratio	0.9418	-0.128	93.130	-2.88	0.8301	No Trend
CB7.3E	Spring1	AP	Margalef Diversity Index	0.0624	-0.022	2.55	-17.86	0.7862	No Trend
CB7.3E	Spring1	AP	Diatom Biomass	0.9709	1.83E+05	6.37E+08	0.60	0.7598	No Trend
CB7.3E	Spring1	AP	Dinoflagellate Biomass	0.0408	1.92E+06	5.10E+07	79.12	0.5751	No Trend
CB7.3E	Spring1	AP	Cyanobacteria Biomass	0.0002	3.07E+04	1.27E+05	508.21	0.4869	Degrading
CB7.3E	Spring1	AP	Chlorophyte Biomass	0.4525	0	9.33E+04	0.00	0.3292	No Trend
CB7.3E	Spring1	AP	Picoplankton Biomass	0.1307	-4.95E+05	1.76E+07	-47.82	0.9303	No Trend
CB7.3E	Spring1	AP	Cryptophyte Biomass	0.0100	-7.31E+05	2.06E+07	-74.43	0.7345	Decreasing
CB7.3E	Spring1	AP	Cyanobacteria Abundance	0.0027	4.74E+03	1.17E+04	851.03	0.6990	Degrading
CB7.3E	Spring1	AP	Number of Species per Replicate	0.1107	-0.22	40.75	-11.45	0.7964	No Trend
CB7.3E	Spring1	AP	Pielou's Evenness	0.0004	0.008	0.54	29.33	0.6930	Improving
CB7.3E	Spring1	AP	Shannon Weiner Diversity Index	0.0130	0.030	2.80	22.52	0.8898	No Trend
CB7.3E	Spring1	AP	Diatom Abundance	0.6878	2.46E+04	3.80E+06	13.58	0.2470	No Trend
CB7.3E	Spring1	AP	Dinoflagellate Abundance	0.0214	9.47E+03	1.94E+05	102.52	0.7048	No Trend
CB7.3E	Spring1	AP	Chlorophyte Abundance	0.0043	2.38E+03	4.15E+03	1202.68	0.7487	Improving
CB7.3E	Spring1	AP	Cryptophyte Abundance	0.4110	-8.66E+03	8.59E+05	-21.17	0.5741	No Trend
CB7.3E	Spring1	AP	Number of Genera per replicate	0.2403	-0.154	32.75	-9.86	0.4926	No Trend
CB7.3E	Spring1	AP	Picoplankton Abundance	0.1307	-3.30E+05	1.17E+07	-47.82	0.9303	No Trend
CB7.4	Spring1	AP	Total Abundance	0.5345	5.96E+04	5.13E+06	24.40	0.9975	No Trend
CB7.4	Spring1	AP	Total Biomass	0.3806	4.96E+06	4.63E+08	22.49	0.9132	No Trend
CB7.4	Spring1	AP	Biomass to Abundance Ratio	0.8265	-0.258	89.310	-6.08	0.4311	No Trend
CB7.4	Spring1	AP	Margalef Diversity Index	0.0035	-0.038	2.62	-30.66	0.2234	Degrading
CB7.4	Spring1	AP	Diatom Biomass	0.7981	2.20E+06	4.23E+08	10.89	0.7887	No Trend
CB7.4	Spring1	AP	Dinoflagellate Biomass	0.0069	2.06E+06	2.65E+07	163.18	0.6032	Degrading
CB7.4	Spring1	AP	Cyanobacteria Biomass	0.0014	2.81E+04	9.80E+02	60197.46	0.8504	Degrading
CB7.4	Spring1	AP	Chlorophyte Biomass	0.8216	0	1.03E+03	0.00	0.5874	No Trend
CB7.4	Spring1	AP	Picoplankton Biomass	0.2901	-3.77E+05	9.09E+07	-7.05	0.7345	No Trend
CB7.4	Spring1	AP	Cryptophyte Biomass	0.9563	-2.10E+03	1.16E+07	-0.38	0.7607	No Trend
CB7.4	Spring1	AP	Cyanobacteria Abundance	0.0029	4.17E+03	1.44E+02	60846.10	0.5735	Degrading
CB7.4	Spring1	AP	Number of Species per Replicate	0.0278	-0.42	40.75	-21.89	0.1772	No Trend
CB7.4	Spring1	AP	Pielou's Evenness	0.0001	0.010	0.44	45.79	0.6035	Improving
CB7.4	Spring1	AP	Shannon Weiner Diversity Index	0.0021	0.040	2.28	36.48	0.7839	Improving
CB7.4	Spring1	AP	Diatom Abundance	0.9709	2.05E+03	4.10E+06	1.05	0.9642	No Trend
CB7.4	Spring1	AP	Dinoflagellate Abundance	0.0031	1.17E+04	9.55E+04	257.69	0.4836	Degrading
CB7.4	Spring1	AP	Chlorophyte Abundance	0.0098	1.41E+03	6.40E+01	46200.00	0.8968	Improving
CB7.4	Spring1	AP	Cryptophyte Abundance	0.4650	4.89E+03	4.84E+05	21.20	0.8117	No Trend
CB7.4	Spring1	AP	Number of Genera per replicate	0.0570	-0.328	33.25	-20.74	0.0788	No Trend
CB7.4	Spring1	AP	Picoplankton Abundance	0.2901	-2.51E+05	6.06E+07	-7.05	0.7345	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Spring2	AP	Total Abundance	0.0587	-7.07E+05	3.59E+07	-41.36	0.3344	No Trend
TF5.5	Spring2	AP	Total Biomass	0.0204	3.01E+07	5.24E+08	120.34	0.5309	No Trend
TF5.5	Spring2	AP	Biomass to Abundance Ratio	<0.0001	2.069	18.866	230.26	0.4403	Improving
TF5.5	Spring2	AP	Margalef Diversity Index	0.5208	-0.008	2.63	-6.54	0.7097	No Trend
TF5.5	Spring2	AP	Diatom Biomass	0.3179	8.41E+06	4.58E+08	38.58	0.8836	No Trend
TF5.5	Spring2	AP	Dinoflagellate Biomass	0.7331	0	8.68E+05	0.00	0.8508	No Trend
TF5.5	Spring2	AP	Cyanobacteria Biomass	0.4538	1.79E+05	2.48E+07	15.17	0.6159	No Trend
TF5.5	Spring2	AP	Chlorophyte Biomass	0.0001	1.59E+07	2.07E+07	1612.26	0.9164	Improving
TF5.5	Spring2	AP	Picoplankton Biomass	0.0277	-1.98E+06	1.54E+08	-21.96	0.4796	No Trend
TF5.5	Spring2	AP	Cryptophyte Biomass	0.7890	1.68E+05	1.45E+07	24.26	0.6756	No Trend
TF5.5	Spring2	AP	Cyanobacteria Abundance	0.6686	1.56E+04	2.75E+06	11.92	0.7668	No Trend
TF5.5	Spring2	AP	Number of Species per Replicate	0.4112	-0.21	45.00	-9.85	0.8590	No Trend
TF5.5	Spring2	AP	Pielou's Evenness	<0.0001	0.015	0.41	75.05	0.8079	Improving
TF5.5	Spring2	AP	Shannon Weiner Diversity Index	0.0006	0.067	2.23	63.41	0.5886	Improving
TF5.5	Spring2	AP	Diatom Abundance	0.0270	-4.95E+05	1.86E+07	-55.82	0.1698	No Trend
TF5.5	Spring2	AP	Dinoflagellate Abundance	0.9857	0	6.40E+03	0.00	0.6942	No Trend
TF5.5	Spring2	AP	Chlorophyte Abundance	0.0001	1.62E+05	9.86E+05	344.36	0.9976	Improving
TF5.5	Spring2	AP	Cryptophyte Abundance	0.0458	2.71E+04	6.06E+05	94.10	0.1607	No Trend
TF5.5	Spring2	AP	Number of Genera per replicate	0.4740	-0.146	35.00	-8.79	0.6542	No Trend
TF5.5	Spring2	AP	Picoplankton Abundance	0.0277	-1.32E+06	1.02E+08	-21.96	0.4796	No Trend
RET5.2	Spring2	AP	Total Abundance	0.8891	2.69E+04	1.34E+07	4.21	0.3703	No Trend
RET5.2	Spring2	AP	Total Biomass	0.0042	3.35E+07	2.69E+08	261.88	0.6810	Increasing
RET5.2	Spring2	AP	Biomass to Abundance Ratio	0.0073	1.369	18.382	156.35	0.9387	Improving
RET5.2	Spring2	AP	Margalef Diversity Index	0.0099	-0.037	1.36	-56.64	0.7880	Degrading
RET5.2	Spring2	AP	Diatom Biomass	0.1431	1.57E+07	1.88E+08	175.53	0.4338	No Trend
RET5.2	Spring2	AP	Dinoflagellate Biomass	0.6494	0	3.40E+06	0.00	0.8915	No Trend
RET5.2	Spring2	AP	Cyanobacteria Biomass	0.5533	1.13E+05	1.33E+06	177.66	0.9084	No Trend
RET5.2	Spring2	AP	Chlorophyte Biomass	0.0256	4.67E+06	7.72E+05	12692.94	0.6239	No Trend
RET5.2	Spring2	AP	Picoplankton Biomass	0.8120	2.80E+05	2.99E+08	1.59	0.9386	No Trend
RET5.2	Spring2	AP	Cryptophyte Biomass	0.0874	1.42E+06	1.58E+07	189.14	0.6396	No Trend
RET5.2	Spring2	AP	Cyanobacteria Abundance	0.9722	9.34E+02	4.51E+05	4.35	0.9218	No Trend
RET5.2	Spring2	AP	Number of Species per Replicate	0.0067	-0.65	24.00	-57.01	0.8824	Degrading
RET5.2	Spring2	AP	Pielou's Evenness	0.0161	0.008	0.57	28.73	0.4632	No Trend
RET5.2	Spring2	AP	Shannon Weiner Diversity Index	0.2645	0.014	2.37	12.43	0.6590	No Trend
RET5.2	Spring2	AP	Diatom Abundance	0.4640	-1.38E+05	6.96E+06	-41.68	0.0145	No Trend
RET5.2	Spring2	AP	Dinoflagellate Abundance	0.9709	0	6.67E+04	0.00	0.8568	No Trend
RET5.2	Spring2	AP	Chlorophyte Abundance	0.0004	1.22E+05	4.35E+04	5897.99	0.3264	Improving
RET5.2	Spring2	AP	Cryptophyte Abundance	0.0076	7.73E+04	6.57E+05	247.06	0.5782	Increasing
RET5.2	Spring2	AP	Number of Genera per replicate	0.0503	-0.483	20.50	-49.51	0.8871	No Trend
RET5.2	Spring2	AP	Picoplankton Abundance	0.8120	1.86E+05	1.99E+08	1.59	0.9386	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Spring2	AP	Total Abundance	0.7013	3.66E+04	5.51E+06	13.92	0.3813	No Trend
LE5.5	Spring2	AP	Total Biomass	0.0509	1.08E+07	3.77E+08	60.38	0.6401	No Trend
LE5.5	Spring2	AP	Biomass to Abundance Ratio	0.2094	0.966	54.963	36.91	0.4839	No Trend
LE5.5	Spring2	AP	Margalef Diversity Index	0.0469	-0.026	2.50	-21.98	0.5340	No Trend
LE5.5	Spring2	AP	Diatom Biomass	0.2358	5.30E+06	3.31E+08	33.58	0.8953	No Trend
LE5.5	Spring2	AP	Dinoflagellate Biomass	0.1338	1.63E+06	2.35E+07	145.71	0.4254	No Trend
LE5.5	Spring2	AP	Cyanobacteria Biomass	0.0002	8.06E+04	5.93E+05	285.29	0.8524	Degrading
LE5.5	Spring2	AP	Chlorophyte Biomass	0.5488	7.11E+01	3.32E+05	0.45	0.5088	No Trend
LE5.5	Spring2	AP	Picoplankton Biomass	0.7036	-1.20E+05	1.29E+08	-1.59	0.7503	No Trend
LE5.5	Spring2	AP	Cryptophyte Biomass	0.8891	2.73E+04	2.05E+07	2.79	0.1648	No Trend
LE5.5	Spring2	AP	Cyanobacteria Abundance	0.0001	1.01E+04	4.67E+04	454.75	0.8320	Degrading
LE5.5	Spring2	AP	Number of Species per Replicate	0.0464	-0.43	39.50	-22.78	0.4754	No Trend
LE5.5	Spring2	AP	Pielou's Evenness	<0.0001	0.008	0.50	33.80	0.2373	Improving
LE5.5	Spring2	AP	Shannon Weiner Diversity Index	0.0059	0.031	2.70	24.43	0.6590	Improving
LE5.5	Spring2	AP	Diatom Abundance	0.5077	-3.56E+04	4.18E+06	-17.87	0.4396	No Trend
LE5.5	Spring2	AP	Dinoflagellate Abundance	0.0509	8.78E+03	1.49E+05	123.84	0.2313	No Trend
LE5.5	Spring2	AP	Chlorophyte Abundance	0.0007	1.28E+04	1.48E+04	1815.68	0.1691	Improving
LE5.5	Spring2	AP	Cryptophyte Abundance	0.0754	2.74E+04	9.34E+05	61.62	0.0192	No Trend
LE5.5	Spring2	AP	Number of Genera per replicate	0.1194	-0.250	31.25	-16.80	0.7873	No Trend
LE5.5	Spring2	AP	Picoplankton Abundance	0.7036	-8.01E+04	8.57E+07	-1.59	0.7503	No Trend
SBE5	Spring2	AP	Total Abundance	0.6150	4.10E+04	2.23E+06	33.18	0.0866	No Trend
SBE5	Spring2	AP	Total Biomass	0.2291	-4.48E+06	8.67E+07	-93.04	0.0366	No Trend
SBE5	Spring2	AP	Biomass to Abundance Ratio	0.0020	-1.268	35.840	-63.70	0.9606	Degrading
SBE5	Spring2	AP	Margalef Diversity Index	0.0007	-0.055	2.53	-39.36	0.0535	Degrading
SBE5	Spring2	AP	Diatom Biomass	0.4184	-2.17E+06	5.10E+07	-76.62	0.0354	No Trend
SBE5	Spring2	AP	Dinoflagellate Biomass	0.0630	-5.12E+05	1.11E+07	-83.30	0.8306	No Trend
SBE5	Spring2	AP	Cyanobacteria Biomass	0.0396	4.42E+04	3.61E+05	220.28	0.4047	No Trend
SBE5	Spring2	AP	Chlorophyte Biomass	0.9475	0	1.34E+06	0.00	0.3456	No Trend
SBE5	Spring2	AP	Picoplankton Biomass	0.6956	-7.29E+04	1.70E+07	-7.31	0.3189	No Trend
SBE5	Spring2	AP	Cryptophyte Biomass	0.8783	8.76E+04	1.36E+07	11.57	0.2923	No Trend
SBE5	Spring2	AP	Cyanobacteria Abundance	0.0514	5.71E+03	3.06E+04	335.47	0.5677	No Trend
SBE5	Spring2	AP	Number of Species per Replicate	0.0013	-0.86	37.00	-41.70	0.0425	Degrading
SBE5	Spring2	AP	Pielou's Evenness	0.4705	-0.002	0.59	-6.80	0.4204	No Trend
SBE5	Spring2	AP	Shannon Weiner Diversity Index	0.0571	-0.029	3.09	-17.15	0.4204	No Trend
SBE5	Spring2	AP	Diatom Abundance	0.5846	-2.35E+04	1.49E+06	-28.53	0.0099	No Trend
SBE5	Spring2	AP	Dinoflagellate Abundance	0.1750	-3.59E+03	6.80E+04	-95.16	0.8656	No Trend
SBE5	Spring2	AP	Chlorophyte Abundance	0.1303	4.12E+03	1.33E+04	557.29	0.7625	No Trend
SBE5	Spring2	AP	Cryptophyte Abundance	0.3251	1.62E+04	5.68E+05	51.37	0.4661	No Trend
SBE5	Spring2	AP	Number of Genera per replicate	0.0013	-0.667	32.50	-36.92	0.0441	Degrading
SBE5	Spring2	AP	Picoplankton Abundance	0.6956	-4.86E+04	1.13E+07	-7.31	0.3189	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Spring2	AP	Total Abundance	0.0744	1.24E+05	2.54E+06	97.97	0.3202	No Trend
TF4.2	Spring2	AP	Total Biomass	0.1987	4.78E+06	9.72E+07	98.34	0.3324	No Trend
TF4.2	Spring2	AP	Biomass to Abundance Ratio	0.5520	0.424	34.183	24.82	0.2172	No Trend
TF4.2	Spring2	AP	Margalef Diversity Index	0.0302	-0.024	1.81	-26.20	0.3573	No Trend
TF4.2	Spring2	AP	Diatom Biomass	0.3472	1.62E+06	7.82E+07	41.46	0.4616	No Trend
TF4.2	Spring2	AP	Dinoflagellate Biomass	0.9685	0	3.46E+05	0.00	0.1861	No Trend
TF4.2	Spring2	AP	Cyanobacteria Biomass	0.0008	1.56E+05	2.23E+04	13986.40	0.6074	Degrading
TF4.2	Spring2	AP	Chlorophyte Biomass	0.0035	3.60E+05	2.54E+05	2834.12	0.0602	Improving
TF4.2	Spring2	AP	Picoplankton Biomass	0.1866	-6.36E+05	1.22E+08	-8.82	0.9718	No Trend
TF4.2	Spring2	AP	Cryptophyte Biomass	0.8328	-2.37E+04	8.11E+06	-5.85	0.9400	No Trend
TF4.2	Spring2	AP	Cyanobacteria Abundance	0.0113	1.79E+04	4.29E+03	8348.80	0.4939	No Trend
TF4.2	Spring2	AP	Number of Species per Replicate	0.0428	-0.29	28.00	-20.41	0.3751	No Trend
TF4.2	Spring2	AP	Pielou's Evenness	0.1296	0.004	0.48	18.40	0.3219	No Trend
TF4.2	Spring2	AP	Shannon Weiner Diversity Index	0.5780	0.010	2.33	8.39	0.8746	No Trend
TF4.2	Spring2	AP	Diatom Abundance	0.8031	5.04E+03	8.62E+05	11.70	0.6010	No Trend
TF4.2	Spring2	AP	Dinoflagellate Abundance	0.9684	0	3.82E+03	0.00	0.0311	No Trend
TF4.2	Spring2	AP	Chlorophyte Abundance	<0.0001	1.37E+04	1.23E+04	2232.22	0.6961	Improving
TF4.2	Spring2	AP	Cryptophyte Abundance	0.2124	1.99E+04	4.34E+05	91.75	0.7343	No Trend
TF4.2	Spring2	AP	Number of Genera per replicate	0.1177	-0.200	23.50	-17.02	0.3875	No Trend
TF4.2	Spring2	AP	Picoplankton Abundance	0.1866	-4.24E+05	8.17E+07	-8.82	0.9718	No Trend
RET4.3	Spring2	AP	Total Abundance	0.7754	-7.03E+04	6.70E+06	-22.03	0.8953	No Trend
RET4.3	Spring2	AP	Total Biomass	0.2391	4.84E+06	2.17E+08	46.73	0.7548	No Trend
RET4.3	Spring2	AP	Biomass to Abundance Ratio	0.2845	0.615	33.734	38.27	0.8738	No Trend
RET4.3	Spring2	AP	Margalef Diversity Index	0.4756	-0.007	1.61	-9.00	0.3166	No Trend
RET4.3	Spring2	AP	Diatom Biomass	0.6428	1.41E+06	1.23E+08	24.12	0.3972	No Trend
RET4.3	Spring2	AP	Dinoflagellate Biomass	0.6555	2.05E+05	2.86E+07	15.05	0.8754	No Trend
RET4.3	Spring2	AP	Cyanobacteria Biomass	0.0020	2.24E+05	5.92E+05	796.12	0.3824	Degrading
RET4.3	Spring2	AP	Chlorophyte Biomass	0.0111	4.47E+05	1.78E+05	5264.50	0.3418	No Trend
RET4.3	Spring2	AP	Picoplankton Biomass	0.2214	-5.67E+05	8.25E+07	-11.68	0.1733	No Trend
RET4.3	Spring2	AP	Cryptophyte Biomass	0.5208	-3.17E+05	2.25E+07	-29.61	0.3053	No Trend
RET4.3	Spring2	AP	Cyanobacteria Abundance	0.0054	2.01E+04	5.75E+04	734.36	0.7088	Degrading
RET4.3	Spring2	AP	Number of Species per Replicate	0.5903	0.00	26.50	0.00	0.3140	No Trend
RET4.3	Spring2	AP	Pielou's Evenness	0.0689	0.005	0.44	24.15	0.1258	No Trend
RET4.3	Spring2	AP	Shannon Weiner Diversity Index	0.2537	0.016	2.10	16.29	0.0560	No Trend
RET4.3	Spring2	AP	Diatom Abundance	0.2118	-9.87E+04	4.42E+06	-46.86	0.9673	No Trend
RET4.3	Spring2	AP	Dinoflagellate Abundance	0.6815	-2.67E+03	1.92E+05	-29.29	0.8151	No Trend
RET4.3	Spring2	AP	Chlorophyte Abundance	<0.0001	3.98E+04	1.51E+04	5547.13	0.4428	Improving
RET4.3	Spring2	AP	Cryptophyte Abundance	0.8865	2.75E+03	9.36E+05	6.17	0.1355	No Trend
RET4.3	Spring2	AP	Number of Genera per replicate	0.9857	0.000	23.50	0.00	0.3453	No Trend
RET4.3	Spring2	AP	Picoplankton Abundance	0.2214	-3.78E+05	5.50E+07	-11.68	0.1733	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Spring2	AP	Total Abundance	0.4326	7.83E+04	8.66E+06	18.98	0.2633	No Trend
WE4.2	Spring2	AP	Total Biomass	0.7754	1.82E+06	4.48E+08	8.52	0.9739	No Trend
WE4.2	Spring2	AP	Biomass to Abundance Ratio	0.8028	-0.231	66.175	-7.33	0.4143	No Trend
WE4.2	Spring2	AP	Margalef Diversity Index	0.0385	-0.027	2.56	-22.32	0.5811	No Trend
WE4.2	Spring2	AP	Diatom Biomass	0.4979	-3.18E+06	3.18E+08	-20.99	0.8583	No Trend
WE4.2	Spring2	AP	Dinoflagellate Biomass	0.6948	4.84E+05	8.06E+07	12.62	0.5260	No Trend
WE4.2	Spring2	AP	Cyanobacteria Biomass	0.0003	6.75E+04	1.37E+04	10324.29	0.6739	Degrading
WE4.2	Spring2	AP	Chlorophyte Biomass	0.2553	4.04E+02	3.00E+05	2.83	0.4308	No Trend
WE4.2	Spring2	AP	Picoplankton Biomass	0.5572	-3.54E+05	6.69E+07	-8.99	0.9171	No Trend
WE4.2	Spring2	AP	Cryptophyte Biomass	0.8865	5.65E+04	1.82E+07	6.54	0.4573	No Trend
WE4.2	Spring2	AP	Cyanobacteria Abundance	0.0004	1.26E+04	2.03E+04	1297.40	0.7683	Degrading
WE4.2	Spring2	AP	Number of Species per Replicate	0.0379	-0.44	41.50	-22.09	0.4997	No Trend
WE4.2	Spring2	AP	Pielou's Evenness	0.0004	0.008	0.54	29.11	0.6553	Improving
WE4.2	Spring2	AP	Shannon Weiner Diversity Index	0.0296	0.027	2.96	19.43	0.8562	No Trend
WE4.2	Spring2	AP	Diatom Abundance	0.2252	-8.51E+04	7.11E+06	-25.14	0.1945	No Trend
WE4.2	Spring2	AP	Dinoflagellate Abundance	0.2391	7.87E+03	4.91E+05	33.69	0.7358	No Trend
WE4.2	Spring2	AP	Chlorophyte Abundance	0.0001	7.93E+03	1.33E+04	1250.83	0.7691	Improving
WE4.2	Spring2	AP	Cryptophyte Abundance	0.3355	1.24E+04	7.56E+05	34.35	0.5621	No Trend
WE4.2	Spring2	AP	Number of Genera per replicate	0.3510	-0.125	31.75	-8.27	0.6515	No Trend
WE4.2	Spring2	AP	Picoplankton Abundance	0.5572	-2.36E+05	4.46E+07	-8.99	0.9171	No Trend
TF3.3	Spring2	AP	Total Abundance	<0.0001	1.15E+06	4.34E+06	556.97	0.4901	Increasing
TF3.3	Spring2	AP	Total Biomass	<0.0001	7.73E+07	9.74E+07	1667.06	0.2844	Increasing
TF3.3	Spring2	AP	Biomass to Abundance Ratio	0.0528	0.895	21.635	86.84	0.0109	No Trend
TF3.3	Spring2	AP	Margalef Diversity Index	0.4429	-0.009	1.62	-12.03	0.8526	No Trend
TF3.3	Spring2	AP	Diatom Biomass	<0.0001	3.96E+07	7.24E+07	1149.26	0.6374	Improving
TF3.3	Spring2	AP	Dinoflagellate Biomass	0.3557	3.31E+03	8.36E+05	8.31	0.8734	No Trend
TF3.3	Spring2	AP	Cyanobacteria Biomass	<0.0001	9.87E+05	1.47E+06	1408.77	0.5141	Degrading
TF3.3	Spring2	AP	Chlorophyte Biomass	<0.0001	9.97E+06	3.71E+06	5640.50	0.9318	Improving
TF3.3	Spring2	AP	Picoplankton Biomass	0.4202	-6.58E+05	1.30E+08	-8.64	0.7064	No Trend
TF3.3	Spring2	AP	Cryptophyte Biomass	0.6875	1.65E+05	2.10E+07	16.48	0.3249	No Trend
TF3.3	Spring2	AP	Cyanobacteria Abundance	<0.0001	3.36E+05	8.29E+04	8499.45	0.6216	Degrading
TF3.3	Spring2	AP	Number of Species per Replicate	0.9707	0.00	25.50	0.00	0.7213	No Trend
TF3.3	Spring2	AP	Pielou's Evenness	0.3806	0.003	0.57	9.46	0.2985	No Trend
TF3.3	Spring2	AP	Shannon Weiner Diversity Index	0.7423	0.006	2.62	4.44	0.5778	No Trend
TF3.3	Spring2	AP	Diatom Abundance	0.0019	4.64E+05	2.81E+06	347.13	0.6056	Improving
TF3.3	Spring2	AP	Dinoflagellate Abundance	0.2676	4.27E+01	2.43E+03	36.84	0.7783	No Trend
TF3.3	Spring2	AP	Chlorophyte Abundance	<0.0001	1.74E+05	2.38E+05	1536.81	0.9879	Improving
TF3.3	Spring2	AP	Cryptophyte Abundance	0.3150	2.50E+04	1.08E+06	48.50	0.5362	No Trend
TF3.3	Spring2	AP	Number of Genera per replicate	0.7141	0.063	23.00	5.71	0.8217	No Trend
TF3.3	Spring2	AP	Picoplankton Abundance	0.4202	-4.39E+05	8.64E+07	-8.64	0.7064	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Spring2	AP	Total Abundance	0.0031	7.13E+05	7.30E+06	205.13	0.1881	Increasing
RET3.1	Spring2	AP	Total Biomass	0.0077	2.33E+07	2.63E+08	185.58	0.0755	Increasing
RET3.1	Spring2	AP	Biomass to Abundance Ratio	0.7981	0.118	35.471	6.96	0.4857	No Trend
RET3.1	Spring2	AP	Margalef Diversity Index	0.3239	-0.009	1.58	-11.54	0.0431	No Trend
RET3.1	Spring2	AP	Diatom Biomass	0.0117	1.52E+07	1.99E+08	160.85	0.3729	No Trend
RET3.1	Spring2	AP	Dinoflagellate Biomass	0.3306	-8.65E+04	6.15E+07	-2.95	0.2898	No Trend
RET3.1	Spring2	AP	Cyanobacteria Biomass	0.0001	9.75E+05	9.66E+05	2119.38	0.0548	Degrading
RET3.1	Spring2	AP	Chlorophyte Biomass	<0.0001	2.58E+06	8.86E+05	6117.09	0.6237	Improving
RET3.1	Spring2	AP	Picoplankton Biomass	0.6869	-4.80E+05	2.61E+08	-3.13	0.7599	No Trend
RET3.1	Spring2	AP	Cryptophyte Biomass	0.5959	4.67E+05	1.34E+07	72.99	0.0881	No Trend
RET3.1	Spring2	AP	Cyanobacteria Abundance	0.0002	1.33E+05	1.01E+05	2749.74	0.2761	Degrading
RET3.1	Spring2	AP	Number of Species per Replicate	0.7832	0.00	26.50	0.00	0.0241	No Trend
RET3.1	Spring2	AP	Pielou's Evenness	0.0284	0.006	0.48	23.95	0.2295	No Trend
RET3.1	Spring2	AP	Shannon Weiner Diversity Index	0.1002	0.020	2.19	19.12	0.9738	No Trend
RET3.1	Spring2	AP	Diatom Abundance	0.0341	3.12E+05	3.21E+06	204.15	0.4577	No Trend
RET3.1	Spring2	AP	Dinoflagellate Abundance	0.0750	-5.26E+03	4.95E+05	-22.33	0.6109	No Trend
RET3.1	Spring2	AP	Chlorophyte Abundance	<0.0001	1.64E+05	4.25E+04	8114.95	0.4103	Improving
RET3.1	Spring2	AP	Cryptophyte Abundance	0.0705	5.19E+04	5.60E+05	194.61	0.3258	No Trend
RET3.1	Spring2	AP	Number of Genera per replicate	0.7276	0.029	24.50	2.52	0.0440	No Trend
RET3.1	Spring2	AP	Picoplankton Abundance	0.6869	-3.20E+05	1.74E+08	-3.13	0.7599	No Trend
LE3.6	Spring2	AP	Total Abundance	0.9553	1.98E+04	8.70E+06	4.78	0.6202	No Trend
LE3.6	Spring2	AP	Total Biomass	0.8081	2.81E+06	5.62E+08	10.52	0.8954	No Trend
LE3.6	Spring2	AP	Biomass to Abundance Ratio	0.2868	-0.601	82.610	-15.28	0.9619	No Trend
LE3.6	Spring2	AP	Margalef Diversity Index	0.0195	-0.027	2.17	-26.23	0.7197	No Trend
LE3.6	Spring2	AP	Diatom Biomass	0.8664	6.26E+05	4.61E+08	2.85	0.8748	No Trend
LE3.6	Spring2	AP	Dinoflagellate Biomass	0.1399	1.44E+06	2.82E+07	107.36	0.8708	No Trend
LE3.6	Spring2	AP	Cyanobacteria Biomass	0.0044	7.63E+04	4.09E+05	392.12	0.1313	Degrading
LE3.6	Spring2	AP	Chlorophyte Biomass	0.8804	0	8.29E+05	0.00	0.6973	No Trend
LE3.6	Spring2	AP	Picoplankton Biomass	0.0139	-9.66E+05	1.64E+08	-10.01	0.2439	No Trend
LE3.6	Spring2	AP	Cryptophyte Biomass	0.0249	-7.65E+05	2.61E+07	-61.58	0.7690	No Trend
LE3.6	Spring2	AP	Cyanobacteria Abundance	0.0024	1.54E+04	4.68E+04	690.34	0.2701	Degrading
LE3.6	Spring2	AP	Number of Species per Replicate	0.0183	-0.39	35.25	-23.17	0.7399	No Trend
LE3.6	Spring2	AP	Pielou's Evenness	0.0001	0.008	0.49	33.58	0.9470	Improving
LE3.6	Spring2	AP	Shannon Weiner Diversity Index	0.0195	0.024	2.63	18.96	0.8023	No Trend
LE3.6	Spring2	AP	Diatom Abundance	0.7507	1.99E+04	4.47E+06	9.36	0.7264	No Trend
LE3.6	Spring2	AP	Dinoflagellate Abundance	0.0591	8.06E+03	2.26E+05	75.06	0.6294	No Trend
LE3.6	Spring2	AP	Chlorophyte Abundance	0.0010	9.60E+03	3.69E+04	546.62	0.4596	Improving
LE3.6	Spring2	AP	Cryptophyte Abundance	0.6809	-4.28E+03	1.09E+06	-8.27	0.3943	No Trend
LE3.6	Spring2	AP	Number of Genera per replicate	0.0811	-0.313	30.00	-21.88	0.5546	No Trend
LE3.6	Spring2	AP	Picoplankton Abundance	0.0139	-6.44E+05	1.09E+08	-10.01	0.2439	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Spring2	AP	Total Abundance	0.5837	5.17E+04	6.09E+06	17.84	0.6808	No Trend
CB6.1	Spring2	AP	Total Biomass	0.7423	-1.87E+06	7.63E+08	-5.14	0.4951	No Trend
CB6.1	Spring2	AP	Biomass to Abundance Ratio	0.3610	-0.769	82.116	-19.67	0.8592	No Trend
CB6.1	Spring2	AP	Margalef Diversity Index	0.0734	-0.024	2.19	-22.61	0.6889	No Trend
CB6.1	Spring2	AP	Diatom Biomass	0.6611	1.60E+06	6.53E+08	5.14	0.7746	No Trend
CB6.1	Spring2	AP	Dinoflagellate Biomass	0.1162	1.19E+06	2.08E+07	119.88	0.0962	No Trend
CB6.1	Spring2	AP	Cyanobacteria Biomass	0.0007	7.93E+04	9.74E+04	1709.23	0.8181	Degrading
CB6.1	Spring2	AP	Chlorophyte Biomass	0.3638	2.75E+02	4.70E+04	12.28	0.3396	No Trend
CB6.1	Spring2	AP	Picoplankton Biomass	0.0556	-1.81E+06	6.17E+07	-49.88	0.4836	No Trend
CB6.1	Spring2	AP	Cryptophyte Biomass	0.0341	-9.37E+05	2.52E+07	-78.13	0.9061	No Trend
CB6.1	Spring2	AP	Cyanobacteria Abundance	0.0021	1.37E+04	1.35E+05	213.07	0.1659	Degrading
CB6.1	Spring2	AP	Number of Species per Replicate	0.1533	-0.29	36.00	-16.67	0.5365	No Trend
CB6.1	Spring2	AP	Pielou's Evenness	0.0008	0.008	0.50	35.57	0.5668	Improving
CB6.1	Spring2	AP	Shannon Weiner Diversity Index	0.0176	0.031	2.57	25.28	0.6775	No Trend
CB6.1	Spring2	AP	Diatom Abundance	0.2142	7.15E+04	3.37E+06	44.57	0.9150	No Trend
CB6.1	Spring2	AP	Dinoflagellate Abundance	0.0235	1.12E+04	2.06E+05	113.98	0.0166	No Trend
CB6.1	Spring2	AP	Chlorophyte Abundance	0.0009	7.04E+03	2.08E+03	7107.01	0.2106	Improving
CB6.1	Spring2	AP	Cryptophyte Abundance	0.4876	-1.67E+04	1.17E+06	-30.00	0.4470	No Trend
CB6.1	Spring2	AP	Number of Genera per replicate	0.4521	-0.106	30.00	-7.39	0.4645	No Trend
CB6.1	Spring2	AP	Picoplankton Abundance	0.0556	-1.21E+06	4.12E+07	-49.88	0.4836	No Trend
CB6.4	Spring2	AP	Total Abundance	0.3179	9.11E+04	4.69E+06	40.74	0.1863	No Trend
CB6.4	Spring2	AP	Total Biomass	0.2537	9.95E+06	3.36E+08	62.11	0.4415	No Trend
CB6.4	Spring2	AP	Biomass to Abundance Ratio	0.6175	0.635	95.950	13.90	0.5771	No Trend
CB6.4	Spring2	AP	Margalef Diversity Index	0.0075	-0.029	2.19	-28.02	0.5985	Degrading
CB6.4	Spring2	AP	Diatom Biomass	0.6948	3.35E+06	3.00E+08	23.45	0.3358	No Trend
CB6.4	Spring2	AP	Dinoflagellate Biomass	0.0168	3.26E+06	1.80E+07	379.09	0.9870	No Trend
CB6.4	Spring2	AP	Cyanobacteria Biomass	0.0003	3.20E+04	1.96E+03	34319.73	0.7975	Degrading
CB6.4	Spring2	AP	Chlorophyte Biomass	0.9856	0	1.99E+05	0.00	0.5472	No Trend
CB6.4	Spring2	AP	Picoplankton Biomass	0.4339	-3.39E+05	1.13E+08	-5.11	0.9630	No Trend
CB6.4	Spring2	AP	Cryptophyte Biomass	0.5208	-2.75E+05	1.50E+07	-38.40	0.2160	No Trend
CB6.4	Spring2	AP	Cyanobacteria Abundance	0.0140	7.10E+03	1.36E+05	109.65	0.4484	No Trend
CB6.4	Spring2	AP	Number of Species per Replicate	0.0251	-0.36	34.00	-22.46	0.5301	No Trend
CB6.4	Spring2	AP	Pielou's Evenness	<0.0001	0.012	0.46	53.11	0.5657	Improving
CB6.4	Spring2	AP	Shannon Weiner Diversity Index	0.0006	0.046	2.36	40.85	0.7844	Improving
CB6.4	Spring2	AP	Diatom Abundance	0.8865	-6.17E+03	3.35E+06	-3.88	0.2126	No Trend
CB6.4	Spring2	AP	Dinoflagellate Abundance	0.0006	2.51E+04	1.10E+05	477.39	0.2522	Degrading
CB6.4	Spring2	AP	Chlorophyte Abundance	0.0049	6.99E+03	8.84E+03	1661.65	0.6506	Improving
CB6.4	Spring2	AP	Cryptophyte Abundance	0.3919	1.27E+04	6.26E+05	42.76	0.0694	No Trend
CB6.4	Spring2	AP	Number of Genera per replicate	0.1798	-0.200	28.50	-14.74	0.4595	No Trend
CB6.4	Spring2	AP	Picoplankton Abundance	0.4339	-2.26E+05	7.53E+07	-5.11	0.9630	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Spring2	AP	Total Abundance	0.5345	3.54E+04	5.56E+06	13.37	0.5320	No Trend
CB7.3E	Spring2	AP	Total Biomass	0.7701	2.11E+06	4.56E+08	9.70	0.7081	No Trend
CB7.3E	Spring2	AP	Biomass to Abundance Ratio	0.7423	-0.392	74.972	-10.99	0.8177	No Trend
CB7.3E	Spring2	AP	Margalef Diversity Index	0.0069	-0.032	2.61	-26.03	0.8824	Degrading
CB7.3E	Spring2	AP	Diatom Biomass	0.8551	1.02E+06	3.79E+08	5.67	0.7603	No Trend
CB7.3E	Spring2	AP	Dinoflagellate Biomass	0.1884	1.26E+06	4.15E+07	63.56	0.8310	No Trend
CB7.3E	Spring2	AP	Cyanobacteria Biomass	0.0001	8.31E+04	7.71E+04	2262.53	0.6943	Degrading
CB7.3E	Spring2	AP	Chlorophyte Biomass	0.3477	0	0.00E+00	N.E.	0.2574	No Trend
CB7.3E	Spring2	AP	Picoplankton Biomass	0.0623	-1.35E+06	1.45E+08	-15.86	0.9934	No Trend
CB7.3E	Spring2	AP	Cryptophyte Biomass	0.1294	-4.75E+05	2.22E+07	-44.87	0.8121	No Trend
CB7.3E	Spring2	AP	Cyanobacteria Abundance	<0.0001	1.55E+04	1.00E+04	3248.81	0.7643	Degrading
CB7.3E	Spring2	AP	Number of Species per Replicate	0.0120	-0.46	41.50	-23.10	0.6631	No Trend
CB7.3E	Spring2	AP	Pielou's Evenness	<0.0001	0.009	0.45	39.39	0.9097	Improving
CB7.3E	Spring2	AP	Shannon Weiner Diversity Index	0.0049	0.034	2.50	28.35	0.9465	Improving
CB7.3E	Spring2	AP	Diatom Abundance	0.9127	4.00E+03	4.30E+06	1.95	0.2747	No Trend
CB7.3E	Spring2	AP	Dinoflagellate Abundance	0.2731	4.40E+03	2.21E+05	41.77	0.3065	No Trend
CB7.3E	Spring2	AP	Chlorophyte Abundance	0.0004	5.45E+03	0.00E+00	N.E.	0.2984	Improving
CB7.3E	Spring2	AP	Cryptophyte Abundance	0.9854	-6.03E+01	9.27E+05	-0.14	0.9387	No Trend
CB7.3E	Spring2	AP	Number of Genera per replicate	0.0418	-0.329	33.00	-20.95	0.4953	No Trend
CB7.3E	Spring2	AP	Picoplankton Abundance	0.0623	-8.99E+05	9.64E+07	-15.86	0.9934	No Trend
CB7.4	Spring2	AP	Total Abundance	0.4007	4.72E+04	5.77E+06	17.17	0.9751	No Trend
CB7.4	Spring2	AP	Total Biomass	0.3422	4.27E+06	4.32E+08	20.76	0.9183	No Trend
CB7.4	Spring2	AP	Biomass to Abundance Ratio	0.6878	-0.593	60.987	-20.41	0.5243	No Trend
CB7.4	Spring2	AP	Margalef Diversity Index	<0.0001	-0.057	2.80	-42.45	0.7861	Degrading
CB7.4	Spring2	AP	Diatom Biomass	0.8265	1.45E+06	3.94E+08	7.72	0.7864	No Trend
CB7.4	Spring2	AP	Dinoflagellate Biomass	0.2010	1.07E+06	1.92E+07	116.52	0.6445	No Trend
CB7.4	Spring2	AP	Cyanobacteria Biomass	0.0009	3.70E+04	3.43E+03	22622.89	0.8884	Degrading
CB7.4	Spring2	AP	Chlorophyte Biomass	0.8525	0	1.23E+05	0.00	0.5842	No Trend
CB7.4	Spring2	AP	Picoplankton Biomass	0.0494	-1.86E+06	2.12E+08	-14.88	0.5429	No Trend
CB7.4	Spring2	AP	Cryptophyte Biomass	0.6478	-1.11E+05	1.16E+07	-19.97	0.9714	No Trend
CB7.4	Spring2	AP	Cyanobacteria Abundance	0.0040	5.88E+03	2.73E+04	452.20	0.5383	Degrading
CB7.4	Spring2	AP	Number of Species per Replicate	0.0002	-0.75	42.50	-37.06	0.8345	Degrading
CB7.4	Spring2	AP	Pielou's Evenness	<0.0001	0.011	0.36	65.62	0.8331	Improving
CB7.4	Spring2	AP	Shannon Weiner Diversity Index	0.0017	0.039	1.87	43.82	0.8181	Improving
CB7.4	Spring2	AP	Diatom Abundance	0.8838	-6.83E+03	5.20E+06	-2.76	0.8786	No Trend
CB7.4	Spring2	AP	Dinoflagellate Abundance	0.0105	1.06E+04	3.53E+04	630.85	0.5967	No Trend
CB7.4	Spring2	AP	Chlorophyte Abundance	0.0242	2.75E+03	5.47E+03	1055.78	0.7337	No Trend
CB7.4	Spring2	AP	Cryptophyte Abundance	0.6348	4.89E+03	4.84E+05	21.20	0.9188	No Trend
CB7.4	Spring2	AP	Number of Genera per replicate	0.0009	-0.449	33.50	-28.18	0.6104	Degrading
CB7.4	Spring2	AP	Picoplankton Abundance	0.0494	-1.24E+06	1.42E+08	-14.88	0.5429	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Summer1	AP	Total Abundance	0.2824	9.60E+05	4.15E+07	48.54	0.7851	No Trend
TF5.5	Summer1	AP	Total Biomass	0.0118	6.08E+07	1.04E+09	122.22	0.8276	No Trend
TF5.5	Summer1	AP	Biomass to Abundance Ratio	0.0090	0.824	21.852	79.23	0.9796	Improving
TF5.5	Summer1	AP	Margalef Diversity Index	0.0800	-0.025	2.40	-21.46	0.7592	No Trend
TF5.5	Summer1	AP	Diatom Biomass	0.1669	1.72E+07	6.32E+08	57.23	0.9904	No Trend
TF5.5	Summer1	AP	Dinoflagellate Biomass	0.0558	8.01E+04	9.76E+05	172.35	0.5164	No Trend
TF5.5	Summer1	AP	Cyanobacteria Biomass	0.2192	2.46E+06	8.17E+07	63.17	0.9368	No Trend
TF5.5	Summer1	AP	Chlorophyte Biomass	<0.0001	3.07E+07	6.64E+07	971.12	0.9881	Improving
TF5.5	Summer1	AP	Picoplankton Biomass	<0.0001	-1.97E+07	4.64E+08	-76.55	0.6644	Improving
TF5.5	Summer1	AP	Cryptophyte Biomass	0.3104	3.88E+05	1.48E+07	55.04	0.5178	No Trend
TF5.5	Summer1	AP	Cyanobacteria Abundance	0.5595	2.79E+05	1.80E+07	32.56	0.8857	No Trend
TF5.5	Summer1	AP	Number of Species per Replicate	0.1860	-0.35	43.00	-17.24	0.7196	No Trend
TF5.5	Summer1	AP	Pielou's Evenness	0.0003	0.007	0.43	35.46	0.1884	Improving
TF5.5	Summer1	AP	Shannon Weiner Diversity Index	0.0166	0.026	2.34	22.99	0.7023	No Trend
TF5.5	Summer1	AP	Diatom Abundance	0.3410	1.00E+05	8.74E+06	24.10	0.9193	No Trend
TF5.5	Summer1	AP	Dinoflagellate Abundance	0.2933	6.21E+01	1.01E+04	12.90	0.8203	No Trend
TF5.5	Summer1	AP	Chlorophyte Abundance	0.0001	3.32E+05	2.98E+06	233.90	0.9926	Improving
TF5.5	Summer1	AP	Cryptophyte Abundance	0.0005	6.45E+04	6.16E+05	219.71	0.2982	Increasing
TF5.5	Summer1	AP	Number of Genera per replicate	0.0470	-0.333	35.50	-19.72	0.7010	No Trend
TF5.5	Summer1	AP	Picoplankton Abundance	<0.0001	-1.31E+07	3.09E+08	-76.55	0.6644	Improving
RET5.2	Summer1	AP	Total Abundance	0.1669	5.10E+05	7.29E+06	146.92	0.2871	No Trend
RET5.2	Summer1	AP	Total Biomass	0.0099	2.55E+07	1.53E+08	350.36	0.3202	Increasing
RET5.2	Summer1	AP	Biomass to Abundance Ratio	0.0140	0.743	17.156	90.90	0.9200	No Trend
RET5.2	Summer1	AP	Margalef Diversity Index	0.0003	-0.044	1.93	-48.08	0.7396	Degrading
RET5.2	Summer1	AP	Diatom Biomass	0.0426	1.53E+07	1.11E+08	289.84	0.3502	No Trend
RET5.2	Summer1	AP	Dinoflagellate Biomass	0.9508	0	1.80E+06	0.00	0.8074	No Trend
RET5.2	Summer1	AP	Cyanobacteria Biomass	0.2558	5.79E+05	5.66E+06	214.51	0.6587	No Trend
RET5.2	Summer1	AP	Chlorophyte Biomass	0.0196	4.10E+06	4.83E+06	1782.34	0.4500	No Trend
RET5.2	Summer1	AP	Picoplankton Biomass	0.0366	-1.35E+07	6.41E+08	-37.90	0.0412	No Trend
RET5.2	Summer1	AP	Cryptophyte Biomass	0.0354	9.30E+05	1.54E+07	127.02	0.7993	No Trend
RET5.2	Summer1	AP	Cyanobacteria Abundance	0.8059	-3.32E+04	1.89E+06	-36.91	0.3845	No Trend
RET5.2	Summer1	AP	Number of Species per Replicate	0.0015	-0.66	31.50	-43.89	0.7328	Degrading
RET5.2	Summer1	AP	Pielou's Evenness	0.1970	0.003	0.58	9.27	0.7530	No Trend
RET5.2	Summer1	AP	Shannon Weiner Diversity Index	0.7124	-0.006	2.87	-4.16	0.8798	No Trend
RET5.2	Summer1	AP	Diatom Abundance	0.1577	2.05E+05	5.11E+06	84.26	0.4452	No Trend
RET5.2	Summer1	AP	Dinoflagellate Abundance	0.3236	-6.86E+01	6.79E+04	-2.12	0.8956	No Trend
RET5.2	Summer1	AP	Chlorophyte Abundance	0.0230	8.05E+04	1.32E+05	1277.01	0.5809	No Trend
RET5.2	Summer1	AP	Cryptophyte Abundance	0.0013	6.06E+04	6.40E+05	198.67	0.8078	Increasing
RET5.2	Summer1	AP	Number of Genera per replicate	0.0042	-0.449	25.50	-37.02	0.7873	Degrading
RET5.2	Summer1	AP	Picoplankton Abundance	0.0366	-9.00E+06	4.28E+08	-37.90	0.0412	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Summer1	AP	Total Abundance	0.1478	9.44E+04	6.21E+06	33.43	0.6449	No Trend
LE5.5	Summer1	AP	Total Biomass	0.0283	8.01E+06	2.54E+08	69.40	0.0580	No Trend
LE5.5	Summer1	AP	Biomass to Abundance Ratio	0.6160	0.364	47.498	16.85	0.0500	No Trend
LE5.5	Summer1	AP	Margalef Diversity Index	0.0167	-0.026	2.53	-22.32	0.5111	No Trend
LE5.5	Summer1	AP	Diatom Biomass	0.0530	4.30E+06	1.74E+08	54.30	0.1176	No Trend
LE5.5	Summer1	AP	Dinoflagellate Biomass	0.2232	8.19E+05	3.47E+07	51.93	0.2852	No Trend
LE5.5	Summer1	AP	Cyanobacteria Biomass	<0.0001	8.16E+04	2.75E+02	651998.14	0.8497	Degrading
LE5.5	Summer1	AP	Chlorophyte Biomass	0.4506	0	0.00E+00	N.E.	0.6571	No Trend
LE5.5	Summer1	AP	Picoplankton Biomass	0.1864	-7.39E+06	1.20E+09	-11.11	0.7622	No Trend
LE5.5	Summer1	AP	Cryptophyte Biomass	0.0227	-6.29E+05	2.99E+07	-46.24	0.6428	No Trend
LE5.5	Summer1	AP	Cyanobacteria Abundance	<0.0001	1.22E+04	1.83E+04	1464.90	0.9899	Degrading
LE5.5	Summer1	AP	Number of Species per Replicate	0.0072	-0.39	40.75	-21.00	0.5061	Degrading
LE5.5	Summer1	AP	Pielou's Evenness	<0.0001	0.008	0.43	42.10	0.7908	Improving
LE5.5	Summer1	AP	Shannon Weiner Diversity Index	0.0003	0.030	2.27	29.00	0.6248	Improving
LE5.5	Summer1	AP	Diatom Abundance	0.8522	4.93E+03	4.14E+06	2.62	0.2472	No Trend
LE5.5	Summer1	AP	Dinoflagellate Abundance	0.3820	1.79E+03	1.04E+05	37.97	0.2870	No Trend
LE5.5	Summer1	AP	Chlorophyte Abundance	<0.0001	7.36E+03	0.00E+00	N.E.	0.4936	Improving
LE5.5	Summer1	AP	Cryptophyte Abundance	0.6777	-3.80E+03	1.25E+06	-6.71	0.9905	No Trend
LE5.5	Summer1	AP	Number of Genera per replicate	0.1140	-0.182	31.25	-12.80	0.5928	No Trend
LE5.5	Summer1	AP	Picoplankton Abundance	0.1864	-4.92E+06	7.98E+08	-11.11	0.7622	No Trend
SBE5	Summer1	AP	Total Abundance	0.4954	7.86E+04	4.02E+06	35.25	0.0693	No Trend
SBE5	Summer1	AP	Total Biomass	0.3437	2.37E+06	1.03E+08	41.41	0.4208	No Trend
SBE5	Summer1	AP	Biomass to Abundance Ratio	0.9396	-0.033	24.210	-2.46	0.0772	No Trend
SBE5	Summer1	AP	Margalef Diversity Index	0.0280	-0.031	1.78	-31.64	0.2894	No Trend
SBE5	Summer1	AP	Diatom Biomass	0.3437	1.70E+06	5.90E+07	51.93	0.3495	No Trend
SBE5	Summer1	AP	Dinoflagellate Biomass	0.7049	-4.10E+04	7.08E+06	-10.42	0.7988	No Trend
SBE5	Summer1	AP	Cyanobacteria Biomass	0.0338	8.02E+04	7.98E+05	180.91	0.9528	No Trend
SBE5	Summer1	AP	Chlorophyte Biomass	0.6055	0	1.92E+04	0.00	0.2832	No Trend
SBE5	Summer1	AP	Picoplankton Biomass	0.0148	-9.72E+06	5.91E+08	-29.60	0.9933	No Trend
SBE5	Summer1	AP	Cryptophyte Biomass	0.8796	-5.32E+04	1.57E+07	-6.10	0.9011	No Trend
SBE5	Summer1	AP	Cyanobacteria Abundance	0.5826	4.16E+02	4.98E+05	1.50	0.4423	No Trend
SBE5	Summer1	AP	Number of Species per Replicate	0.0317	-0.46	28.50	-28.93	0.3296	No Trend
SBE5	Summer1	AP	Pielou's Evenness	0.9396	0.000	0.58	-0.50	0.2658	No Trend
SBE5	Summer1	AP	Shannon Weiner Diversity Index	0.2113	-0.012	2.90	-7.67	0.3400	No Trend
SBE5	Summer1	AP	Diatom Abundance	0.4954	3.79E+04	2.69E+06	25.39	0.0666	No Trend
SBE5	Summer1	AP	Dinoflagellate Abundance	1.0000	-4.06E+00	1.22E+05	-0.06	0.5960	No Trend
SBE5	Summer1	AP	Chlorophyte Abundance	0.1479	1.63E+03	8.64E+02	3400.00	0.6007	No Trend
SBE5	Summer1	AP	Cryptophyte Abundance	0.4047	1.56E+04	6.54E+05	43.04	0.5090	No Trend
SBE5	Summer1	AP	Number of Genera per replicate	0.0471	-0.333	26.50	-22.64	0.1727	No Trend
SBE5	Summer1	AP	Picoplankton Abundance	0.0148	-6.48E+06	3.94E+08	-29.60	0.9933	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Summer1	AP	Total Abundance	0.0047	2.23E+05	9.42E+06	47.34	0.7725	Increasing
TF4.2	Summer1	AP	Total Biomass	0.0096	1.16E+07	1.89E+08	123.09	0.5145	Increasing
TF4.2	Summer1	AP	Biomass to Abundance Ratio	0.5037	0.360	31.585	22.80	0.5310	No Trend
TF4.2	Summer1	AP	Margalef Diversity Index	0.0486	-0.029	2.16	-27.23	0.3038	No Trend
TF4.2	Summer1	AP	Diatom Biomass	0.1108	3.24E+06	1.38E+08	47.13	0.4945	No Trend
TF4.2	Summer1	AP	Dinoflagellate Biomass	0.4502	8.49E+03	3.22E+05	52.79	0.0754	No Trend
TF4.2	Summer1	AP	Cyanobacteria Biomass	0.8504	-4.86E+03	9.70E+06	-1.00	0.2934	No Trend
TF4.2	Summer1	AP	Chlorophyte Biomass	0.0001	1.78E+06	7.82E+06	456.05	0.8434	Improving
TF4.2	Summer1	AP	Picoplankton Biomass	0.5430	-1.81E+06	1.03E+08	-31.77	0.6395	No Trend
TF4.2	Summer1	AP	Cryptophyte Biomass	0.2169	3.63E+05	7.07E+06	102.56	0.4458	No Trend
TF4.2	Summer1	AP	Cyanobacteria Abundance	0.3818	-1.71E+04	4.53E+06	-7.56	0.5747	No Trend
TF4.2	Summer1	AP	Number of Species per Replicate	0.0764	-0.29	34.00	-16.81	0.3609	No Trend
TF4.2	Summer1	AP	Pielou's Evenness	0.5950	-0.001	0.57	-3.84	0.7021	No Trend
TF4.2	Summer1	AP	Shannon Weiner Diversity Index	0.1755	-0.013	2.91	-8.64	0.5947	No Trend
TF4.2	Summer1	AP	Diatom Abundance	0.6190	1.75E+04	2.85E+06	12.28	0.6014	No Trend
TF4.2	Summer1	AP	Dinoflagellate Abundance	0.2641	6.40E+01	1.60E+03	80.00	0.2470	No Trend
TF4.2	Summer1	AP	Chlorophyte Abundance	<0.0001	6.12E+04	2.18E+05	560.62	0.5477	Improving
TF4.2	Summer1	AP	Cryptophyte Abundance	0.0006	4.56E+04	3.50E+05	260.36	0.5519	Increasing
TF4.2	Summer1	AP	Number of Genera per replicate	0.1907	-0.267	28.00	-19.05	0.3969	No Trend
TF4.2	Summer1	AP	Picoplankton Abundance	0.5430	-1.21E+06	6.84E+07	-31.77	0.6395	No Trend
RET4.3	Summer1	AP	Total Abundance	0.6790	6.82E+04	1.36E+07	10.52	0.3533	No Trend
RET4.3	Summer1	AP	Total Biomass	0.2652	5.26E+06	4.19E+08	26.37	0.3509	No Trend
RET4.3	Summer1	AP	Biomass to Abundance Ratio	0.2652	0.187	31.871	12.32	0.6020	No Trend
RET4.3	Summer1	AP	Margalef Diversity Index	0.0201	-0.022	1.77	-26.70	0.5167	No Trend
RET4.3	Summer1	AP	Diatom Biomass	0.9239	2.62E+05	3.10E+08	1.77	0.2888	No Trend
RET4.3	Summer1	AP	Dinoflagellate Biomass	0.9619	-2.24E+04	3.38E+07	-1.39	0.4748	No Trend
RET4.3	Summer1	AP	Cyanobacteria Biomass	0.1114	2.61E+05	4.77E+06	115.20	0.5489	No Trend
RET4.3	Summer1	AP	Chlorophyte Biomass	0.0004	3.93E+05	5.16E+05	1599.18	0.3951	Improving
RET4.3	Summer1	AP	Picoplankton Biomass	0.0463	-9.05E+06	4.46E+08	-36.50	0.1925	No Trend
RET4.3	Summer1	AP	Cryptophyte Biomass	0.7262	-1.34E+05	2.16E+07	-12.98	0.1422	No Trend
RET4.3	Summer1	AP	Cyanobacteria Abundance	0.2583	1.66E+04	4.38E+05	79.46	0.5128	No Trend
RET4.3	Summer1	AP	Number of Species per Replicate	0.0243	-0.33	29.50	-23.73	0.6489	No Trend
RET4.3	Summer1	AP	Pielou's Evenness	1.0000	0.000	0.54	0.06	0.9450	No Trend
RET4.3	Summer1	AP	Shannon Weiner Diversity Index	0.0978	-0.016	2.71	-12.20	0.8139	No Trend
RET4.3	Summer1	AP	Diatom Abundance	0.9239	-5.79E+03	7.28E+06	-1.67	0.5388	No Trend
RET4.3	Summer1	AP	Dinoflagellate Abundance	0.9619	-4.66E+01	2.48E+05	-0.39	0.9644	No Trend
RET4.3	Summer1	AP	Chlorophyte Abundance	<0.0001	3.69E+04	2.93E+04	2637.94	0.4296	Improving
RET4.3	Summer1	AP	Cryptophyte Abundance	0.2791	1.70E+04	9.01E+05	39.66	0.0406	No Trend
RET4.3	Summer1	AP	Number of Genera per replicate	0.0458	-0.250	26.50	-19.81	0.7455	No Trend
RET4.3	Summer1	AP	Picoplankton Abundance	0.0463	-6.03E+06	2.98E+08	-36.50	0.1925	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Summer1	AP	Total Abundance	0.6363	-1.74E+04	6.59E+06	-5.80	0.9787	No Trend
WE4.2	Summer1	AP	Total Biomass	0.3228	4.91E+06	2.55E+08	42.35	0.8007	No Trend
WE4.2	Summer1	AP	Biomass to Abundance Ratio	0.1645	0.895	43.038	45.74	0.7940	No Trend
WE4.2	Summer1	AP	Margalef Diversity Index	0.0496	-0.030	2.36	-27.82	0.1806	No Trend
WE4.2	Summer1	AP	Diatom Biomass	0.1252	3.80E+06	1.51E+08	55.49	0.4611	No Trend
WE4.2	Summer1	AP	Dinoflagellate Biomass	0.8974	1.17E+05	7.18E+07	3.58	0.9855	No Trend
WE4.2	Summer1	AP	Cyanobacteria Biomass	<0.0001	4.63E+04	0.00E+00	N.E.	0.8253	Degrading
WE4.2	Summer1	AP	Chlorophyte Biomass	0.2830	0	4.81E+04	0.00	0.4886	No Trend
WE4.2	Summer1	AP	Picoplankton Biomass	0.0827	-1.57E+07	1.32E+09	-21.40	0.5613	No Trend
WE4.2	Summer1	AP	Cryptophyte Biomass	0.0040	-1.04E+06	3.38E+07	-67.79	0.0520	Decreasing
WE4.2	Summer1	AP	Cyanobacteria Abundance	0.0001	6.46E+03	1.02E+04	1398.91	0.4931	Degrading
WE4.2	Summer1	AP	Number of Species per Replicate	0.0460	-0.45	38.25	-26.14	0.1511	No Trend
WE4.2	Summer1	AP	Pielou's Evenness	<0.0001	0.010	0.48	45.15	0.7263	Improving
WE4.2	Summer1	AP	Shannon Weiner Diversity Index	<0.0001	0.033	2.64	27.11	0.9250	Improving
WE4.2	Summer1	AP	Diatom Abundance	0.6988	-9.46E+03	4.62E+06	-4.51	0.2149	No Trend
WE4.2	Summer1	AP	Dinoflagellate Abundance	0.8298	-8.79E+02	2.31E+05	-8.38	0.6599	No Trend
WE4.2	Summer1	AP	Chlorophyte Abundance	<0.0001	7.43E+03	2.11E+03	7763.89	0.8097	Improving
WE4.2	Summer1	AP	Cryptophyte Abundance	0.0433	-3.04E+04	1.41E+06	-47.46	0.0420	No Trend
WE4.2	Summer1	AP	Number of Genera per replicate	0.0820	-0.222	30.25	-16.16	0.3095	No Trend
WE4.2	Summer1	AP	Picoplankton Abundance	0.0827	-1.05E+07	8.80E+08	-21.40	0.5613	No Trend
TF3.3	Summer1	AP	Total Abundance	<0.0001	1.89E+06	6.37E+06	623.76	0.5305	Increasing
TF3.3	Summer1	AP	Total Biomass	<0.0001	6.53E+07	1.32E+08	1037.72	0.9954	Increasing
TF3.3	Summer1	AP	Biomass to Abundance Ratio	0.1114	0.429	22.514	39.98	0.8731	No Trend
TF3.3	Summer1	AP	Margalef Diversity Index	0.9492	-0.002	1.72	-2.42	0.8890	No Trend
TF3.3	Summer1	AP	Diatom Biomass	<0.0001	3.45E+07	8.00E+07	905.07	0.9588	Improving
TF3.3	Summer1	AP	Dinoflagellate Biomass	0.0024	3.29E+05	1.28E+06	539.62	0.4405	Degrading
TF3.3	Summer1	AP	Cyanobacteria Biomass	<0.0001	3.91E+06	1.10E+06	7460.55	0.5848	Degrading
TF3.3	Summer1	AP	Chlorophyte Biomass	<0.0001	9.19E+06	3.81E+06	5072.14	0.4230	Improving
TF3.3	Summer1	AP	Picoplankton Biomass	0.8974	-8.02E+05	4.54E+08	-3.18	0.9254	No Trend
TF3.3	Summer1	AP	Cryptophyte Biomass	0.7141	1.67E+05	1.34E+07	26.04	0.4498	No Trend
TF3.3	Summer1	AP	Cyanobacteria Abundance	0.0003	7.51E+05	7.38E+04	21372.91	0.2929	Degrading
TF3.3	Summer1	AP	Number of Species per Replicate	0.5548	0.14	28.50	10.18	0.9343	No Trend
TF3.3	Summer1	AP	Pielou's Evenness	0.0329	0.005	0.56	18.71	0.2057	No Trend
TF3.3	Summer1	AP	Shannon Weiner Diversity Index	0.1431	0.022	2.52	18.68	0.4114	No Trend
TF3.3	Summer1	AP	Diatom Abundance	<0.0001	6.43E+05	2.78E+06	485.62	0.9860	Improving
TF3.3	Summer1	AP	Dinoflagellate Abundance	0.0577	1.02E+03	2.62E+04	82.19	0.8335	No Trend
TF3.3	Summer1	AP	Chlorophyte Abundance	<0.0001	1.54E+05	2.59E+05	1250.05	0.7582	Improving
TF3.3	Summer1	AP	Cryptophyte Abundance	0.2789	2.23E+04	5.59E+05	83.70	0.4359	No Trend
TF3.3	Summer1	AP	Number of Genera per replicate	0.2638	0.200	24.50	17.14	0.9563	No Trend
TF3.3	Summer1	AP	Picoplankton Abundance	0.8974	-5.35E+05	3.03E+08	-3.18	0.9254	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Summer1	AP	Total Abundance	0.0001	1.26E+06	7.99E+06	330.38	0.9755	Increasing
RET3.1	Summer1	AP	Total Biomass	0.0001	2.79E+07	2.61E+08	224.29	0.7747	Increasing
RET3.1	Summer1	AP	Biomass to Abundance Ratio	0.5453	-0.183	32.948	-11.69	0.7766	No Trend
RET3.1	Summer1	AP	Margalef Diversity Index	0.1812	-0.016	1.89	-17.29	0.8962	No Trend
RET3.1	Summer1	AP	Diatom Biomass	0.0020	1.64E+07	1.60E+08	215.00	0.9952	Improving
RET3.1	Summer1	AP	Dinoflagellate Biomass	0.9492	-6.04E+03	2.65E+07	-0.48	0.5634	No Trend
RET3.1	Summer1	AP	Cyanobacteria Biomass	<0.0001	2.94E+06	2.77E+06	2227.66	0.9215	Degrading
RET3.1	Summer1	AP	Chlorophyte Biomass	0.0039	1.25E+06	1.49E+06	1765.63	0.7157	Improving
RET3.1	Summer1	AP	Picoplankton Biomass	0.6000	-4.15E+06	7.79E+08	-9.58	0.9835	No Trend
RET3.1	Summer1	AP	Cryptophyte Biomass	0.7142	3.26E+05	2.65E+07	25.85	0.3399	No Trend
RET3.1	Summer1	AP	Cyanobacteria Abundance	<0.0001	5.36E+05	8.26E+05	1363.99	0.9478	Degrading
RET3.1	Summer1	AP	Number of Species per Replicate	0.6435	-0.11	31.50	-7.04	0.9222	No Trend
RET3.1	Summer1	AP	Pielou's Evenness	0.0142	0.004	0.55	13.76	0.7729	No Trend
RET3.1	Summer1	AP	Shannon Weiner Diversity Index	0.0800	0.016	3.00	11.01	0.9649	No Trend
RET3.1	Summer1	AP	Diatom Abundance	0.0031	3.38E+05	2.82E+06	251.32	0.9911	Improving
RET3.1	Summer1	AP	Dinoflagellate Abundance	0.5241	-1.75E+03	5.42E+05	-6.80	0.4938	No Trend
RET3.1	Summer1	AP	Chlorophyte Abundance	<0.0001	1.09E+05	1.62E+05	1419.26	0.6299	Improving
RET3.1	Summer1	AP	Cryptophyte Abundance	0.0170	6.35E+04	1.10E+06	121.01	0.5897	No Trend
RET3.1	Summer1	AP	Number of Genera per replicate	0.9745	0.000	28.50	0.00	0.9662	No Trend
RET3.1	Summer1	AP	Picoplankton Abundance	0.6000	-2.76E+06	5.20E+08	-9.58	0.9835	No Trend
LE3.6	Summer1	AP	Total Abundance	0.4662	7.27E+04	5.73E+06	27.93	0.5690	No Trend
LE3.6	Summer1	AP	Total Biomass	0.2321	6.47E+06	3.38E+08	42.17	0.8358	No Trend
LE3.6	Summer1	AP	Biomass to Abundance Ratio	0.9767	0.009	55.711	0.36	0.8426	No Trend
LE3.6	Summer1	AP	Margalef Diversity Index	0.0803	-0.019	2.54	-16.40	0.4154	No Trend
LE3.6	Summer1	AP	Diatom Biomass	0.7707	4.92E+05	1.84E+08	5.88	0.6273	No Trend
LE3.6	Summer1	AP	Dinoflagellate Biomass	0.1026	2.74E+06	7.69E+07	78.41	0.9455	No Trend
LE3.6	Summer1	AP	Cyanobacteria Biomass	0.0011	7.08E+04	7.48E+04	2083.64	0.9320	Degrading
LE3.6	Summer1	AP	Chlorophyte Biomass	0.7532	0	2.80E+05	0.00	0.7284	No Trend
LE3.6	Summer1	AP	Picoplankton Biomass	0.0018	-4.77E+07	1.59E+09	-53.92	0.3590	Improving
LE3.6	Summer1	AP	Cryptophyte Biomass	0.0239	-1.14E+06	4.29E+07	-58.53	0.7534	No Trend
LE3.6	Summer1	AP	Cyanobacteria Abundance	0.0018	1.64E+04	2.49E+04	1448.89	0.9278	Degrading
LE3.6	Summer1	AP	Number of Species per Replicate	0.1485	-0.24	40.00	-13.29	0.6283	No Trend
LE3.6	Summer1	AP	Pielou's Evenness	0.0002	0.006	0.49	25.12	0.5022	Improving
LE3.6	Summer1	AP	Shannon Weiner Diversity Index	0.0032	0.025	2.58	21.51	0.2774	Improving
LE3.6	Summer1	AP	Diatom Abundance	0.5599	2.88E+04	2.41E+06	26.22	0.8520	No Trend
LE3.6	Summer1	AP	Dinoflagellate Abundance	0.0182	1.19E+04	2.44E+05	107.58	0.7514	No Trend
LE3.6	Summer1	AP	Chlorophyte Abundance	0.0003	3.95E+03	1.17E+04	741.42	0.4481	Improving
LE3.6	Summer1	AP	Cryptophyte Abundance	0.5405	-1.03E+04	1.79E+06	-12.63	0.4887	No Trend
LE3.6	Summer1	AP	Number of Genera per replicate	0.4194	-0.051	31.00	-3.64	0.7062	No Trend
LE3.6	Summer1	AP	Picoplankton Abundance	0.0018	-3.18E+07	1.06E+09	-53.92	0.3590	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Summer1	AP	Total Abundance	0.2941	6.47E+04	4.81E+06	29.59	0.9766	No Trend
CB6.1	Summer1	AP	Total Biomass	0.8841	1.02E+06	4.02E+08	5.56	0.5667	No Trend
CB6.1	Summer1	AP	Biomass to Abundance Ratio	0.4313	-0.600	81.871	-16.13	0.9459	No Trend
CB6.1	Summer1	AP	Margalef Diversity Index	0.2809	-0.014	2.57	-12.01	0.7721	No Trend
CB6.1	Summer1	AP	Diatom Biomass	0.4486	1.62E+06	1.06E+08	33.77	0.8571	No Trend
CB6.1	Summer1	AP	Dinoflagellate Biomass	0.3077	-1.53E+06	4.45E+07	-75.57	0.9269	No Trend
CB6.1	Summer1	AP	Cyanobacteria Biomass	<0.0001	1.14E+05	1.02E+05	2444.71	0.5184	Degrading
CB6.1	Summer1	AP	Chlorophyte Biomass	0.0282	1.14E+03	1.17E+05	21.60	0.5518	No Trend
CB6.1	Summer1	AP	Picoplankton Biomass	0.0004	-5.70E+07	1.35E+09	-76.19	0.9402	Improving
CB6.1	Summer1	AP	Cryptophyte Biomass	0.0006	-1.38E+06	2.98E+07	-102.32	0.9053	Decreasing
CB6.1	Summer1	AP	Cyanobacteria Abundance	<0.0001	2.26E+04	5.33E+04	932.73	0.7622	Degrading
CB6.1	Summer1	AP	Number of Species per Replicate	0.3278	-0.13	40.75	-6.75	0.8114	No Trend
CB6.1	Summer1	AP	Pielou's Evenness	0.0001	0.007	0.50	31.67	0.7996	Improving
CB6.1	Summer1	AP	Shannon Weiner Diversity Index	0.0156	0.031	2.54	27.02	0.8916	No Trend
CB6.1	Summer1	AP	Diatom Abundance	0.4662	2.60E+04	2.00E+06	28.53	0.9584	No Trend
CB6.1	Summer1	AP	Dinoflagellate Abundance	0.9535	-2.89E+02	1.74E+05	-3.65	0.8815	No Trend
CB6.1	Summer1	AP	Chlorophyte Abundance	<0.0001	4.02E+03	5.18E+03	1705.74	0.2868	Improving
CB6.1	Summer1	AP	Cryptophyte Abundance	0.1450	-2.55E+04	1.36E+06	-41.27	0.6564	No Trend
CB6.1	Summer1	AP	Number of Genera per replicate	0.6505	-0.040	30.25	-2.91	0.9293	No Trend
CB6.1	Summer1	AP	Picoplankton Abundance	0.0004	-3.80E+07	8.97E+08	-76.19	0.9402	Improving
CB6.4	Summer1	AP	Total Abundance	0.4826	5.37E+04	3.13E+06	37.69	0.3531	No Trend
CB6.4	Summer1	AP	Total Biomass	0.3978	3.41E+06	1.81E+08	41.39	0.7872	No Trend
CB6.4	Summer1	AP	Biomass to Abundance Ratio	0.2698	0.722	59.941	26.52	0.7516	No Trend
CB6.4	Summer1	AP	Margalef Diversity Index	0.0780	-0.020	2.18	-20.31	0.1986	No Trend
CB6.4	Summer1	AP	Diatom Biomass	0.9886	6.32E+04	7.67E+07	1.81	0.7186	No Trend
CB6.4	Summer1	AP	Dinoflagellate Biomass	0.0530	2.85E+06	4.63E+07	135.21	0.8248	No Trend
CB6.4	Summer1	AP	Cyanobacteria Biomass	<0.0001	4.09E+04	0.00E+00	N.E.	0.8344	Degrading
CB6.4	Summer1	AP	Chlorophyte Biomass	0.5376	0	1.31E+05	0.00	0.8268	No Trend
CB6.4	Summer1	AP	Picoplankton Biomass	0.0533	-2.30E+07	1.33E+09	-31.13	0.5879	No Trend
CB6.4	Summer1	AP	Cryptophyte Biomass	0.0994	-7.73E+05	3.04E+07	-55.95	0.1384	No Trend
CB6.4	Summer1	AP	Cyanobacteria Abundance	<0.0001	1.30E+04	1.32E+04	2175.05	0.9757	Degrading
CB6.4	Summer1	AP	Number of Species per Replicate	0.0875	-0.35	34.00	-22.84	0.1659	No Trend
CB6.4	Summer1	AP	Pielou's Evenness	<0.0001	0.009	0.48	42.29	0.7158	Improving
CB6.4	Summer1	AP	Shannon Weiner Diversity Index	0.0001	0.041	2.55	35.07	0.5622	Improving
CB6.4	Summer1	AP	Diatom Abundance	0.9657	8.23E+02	1.60E+06	1.13	0.3906	No Trend
CB6.4	Summer1	AP	Dinoflagellate Abundance	0.0103	7.94E+03	1.45E+05	120.08	0.2824	No Trend
CB6.4	Summer1	AP	Chlorophyte Abundance	0.0005	5.53E+03	5.84E+03	2082.80	0.7476	Improving
CB6.4	Summer1	AP	Cryptophyte Abundance	0.5568	-1.37E+04	1.27E+06	-23.82	0.0667	No Trend
CB6.4	Summer1	AP	Number of Genera per replicate	0.3285	-0.111	28.50	-8.58	0.3066	No Trend
CB6.4	Summer1	AP	Picoplankton Abundance	0.0533	-1.53E+07	8.85E+08	-31.13	0.5879	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Summer1	AP	Total Abundance	0.0881	6.57E+04	3.44E+06	41.97	0.0376	No Trend
CB7.3E	Summer1	AP	Total Biomass	0.0143	1.16E+07	2.38E+08	106.97	0.0875	No Trend
CB7.3E	Summer1	AP	Biomass to Abundance Ratio	0.7417	0.352	70.015	11.07	0.7805	No Trend
CB7.3E	Summer1	AP	Margalef Diversity Index	0.0062	-0.035	2.66	-28.79	0.3390	Degrading
CB7.3E	Summer1	AP	Diatom Biomass	0.1826	2.94E+06	1.62E+08	39.89	0.6320	No Trend
CB7.3E	Summer1	AP	Dinoflagellate Biomass	0.0132	2.40E+06	3.28E+07	161.13	0.1670	No Trend
CB7.3E	Summer1	AP	Cyanobacteria Biomass	0.0002	4.92E+04	5.07E+04	2131.16	0.9810	Degrading
CB7.3E	Summer1	AP	Chlorophyte Biomass	0.3164	0	9.62E+04	0.00	0.6587	No Trend
CB7.3E	Summer1	AP	Picoplankton Biomass	0.3645	-7.37E+06	8.95E+08	-14.83	0.4885	No Trend
CB7.3E	Summer1	AP	Cryptophyte Biomass	0.7417	-1.14E+05	1.87E+07	-13.45	0.0783	No Trend
CB7.3E	Summer1	AP	Cyanobacteria Abundance	0.0001	8.88E+03	6.19E+03	3158.35	0.6190	Degrading
CB7.3E	Summer1	AP	Number of Species per Replicate	0.0147	-0.50	42.25	-26.04	0.1450	No Trend
CB7.3E	Summer1	AP	Pielou's Evenness	<0.0001	0.009	0.45	43.23	0.4611	Improving
CB7.3E	Summer1	AP	Shannon Weiner Diversity Index	0.0040	0.030	2.50	26.61	0.4353	Improving
CB7.3E	Summer1	AP	Diatom Abundance	0.5762	1.47E+04	1.92E+06	16.88	0.2251	No Trend
CB7.3E	Summer1	AP	Dinoflagellate Abundance	0.0030	6.30E+03	8.72E+04	158.98	0.0225	Degrading
CB7.3E	Summer1	AP	Chlorophyte Abundance	<0.0001	7.02E+03	4.21E+03	3666.88	0.6502	Improving
CB7.3E	Summer1	AP	Cryptophyte Abundance	0.1826	1.28E+04	7.80E+05	36.05	0.2467	No Trend
CB7.3E	Summer1	AP	Number of Genera per replicate	0.0443	-0.308	33.75	-20.06	0.1368	No Trend
CB7.3E	Summer1	AP	Picoplankton Abundance	0.3645	-4.92E+06	5.97E+08	-14.83	0.4885	No Trend
CB7.4	Summer1	AP	Total Abundance	0.0227	9.61E+04	2.27E+06	93.22	0.6314	No Trend
CB7.4	Summer1	AP	Total Biomass	0.0227	8.80E+06	1.53E+08	126.93	0.9154	No Trend
CB7.4	Summer1	AP	Biomass to Abundance Ratio	0.6363	0.336	70.181	10.55	0.9670	No Trend
CB7.4	Summer1	AP	Margalef Diversity Index	<0.0001	-0.055	3.14	-38.33	0.9146	Degrading
CB7.4	Summer1	AP	Diatom Biomass	0.0283	5.09E+06	1.12E+08	100.10	0.5716	No Trend
CB7.4	Summer1	AP	Dinoflagellate Biomass	0.0210	1.70E+06	1.62E+07	230.24	0.4960	No Trend
CB7.4	Summer1	AP	Cyanobacteria Biomass	0.0054	1.79E+02	7.91E+03	49.85	0.2113	Degrading
CB7.4	Summer1	AP	Chlorophyte Biomass	0.7892	0	1.34E+05	0.00	0.0720	No Trend
CB7.4	Summer1	AP	Picoplankton Biomass	0.9685	1.00E+06	7.34E+08	2.46	0.1427	No Trend
CB7.4	Summer1	AP	Cryptophyte Biomass	0.1399	-2.19E+05	7.62E+06	-63.16	0.3341	No Trend
CB7.4	Summer1	AP	Cyanobacteria Abundance	0.0147	1.60E+01	1.14E+04	3.09	0.3738	No Trend
CB7.4	Summer1	AP	Number of Species per Replicate	0.0001	-0.68	45.75	-32.79	0.8264	Degrading
CB7.4	Summer1	AP	Pielou's Evenness	0.0001	0.007	0.49	33.20	0.5621	Improving
CB7.4	Summer1	AP	Shannon Weiner Diversity Index	0.0195	0.020	2.70	16.53	0.5783	No Trend
CB7.4	Summer1	AP	Diatom Abundance	0.1117	5.01E+04	1.62E+06	68.17	0.2705	No Trend
CB7.4	Summer1	AP	Dinoflagellate Abundance	0.0014	7.20E+03	3.58E+04	442.25	0.5429	Degrading
CB7.4	Summer1	AP	Chlorophyte Abundance	0.0198	7.48E+02	5.94E+03	276.85	0.3823	No Trend
CB7.4	Summer1	AP	Cryptophyte Abundance	0.3978	7.82E+03	3.18E+05	54.18	0.2978	No Trend
CB7.4	Summer1	AP	Number of Genera per replicate	0.0005	-0.400	35.25	-24.96	0.9785	Degrading
CB7.4	Summer1	AP	Picoplankton Abundance	0.9685	6.68E+05	4.89E+08	2.46	0.1427	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Summer2	AP	Total Abundance	0.2118	1.76E+06	3.42E+07	108.37	0.7101	No Trend
TF5.5	Summer2	AP	Total Biomass	0.0868	5.46E+07	1.07E+09	106.77	0.9809	No Trend
TF5.5	Summer2	AP	Biomass to Abundance Ratio	0.0296	0.744	21.852	71.49	0.9235	No Trend
TF5.5	Summer2	AP	Margalef Diversity Index	0.1341	-0.025	2.39	-21.59	0.5563	No Trend
TF5.5	Summer2	AP	Diatom Biomass	0.2688	1.61E+07	6.32E+08	53.55	0.9618	No Trend
TF5.5	Summer2	AP	Dinoflagellate Biomass	0.0549	1.07E+05	4.10E+05	550.19	0.3605	No Trend
TF5.5	Summer2	AP	Cyanobacteria Biomass	0.3537	2.33E+06	8.17E+07	59.95	0.8407	No Trend
TF5.5	Summer2	AP	Chlorophyte Biomass	0.0001	2.91E+07	5.07E+07	1205.07	0.9673	Improving
TF5.5	Summer2	AP	Picoplankton Biomass	0.0002	-1.76E+07	3.71E+08	-85.73	0.4557	Improving
TF5.5	Summer2	AP	Cryptophyte Biomass	0.4863	3.22E+05	1.48E+07	45.64	0.3454	No Trend
TF5.5	Summer2	AP	Cyanobacteria Abundance	0.4119	7.49E+05	1.80E+07	87.56	0.8767	No Trend
TF5.5	Summer2	AP	Number of Species per Replicate	0.3171	-0.31	42.50	-15.20	0.5332	No Trend
TF5.5	Summer2	AP	Pielou's Evenness	0.0039	0.007	0.43	32.61	0.1042	Improving
TF5.5	Summer2	AP	Shannon Weiner Diversity Index	0.0353	0.026	2.34	22.93	0.4938	No Trend
TF5.5	Summer2	AP	Diatom Abundance	0.3355	1.08E+05	7.48E+06	30.29	0.8095	No Trend
TF5.5	Summer2	AP	Dinoflagellate Abundance	0.3406	6.76E+01	2.56E+02	554.17	0.6323	No Trend
TF5.5	Summer2	AP	Chlorophyte Abundance	0.0013	4.25E+05	3.00E+06	298.03	0.9913	Improving
TF5.5	Summer2	AP	Cryptophyte Abundance	0.0075	5.99E+04	6.16E+05	203.96	0.2075	Increasing
TF5.5	Summer2	AP	Number of Genera per replicate	0.1037	-0.333	34.00	-20.59	0.5000	No Trend
TF5.5	Summer2	AP	Picoplankton Abundance	0.0002	-1.18E+07	2.47E+08	-85.73	0.4557	Improving
RET5.2	Summer2	AP	Total Abundance	0.3355	3.37E+05	7.29E+06	97.09	0.1708	No Trend
RET5.2	Summer2	AP	Total Biomass	0.0541	2.20E+07	1.53E+08	302.98	0.2117	No Trend
RET5.2	Summer2	AP	Biomass to Abundance Ratio	0.0587	0.543	17.472	65.31	0.8688	No Trend
RET5.2	Summer2	AP	Margalef Diversity Index	0.0024	-0.042	1.93	-45.51	0.5504	Degrading
RET5.2	Summer2	AP	Diatom Biomass	0.2118	1.05E+07	1.11E+08	199.61	0.3262	No Trend
RET5.2	Summer2	AP	Dinoflagellate Biomass	0.8579	0	1.80E+06	0.00	0.6779	No Trend
RET5.2	Summer2	AP	Cyanobacteria Biomass	0.2845	8.88E+05	5.66E+06	329.05	0.4538	No Trend
RET5.2	Summer2	AP	Chlorophyte Biomass	0.0385	3.77E+06	4.83E+06	1641.08	0.2679	No Trend
RET5.2	Summer2	AP	Picoplankton Biomass	0.0087	-1.98E+07	6.41E+08	-55.70	0.0563	Improving
RET5.2	Summer2	AP	Cryptophyte Biomass	0.1587	7.18E+05	1.63E+07	92.35	0.8457	No Trend
RET5.2	Summer2	AP	Cyanobacteria Abundance	0.9148	-1.31E+04	1.89E+06	-14.61	0.2217	No Trend
RET5.2	Summer2	AP	Number of Species per Replicate	0.0117	-0.60	31.50	-40.00	0.5765	No Trend
RET5.2	Summer2	AP	Pielou's Evenness	0.5208	0.001	0.58	5.16	0.8548	No Trend
RET5.2	Summer2	AP	Shannon Weiner Diversity Index	0.5442	-0.008	2.87	-6.02	0.8399	No Trend
RET5.2	Summer2	AP	Diatom Abundance	0.6175	8.56E+04	5.11E+06	35.23	0.7363	No Trend
RET5.2	Summer2	AP	Dinoflagellate Abundance	0.2988	-1.19E+02	6.79E+04	-3.68	0.7924	No Trend
RET5.2	Summer2	AP	Chlorophyte Abundance	0.0385	8.11E+04	1.32E+05	1287.22	0.3818	No Trend
RET5.2	Summer2	AP	Cryptophyte Abundance	0.0177	4.88E+04	6.80E+05	150.72	0.8533	No Trend
RET5.2	Summer2	AP	Number of Genera per replicate	0.0143	-0.429	25.50	-35.29	0.5898	No Trend
RET5.2	Summer2	AP	Picoplankton Abundance	0.0087	-1.32E+07	4.28E+08	-55.70	0.0563	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Summer2	AP	Total Abundance	0.0874	1.18E+05	5.76E+06	45.02	0.6893	No Trend
LE5.5	Summer2	AP	Total Biomass	0.1220	6.87E+06	2.54E+08	59.49	0.0313	No Trend
LE5.5	Summer2	AP	Biomass to Abundance Ratio	0.7571	-0.233	47.498	-10.81	0.0686	No Trend
LE5.5	Summer2	AP	Margalef Diversity Index	0.1001	-0.021	2.37	-19.18	0.4746	No Trend
LE5.5	Summer2	AP	Diatom Biomass	0.0815	4.20E+06	1.61E+08	57.37	0.0534	No Trend
LE5.5	Summer2	AP	Dinoflagellate Biomass	0.4638	5.12E+05	4.93E+07	22.87	0.1895	No Trend
LE5.5	Summer2	AP	Cyanobacteria Biomass	<0.0001	7.71E+04	0.00E+00	N.E.	0.7201	Degrading
LE5.5	Summer2	AP	Chlorophyte Biomass	0.4698	0	0.00E+00	N.E.	0.4518	No Trend
LE5.5	Summer2	AP	Picoplankton Biomass	0.1707	-8.70E+06	1.20E+09	-13.09	0.6265	No Trend
LE5.5	Summer2	AP	Cryptophyte Biomass	0.0257	-6.65E+05	3.33E+07	-43.97	0.5010	No Trend
LE5.5	Summer2	AP	Cyanobacteria Abundance	<0.0001	1.11E+04	1.83E+04	1339.74	0.9621	Degrading
LE5.5	Summer2	AP	Number of Species per Replicate	0.0538	-0.33	38.25	-19.17	0.4448	No Trend
LE5.5	Summer2	AP	Pielou's Evenness	<0.0001	0.008	0.43	40.34	0.8098	Improving
LE5.5	Summer2	AP	Shannon Weiner Diversity Index	0.0021	0.028	2.26	27.65	0.4197	Improving
LE5.5	Summer2	AP	Diatom Abundance	0.3706	4.48E+04	3.45E+06	28.58	0.4179	No Trend
LE5.5	Summer2	AP	Dinoflagellate Abundance	0.8835	2.64E+02	8.93E+04	6.51	0.3468	No Trend
LE5.5	Summer2	AP	Chlorophyte Abundance	0.0005	4.62E+03	0.00E+00	N.E.	0.3158	Improving
LE5.5	Summer2	AP	Cryptophyte Abundance	0.6603	-6.12E+03	1.39E+06	-9.73	0.9595	No Trend
LE5.5	Summer2	AP	Number of Genera per replicate	0.3038	-0.125	28.75	-9.57	0.4998	No Trend
LE5.5	Summer2	AP	Picoplankton Abundance	0.1707	-5.80E+06	7.98E+08	-13.09	0.6265	No Trend
SBE5	Summer2	AP	Total Abundance	0.6778	-3.72E+04	4.70E+06	-14.23	0.2194	No Trend
SBE5	Summer2	AP	Total Biomass	0.7762	8.43E+05	1.12E+08	13.52	0.4343	No Trend
SBE5	Summer2	AP	Biomass to Abundance Ratio	0.2839	0.450	21.501	37.66	0.4343	No Trend
SBE5	Summer2	AP	Margalef Diversity Index	0.1313	-0.025	1.65	-27.48	0.2087	No Trend
SBE5	Summer2	AP	Diatom Biomass	0.8440	1.71E+05	6.85E+07	4.50	0.4204	No Trend
SBE5	Summer2	AP	Dinoflagellate Biomass	0.9129	2.62E+04	7.08E+06	6.66	0.8848	No Trend
SBE5	Summer2	AP	Cyanobacteria Biomass	0.0880	8.27E+04	7.98E+05	186.56	0.8750	No Trend
SBE5	Summer2	AP	Chlorophyte Biomass	0.4656	-2.92E+03	1.27E+04	-414.73	0.1742	No Trend
SBE5	Summer2	AP	Picoplankton Biomass	0.0356	-1.01E+07	5.91E+08	-30.74	0.9575	No Trend
SBE5	Summer2	AP	Cryptophyte Biomass	0.7429	-1.42E+05	1.57E+07	-16.30	0.8087	No Trend
SBE5	Summer2	AP	Cyanobacteria Abundance	0.9129	-6.05E+02	6.71E+05	-1.62	0.5188	No Trend
SBE5	Summer2	AP	Number of Species per Replicate	0.0908	-0.40	27.50	-26.18	0.1903	No Trend
SBE5	Summer2	AP	Pielou's Evenness	0.4440	0.002	0.56	5.48	0.5495	No Trend
SBE5	Summer2	AP	Shannon Weiner Diversity Index	0.8440	-0.004	2.68	-2.36	0.8967	No Trend
SBE5	Summer2	AP	Diatom Abundance	0.6461	-2.00E+04	3.20E+06	-11.23	0.2508	No Trend
SBE5	Summer2	AP	Dinoflagellate Abundance	0.7101	1.38E+03	1.30E+05	19.04	0.5129	No Trend
SBE5	Summer2	AP	Chlorophyte Abundance	0.2185	2.40E+03	8.32E+02	5185.91	0.3938	No Trend
SBE5	Summer2	AP	Cryptophyte Abundance	0.5549	1.16E+04	6.54E+05	32.03	0.3247	No Trend
SBE5	Summer2	AP	Number of Genera per replicate	0.1120	-0.333	25.50	-23.53	0.0856	No Trend
SBE5	Summer2	AP	Picoplankton Abundance	0.0356	-6.73E+06	3.94E+08	-30.74	0.9575	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Summer2	AP	Total Abundance	0.0408	2.45E+05	1.09E+07	45.06	0.8046	No Trend
TF4.2	Summer2	AP	Total Biomass	0.0276	1.46E+07	2.31E+08	126.38	0.3195	No Trend
TF4.2	Summer2	AP	Biomass to Abundance Ratio	0.5290	0.402	31.585	25.47	0.3345	No Trend
TF4.2	Summer2	AP	Margalef Diversity Index	0.0336	-0.036	2.24	-32.29	0.2382	No Trend
TF4.2	Summer2	AP	Diatom Biomass	0.1942	4.63E+06	1.75E+08	52.79	0.3063	No Trend
TF4.2	Summer2	AP	Dinoflagellate Biomass	0.7979	1.03E+03	6.39E+05	3.23	0.0453	No Trend
TF4.2	Summer2	AP	Cyanobacteria Biomass	0.2881	-1.11E+05	1.53E+07	-14.53	0.8477	No Trend
TF4.2	Summer2	AP	Chlorophyte Biomass	0.0036	2.30E+06	1.29E+07	358.36	0.9220	Improving
TF4.2	Summer2	AP	Picoplankton Biomass	0.8311	-7.96E+05	1.03E+08	-13.98	0.5475	No Trend
TF4.2	Summer2	AP	Cryptophyte Biomass	0.1810	4.42E+05	8.41E+06	105.17	0.3049	No Trend
TF4.2	Summer2	AP	Cyanobacteria Abundance	0.1567	-3.45E+04	5.64E+06	-12.22	0.9167	No Trend
TF4.2	Summer2	AP	Number of Species per Replicate	0.0463	-0.38	37.00	-20.53	0.3183	No Trend
TF4.2	Summer2	AP	Pielou's Evenness	0.6368	-0.001	0.59	-3.19	0.4931	No Trend
TF4.2	Summer2	AP	Shannon Weiner Diversity Index	0.1349	-0.022	3.13	-13.79	0.4844	No Trend
TF4.2	Summer2	AP	Diatom Abundance	0.9686	1.61E+03	3.21E+06	1.00	0.5474	No Trend
TF4.2	Summer2	AP	Dinoflagellate Abundance	0.4656	2.79E+01	1.54E+03	36.38	0.1443	No Trend
TF4.2	Summer2	AP	Chlorophyte Abundance	0.0003	6.29E+04	3.11E+05	404.62	0.6885	Improving
TF4.2	Summer2	AP	Cryptophyte Abundance	0.0013	4.26E+04	3.50E+05	243.38	0.4075	Increasing
TF4.2	Summer2	AP	Number of Genera per replicate	0.1059	-0.333	30.00	-22.22	0.3801	No Trend
TF4.2	Summer2	AP	Picoplankton Abundance	0.8311	-5.31E+05	6.84E+07	-13.98	0.5475	No Trend
RET4.3	Summer2	AP	Total Abundance	0.6348	7.18E+04	1.38E+07	10.96	0.2028	No Trend
RET4.3	Summer2	AP	Total Biomass	0.5837	4.01E+06	4.19E+08	20.12	0.2733	No Trend
RET4.3	Summer2	AP	Biomass to Abundance Ratio	0.4650	0.129	29.344	9.24	0.4433	No Trend
RET4.3	Summer2	AP	Margalef Diversity Index	0.0258	-0.027	1.72	-33.47	0.3565	No Trend
RET4.3	Summer2	AP	Diatom Biomass	0.6090	2.37E+06	3.10E+08	16.04	0.2284	No Trend
RET4.3	Summer2	AP	Dinoflagellate Biomass	0.7840	-5.58E+04	3.13E+07	-3.74	0.3230	No Trend
RET4.3	Summer2	AP	Cyanobacteria Biomass	0.2731	2.08E+05	7.08E+06	61.57	0.4047	No Trend
RET4.3	Summer2	AP	Chlorophyte Biomass	0.0068	2.52E+05	6.02E+05	879.39	0.2937	Improving
RET4.3	Summer2	AP	Picoplankton Biomass	0.2454	-6.78E+06	3.65E+08	-33.48	0.2031	No Trend
RET4.3	Summer2	AP	Cryptophyte Biomass	0.7148	1.08E+05	2.02E+07	11.19	0.1631	No Trend
RET4.3	Summer2	AP	Cyanobacteria Abundance	0.7561	1.19E+04	7.84E+05	31.98	0.7883	No Trend
RET4.3	Summer2	AP	Number of Species per Replicate	0.0336	-0.40	29.50	-28.47	0.4715	No Trend
RET4.3	Summer2	AP	Pielou's Evenness	0.9709	0.000	0.54	0.38	0.8305	No Trend
RET4.3	Summer2	AP	Shannon Weiner Diversity Index	0.1341	-0.016	2.71	-12.20	0.6294	No Trend
RET4.3	Summer2	AP	Diatom Abundance	0.6878	3.27E+04	8.68E+06	7.91	0.5616	No Trend
RET4.3	Summer2	AP	Dinoflagellate Abundance	0.8407	-3.42E+02	3.60E+05	-1.99	0.9192	No Trend
RET4.3	Summer2	AP	Chlorophyte Abundance	<0.0001	2.80E+04	4.25E+04	1383.71	0.3595	Improving
RET4.3	Summer2	AP	Cryptophyte Abundance	0.0624	3.02E+04	8.43E+05	75.31	0.0930	No Trend
RET4.3	Summer2	AP	Number of Genera per replicate	0.0400	-0.265	26.50	-20.99	0.6789	No Trend
RET4.3	Summer2	AP	Picoplankton Abundance	0.2454	-4.52E+06	2.43E+08	-33.48	0.2031	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Summer2	AP	Total Abundance	0.6840	-1.66E+04	5.39E+06	-6.78	0.9080	No Trend
WE4.2	Summer2	AP	Total Biomass	0.2613	6.44E+06	2.40E+08	59.04	0.7093	No Trend
WE4.2	Summer2	AP	Biomass to Abundance Ratio	0.1385	0.998	47.848	45.88	0.7085	No Trend
WE4.2	Summer2	AP	Margalef Diversity Index	0.2477	-0.024	2.41	-21.78	0.1683	No Trend
WE4.2	Summer2	AP	Diatom Biomass	0.0418	5.72E+06	1.27E+08	99.30	0.8333	No Trend
WE4.2	Summer2	AP	Dinoflagellate Biomass	0.8324	1.96E+05	7.18E+07	6.01	0.9494	No Trend
WE4.2	Summer2	AP	Cyanobacteria Biomass	0.0002	4.10E+04	0.00E+00	N.E.	0.6968	Degrading
WE4.2	Summer2	AP	Chlorophyte Biomass	0.6635	0	4.81E+04	0.00	0.5107	No Trend
WE4.2	Summer2	AP	Picoplankton Biomass	0.1059	-1.70E+07	1.32E+09	-23.20	0.3699	No Trend
WE4.2	Summer2	AP	Cryptophyte Biomass	0.0002	-1.34E+06	3.56E+07	-83.08	0.5122	Decreasing
WE4.2	Summer2	AP	Cyanobacteria Abundance	0.0020	6.46E+03	5.32E+04	266.88	0.3493	Degrading
WE4.2	Summer2	AP	Number of Species per Replicate	0.2675	-0.33	38.00	-19.30	0.1661	No Trend
WE4.2	Summer2	AP	Pielou's Evenness	<0.0001	0.010	0.51	42.97	0.7945	Improving
WE4.2	Summer2	AP	Shannon Weiner Diversity Index	0.0001	0.034	2.84	26.31	0.8880	Improving
WE4.2	Summer2	AP	Diatom Abundance	0.5911	1.71E+04	2.91E+06	12.96	0.5787	No Trend
WE4.2	Summer2	AP	Dinoflagellate Abundance	0.4638	-2.57E+03	2.16E+05	-26.19	0.8722	No Trend
WE4.2	Summer2	AP	Chlorophyte Abundance	0.0008	8.08E+03	2.11E+03	8442.65	0.7873	Improving
WE4.2	Summer2	AP	Cryptophyte Abundance	0.0029	-4.35E+04	1.48E+06	-64.48	0.4706	Decreasing
WE4.2	Summer2	AP	Number of Genera per replicate	0.1918	-0.222	30.75	-15.90	0.1821	No Trend
WE4.2	Summer2	AP	Picoplankton Abundance	0.1059	-1.13E+07	8.80E+08	-23.20	0.3699	No Trend
TF3.3	Summer2	AP	Total Abundance	0.0007	1.87E+06	7.34E+06	534.73	0.8747	Increasing
TF3.3	Summer2	AP	Total Biomass	<0.0001	5.63E+07	1.84E+08	640.99	0.9775	Increasing
TF3.3	Summer2	AP	Biomass to Abundance Ratio	0.1079	0.486	22.514	45.30	0.7874	No Trend
TF3.3	Summer2	AP	Margalef Diversity Index	0.9418	-0.002	1.96	-2.35	0.7291	No Trend
TF3.3	Summer2	AP	Diatom Biomass	<0.0001	3.31E+07	1.27E+08	547.61	0.9637	Improving
TF3.3	Summer2	AP	Dinoflagellate Biomass	0.0009	5.13E+05	1.61E+06	667.80	0.7176	Degrading
TF3.3	Summer2	AP	Cyanobacteria Biomass	0.0004	4.45E+06	9.43E+06	990.89	0.7911	Degrading
TF3.3	Summer2	AP	Chlorophyte Biomass	0.0001	7.62E+06	3.81E+06	4206.50	0.2545	Improving
TF3.3	Summer2	AP	Picoplankton Biomass	0.8833	2.04E+06	3.65E+08	10.10	0.9120	No Trend
TF3.3	Summer2	AP	Cryptophyte Biomass	0.6610	2.27E+05	1.34E+07	35.47	0.2741	No Trend
TF3.3	Summer2	AP	Cyanobacteria Abundance	0.0176	5.33E+05	7.37E+05	1518.36	0.4933	No Trend
TF3.3	Summer2	AP	Number of Species per Replicate	0.7140	0.10	32.50	6.74	0.8412	No Trend
TF3.3	Summer2	AP	Pielou's Evenness	0.0039	0.007	0.53	29.07	0.9643	Improving
TF3.3	Summer2	AP	Shannon Weiner Diversity Index	0.0408	0.033	2.56	26.76	0.8482	No Trend
TF3.3	Summer2	AP	Diatom Abundance	<0.0001	7.33E+05	2.91E+06	529.18	0.9639	Improving
TF3.3	Summer2	AP	Dinoflagellate Abundance	0.0549	2.47E+03	4.19E+04	123.77	0.7558	No Trend
TF3.3	Summer2	AP	Chlorophyte Abundance	<0.0001	1.50E+05	3.31E+05	951.22	0.9738	Improving
TF3.3	Summer2	AP	Cryptophyte Abundance	0.2209	2.96E+04	5.59E+05	111.20	0.3019	No Trend
TF3.3	Summer2	AP	Number of Genera per replicate	0.3789	0.158	27.00	12.31	0.8652	No Trend
TF3.3	Summer2	AP	Picoplankton Abundance	0.8833	1.36E+06	2.43E+08	10.10	0.9120	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Summer2	AP	Total Abundance	0.0003	1.29E+06	7.99E+06	340.15	0.9214	Increasing
RET3.1	Summer2	AP	Total Biomass	0.0010	2.65E+07	2.54E+08	219.25	0.5938	Increasing
RET3.1	Summer2	AP	Biomass to Abundance Ratio	0.4007	-0.327	28.324	-24.24	0.7091	No Trend
RET3.1	Summer2	AP	Margalef Diversity Index	0.3422	-0.011	1.89	-12.53	0.8136	No Trend
RET3.1	Summer2	AP	Diatom Biomass	0.0105	1.48E+07	1.60E+08	194.17	0.9928	No Trend
RET3.1	Summer2	AP	Dinoflagellate Biomass	0.6218	1.06E+05	2.15E+07	10.35	0.6685	No Trend
RET3.1	Summer2	AP	Cyanobacteria Biomass	<0.0001	2.97E+06	5.96E+06	1046.96	0.8222	Degrading
RET3.1	Summer2	AP	Chlorophyte Biomass	0.0295	1.03E+06	1.49E+06	1454.17	0.6221	No Trend
RET3.1	Summer2	AP	Picoplankton Biomass	0.6870	-2.46E+06	5.15E+08	-8.60	0.9280	No Trend
RET3.1	Summer2	AP	Cryptophyte Biomass	0.2424	9.72E+05	2.65E+07	77.06	0.8586	No Trend
RET3.1	Summer2	AP	Cyanobacteria Abundance	0.0003	5.55E+05	1.86E+06	627.55	0.8379	Degrading
RET3.1	Summer2	AP	Number of Species per Replicate	0.7695	-0.07	31.50	-4.74	0.8057	No Trend
RET3.1	Summer2	AP	Pielou's Evenness	0.0095	0.005	0.55	17.29	0.9016	Improving
RET3.1	Summer2	AP	Shannon Weiner Diversity Index	0.1162	0.016	3.12	11.06	0.8777	No Trend
RET3.1	Summer2	AP	Diatom Abundance	0.0130	3.18E+05	2.82E+06	236.39	0.9601	No Trend
RET3.1	Summer2	AP	Dinoflagellate Abundance	0.8982	2.56E+02	5.63E+05	0.96	0.7763	No Trend
RET3.1	Summer2	AP	Chlorophyte Abundance	<0.0001	9.98E+04	1.62E+05	1293.59	0.6874	Improving
RET3.1	Summer2	AP	Cryptophyte Abundance	0.0061	7.42E+04	1.10E+06	141.38	0.9850	Increasing
RET3.1	Summer2	AP	Number of Genera per replicate	0.8979	0.000	28.50	0.00	0.8949	No Trend
RET3.1	Summer2	AP	Picoplankton Abundance	0.6870	-1.64E+06	3.44E+08	-8.60	0.9280	No Trend
LE3.6	Summer2	AP	Total Abundance	0.2182	1.17E+05	5.06E+06	50.75	0.7842	No Trend
LE3.6	Summer2	AP	Total Biomass	0.1524	9.02E+06	2.77E+08	71.75	0.9081	No Trend
LE3.6	Summer2	AP	Biomass to Abundance Ratio	0.7646	0.176	56.718	6.82	0.7726	No Trend
LE3.6	Summer2	AP	Margalef Diversity Index	0.1102	-0.020	2.54	-16.94	0.2445	No Trend
LE3.6	Summer2	AP	Diatom Biomass	0.6177	1.36E+06	1.84E+08	16.24	0.4738	No Trend
LE3.6	Summer2	AP	Dinoflagellate Biomass	0.1102	3.80E+06	7.69E+07	108.64	0.8916	No Trend
LE3.6	Summer2	AP	Cyanobacteria Biomass	0.0111	5.48E+04	1.18E+04	10186.51	0.9679	No Trend
LE3.6	Summer2	AP	Chlorophyte Biomass	0.6308	0	9.34E+04	0.00	0.5725	No Trend
LE3.6	Summer2	AP	Picoplankton Biomass	0.0045	-6.26E+07	2.13E+09	-52.78	0.2061	Improving
LE3.6	Summer2	AP	Cryptophyte Biomass	0.0995	-8.39E+05	3.72E+07	-49.67	0.6769	No Trend
LE3.6	Summer2	AP	Cyanobacteria Abundance	0.0053	1.82E+04	8.33E+03	4805.60	0.8085	Degrading
LE3.6	Summer2	AP	Number of Species per Replicate	0.2176	-0.22	40.00	-12.22	0.4193	No Trend
LE3.6	Summer2	AP	Pielou's Evenness	0.0022	0.005	0.47	23.44	0.3358	Improving
LE3.6	Summer2	AP	Shannon Weiner Diversity Index	0.0181	0.022	2.58	18.60	0.1579	No Trend
LE3.6	Summer2	AP	Diatom Abundance	0.3689	4.03E+04	2.41E+06	36.70	0.9427	No Trend
LE3.6	Summer2	AP	Dinoflagellate Abundance	0.0126	1.32E+04	2.44E+05	119.34	0.8396	No Trend
LE3.6	Summer2	AP	Chlorophyte Abundance	0.0049	2.15E+03	4.16E+03	1136.90	0.3337	Improving
LE3.6	Summer2	AP	Cryptophyte Abundance	0.9469	-1.55E+03	1.55E+06	-2.20	0.4775	No Trend
LE3.6	Summer2	AP	Number of Genera per replicate	0.4911	-0.028	31.00	-2.00	0.4973	No Trend
LE3.6	Summer2	AP	Picoplankton Abundance	0.0045	-4.17E+07	1.42E+09	-52.78	0.2061	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Summer2	AP	Total Abundance	0.2869	6.94E+04	3.89E+06	39.20	0.9498	No Trend
CB6.1	Summer2	AP	Total Biomass	0.4641	3.11E+06	2.78E+08	24.60	0.8085	No Trend
CB6.1	Summer2	AP	Biomass to Abundance Ratio	0.5492	-0.621	81.871	-16.69	0.8430	No Trend
CB6.1	Summer2	AP	Margalef Diversity Index	0.6653	-0.007	2.57	-5.90	0.9784	No Trend
CB6.1	Summer2	AP	Diatom Biomass	0.3689	2.28E+06	7.06E+07	71.21	0.7722	No Trend
CB6.1	Summer2	AP	Dinoflagellate Biomass	0.3514	-1.91E+06	4.45E+07	-94.60	0.7964	No Trend
CB6.1	Summer2	AP	Cyanobacteria Biomass	<0.0001	1.08E+05	1.02E+05	2321.93	0.3291	Degrading
CB6.1	Summer2	AP	Chlorophyte Biomass	0.1136	9.90E+03	2.80E+05	77.79	0.4365	No Trend
CB6.1	Summer2	AP	Picoplankton Biomass	0.0039	-5.62E+07	1.20E+09	-84.14	0.8703	Improving
CB6.1	Summer2	AP	Cryptophyte Biomass	0.0022	-1.35E+06	2.77E+07	-107.47	0.7669	Decreasing
CB6.1	Summer2	AP	Cyanobacteria Abundance	0.0001	1.84E+04	6.57E+04	615.44	0.7688	Degrading
CB6.1	Summer2	AP	Number of Species per Replicate	0.6890	-0.07	40.75	-4.00	0.9555	No Trend
CB6.1	Summer2	AP	Pielou's Evenness	0.0038	0.006	0.50	28.47	0.9526	Improving
CB6.1	Summer2	AP	Shannon Weiner Diversity Index	0.0778	0.030	2.54	25.86	0.9301	No Trend
CB6.1	Summer2	AP	Diatom Abundance	0.6896	1.47E+04	1.76E+06	18.31	0.9617	No Trend
CB6.1	Summer2	AP	Dinoflagellate Abundance	0.7901	7.35E+02	1.30E+05	12.45	0.8939	No Trend
CB6.1	Summer2	AP	Chlorophyte Abundance	0.0005	3.34E+03	1.24E+04	590.72	0.2499	Improving
CB6.1	Summer2	AP	Cryptophyte Abundance	0.3514	-2.08E+04	1.15E+06	-39.64	0.5585	No Trend
CB6.1	Summer2	AP	Number of Genera per replicate	0.8544	0.000	30.25	0.00	0.8750	No Trend
CB6.1	Summer2	AP	Picoplankton Abundance	0.0039	-3.75E+07	8.02E+08	-84.14	0.8703	Improving
CB6.4	Summer2	AP	Total Abundance	0.2754	8.27E+04	3.13E+06	58.07	0.3282	No Trend
CB6.4	Summer2	AP	Total Biomass	0.2477	5.06E+06	1.81E+08	61.33	0.8768	No Trend
CB6.4	Summer2	AP	Biomass to Abundance Ratio	0.3534	0.727	60.786	26.29	0.5482	No Trend
CB6.4	Summer2	AP	Margalef Diversity Index	0.4638	-0.010	2.27	-9.89	0.3951	No Trend
CB6.4	Summer2	AP	Diatom Biomass	0.6138	1.22E+06	7.60E+07	35.31	0.8740	No Trend
CB6.4	Summer2	AP	Dinoflagellate Biomass	0.1664	2.98E+06	5.33E+07	123.11	0.7696	No Trend
CB6.4	Summer2	AP	Cyanobacteria Biomass	<0.0001	5.75E+04	0.00E+00	N.E.	0.8250	Degrading
CB6.4	Summer2	AP	Chlorophyte Biomass	0.3753	0	8.24E+04	0.00	0.8358	No Trend
CB6.4	Summer2	AP	Picoplankton Biomass	0.0388	-2.64E+07	9.05E+08	-52.53	0.5312	No Trend
CB6.4	Summer2	AP	Cryptophyte Biomass	0.1143	-7.67E+05	3.33E+07	-50.61	0.0671	No Trend
CB6.4	Summer2	AP	Cyanobacteria Abundance	0.0001	1.40E+04	1.32E+04	2335.80	0.9340	Degrading
CB6.4	Summer2	AP	Number of Species per Replicate	0.4437	-0.21	34.50	-13.66	0.2461	No Trend
CB6.4	Summer2	AP	Pielou's Evenness	0.0004	0.008	0.51	36.45	0.7996	Improving
CB6.4	Summer2	AP	Shannon Weiner Diversity Index	0.0023	0.038	2.57	32.35	0.4355	Improving
CB6.4	Summer2	AP	Diatom Abundance	0.4250	1.82E+04	1.35E+06	29.58	0.8021	No Trend
CB6.4	Summer2	AP	Dinoflagellate Abundance	0.0167	7.50E+03	1.46E+05	113.07	0.1586	No Trend
CB6.4	Summer2	AP	Chlorophyte Abundance	0.0022	4.45E+03	3.66E+03	2674.73	0.5457	Improving
CB6.4	Summer2	AP	Cryptophyte Abundance	0.5255	-1.45E+04	1.39E+06	-22.97	0.0287	No Trend
CB6.4	Summer2	AP	Number of Genera per replicate	0.8574	0.000	27.25	0.00	0.4400	No Trend
CB6.4	Summer2	AP	Picoplankton Abundance	0.0388	-1.76E+07	6.04E+08	-52.53	0.5312	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Summer2	AP	Total Abundance	0.0658	8.89E+04	2.91E+06	67.23	0.0196	No Trend
CB7.3E	Summer2	AP	Total Biomass	0.0080	1.45E+07	2.32E+08	136.78	0.0704	Increasing
CB7.3E	Summer2	AP	Biomass to Abundance Ratio	0.5688	0.637	76.727	18.27	0.6951	No Trend
CB7.3E	Summer2	AP	Margalef Diversity Index	0.0387	-0.030	2.56	-25.91	0.2284	No Trend
CB7.3E	Summer2	AP	Diatom Biomass	0.1567	3.16E+06	1.16E+08	59.75	0.4920	No Trend
CB7.3E	Summer2	AP	Dinoflagellate Biomass	0.0140	3.35E+06	2.54E+07	290.09	0.0983	No Trend
CB7.3E	Summer2	AP	Cyanobacteria Biomass	0.0017	4.26E+04	5.07E+04	1847.91	0.9181	Degrading
CB7.3E	Summer2	AP	Chlorophyte Biomass	0.7241	0	9.62E+04	0.00	0.7975	No Trend
CB7.3E	Summer2	AP	Picoplankton Biomass	0.6861	-4.44E+06	8.95E+08	-8.92	0.4079	No Trend
CB7.3E	Summer2	AP	Cryptophyte Biomass	0.8579	-5.79E+04	1.30E+07	-9.81	0.0341	No Trend
CB7.3E	Summer2	AP	Cyanobacteria Abundance	0.0043	5.52E+03	2.19E+04	554.68	0.7632	Degrading
CB7.3E	Summer2	AP	Number of Species per Replicate	0.0965	-0.38	39.25	-21.56	0.1063	No Trend
CB7.3E	Summer2	AP	Pielou's Evenness	0.0002	0.008	0.47	40.14	0.2927	Improving
CB7.3E	Summer2	AP	Shannon Weiner Diversity Index	0.0182	0.030	2.45	27.11	0.2660	No Trend
CB7.3E	Summer2	AP	Diatom Abundance	0.5688	2.03E+04	1.71E+06	26.03	0.1149	No Trend
CB7.3E	Summer2	AP	Dinoflagellate Abundance	0.0003	8.10E+03	6.55E+04	272.14	0.0866	Degrading
CB7.3E	Summer2	AP	Chlorophyte Abundance	0.0008	3.85E+03	4.21E+03	2011.08	0.8147	Improving
CB7.3E	Summer2	AP	Cryptophyte Abundance	0.1385	1.71E+04	5.41E+05	69.59	0.1599	No Trend
CB7.3E	Summer2	AP	Number of Genera per replicate	0.1603	-0.250	31.75	-17.32	0.0812	No Trend
CB7.3E	Summer2	AP	Picoplankton Abundance	0.6861	-2.96E+06	5.97E+08	-8.92	0.4079	No Trend
CB7.4	Summer2	AP	Total Abundance	0.0257	1.20E+05	2.27E+06	116.29	0.4884	No Trend
CB7.4	Summer2	AP	Total Biomass	0.0217	1.20E+07	1.53E+08	173.68	0.9718	No Trend
CB7.4	Summer2	AP	Biomass to Abundance Ratio	0.7081	0.306	73.982	9.11	0.8796	No Trend
CB7.4	Summer2	AP	Margalef Diversity Index	0.0002	-0.052	3.33	-34.15	0.8021	Degrading
CB7.4	Summer2	AP	Diatom Biomass	0.0140	7.66E+06	1.12E+08	150.65	0.7338	No Trend
CB7.4	Summer2	AP	Dinoflagellate Biomass	0.0088	2.16E+06	1.60E+07	297.78	0.7153	Degrading
CB7.4	Summer2	AP	Cyanobacteria Biomass	0.0256	2.61E+02	7.91E+03	72.71	0.1144	No Trend
CB7.4	Summer2	AP	Chlorophyte Biomass	0.7598	0	1.18E+05	0.00	0.0308	No Trend
CB7.4	Summer2	AP	Picoplankton Biomass	0.3016	4.67E+06	4.25E+08	19.78	0.5870	No Trend
CB7.4	Summer2	AP	Cryptophyte Biomass	0.1070	-2.73E+05	7.62E+06	-78.73	0.2338	No Trend
CB7.4	Summer2	AP	Cyanobacteria Abundance	0.0358	5.49E+01	4.11E+03	29.38	0.2106	No Trend
CB7.4	Summer2	AP	Number of Species per Replicate	0.0018	-0.67	49.25	-29.78	0.7290	Degrading
CB7.4	Summer2	AP	Pielou's Evenness	0.0013	0.006	0.51	26.69	0.3946	Improving
CB7.4	Summer2	AP	Shannon Weiner Diversity Index	0.0658	0.018	2.89	13.35	0.4023	No Trend
CB7.4	Summer2	AP	Diatom Abundance	0.0387	7.22E+04	1.62E+06	98.24	0.4048	No Trend
CB7.4	Summer2	AP	Dinoflagellate Abundance	0.0054	6.77E+03	3.58E+04	415.34	0.3424	Degrading
CB7.4	Summer2	AP	Chlorophyte Abundance	0.0254	9.97E+02	5.22E+03	420.33	0.2386	No Trend
CB7.4	Summer2	AP	Cryptophyte Abundance	0.4638	7.55E+03	3.18E+05	52.31	0.1586	No Trend
CB7.4	Summer2	AP	Number of Genera per replicate	0.0028	-0.429	36.75	-25.66	0.9127	Degrading
CB7.4	Summer2	AP	Picoplankton Abundance	0.3016	3.11E+06	2.83E+08	19.78	0.5870	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Fall	AP	Total Abundance	0.3575	6.97E+05	1.44E+07	101.80	0.0796	No Trend
TF5.5	Fall	AP	Total Biomass	0.0254	7.10E+07	6.86E+08	217.47	0.1836	No Trend
TF5.5	Fall	AP	Biomass to Abundance Ratio	0.0009	2.262	34.301	138.47	0.4248	Improving
TF5.5	Fall	AP	Margalef Diversity Index	0.4833	0.013	2.13	12.53	0.5469	No Trend
TF5.5	Fall	AP	Diatom Biomass	0.1609	2.34E+07	4.76E+08	103.18	0.1543	No Trend
TF5.5	Fall	AP	Dinoflagellate Biomass	0.6792	0	1.19E+05	0.00	0.2297	No Trend
TF5.5	Fall	AP	Cyanobacteria Biomass	0.0486	1.54E+06	1.18E+07	272.84	0.3274	No Trend
TF5.5	Fall	AP	Chlorophyte Biomass	<0.0001	2.61E+07	8.58E+06	6391.02	0.5581	Improving
TF5.5	Fall	AP	Picoplankton Biomass	0.8421	-1.01E+05	3.17E+07	-5.74	0.7698	No Trend
TF5.5	Fall	AP	Cryptophyte Biomass	0.1480	7.35E+05	4.25E+06	363.66	0.6288	No Trend
TF5.5	Fall	AP	Cyanobacteria Abundance	0.1363	5.82E+05	5.07E+06	240.87	0.1286	No Trend
TF5.5	Fall	AP	Number of Species per Replicate	0.3795	0.50	37.50	28.00	0.3302	No Trend
TF5.5	Fall	AP	Pielou's Evenness	0.0025	0.009	0.50	37.71	0.3056	Improving
TF5.5	Fall	AP	Shannon Weiner Diversity Index	0.0033	0.045	2.51	37.63	0.4841	Improving
TF5.5	Fall	AP	Diatom Abundance	0.2546	-2.06E+05	1.03E+07	-41.88	0.1325	No Trend
TF5.5	Fall	AP	Dinoflagellate Abundance	0.7651	0	1.92E+02	0.00	0.4125	No Trend
TF5.5	Fall	AP	Chlorophyte Abundance	0.0016	1.68E+05	5.40E+05	652.36	0.4090	Improving
TF5.5	Fall	AP	Cryptophyte Abundance	0.0169	4.31E+04	1.77E+05	511.61	0.9864	No Trend
TF5.5	Fall	AP	Number of Genera per replicate	0.1799	0.441	30.50	30.36	0.1503	No Trend
TF5.5	Fall	AP	Picoplankton Abundance	0.8421	-6.75E+04	2.12E+07	-5.74	0.7698	No Trend
RET5.2	Fall	AP	Total Abundance	0.0180	-6.55E+05	1.59E+07	-86.64	0.6074	No Trend
RET5.2	Fall	AP	Total Biomass	0.3575	-5.97E+06	1.95E+08	-64.28	0.8124	No Trend
RET5.2	Fall	AP	Biomass to Abundance Ratio	0.0959	0.614	18.866	68.32	0.9958	No Trend
RET5.2	Fall	AP	Margalef Diversity Index	0.0110	-0.034	1.93	-36.95	0.5759	No Trend
RET5.2	Fall	AP	Diatom Biomass	0.4563	-2.95E+06	1.43E+08	-43.44	0.7820	No Trend
RET5.2	Fall	AP	Dinoflagellate Biomass	0.3807	0	1.08E+05	0.00	0.0667	No Trend
RET5.2	Fall	AP	Cyanobacteria Biomass	0.2038	-3.98E+05	9.53E+06	-87.61	0.7354	No Trend
RET5.2	Fall	AP	Chlorophyte Biomass	0.2733	2.68E+05	5.59E+06	100.68	0.7045	No Trend
RET5.2	Fall	AP	Picoplankton Biomass	<0.0001	-8.49E+06	8.27E+07	-184.78	0.5471	Improving
RET5.2	Fall	AP	Cryptophyte Biomass	0.9127	5.21E+04	1.30E+07	8.42	0.8103	No Trend
RET5.2	Fall	AP	Cyanobacteria Abundance	0.0797	-2.89E+05	3.98E+06	-152.73	0.2470	No Trend
RET5.2	Fall	AP	Number of Species per Replicate	0.0042	-0.76	33.00	-48.08	0.4709	Degrading
RET5.2	Fall	AP	Pielou's Evenness	0.0254	0.006	0.55	24.90	0.5832	No Trend
RET5.2	Fall	AP	Shannon Weiner Diversity Index	0.3575	0.017	2.65	13.43	0.8655	No Trend
RET5.2	Fall	AP	Diatom Abundance	0.0438	-2.10E+05	7.45E+06	-59.28	0.8168	No Trend
RET5.2	Fall	AP	Dinoflagellate Abundance	0.6693	0	3.52E+02	0.00	0.0726	No Trend
RET5.2	Fall	AP	Chlorophyte Abundance	0.9302	6.48E+02	4.80E+05	2.84	0.4242	No Trend
RET5.2	Fall	AP	Cryptophyte Abundance	0.2038	2.94E+04	5.41E+05	114.05	0.2937	No Trend
RET5.2	Fall	AP	Number of Genera per replicate	0.0375	-0.429	26.00	-34.62	0.5938	No Trend
RET5.2	Fall	AP	Picoplankton Abundance	<0.0001	-5.66E+06	5.52E+07	-184.78	0.5471	Improving

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Fall	AP	Total Abundance	0.0002	1.39E+05	1.60E+06	191.17	0.9693	Increasing
LE5.5	Fall	AP	Total Biomass	0.0856	6.69E+06	6.25E+07	235.23	0.0419	No Trend
LE5.5	Fall	AP	Biomass to Abundance Ratio	0.7723	0.251	33.972	16.27	0.0112	No Trend
LE5.5	Fall	AP	Margalef Diversity Index	0.5068	-0.011	2.65	-9.01	0.0159	No Trend
LE5.5	Fall	AP	Diatom Biomass	0.0029	7.62E+06	2.14E+07	784.89	0.2193	Improving
LE5.5	Fall	AP	Dinoflagellate Biomass	0.4437	3.36E+05	1.01E+07	72.95	0.4975	No Trend
LE5.5	Fall	AP	Cyanobacteria Biomass	0.0124	9.37E+03	0.00E+00	N.E.	0.7736	No Trend
LE5.5	Fall	AP	Chlorophyte Biomass	0.7062	0	2.07E+02	0.00	0.9458	No Trend
LE5.5	Fall	AP	Picoplankton Biomass	0.7995	-1.61E+05	2.85E+07	-10.16	0.7151	No Trend
LE5.5	Fall	AP	Cryptophyte Biomass	0.7982	-5.14E+04	1.93E+07	-5.87	0.7195	No Trend
LE5.5	Fall	AP	Cyanobacteria Abundance	0.0224	8.88E+02	0.00E+00	N.E.	0.9018	No Trend
LE5.5	Fall	AP	Number of Species per Replicate	0.7848	0.00	39.50	0.00	0.0231	No Trend
LE5.5	Fall	AP	Pielou's Evenness	0.0002	0.008	0.43	38.78	0.4712	Improving
LE5.5	Fall	AP	Shannon Weiner Diversity Index	0.0006	0.033	2.25	32.01	0.2813	Improving
LE5.5	Fall	AP	Diatom Abundance	0.0004	1.04E+05	4.83E+05	474.18	0.7200	Improving
LE5.5	Fall	AP	Dinoflagellate Abundance	0.0795	2.91E+03	4.36E+04	146.65	0.5062	No Trend
LE5.5	Fall	AP	Chlorophyte Abundance	0.0008	1.89E+03	3.20E+01	129800.00	0.4807	Improving
LE5.5	Fall	AP	Cryptophyte Abundance	0.1020	1.93E+04	8.02E+05	53.03	0.8293	No Trend
LE5.5	Fall	AP	Number of Genera per replicate	0.6572	-0.083	33.75	-5.43	0.0629	No Trend
LE5.5	Fall	AP	Picoplankton Abundance	0.7995	-1.07E+05	1.90E+07	-10.16	0.7151	No Trend
SBE5	Fall	AP	Total Abundance	0.0243	7.37E+04	1.84E+06	71.94	0.3784	No Trend
SBE5	Fall	AP	Total Biomass	0.0630	2.98E+06	4.14E+07	129.78	0.0445	No Trend
SBE5	Fall	AP	Biomass to Abundance Ratio	0.4184	0.380	23.415	29.23	0.0712	No Trend
SBE5	Fall	AP	Margalef Diversity Index	0.3470	-0.012	2.01	-10.65	0.2666	No Trend
SBE5	Fall	AP	Diatom Biomass	0.0243	2.60E+06	1.96E+07	239.52	0.0466	No Trend
SBE5	Fall	AP	Dinoflagellate Biomass	0.2839	8.90E+04	2.80E+06	57.24	0.1826	No Trend
SBE5	Fall	AP	Cyanobacteria Biomass	0.0029	6.16E+04	1.20E+04	9236.93	0.2679	Degrading
SBE5	Fall	AP	Chlorophyte Biomass	0.1938	1.75E+04	1.01E+05	312.22	0.7964	No Trend
SBE5	Fall	AP	Picoplankton Biomass	0.2046	1.48E+05	2.15E+07	12.33	0.4510	No Trend
SBE5	Fall	AP	Cryptophyte Biomass	0.4440	1.92E+05	9.54E+06	36.16	0.5129	No Trend
SBE5	Fall	AP	Cyanobacteria Abundance	0.0547	3.97E+03	3.52E+03	2030.56	0.2776	No Trend
SBE5	Fall	AP	Number of Species per Replicate	0.4817	-0.15	29.50	-9.39	0.4548	No Trend
SBE5	Fall	AP	Pielou's Evenness	0.0243	0.005	0.56	17.36	0.2219	No Trend
SBE5	Fall	AP	Shannon Weiner Diversity Index	0.1104	0.027	2.72	17.61	0.9105	No Trend
SBE5	Fall	AP	Diatom Abundance	0.4705	1.61E+04	8.46E+05	34.24	0.2087	No Trend
SBE5	Fall	AP	Dinoflagellate Abundance	0.0516	3.18E+03	6.25E+04	91.64	0.4172	No Trend
SBE5	Fall	AP	Chlorophyte Abundance	0.0055	4.27E+03	4.66E+03	1648.11	0.7474	Improving
SBE5	Fall	AP	Cryptophyte Abundance	0.0020	4.01E+04	3.97E+05	181.68	0.4661	Increasing
SBE5	Fall	AP	Number of Genera per replicate	0.5237	-0.091	28.00	-5.84	0.4616	No Trend
SBE5	Fall	AP	Picoplankton Abundance	0.2046	9.83E+04	1.44E+07	12.33	0.4510	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Fall	AP	Total Abundance	0.2160	6.84E+04	3.08E+06	44.37	0.7779	No Trend
TF4.2	Fall	AP	Total Biomass	0.2160	3.10E+06	7.44E+07	83.30	0.6082	No Trend
TF4.2	Fall	AP	Biomass to Abundance Ratio	0.6342	-0.190	24.586	-15.44	0.7708	No Trend
TF4.2	Fall	AP	Margalef Diversity Index	0.1828	0.015	1.79	16.54	0.8042	No Trend
TF4.2	Fall	AP	Diatom Biomass	0.7391	6.92E+05	6.37E+07	21.73	0.7983	No Trend
TF4.2	Fall	AP	Dinoflagellate Biomass	0.7810	0	9.16E+03	0.00	0.6167	No Trend
TF4.2	Fall	AP	Cyanobacteria Biomass	0.0182	8.25E+04	4.37E+05	377.55	0.3814	No Trend
TF4.2	Fall	AP	Chlorophyte Biomass	0.0152	1.44E+05	1.03E+06	278.92	0.5270	No Trend
TF4.2	Fall	AP	Picoplankton Biomass	0.3111	-2.99E+05	2.44E+07	-22.08	0.7713	No Trend
TF4.2	Fall	AP	Cryptophyte Biomass	0.0363	6.97E+05	9.59E+06	145.42	0.7342	No Trend
TF4.2	Fall	AP	Cyanobacteria Abundance	0.0567	1.45E+04	1.30E+05	222.67	0.3238	No Trend
TF4.2	Fall	AP	Number of Species per Replicate	0.1142	0.30	28.50	20.82	0.8368	No Trend
TF4.2	Fall	AP	Pielou's Evenness	0.4465	0.003	0.52	10.60	0.2830	No Trend
TF4.2	Fall	AP	Shannon Weiner Diversity Index	0.2738	0.017	2.35	14.36	0.3770	No Trend
TF4.2	Fall	AP	Diatom Abundance	0.8119	5.86E+03	1.25E+06	9.40	0.5686	No Trend
TF4.2	Fall	AP	Dinoflagellate Abundance	0.8593	0	3.20E+02	0.00	0.5663	No Trend
TF4.2	Fall	AP	Chlorophyte Abundance	0.0032	7.16E+03	3.82E+04	374.57	0.5830	Improving
TF4.2	Fall	AP	Cryptophyte Abundance	0.0037	4.44E+04	3.99E+05	222.39	0.7476	Increasing
TF4.2	Fall	AP	Number of Genera per replicate	0.0807	0.250	25.00	20.00	0.7908	No Trend
TF4.2	Fall	AP	Picoplankton Abundance	0.3111	-1.99E+05	1.63E+07	-22.08	0.7713	No Trend
RET4.3	Fall	AP	Total Abundance	0.0022	4.51E+05	4.18E+06	226.99	0.5681	Increasing
RET4.3	Fall	AP	Total Biomass	0.0066	1.62E+07	9.35E+07	363.21	0.5221	Increasing
RET4.3	Fall	AP	Biomass to Abundance Ratio	0.2733	0.577	22.932	52.80	0.4493	No Trend
RET4.3	Fall	AP	Margalef Diversity Index	0.6613	0.005	1.35	7.46	0.2880	No Trend
RET4.3	Fall	AP	Diatom Biomass	0.0022	1.32E+07	4.05E+07	685.13	0.2034	Improving
RET4.3	Fall	AP	Dinoflagellate Biomass	0.6769	6.69E+04	3.00E+06	46.76	0.3428	No Trend
RET4.3	Fall	AP	Cyanobacteria Biomass	0.0202	4.64E+05	9.17E+06	106.33	0.6503	No Trend
RET4.3	Fall	AP	Chlorophyte Biomass	0.0001	4.97E+05	1.40E+03	742966.70	0.3912	Improving
RET4.3	Fall	AP	Picoplankton Biomass	0.1810	-1.04E+06	3.82E+07	-48.80	0.6023	No Trend
RET4.3	Fall	AP	Cryptophyte Biomass	0.3575	8.75E+05	2.59E+07	70.85	0.0376	No Trend
RET4.3	Fall	AP	Cyanobacteria Abundance	0.0097	1.08E+05	6.25E+05	362.53	0.7917	Degrading
RET4.3	Fall	AP	Number of Species per Replicate	0.2906	0.18	22.00	17.36	0.2997	No Trend
RET4.3	Fall	AP	Pielou's Evenness	1.0000	0.000	0.56	-0.51	0.5777	No Trend
RET4.3	Fall	AP	Shannon Weiner Diversity Index	0.5990	0.007	2.40	6.43	0.1899	No Trend
RET4.3	Fall	AP	Diatom Abundance	0.0029	2.46E+05	2.21E+06	234.07	0.5517	Improving
RET4.3	Fall	AP	Dinoflagellate Abundance	0.9301	-4.92E+00	4.77E+04	-0.22	0.4953	No Trend
RET4.3	Fall	AP	Chlorophyte Abundance	<0.0001	2.52E+04	1.28E+02	413565.53	0.9064	Improving
RET4.3	Fall	AP	Cryptophyte Abundance	0.1744	5.15E+04	1.08E+06	100.23	0.1047	No Trend
RET4.3	Fall	AP	Number of Genera per replicate	0.3758	0.077	20.50	7.93	0.1897	No Trend
RET4.3	Fall	AP	Picoplankton Abundance	0.1810	-6.90E+05	2.55E+07	-48.80	0.6023	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Fall	AP	Total Abundance	0.1899	6.15E+04	4.01E+06	33.80	0.8744	No Trend
WE4.2	Fall	AP	Total Biomass	0.7985	7.40E+05	1.47E+08	11.09	0.1687	No Trend
WE4.2	Fall	AP	Biomass to Abundance Ratio	0.3152	-0.899	38.950	-50.80	0.5732	No Trend
WE4.2	Fall	AP	Margalef Diversity Index	0.0021	-0.042	2.38	-38.60	0.5652	Degrading
WE4.2	Fall	AP	Diatom Biomass	0.0363	6.25E+06	2.30E+07	597.39	0.9479	No Trend
WE4.2	Fall	AP	Dinoflagellate Biomass	0.3670	7.11E+05	2.90E+07	54.00	0.0901	No Trend
WE4.2	Fall	AP	Cyanobacteria Biomass	0.0009	6.03E+03	9.80E+02	13535.16	0.1987	Degrading
WE4.2	Fall	AP	Chlorophyte Biomass	0.0425	0	2.33E+04	0.00	0.3755	No Trend
WE4.2	Fall	AP	Picoplankton Biomass	0.2880	6.82E+05	5.69E+07	21.60	0.6953	No Trend
WE4.2	Fall	AP	Cryptophyte Biomass	0.1787	-5.51E+05	4.10E+07	-29.52	0.8817	No Trend
WE4.2	Fall	AP	Cyanobacteria Abundance	0.0021	9.23E+02	2.11E+03	964.08	0.7808	Degrading
WE4.2	Fall	AP	Number of Species per Replicate	0.0128	-0.55	36.00	-33.33	0.5651	No Trend
WE4.2	Fall	AP	Pielou's Evenness	<0.0001	0.009	0.39	50.44	0.2637	Improving
WE4.2	Fall	AP	Shannon Weiner Diversity Index	0.0004	0.036	2.03	38.60	0.4547	Improving
WE4.2	Fall	AP	Diatom Abundance	0.0045	8.95E+04	4.40E+05	448.09	0.6248	Improving
WE4.2	Fall	AP	Dinoflagellate Abundance	0.3319	3.57E+03	1.84E+05	42.61	0.3768	No Trend
WE4.2	Fall	AP	Chlorophyte Abundance	0.0004	9.96E+02	1.04E+03	2112.58	0.3916	Improving
WE4.2	Fall	AP	Cryptophyte Abundance	0.5068	-1.43E+04	1.71E+06	-18.35	0.8552	No Trend
WE4.2	Fall	AP	Number of Genera per replicate	0.0059	-0.467	29.00	-35.40	0.8282	Degrading
WE4.2	Fall	AP	Picoplankton Abundance	0.2880	4.55E+05	3.79E+07	21.60	0.6953	No Trend
TF3.3	Fall	AP	Total Abundance	<0.0001	1.29E+06	4.15E+06	655.13	0.9420	Increasing
TF3.3	Fall	AP	Total Biomass	<0.0001	2.49E+07	7.69E+07	680.84	0.5753	Increasing
TF3.3	Fall	AP	Biomass to Abundance Ratio	0.4303	0.259	20.202	26.96	0.6321	No Trend
TF3.3	Fall	AP	Margalef Diversity Index	0.9302	-0.001	1.46	-1.32	0.7564	No Trend
TF3.3	Fall	AP	Diatom Biomass	0.0002	1.86E+07	2.88E+07	1359.93	0.3727	Improving
TF3.3	Fall	AP	Dinoflagellate Biomass	0.9122	0	2.38E+06	0.00	0.7860	No Trend
TF3.3	Fall	AP	Cyanobacteria Biomass	0.0005	1.24E+06	9.35E+05	2792.49	0.2353	Degrading
TF3.3	Fall	AP	Chlorophyte Biomass	0.0003	2.75E+06	8.12E+05	7106.19	0.5587	Improving
TF3.3	Fall	AP	Picoplankton Biomass	0.2210	3.90E+06	2.79E+07	251.35	0.1280	No Trend
TF3.3	Fall	AP	Cryptophyte Biomass	0.0875	7.00E+05	2.22E+07	66.34	0.6653	No Trend
TF3.3	Fall	AP	Cyanobacteria Abundance	0.0002	3.22E+05	2.44E+05	2767.25	0.5801	Degrading
TF3.3	Fall	AP	Number of Species per Replicate	0.5092	0.17	23.00	15.22	0.6443	No Trend
TF3.3	Fall	AP	Pielou's Evenness	0.7591	-0.001	0.59	-2.24	0.4644	No Trend
TF3.3	Fall	AP	Shannon Weiner Diversity Index	0.8609	0.002	2.69	1.88	0.4410	No Trend
TF3.3	Fall	AP	Diatom Abundance	0.0005	3.04E+05	1.64E+06	388.68	0.7088	Improving
TF3.3	Fall	AP	Dinoflagellate Abundance	0.1123	-1.09E+03	8.06E+04	-28.51	0.9459	No Trend
TF3.3	Fall	AP	Chlorophyte Abundance	0.0001	8.83E+04	1.05E+05	1766.93	0.2833	Improving
TF3.3	Fall	AP	Cryptophyte Abundance	0.0016	5.81E+04	9.23E+05	132.27	0.2233	Increasing
TF3.3	Fall	AP	Number of Genera per replicate	0.3111	0.200	21.00	20.00	0.7345	No Trend
TF3.3	Fall	AP	Picoplankton Abundance	0.2210	2.60E+06	1.86E+07	251.35	0.1280	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Fall	AP	Total Abundance	0.0068	6.09E+05	5.60E+06	228.57	0.3006	Increasing
RET3.1	Fall	AP	Total Biomass	0.0239	1.68E+07	1.42E+08	247.94	0.2296	No Trend
RET3.1	Fall	AP	Biomass to Abundance Ratio	0.6069	0.072	22.340	6.80	0.4870	No Trend
RET3.1	Fall	AP	Margalef Diversity Index	0.7712	-0.006	1.77	-6.82	0.7593	No Trend
RET3.1	Fall	AP	Diatom Biomass	0.0148	9.14E+06	6.03E+07	318.51	0.2083	No Trend
RET3.1	Fall	AP	Dinoflagellate Biomass	0.1225	-3.11E+05	1.89E+07	-34.66	0.6768	No Trend
RET3.1	Fall	AP	Cyanobacteria Biomass	0.0005	9.22E+05	8.98E+05	2156.09	0.4370	Degrading
RET3.1	Fall	AP	Chlorophyte Biomass	0.0094	3.42E+05	1.49E+06	480.50	0.5804	Improving
RET3.1	Fall	AP	Picoplankton Biomass	0.4664	1.73E+06	6.67E+07	46.65	0.7608	No Trend
RET3.1	Fall	AP	Cryptophyte Biomass	0.6069	4.13E+05	2.39E+07	36.34	0.3409	No Trend
RET3.1	Fall	AP	Cyanobacteria Abundance	0.0001	1.73E+05	1.21E+05	3002.60	0.9706	Degrading
RET3.1	Fall	AP	Number of Species per Replicate	0.6862	0.08	28.50	6.14	0.9436	No Trend
RET3.1	Fall	AP	Pielou's Evenness	0.1459	0.006	0.54	22.50	0.2473	No Trend
RET3.1	Fall	AP	Shannon Weiner Diversity Index	0.2023	0.018	2.79	13.58	0.1648	No Trend
RET3.1	Fall	AP	Diatom Abundance	0.0572	2.83E+05	3.11E+06	191.24	0.2676	No Trend
RET3.1	Fall	AP	Dinoflagellate Abundance	0.0045	-5.12E+03	4.12E+05	-26.09	0.5544	Improving
RET3.1	Fall	AP	Chlorophyte Abundance	0.0001	3.66E+04	6.69E+04	1147.82	0.3053	Improving
RET3.1	Fall	AP	Cryptophyte Abundance	0.0934	4.29E+04	9.95E+05	90.59	0.0245	No Trend
RET3.1	Fall	AP	Number of Genera per replicate	0.6530	0.091	26.50	7.20	0.8001	No Trend
RET3.1	Fall	AP	Picoplankton Abundance	0.4664	1.15E+06	4.45E+07	46.65	0.7608	No Trend
LE3.6	Fall	AP	Total Abundance	0.1804	1.08E+05	2.29E+06	104.00	0.8332	No Trend
LE3.6	Fall	AP	Total Biomass	0.9861	1.25E+04	1.15E+08	0.24	0.2490	No Trend
LE3.6	Fall	AP	Biomass to Abundance Ratio	0.6891	-0.198	36.239	-12.04	0.2262	No Trend
LE3.6	Fall	AP	Margalef Diversity Index	0.5198	-0.006	2.09	-5.82	0.0953	No Trend
LE3.6	Fall	AP	Diatom Biomass	0.1216	4.46E+06	3.52E+07	279.13	0.5041	No Trend
LE3.6	Fall	AP	Dinoflagellate Biomass	0.9307	-5.52E+04	1.49E+07	-8.12	0.5483	No Trend
LE3.6	Fall	AP	Cyanobacteria Biomass	<0.0001	4.36E+04	0.00E+00	N.E.	0.9706	Degrading
LE3.6	Fall	AP	Chlorophyte Biomass	0.1083	0	0.00E+00	N.E.	0.3130	No Trend
LE3.6	Fall	AP	Picoplankton Biomass	0.0215	-3.44E+06	1.07E+08	-58.11	0.2303	No Trend
LE3.6	Fall	AP	Cryptophyte Biomass	0.1174	-3.60E+05	2.78E+07	-28.54	0.8878	No Trend
LE3.6	Fall	AP	Cyanobacteria Abundance	<0.0001	4.34E+03	0.00E+00	N.E.	0.7729	Degrading
LE3.6	Fall	AP	Number of Species per Replicate	0.9444	0.00	32.25	0.00	0.1259	No Trend
LE3.6	Fall	AP	Pielou's Evenness	0.0005	0.007	0.47	35.02	0.4415	Improving
LE3.6	Fall	AP	Shannon Weiner Diversity Index	0.0063	0.038	2.32	35.91	0.5535	Improving
LE3.6	Fall	AP	Diatom Abundance	0.1302	7.72E+04	7.45E+05	227.85	0.6221	No Trend
LE3.6	Fall	AP	Dinoflagellate Abundance	0.9307	-1.62E+02	8.91E+04	-4.00	0.6751	No Trend
LE3.6	Fall	AP	Chlorophyte Abundance	0.0001	1.32E+03	0.00E+00	N.E.	0.3812	Improving
LE3.6	Fall	AP	Cryptophyte Abundance	0.8076	-3.19E+03	1.16E+06	-6.07	0.9996	No Trend
LE3.6	Fall	AP	Number of Genera per replicate	0.8477	0.000	26.25	0.00	0.1984	No Trend
LE3.6	Fall	AP	Picoplankton Abundance	0.0215	-2.29E+06	7.10E+07	-58.11	0.2303	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Fall	AP	Total Abundance	0.0429	9.79E+04	3.31E+06	65.08	0.5771	No Trend
CB6.1	Fall	AP	Total Biomass	0.5226	2.85E+06	1.46E+08	42.98	0.0003	No Trend
CB6.1	Fall	AP	Biomass to Abundance Ratio	1.0000	0.019	31.927	1.28	0.0613	No Trend
CB6.1	Fall	AP	Margalef Diversity Index	0.0303	-0.027	2.33	-25.41	0.4600	No Trend
CB6.1	Fall	AP	Diatom Biomass	0.1100	4.22E+06	9.23E+07	100.62	0.0105	No Trend
CB6.1	Fall	AP	Dinoflagellate Biomass	0.5460	-8.02E+05	4.04E+07	-43.67	0.0502	No Trend
CB6.1	Fall	AP	Cyanobacteria Biomass	0.0001	1.13E+04	0.00E+00	N.E.	0.4494	Degrading
CB6.1	Fall	AP	Chlorophyte Biomass	0.3987	0	0.00E+00	N.E.	0.5980	No Trend
CB6.1	Fall	AP	Picoplankton Biomass	0.0803	-1.83E+06	7.24E+07	-45.47	0.1376	No Trend
CB6.1	Fall	AP	Cryptophyte Biomass	0.1311	-4.89E+05	2.88E+07	-37.34	0.4550	No Trend
CB6.1	Fall	AP	Cyanobacteria Abundance	0.0018	2.64E+02	6.77E+03	85.78	0.7897	Degrading
CB6.1	Fall	AP	Number of Species per Replicate	0.1756	-0.33	35.50	-20.66	0.2580	No Trend
CB6.1	Fall	AP	Pielou's Evenness	0.0045	0.005	0.50	22.40	0.6585	Improving
CB6.1	Fall	AP	Shannon Weiner Diversity Index	0.1181	0.014	2.39	12.93	0.7498	No Trend
CB6.1	Fall	AP	Diatom Abundance	0.1660	4.73E+04	1.67E+06	62.23	0.1609	No Trend
CB6.1	Fall	AP	Dinoflagellate Abundance	0.9152	1.64E+02	1.77E+05	2.04	0.4042	No Trend
CB6.1	Fall	AP	Chlorophyte Abundance	0.0001	1.27E+03	0.00E+00	N.E.	0.9310	Improving
CB6.1	Fall	AP	Cryptophyte Abundance	0.4775	1.32E+04	1.20E+06	24.25	0.6371	No Trend
CB6.1	Fall	AP	Number of Genera per replicate	0.1337	-0.218	29.00	-16.56	0.3902	No Trend
CB6.1	Fall	AP	Picoplankton Abundance	0.0803	-1.22E+06	4.83E+07	-45.47	0.1376	No Trend
CB6.4	Fall	AP	Total Abundance	0.0313	1.28E+05	2.53E+06	110.80	0.2078	No Trend
CB6.4	Fall	AP	Total Biomass	0.3456	3.46E+06	1.37E+08	55.76	0.1537	No Trend
CB6.4	Fall	AP	Biomass to Abundance Ratio	0.4029	-0.632	35.451	-39.25	0.9079	No Trend
CB6.4	Fall	AP	Margalef Diversity Index	0.0033	-0.038	2.23	-37.37	0.5174	Degrading
CB6.4	Fall	AP	Diatom Biomass	0.1132	3.15E+06	4.94E+07	140.36	0.3386	No Trend
CB6.4	Fall	AP	Dinoflagellate Biomass	0.1598	1.36E+06	3.19E+07	93.79	0.2555	No Trend
CB6.4	Fall	AP	Cyanobacteria Biomass	0.0005	1.96E+03	0.00E+00	N.E.	0.9026	Degrading
CB6.4	Fall	AP	Chlorophyte Biomass	0.8310	0	5.08E+04	0.00	0.3475	No Trend
CB6.4	Fall	AP	Picoplankton Biomass	0.0121	-1.50E+06	6.41E+07	-42.06	0.1221	No Trend
CB6.4	Fall	AP	Cryptophyte Biomass	0.2622	-3.62E+05	3.02E+07	-26.36	0.6011	No Trend
CB6.4	Fall	AP	Cyanobacteria Abundance	0.0002	1.07E+03	0.00E+00	N.E.	0.9987	Degrading
CB6.4	Fall	AP	Number of Species per Replicate	0.0137	-0.50	33.00	-33.33	0.6633	No Trend
CB6.4	Fall	AP	Pielou's Evenness	<0.0001	0.011	0.44	54.08	0.7727	Improving
CB6.4	Fall	AP	Shannon Weiner Diversity Index	0.0002	0.045	2.17	45.75	0.5308	Improving
CB6.4	Fall	AP	Diatom Abundance	0.0065	1.00E+05	6.78E+05	325.90	0.6574	Improving
CB6.4	Fall	AP	Dinoflagellate Abundance	0.1397	4.10E+03	9.69E+04	93.04	0.7298	No Trend
CB6.4	Fall	AP	Chlorophyte Abundance	0.0151	4.92E+00	2.33E+03	4.65	0.0201	No Trend
CB6.4	Fall	AP	Cryptophyte Abundance	0.6309	8.46E+03	1.26E+06	14.78	0.8345	No Trend
CB6.4	Fall	AP	Number of Genera per replicate	0.0307	-0.333	28.75	-25.51	0.9388	No Trend
CB6.4	Fall	AP	Picoplankton Abundance	0.0121	-9.98E+05	4.27E+07	-42.06	0.1221	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Fall	AP	Total Abundance	0.0189	1.48E+05	2.18E+06	149.46	0.6798	No Trend
CB7.3E	Fall	AP	Total Biomass	0.5139	2.30E+06	1.56E+08	32.48	0.0766	No Trend
CB7.3E	Fall	AP	Biomass to Abundance Ratio	0.2234	-1.581	89.162	-39.00	0.1758	No Trend
CB7.3E	Fall	AP	Margalef Diversity Index	0.3497	-0.014	2.35	-12.63	0.5003	No Trend
CB7.3E	Fall	AP	Diatom Biomass	0.0328	7.13E+06	7.56E+07	207.65	0.8743	No Trend
CB7.3E	Fall	AP	Dinoflagellate Biomass	0.5604	-5.03E+05	2.35E+07	-47.01	0.2329	No Trend
CB7.3E	Fall	AP	Cyanobacteria Biomass	0.0001	8.24E+03	0.00E+00	N.E.	0.8022	Degrading
CB7.3E	Fall	AP	Chlorophyte Biomass	0.2999	0	0.00E+00	N.E.	0.5909	No Trend
CB7.3E	Fall	AP	Picoplankton Biomass	0.9808	-3.68E+04	3.38E+07	-1.96	0.8999	No Trend
CB7.3E	Fall	AP	Cryptophyte Biomass	0.8738	4.09E+04	1.64E+07	5.50	0.1345	No Trend
CB7.3E	Fall	AP	Cyanobacteria Abundance	0.0008	5.02E+02	6.28E+03	175.91	0.6304	Degrading
CB7.3E	Fall	AP	Number of Species per Replicate	0.5017	-0.13	35.00	-7.86	0.3734	No Trend
CB7.3E	Fall	AP	Pielou's Evenness	0.0010	0.006	0.50	26.25	0.5830	Improving
CB7.3E	Fall	AP	Shannon Weiner Diversity Index	0.0129	0.032	2.63	26.37	0.9508	No Trend
CB7.3E	Fall	AP	Diatom Abundance	0.0156	9.30E+04	8.77E+05	233.16	0.9633	No Trend
CB7.3E	Fall	AP	Dinoflagellate Abundance	0.9859	-2.03E+00	7.85E+04	-0.06	0.4100	No Trend
CB7.3E	Fall	AP	Chlorophyte Abundance	0.0002	5.76E+02	0.00E+00	N.E.	0.5797	Improving
CB7.3E	Fall	AP	Cryptophyte Abundance	0.2103	1.51E+04	6.82E+05	48.87	0.1109	No Trend
CB7.3E	Fall	AP	Number of Genera per replicate	0.7904	0.000	29.50	0.00	0.6046	No Trend
CB7.3E	Fall	AP	Picoplankton Abundance	0.9808	-2.45E+04	2.25E+07	-1.96	0.8999	No Trend
CB7.4	Fall	AP	Total Abundance	0.0073	1.27E+05	1.96E+06	143.25	0.6349	Increasing
CB7.4	Fall	AP	Total Biomass	0.0638	6.45E+06	1.13E+08	125.28	0.2809	No Trend
CB7.4	Fall	AP	Biomass to Abundance Ratio	0.5676	0.576	48.113	26.35	0.1981	No Trend
CB7.4	Fall	AP	Margalef Diversity Index	0.0053	-0.046	3.18	-32.07	0.4099	Degrading
CB7.4	Fall	AP	Diatom Biomass	0.0146	5.91E+06	6.47E+07	200.96	0.7376	No Trend
CB7.4	Fall	AP	Dinoflagellate Biomass	0.3234	4.62E+05	1.59E+07	64.05	0.1841	No Trend
CB7.4	Fall	AP	Cyanobacteria Biomass	0.0001	9.30E+03	0.00E+00	N.E.	0.1379	Degrading
CB7.4	Fall	AP	Chlorophyte Biomass	0.1243	7.31E+01	9.54E+04	1.69	0.2711	No Trend
CB7.4	Fall	AP	Picoplankton Biomass	0.3583	-6.90E+05	6.41E+07	-19.39	0.2085	No Trend
CB7.4	Fall	AP	Cryptophyte Biomass	0.6154	-1.37E+05	1.49E+07	-20.32	0.3974	No Trend
CB7.4	Fall	AP	Cyanobacteria Abundance	0.0044	3.97E+03	0.00E+00	N.E.	0.0498	Degrading
CB7.4	Fall	AP	Number of Species per Replicate	0.0151	-0.50	48.25	-22.80	0.3239	No Trend
CB7.4	Fall	AP	Pielou's Evenness	0.0012	0.007	0.43	34.10	0.7592	Improving
CB7.4	Fall	AP	Shannon Weiner Diversity Index	0.1149	0.026	2.39	24.22	0.5226	No Trend
CB7.4	Fall	AP	Diatom Abundance	0.0304	5.73E+04	8.57E+05	147.16	0.7423	No Trend
CB7.4	Fall	AP	Dinoflagellate Abundance	0.5676	1.36E+03	8.39E+04	35.76	0.9548	No Trend
CB7.4	Fall	AP	Chlorophyte Abundance	0.0001	2.60E+03	4.20E+03	1359.01	0.7791	Improving
CB7.4	Fall	AP	Cryptophyte Abundance	0.7160	6.49E+03	6.19E+05	23.09	0.6144	No Trend
CB7.4	Fall	AP	Number of Genera per replicate	0.1535	-0.286	35.50	-17.71	0.4775	No Trend
CB7.4	Fall	AP	Picoplankton Abundance	0.3583	-4.60E+05	4.27E+07	-19.39	0.2085	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Winter	AP	Total Abundance	0.0424	4.65E+05	3.85E+06	181.33	0.5756	No Trend
TF5.5	Winter	AP	Total Biomass	0.0051	3.10E+07	1.48E+08	314.71	0.9442	Increasing
TF5.5	Winter	AP	Biomass to Abundance Ratio	0.0033	2.795	35.697	117.44	0.9442	Improving
TF5.5	Winter	AP	Margalef Diversity Index	0.5288	-0.013	2.08	-9.07	1.0000	No Trend
TF5.5	Winter	AP	Diatom Biomass	0.0688	1.76E+07	1.25E+08	210.58	0.6242	No Trend
TF5.5	Winter	AP	Dinoflagellate Biomass	0.7447	0	1.89E+06	0.00	0.2971	No Trend
TF5.5	Winter	AP	Cyanobacteria Biomass	0.0004	7.32E+05	1.06E+06	1038.19	0.7795	Degrading
TF5.5	Winter	AP	Chlorophyte Biomass	0.0001	7.70E+06	1.16E+06	9967.01	1.0000	Improving
TF5.5	Winter	AP	Picoplankton Biomass	0.1458	-4.72E+05	1.28E+07	-44.19	0.6278	No Trend
TF5.5	Winter	AP	Cryptophyte Biomass	0.0041	1.88E+06	7.08E+06	398.41	0.3272	Increasing
TF5.5	Winter	AP	Cyanobacteria Abundance	0.0026	1.13E+05	6.15E+04	2744.50	0.7795	Degrading
TF5.5	Winter	AP	Number of Species per Replicate	0.9718	0.00	31.50	0.00	0.9719	No Trend
TF5.5	Winter	AP	Pielou's Evenness	0.0209	0.009	0.54	24.18	0.4010	No Trend
TF5.5	Winter	AP	Shannon Weiner Diversity Index	0.0051	0.047	2.81	25.11	0.5288	Improving
TF5.5	Winter	AP	Diatom Abundance	0.0930	1.06E+05	2.88E+06	55.32	0.6242	No Trend
TF5.5	Winter	AP	Dinoflagellate Abundance	0.6639	0	1.76E+04	0.00	0.1954	No Trend
TF5.5	Winter	AP	Chlorophyte Abundance	0.0026	5.69E+04	9.53E+04	894.72	0.8887	Improving
TF5.5	Winter	AP	Cryptophyte Abundance	0.0041	7.83E+04	2.95E+05	398.41	0.3272	Increasing
TF5.5	Winter	AP	Number of Genera per replicate	0.5741	0.200	27.50	10.91	1.0000	No Trend
TF5.5	Winter	AP	Picoplankton Abundance	0.1458	-3.15E+05	8.55E+06	-44.19	0.6278	No Trend
RET5.2	Winter	AP	Total Abundance	0.0276	7.89E+05	5.38E+06	220.06	0.3972	No Trend
RET5.2	Winter	AP	Total Biomass	0.0007	6.88E+07	1.89E+08	544.48	0.3500	Increasing
RET5.2	Winter	AP	Biomass to Abundance Ratio	0.0228	3.976	23.999	248.52	0.7437	No Trend
RET5.2	Winter	AP	Margalef Diversity Index	0.9415	0.002	1.83	1.56	0.1415	No Trend
RET5.2	Winter	AP	Diatom Biomass	0.0020	4.40E+07	1.42E+08	465.70	0.3424	Improving
RET5.2	Winter	AP	Dinoflagellate Biomass	0.8999	0	8.03E+05	0.00	0.9590	No Trend
RET5.2	Winter	AP	Cyanobacteria Biomass	0.2708	3.20E+05	2.82E+06	170.55	0.2038	No Trend
RET5.2	Winter	AP	Chlorophyte Biomass	0.0001	1.40E+07	1.75E+06	12072.15	0.3656	Improving
RET5.2	Winter	AP	Picoplankton Biomass	0.0117	-1.20E+06	2.08E+07	-69.44	0.8317	No Trend
RET5.2	Winter	AP	Cryptophyte Biomass	0.0474	1.98E+06	1.11E+07	266.54	0.9625	No Trend
RET5.2	Winter	AP	Cyanobacteria Abundance	0.0780	1.55E+05	1.70E+05	1372.56	0.2445	No Trend
RET5.2	Winter	AP	Number of Species per Replicate	0.3200	0.41	30.00	20.42	0.0562	No Trend
RET5.2	Winter	AP	Pielou's Evenness	0.5087	0.005	0.55	12.76	0.1959	No Trend
RET5.2	Winter	AP	Shannon Weiner Diversity Index	0.3783	0.035	2.61	19.98	0.0364	No Trend
RET5.2	Winter	AP	Diatom Abundance	0.2120	1.99E+05	4.50E+06	66.15	0.3327	No Trend
RET5.2	Winter	AP	Dinoflagellate Abundance	0.4758	0	3.58E+03	0.00	0.8733	No Trend
RET5.2	Winter	AP	Chlorophyte Abundance	0.0006	1.17E+05	1.11E+05	1578.90	0.3151	Improving
RET5.2	Winter	AP	Cryptophyte Abundance	0.0474	8.24E+04	4.64E+05	266.54	0.9625	No Trend
RET5.2	Winter	AP	Number of Genera per replicate	0.1503	0.354	25.50	20.83	0.1286	No Trend
RET5.2	Winter	AP	Picoplankton Abundance	0.0117	-8.01E+05	1.39E+07	-69.44	0.8317	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
LE5.5	Winter	AP	Total Abundance	0.8185	6.57E+04	1.20E+07	11.49	0.3353	No Trend
LE5.5	Winter	AP	Total Biomass	0.5206	6.71E+06	3.28E+08	42.96	0.3588	No Trend
LE5.5	Winter	AP	Biomass to Abundance Ratio	0.3588	0.749	41.764	37.64	0.9269	No Trend
LE5.5	Winter	AP	Margalef Diversity Index	0.7831	-0.007	2.39	-6.00	0.7831	No Trend
LE5.5	Winter	AP	Diatom Biomass	0.6464	4.61E+06	2.65E+08	36.46	0.4089	No Trend
LE5.5	Winter	AP	Dinoflagellate Biomass	0.0665	2.00E+06	2.31E+07	181.83	0.0812	No Trend
LE5.5	Winter	AP	Cyanobacteria Biomass	0.6128	1.22E+03	2.43E+05	10.50	0.2895	No Trend
LE5.5	Winter	AP	Chlorophyte Biomass	0.0397	9.28E+04	5.62E+03	34666.80	0.6829	No Trend
LE5.5	Winter	AP	Picoplankton Biomass	0.2438	-1.08E+05	7.91E+06	-23.31	0.6724	No Trend
LE5.5	Winter	AP	Cryptophyte Biomass	0.1033	3.61E+05	4.81E+06	157.42	0.3236	No Trend
LE5.5	Winter	AP	Cyanobacteria Abundance	0.4901	1.05E+02	7.97E+03	27.69	0.3333	No Trend
LE5.5	Winter	AP	Number of Species per Replicate	0.5805	-0.11	40.00	-5.54	0.9267	No Trend
LE5.5	Winter	AP	Pielou's Evenness	0.1300	0.006	0.24	49.64	0.3833	No Trend
LE5.5	Winter	AP	Shannon Weiner Diversity Index	0.5819	0.013	1.28	22.05	0.4629	No Trend
LE5.5	Winter	AP	Diatom Abundance	1.0000	-4.71E+03	1.14E+07	-0.87	0.0218	No Trend
LE5.5	Winter	AP	Dinoflagellate Abundance	0.2708	5.33E+03	1.74E+05	64.35	0.4629	No Trend
LE5.5	Winter	AP	Chlorophyte Abundance	0.0061	6.66E+03	2.56E+02	54596.41	0.6203	Improving
LE5.5	Winter	AP	Cryptophyte Abundance	0.0073	2.71E+04	2.00E+05	284.18	0.2605	Increasing
LE5.5	Winter	AP	Number of Genera per replicate	0.2484	-0.125	31.00	-8.47	0.4064	No Trend
LE5.5	Winter	AP	Picoplankton Abundance	0.2438	-7.22E+04	5.27E+06	-23.31	0.6724	No Trend
SBE5	Winter	AP	Total Abundance	0.5818	7.80E+04	2.27E+06	61.74	0.1378	No Trend
SBE5	Winter	AP	Total Biomass	0.8848	1.94E+06	6.79E+07	51.46	0.5690	No Trend
SBE5	Winter	AP	Biomass to Abundance Ratio	0.3104	1.134	36.567	55.80	0.4821	No Trend
SBE5	Winter	AP	Margalef Diversity Index	0.3104	-0.022	2.65	-15.20	0.6394	No Trend
SBE5	Winter	AP	Diatom Biomass	0.9769	-9.77E+04	4.44E+07	-3.96	0.3347	No Trend
SBE5	Winter	AP	Dinoflagellate Biomass	0.8392	8.43E+04	1.64E+07	9.26	0.6059	No Trend
SBE5	Winter	AP	Cyanobacteria Biomass	0.0556	1.23E+05	1.39E+05	1593.40	0.6033	No Trend
SBE5	Winter	AP	Chlorophyte Biomass	0.7043	3.90E+02	3.96E+05	1.77	0.2892	No Trend
SBE5	Winter	AP	Picoplankton Biomass	0.1071	1.57E+05	3.89E+06	68.64	0.6390	No Trend
SBE5	Winter	AP	Cryptophyte Biomass	0.6637	-1.44E+05	1.22E+07	-21.20	0.9601	No Trend
SBE5	Winter	AP	Cyanobacteria Abundance	0.0424	1.24E+04	5.57E+03	4004.20	0.9548	No Trend
SBE5	Winter	AP	Number of Species per Replicate	0.3681	-0.25	39.50	-11.39	0.6737	No Trend
SBE5	Winter	AP	Pielou's Evenness	0.2835	0.003	0.56	10.21	0.7652	No Trend
SBE5	Winter	AP	Shannon Weiner Diversity Index	0.9307	0.002	3.00	0.92	0.8775	No Trend
SBE5	Winter	AP	Diatom Abundance	0.7063	3.77E+04	1.24E+06	54.85	0.0459	No Trend
SBE5	Winter	AP	Dinoflagellate Abundance	0.7063	3.37E+03	1.67E+05	36.42	0.7224	No Trend
SBE5	Winter	AP	Chlorophyte Abundance	0.0185	5.82E+03	2.62E+04	399.92	0.5127	No Trend
SBE5	Winter	AP	Cryptophyte Abundance	0.8392	1.33E+03	5.10E+05	4.70	0.7784	No Trend
SBE5	Winter	AP	Number of Genera per replicate	0.1231	-0.364	36.50	-17.93	0.4036	No Trend
SBE5	Winter	AP	Picoplankton Abundance	0.1071	1.05E+05	2.59E+06	68.64	0.6390	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Winter	AP	Total Abundance	0.0597	2.08E+05	1.97E+06	157.78	0.8792	No Trend
TF4.2	Winter	AP	Total Biomass	0.0709	7.34E+06	4.88E+07	225.70	0.6932	No Trend
TF4.2	Winter	AP	Biomass to Abundance Ratio	0.7879	-0.235	32.221	-10.92	0.8229	No Trend
TF4.2	Winter	AP	Margalef Diversity Index	0.4196	-0.013	2.02	-9.70	0.6064	No Trend
TF4.2	Winter	AP	Diatom Biomass	0.2650	3.54E+06	4.16E+07	127.71	0.9385	No Trend
TF4.2	Winter	AP	Dinoflagellate Biomass	0.7472	0	1.12E+04	0.00	0.8940	No Trend
TF4.2	Winter	AP	Cyanobacteria Biomass	0.0006	4.65E+05	4.03E+05	1729.57	0.5248	Degrading
TF4.2	Winter	AP	Chlorophyte Biomass	0.0417	3.50E+05	1.22E+06	430.41	0.8921	No Trend
TF4.2	Winter	AP	Picoplankton Biomass	0.1458	-3.56E+05	1.01E+07	-42.42	0.3828	No Trend
TF4.2	Winter	AP	Cryptophyte Biomass	0.0837	1.06E+06	1.20E+07	132.97	0.6306	No Trend
TF4.2	Winter	AP	Cyanobacteria Abundance	0.0019	1.06E+05	5.84E+04	2712.85	0.7711	Degrading
TF4.2	Winter	AP	Number of Species per Replicate	0.7570	-0.13	31.00	-6.05	0.6156	No Trend
TF4.2	Winter	AP	Pielou's Evenness	0.6173	0.002	0.59	4.54	0.7652	No Trend
TF4.2	Winter	AP	Shannon Weiner Diversity Index	0.8476	0.005	2.92	2.35	0.8611	No Trend
TF4.2	Winter	AP	Diatom Abundance	0.6725	1.76E+04	1.24E+06	21.29	0.5884	No Trend
TF4.2	Winter	AP	Dinoflagellate Abundance	0.8402	0	2.56E+02	0.00	0.9175	No Trend
TF4.2	Winter	AP	Chlorophyte Abundance	0.0709	1.48E+04	3.46E+04	642.86	0.5818	No Trend
TF4.2	Winter	AP	Cryptophyte Abundance	0.0837	4.43E+04	5.00E+05	132.97	0.6306	No Trend
TF4.2	Winter	AP	Number of Genera per replicate	0.8155	0.000	28.00	0.00	0.5969	No Trend
TF4.2	Winter	AP	Picoplankton Abundance	0.1458	-2.37E+05	6.71E+06	-42.42	0.3828	No Trend
RET4.3	Winter	AP	Total Abundance	0.2078	2.77E+05	6.17E+06	67.43	0.9442	No Trend
RET4.3	Winter	AP	Total Biomass	0.2628	1.51E+07	3.03E+08	74.91	0.9442	No Trend
RET4.3	Winter	AP	Biomass to Abundance Ratio	0.1416	1.932	47.564	60.93	0.4840	No Trend
RET4.3	Winter	AP	Margalef Diversity Index	0.0802	-0.040	1.81	-32.81	0.1616	No Trend
RET4.3	Winter	AP	Diatom Biomass	0.4414	5.77E+06	2.67E+08	32.38	0.6745	No Trend
RET4.3	Winter	AP	Dinoflagellate Biomass	0.5510	1.80E+05	4.47E+06	60.41	0.6987	No Trend
RET4.3	Winter	AP	Cyanobacteria Biomass	0.1216	5.83E+04	4.15E+05	210.91	0.2950	No Trend
RET4.3	Winter	AP	Chlorophyte Biomass	0.0133	3.59E+05	0.00E+00	N.E.	0.3220	No Trend
RET4.3	Winter	AP	Picoplankton Biomass	0.2861	-3.34E+05	1.48E+07	-27.09	0.7711	No Trend
RET4.3	Winter	AP	Cryptophyte Biomass	0.2628	7.77E+05	7.85E+06	148.40	0.3629	No Trend
RET4.3	Winter	AP	Cyanobacteria Abundance	0.0128	3.96E+04	1.35E+04	4382.11	0.4231	No Trend
RET4.3	Winter	AP	Number of Species per Replicate	0.1312	-0.56	29.50	-28.70	0.1140	No Trend
RET4.3	Winter	AP	Pielou's Evenness	0.1075	0.007	0.61	16.83	0.4840	No Trend
RET4.3	Winter	AP	Shannon Weiner Diversity Index	0.2341	0.034	2.74	18.61	0.2628	No Trend
RET4.3	Winter	AP	Diatom Abundance	0.6745	3.34E+04	5.22E+06	9.60	0.3629	No Trend
RET4.3	Winter	AP	Dinoflagellate Abundance	0.6997	-1.75E+03	1.50E+05	-17.47	0.5994	No Trend
RET4.3	Winter	AP	Chlorophyte Abundance	0.0133	1.29E+04	0.00E+00	N.E.	0.2029	No Trend
RET4.3	Winter	AP	Cryptophyte Abundance	0.2628	3.18E+04	3.27E+05	145.86	0.3629	No Trend
RET4.3	Winter	AP	Number of Genera per replicate	0.1136	-0.563	27.50	-30.74	0.0988	No Trend
RET4.3	Winter	AP	Picoplankton Abundance	0.2861	-2.22E+05	9.85E+06	-27.09	0.7711	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
WE4.2	Winter	AP	Total Abundance	0.3732	-8.74E+04	1.06E+07	-17.29	0.5863	No Trend
WE4.2	Winter	AP	Total Biomass	0.5863	-6.23E+06	4.74E+08	-27.60	0.1134	No Trend
WE4.2	Winter	AP	Biomass to Abundance Ratio	0.6922	-0.189	44.639	-8.91	0.2551	No Trend
WE4.2	Winter	AP	Margalef Diversity Index	0.0176	-0.036	2.85	-26.87	0.4580	No Trend
WE4.2	Winter	AP	Diatom Biomass	0.2764	-6.35E+06	4.18E+08	-31.94	0.3472	No Trend
WE4.2	Winter	AP	Dinoflagellate Biomass	0.2551	8.71E+05	2.28E+07	80.38	0.2764	No Trend
WE4.2	Winter	AP	Cyanobacteria Biomass	0.0053	8.35E+04	5.88E+03	29833.15	0.8894	Degrading
WE4.2	Winter	AP	Chlorophyte Biomass	0.5799	0	3.73E+05	0.00	0.5169	No Trend
WE4.2	Winter	AP	Picoplankton Biomass	0.5517	1.66E+05	6.45E+06	43.64	0.3443	No Trend
WE4.2	Winter	AP	Cryptophyte Biomass	0.9015	-3.52E+04	1.27E+07	-5.80	0.5362	No Trend
WE4.2	Winter	AP	Cyanobacteria Abundance	0.0039	5.85E+03	1.92E+02	64011.72	0.6618	Degrading
WE4.2	Winter	AP	Number of Species per Replicate	0.0097	-0.59	48.00	-25.63	0.5859	Degrading
WE4.2	Winter	AP	Pielou's Evenness	0.0537	0.005	0.36	31.47	0.2351	No Trend
WE4.2	Winter	AP	Shannon Weiner Diversity Index	0.4580	0.015	1.96	16.49	0.4286	No Trend
WE4.2	Winter	AP	Diatom Abundance	0.1659	-1.61E+05	9.25E+06	-36.61	0.6561	No Trend
WE4.2	Winter	AP	Dinoflagellate Abundance	0.4003	4.45E+03	1.54E+05	60.66	0.4885	No Trend
WE4.2	Winter	AP	Chlorophyte Abundance	0.0730	3.11E+03	1.66E+04	393.08	0.2107	No Trend
WE4.2	Winter	AP	Cryptophyte Abundance	0.1735	1.80E+04	5.31E+05	71.16	0.5695	No Trend
WE4.2	Winter	AP	Number of Genera per replicate	0.1870	-0.200	35.00	-12.00	0.9021	No Trend
WE4.2	Winter	AP	Picoplankton Abundance	0.5517	1.10E+05	4.30E+06	43.64	0.3443	No Trend
TF3.3	Winter	AP	Total Abundance	0.1062	2.43E+05	6.66E+06	54.64	0.8892	No Trend
TF3.3	Winter	AP	Total Biomass	0.0474	1.88E+07	2.33E+08	121.47	0.6247	No Trend
TF3.3	Winter	AP	Biomass to Abundance Ratio	0.2708	0.780	34.822	33.62	0.2612	No Trend
TF3.3	Winter	AP	Margalef Diversity Index	0.2708	0.018	1.47	17.96	0.9270	No Trend
TF3.3	Winter	AP	Diatom Biomass	0.0398	1.43E+07	2.22E+08	96.22	0.5760	No Trend
TF3.3	Winter	AP	Dinoflagellate Biomass	0.7146	0	5.62E+03	0.00	0.3455	No Trend
TF3.3	Winter	AP	Cyanobacteria Biomass	0.0332	4.07E+05	1.13E+06	538.34	0.9141	No Trend
TF3.3	Winter	AP	Chlorophyte Biomass	0.0154	1.69E+06	6.83E+06	370.29	0.5390	No Trend
TF3.3	Winter	AP	Picoplankton Biomass	0.8773	-9.43E+04	2.12E+07	-5.33	0.8688	No Trend
TF3.3	Winter	AP	Cryptophyte Biomass	0.0474	1.46E+06	4.87E+06	448.67	0.7325	No Trend
TF3.3	Winter	AP	Cyanobacteria Abundance	0.0228	1.25E+05	1.74E+05	1079.01	0.9082	No Trend
TF3.3	Winter	AP	Number of Species per Replicate	0.1605	0.27	23.50	17.10	0.6530	No Trend
TF3.3	Winter	AP	Pielou's Evenness	0.5087	0.002	0.66	5.53	0.4817	No Trend
TF3.3	Winter	AP	Shannon Weiner Diversity Index	0.3398	0.027	3.02	13.20	0.4910	No Trend
TF3.3	Winter	AP	Diatom Abundance	0.3398	9.14E+04	5.46E+06	25.12	0.7315	No Trend
TF3.3	Winter	AP	Dinoflagellate Abundance	0.6255	0	1.28E+02	0.00	0.2502	No Trend
TF3.3	Winter	AP	Chlorophyte Abundance	0.0154	5.14E+04	3.78E+05	203.83	0.4462	No Trend
TF3.3	Winter	AP	Cryptophyte Abundance	0.0474	6.07E+04	2.03E+05	448.67	0.7325	No Trend
TF3.3	Winter	AP	Number of Genera per replicate	0.0645	0.345	21.00	24.66	0.6668	No Trend
TF3.3	Winter	AP	Picoplankton Abundance	0.8773	-6.29E+04	1.42E+07	-5.33	0.8688	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
RET3.1	Winter	AP	Total Abundance	0.3398	1.67E+05	7.37E+06	34.03	0.1279	No Trend
RET3.1	Winter	AP	Total Biomass	0.1630	1.16E+07	1.70E+08	102.91	0.2113	No Trend
RET3.1	Winter	AP	Biomass to Abundance Ratio	0.5087	0.675	26.529	38.19	0.9093	No Trend
RET3.1	Winter	AP	Margalef Diversity Index	0.4193	-0.009	1.72	-7.94	0.9674	No Trend
RET3.1	Winter	AP	Diatom Biomass	0.0913	1.17E+07	1.35E+08	129.59	0.2060	No Trend
RET3.1	Winter	AP	Dinoflagellate Biomass	0.1095	-2.37E+05	6.09E+06	-58.25	0.6976	No Trend
RET3.1	Winter	AP	Cyanobacteria Biomass	0.7690	4.81E+04	5.73E+06	12.58	0.3305	No Trend
RET3.1	Winter	AP	Chlorophyte Biomass	0.0664	5.15E+05	9.00E+05	858.29	0.5925	No Trend
RET3.1	Winter	AP	Picoplankton Biomass	0.8773	-7.33E+04	1.56E+07	-5.62	0.4317	No Trend
RET3.1	Winter	AP	Cryptophyte Biomass	0.1863	1.55E+06	1.69E+07	137.50	0.0781	No Trend
RET3.1	Winter	AP	Cyanobacteria Abundance	0.2401	1.51E+04	6.13E+05	36.86	0.2440	No Trend
RET3.1	Winter	AP	Number of Species per Replicate	0.8531	0.00	28.00	0.00	0.3576	No Trend
RET3.1	Winter	AP	Pielou's Evenness	0.4628	-0.006	0.64	-13.88	0.3196	No Trend
RET3.1	Winter	AP	Shannon Weiner Diversity Index	0.5569	-0.015	2.95	-7.73	0.5853	No Trend
RET3.1	Winter	AP	Diatom Abundance	0.3040	6.94E+04	3.52E+06	29.57	0.2470	No Trend
RET3.1	Winter	AP	Dinoflagellate Abundance	0.0576	-1.02E+04	1.90E+05	-80.35	0.8255	No Trend
RET3.1	Winter	AP	Chlorophyte Abundance	0.2120	1.28E+04	1.31E+05	145.65	0.3433	No Trend
RET3.1	Winter	AP	Cryptophyte Abundance	0.1863	6.36E+04	7.05E+05	135.30	0.0781	No Trend
RET3.1	Winter	AP	Number of Genera per replicate	0.5284	0.108	23.00	7.04	0.5062	No Trend
RET3.1	Winter	AP	Picoplankton Abundance	0.8773	-4.89E+04	1.04E+07	-5.62	0.4317	No Trend
LE3.6	Winter	AP	Total Abundance	0.2893	-1.18E+05	1.14E+07	-21.80	0.5899	No Trend
LE3.6	Winter	AP	Total Biomass	0.6753	-4.55E+06	5.23E+08	-18.29	0.1819	No Trend
LE3.6	Winter	AP	Biomass to Abundance Ratio	0.6048	0.511	49.281	21.79	0.5738	No Trend
LE3.6	Winter	AP	Margalef Diversity Index	0.0408	-0.024	2.46	-20.74	0.6651	No Trend
LE3.6	Winter	AP	Diatom Biomass	0.3366	-7.44E+06	4.72E+08	-33.07	0.1009	No Trend
LE3.6	Winter	AP	Dinoflagellate Biomass	0.0459	1.56E+06	1.68E+07	196.17	0.7795	No Trend
LE3.6	Winter	AP	Cyanobacteria Biomass	0.0006	7.32E+04	5.15E+02	298899.48	0.4511	Degrading
LE3.6	Winter	AP	Chlorophyte Biomass	0.2504	9.75E+02	4.75E+05	4.31	0.6527	No Trend
LE3.6	Winter	AP	Picoplankton Biomass	0.8620	-6.51E+04	2.21E+07	-5.02	0.7108	No Trend
LE3.6	Winter	AP	Cryptophyte Biomass	0.9803	-1.57E+04	1.18E+07	-2.79	0.1429	No Trend
LE3.6	Winter	AP	Cyanobacteria Abundance	0.0020	9.46E+03	6.40E+01	310566.67	0.4342	Degrading
LE3.6	Winter	AP	Number of Species per Replicate	0.0245	-0.46	40.00	-24.23	0.7628	No Trend
LE3.6	Winter	AP	Pielou's Evenness	0.0147	0.007	0.43	32.57	0.7157	No Trend
LE3.6	Winter	AP	Shannon Weiner Diversity Index	0.3124	0.023	2.27	21.53	0.6877	No Trend
LE3.6	Winter	AP	Diatom Abundance	0.2273	-1.19E+05	9.30E+06	-26.89	0.9363	No Trend
LE3.6	Winter	AP	Dinoflagellate Abundance	0.1602	9.82E+03	2.28E+05	90.51	0.6438	No Trend
LE3.6	Winter	AP	Chlorophyte Abundance	0.0004	8.11E+03	2.11E+04	805.86	0.3858	Improving
LE3.6	Winter	AP	Cryptophyte Abundance	0.1753	1.86E+04	4.94E+05	79.16	0.2026	No Trend
LE3.6	Winter	AP	Number of Genera per replicate	0.0353	-0.308	32.50	-19.88	0.3469	No Trend
LE3.6	Winter	AP	Picoplankton Abundance	0.8620	-4.34E+04	1.47E+07	-5.02	0.7108	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Winter	AP	Total Abundance	0.6397	-8.95E+04	6.58E+06	-28.57	0.6272	No Trend
CB6.1	Winter	AP	Total Biomass	0.4449	-7.11E+06	6.13E+08	-24.36	0.1746	No Trend
CB6.1	Winter	AP	Biomass to Abundance Ratio	0.5709	-0.472	93.507	-10.61	0.0385	No Trend
CB6.1	Winter	AP	Margalef Diversity Index	0.6397	-0.012	2.33	-11.21	0.5430	No Trend
CB6.1	Winter	AP	Diatom Biomass	0.4749	-4.54E+06	4.03E+08	-23.70	0.0273	No Trend
CB6.1	Winter	AP	Dinoflagellate Biomass	0.5059	3.49E+05	5.29E+07	13.85	0.5328	No Trend
CB6.1	Winter	AP	Cyanobacteria Biomass	0.2625	6.53E+03	6.53E+02	21020.59	0.7453	No Trend
CB6.1	Winter	AP	Chlorophyte Biomass	0.7286	1.83E+02	2.46E+05	1.56	0.7083	No Trend
CB6.1	Winter	AP	Picoplankton Biomass	0.9168	-1.19E+04	2.26E+07	-0.89	0.7427	No Trend
CB6.1	Winter	AP	Cryptophyte Biomass	0.4161	1.80E+05	9.77E+06	38.77	0.0888	No Trend
CB6.1	Winter	AP	Cyanobacteria Abundance	0.3442	5.12E+02	2.56E+02	4200.00	0.7759	No Trend
CB6.1	Winter	AP	Number of Species per Replicate	0.5202	-0.19	37.50	-10.50	0.7268	No Trend
CB6.1	Winter	AP	Pielou's Evenness	0.3619	0.002	0.49	8.35	0.6215	No Trend
CB6.1	Winter	AP	Shannon Weiner Diversity Index	0.6397	-0.008	2.64	-5.98	0.6994	No Trend
CB6.1	Winter	AP	Diatom Abundance	0.6397	-5.11E+04	5.64E+06	-19.03	0.4936	No Trend
CB6.1	Winter	AP	Dinoflagellate Abundance	0.9215	-3.31E+02	2.93E+05	-2.37	0.5791	No Trend
CB6.1	Winter	AP	Chlorophyte Abundance	0.1015	2.19E+02	1.09E+04	42.21	0.5036	No Trend
CB6.1	Winter	AP	Cryptophyte Abundance	0.1328	1.68E+04	4.07E+05	86.79	0.3411	No Trend
CB6.1	Winter	AP	Number of Genera per replicate	0.9605	0.000	29.50	0.00	0.2704	No Trend
CB6.1	Winter	AP	Picoplankton Abundance	0.9168	-7.92E+03	1.51E+07	-0.89	0.7427	No Trend
CB6.4	Winter	AP	Total Abundance	0.4324	1.04E+05	7.05E+06	31.13	0.9573	No Trend
CB6.4	Winter	AP	Total Biomass	0.2635	1.15E+07	5.67E+08	42.66	0.1880	No Trend
CB6.4	Winter	AP	Biomass to Abundance Ratio	0.7212	0.347	52.234	13.94	0.1028	No Trend
CB6.4	Winter	AP	Margalef Diversity Index	0.2635	-0.018	2.24	-17.07	0.1090	No Trend
CB6.4	Winter	AP	Diatom Biomass	0.4051	5.13E+06	4.88E+08	22.05	0.2557	No Trend
CB6.4	Winter	AP	Dinoflagellate Biomass	0.0670	2.27E+06	6.00E+07	79.30	0.3895	No Trend
CB6.4	Winter	AP	Cyanobacteria Biomass	0.0197	1.82E+04	0.00E+00	N.E.	0.7662	No Trend
CB6.4	Winter	AP	Chlorophyte Biomass	0.1793	0	0.00E+00	N.E.	0.3657	No Trend
CB6.4	Winter	AP	Picoplankton Biomass	0.0894	-5.96E+05	2.01E+07	-50.52	0.7234	No Trend
CB6.4	Winter	AP	Cryptophyte Biomass	0.0269	8.20E+05	1.21E+07	142.79	0.0370	No Trend
CB6.4	Winter	AP	Cyanobacteria Abundance	0.0165	2.38E+03	0.00E+00	N.E.	0.9086	No Trend
CB6.4	Winter	AP	Number of Species per Replicate	0.3396	-0.23	36.50	-13.28	0.2660	No Trend
CB6.4	Winter	AP	Pielou's Evenness	0.9810	0.000	0.41	1.15	0.1901	No Trend
CB6.4	Winter	AP	Shannon Weiner Diversity Index	0.7571	-0.005	2.24	-4.80	0.3714	No Trend
CB6.4	Winter	AP	Diatom Abundance	0.3787	7.43E+04	5.83E+06	26.77	0.6610	No Trend
CB6.4	Winter	AP	Dinoflagellate Abundance	0.9431	3.11E+02	3.39E+05	1.92	0.9073	No Trend
CB6.4	Winter	AP	Chlorophyte Abundance	0.0025	3.44E+03	0.00E+00	N.E.	0.9269	Improving
CB6.4	Winter	AP	Cryptophyte Abundance	0.0046	3.77E+04	5.02E+05	157.77	0.1491	Increasing
CB6.4	Winter	AP	Number of Genera per replicate	0.1885	-0.250	29.50	-17.80	0.3760	No Trend
CB6.4	Winter	AP	Picoplankton Abundance	0.0894	-3.97E+05	1.34E+07	-50.52	0.7234	No Trend

Appendix E. Continued..

Station	Season	Layer	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB7.3E	Winter	AP	Total Abundance	0.9431	-1.90E+04	6.36E+06	-6.26	0.4330	No Trend
CB7.3E	Winter	AP	Total Biomass	0.7571	-2.48E+06	3.50E+08	-14.85	0.2675	No Trend
CB7.3E	Winter	AP	Biomass to Abundance Ratio	0.9810	-0.110	35.945	-6.43	0.3530	No Trend
CB7.3E	Winter	AP	Margalef Diversity Index	0.0670	-0.037	2.42	-32.49	0.7766	No Trend
CB7.3E	Winter	AP	Diatom Biomass	0.7571	-9.34E+05	2.77E+08	-7.07	0.5274	No Trend
CB7.3E	Winter	AP	Dinoflagellate Biomass	0.9810	2.75E+04	2.68E+07	2.16	0.3279	No Trend
CB7.3E	Winter	AP	Cyanobacteria Biomass	0.0387	2.02E+04	1.27E+05	333.46	0.7393	No Trend
CB7.3E	Winter	AP	Chlorophyte Biomass	0.2064	1.72E+02	1.20E+03	301.51	0.6560	No Trend
CB7.3E	Winter	AP	Picoplankton Biomass	0.5051	-3.02E+05	1.54E+07	-33.47	0.9190	No Trend
CB7.3E	Winter	AP	Cryptophyte Biomass	0.2844	3.51E+05	1.24E+07	59.60	0.1922	No Trend
CB7.3E	Winter	AP	Cyanobacteria Abundance	0.0197	4.28E+03	4.18E+03	2148.35	0.5414	No Trend
CB7.3E	Winter	AP	Number of Species per Replicate	0.0451	-0.56	39.50	-29.54	0.7908	No Trend
CB7.3E	Winter	AP	Pielou's Evenness	0.1604	0.003	0.38	16.60	0.2045	No Trend
CB7.3E	Winter	AP	Shannon Weiner Diversity Index	0.7212	0.005	1.99	5.52	0.2990	No Trend
CB7.3E	Winter	AP	Diatom Abundance	0.6859	-2.02E+04	3.52E+06	-12.04	0.8182	No Trend
CB7.3E	Winter	AP	Dinoflagellate Abundance	0.3063	6.21E+03	1.63E+05	79.91	0.1234	No Trend
CB7.3E	Winter	AP	Chlorophyte Abundance	0.0178	1.71E+02	3.20E+01	11200.00	0.4702	No Trend
CB7.3E	Winter	AP	Cryptophyte Abundance	0.0385	2.56E+04	5.16E+05	104.38	0.3615	No Trend
CB7.3E	Winter	AP	Number of Genera per replicate	0.2057	-0.308	32.50	-19.88	0.7935	No Trend
CB7.3E	Winter	AP	Picoplankton Abundance	0.5051	-2.02E+05	1.02E+07	-33.47	0.9190	No Trend
CB7.4	Winter	AP	Total Abundance	0.0015	2.50E+05	2.67E+06	196.58	0.8185	Increasing
CB7.4	Winter	AP	Total Biomass	0.0051	2.20E+07	2.03E+08	227.52	0.6796	Increasing
CB7.4	Winter	AP	Biomass to Abundance Ratio	0.8544	0.453	74.010	12.87	0.7831	No Trend
CB7.4	Winter	AP	Margalef Diversity Index	0.0029	-0.043	2.68	-33.32	0.9634	Degrading
CB7.4	Winter	AP	Diatom Biomass	0.0089	1.72E+07	1.74E+08	206.99	0.7481	Improving
CB7.4	Winter	AP	Dinoflagellate Biomass	0.5819	3.16E+05	1.69E+07	39.38	1.0000	No Trend
CB7.4	Winter	AP	Cyanobacteria Biomass	0.0118	2.31E+03	9.80E+02	4954.40	0.5391	No Trend
CB7.4	Winter	AP	Chlorophyte Biomass	0.0131	1.00E+04	5.45E+03	3866.28	0.2942	No Trend
CB7.4	Winter	AP	Picoplankton Biomass	0.5939	-1.13E+05	2.19E+07	-8.79	0.4372	No Trend
CB7.4	Winter	AP	Cryptophyte Biomass	0.0896	4.24E+05	5.08E+06	175.09	0.4913	No Trend
CB7.4	Winter	AP	Cyanobacteria Abundance	0.0311	7.27E+02	1.60E+02	9547.26	0.1411	No Trend
CB7.4	Winter	AP	Number of Species per Replicate	0.0087	-0.48	40.50	-25.06	0.6115	Degrading
CB7.4	Winter	AP	Pielou's Evenness	0.3833	0.002	0.42	7.76	0.8185	No Trend
CB7.4	Winter	AP	Shannon Weiner Diversity Index	0.9269	0.001	2.30	1.00	0.7136	No Trend
CB7.4	Winter	AP	Diatom Abundance	0.0348	1.29E+05	2.41E+06	113.00	0.9269	No Trend
CB7.4	Winter	AP	Dinoflagellate Abundance	0.0435	6.65E+03	7.55E+04	184.90	0.5206	No Trend
CB7.4	Winter	AP	Chlorophyte Abundance	0.0002	2.11E+03	9.60E+01	46241.09	0.8879	Improving
CB7.4	Winter	AP	Cryptophyte Abundance	0.0150	2.35E+04	2.12E+05	232.56	0.2513	No Trend
CB7.4	Winter	AP	Number of Genera per replicate	0.0189	-0.358	35.50	-21.19	0.8552	No Trend
CB7.4	Winter	AP	Picoplankton Abundance	0.5939	-7.55E+04	1.46E+07	-8.79	0.4372	No Trend