LIST OF APPENDICES
VOLUME III - PART 3

APPENDIX IV-A

BENTHOS COLLECTION DATA 1973

TABLE IV A-1

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPW	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 6/30/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari	0	0	0	0	134	12.88	.188	7.8		No	sample		84	9.29	.129	26.43	159	17.40	.218	11.66	0	0	0	0	469	43.11	.657	3.73
Amphipoda	402	21.43	.131	4.00	134	12.88	.013	.54					377	41.70	.039	7.99	268	29.32	.052	2.78	92	5.61	.039	3.74	117	10.75	.019	.11
Annellida	0	0	0	0	0	0	0	0					34	3.76	0	0	369	40.37	0	0	0	0	0	0	0	0	0	0
Decopoda	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	8	.74	14.64	83.21
Diptera	737	39.29	2.797	85.40	335	32.21	1.273	52.84					50	5.53	.084	17.21	1	.11	.008	.43	0	0	0	0	0	0	0	0
Gastropoda	0	0	.059	1.80	34	3.27	.692	28.73					8	.88	.007	1.43	42	4.60	.699	37.40	0	0	0	0	8	.74	.037	.21
Insecta	0	0	0	0	0	0	0	0					0	0	0	0	8	.88	.772	41.31	0	0	0	0	0	0	0	0
Isopoda	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	17	1.56	.382	2.17
Oligochaeta	469	25.00	.12	3.66	34	3.27	.008	.33					16	1.77	.015	3.07	17	1.86	.095	5.08	0	0	0	0	8	.74	.002	.01
Ostracoda	268	14.29	.168	5.13	369	35.48	.235	9.76					327	36.17	.209	42.83	50	5.47	.025	1.34	1549	94.39	1.005	96.26	327	30.06	.209	1.19
Pelecypoda	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0					8	.88	.005	1.02	0	0	0	0	0	0	0	0	134	12.32	1.648	9.37
Total	1876		3.275		1040		2.409						904		.488		914		1.869		1641		1.044		1088		17.597	

TABLE IV A-1 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPP	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 6/30/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari	0	0	0	0		No	sample		51	3.16	.084	6.3		No	sample		34	4.02	.059	.30	218	1.86	.305	3.48	0	0	.363	6.82
Amphipoda	1366	70.77	5.173	15.26					611	37.83	.163	12.22					536	63.36	.039	.20	687	5.85	.062	.71	59	3.81	.002	.04
Annellida	0	0	0	0					101	6.25	0	0					8	.95	0	0	0	0	0	0	0	0	0	0
Decopoda	0	0	0	0					0	0	0	0					8	.95	17898	89.49	0	0	0	0	8	.52	3.044	57.16
Diptera	3099	16.05	11.712	34.55					84	5.20	.318	23.84					59	6.97	.218	1.09	80	.68	.251	2.86	0	0	0	0
Gastropoda	536	2.78	9.744	28.74					8	.50	.173	12.97					0	0	0	0	101	.86	.238	2.71	168	10.85	.744	13.97
Insecta	0	0	0	0					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0
Isopoda	0	0	0	0					8	.50	.191	14.32					0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	670	3.47	.17	.50					342	21.18	.12	9.0					0	0	0	0	662	5.64	.229	2.61	0	0	0	0
Ostracoda	737	3.82	.477	1.41					318	19.69	.201	15.07					59	6.97	.034	.17	9883	84.18	6.415	73.15	1281	82.7	.829	15.57
Pelecypoda	67	.35	.034	.10					8	.50	.034	2.55					0	0	0	0	8	.07	.034	.39	8	.52	.034	.64
Others	536	2.78	6.593	19.45					84	5.20	.05	3.75					142	16.78	1.751	8.76	101	.86	1.236	14.09	25	1.61	.309	5.80
Total	19313		33.903						1615		1.334						846		19999		11740		8.77		1549		5.325	

TABLE IV A-1 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: FITZ	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 6/30/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari	0	0	0	0	33	1.34	.07	.45		No	sample			No	sample		17	1.69	.023	1.33	16	.45	.047	1.48	8	.11	.035	.54
Amphipoda	38458	70.59	5.877	6.63	829	33.70	1.111	7.12									193	19.20	.174	10.09	913	25.60	.489	15.45	2588	36.10	.908	14.01
Annellida	0	0	0	0	16	.65	.263	1.69									0	0	0	0	0	0	0	0	0	0	0	0
Decopoda	0	0	0	0	8	.33	8.899	57.05									0	0	0	0	0	0	0	0	0	0	0	0
Diptera	12001	22.03	28224	31.85	117	4.76	.436	2.80									301	29.95	1.146	66.43	101	2.83	.382	12.07	33	.46	.117	1.8
Gastropoda	2412	4.43	49672	56.06	34	1.38	.65	4.17									0	0	0	0	0	0	0	0	201	2.81	1.104	17.03
Insecta	0	0	0	0	0	0	0	0									0	0	0	0	0	0	0	0	0	0	0	0
Isopoda	0	0	0	0	0	0	0	0									0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	268	.49	.067	.08	384	15.61	.103	.66									176	17.51	.08	4.64	737	20.66	.235	7.42	2765	38.57	1.60	24.68
Ostracoda	1005	1.84	.645	.73	637	25.89	.419	2.69									285	28.36	.184	10.67	1549	43.43	1.605	50.71	921	12.85	.595	9.18
Pelecypoda	0	0	0	0	67	2.72	.310	.99									0	0	0	0	109	3.06	.318	10.05	285	3.98	1.307	20.16
Others	335	.61	4.121	4.65	335	13.62	3.338	21.40									33	3.28	.118	6.84	142	3.98	.089	2.81	368	5.13	.816	12.59
Total	54479		88606		2460		15599										1005		1.725		3567		3.165		7169		6.482	

TABLE IV A-1 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPE	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 6/30/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari	0	0	0	0		No	sample			No	sample		168	2.83	.235	1.84	0	0	0	0	0	0	0	0	0	0	0	0
Amphipoda	15678	75.08	6.509	15.27									1667	28.06	.190	1.49	637	8.34	1.513	9.49	1189	14.50	.595	5.66	1566	26.94	.377	3.91
Annellida	67	.32	2.108	4.94									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda	0	0	0	0									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera	2278	10.91	8.656	20.3									2814	47.37	10693	83.69	813	10.64	3.116	19.55	469	5.72	1.776	16.88	134	2.31	.503	5.22
Gastropoda	1014	4.86	20926	49.08									59	.99	.171	1.34	645	8.44	1.671	10.48	486	5.93	1.411	13.41	712	12.25	2.849	29.57
Insecta	0	0	0	0									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda	0	0	0	0									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta	201	.96	.104	.24									109	1.84	.03	.23	1173	15.35	.48	3.01	1273	15.53	.50	4.75	755	12.99	.24	2.49
Ostracoda	1273	6.10	.821	1.93									963	16.21	.62	4.85	2973	38.91	1.926	12.08	2822	34.42	1.826	17.36	1256	21.61	.812	8.43
Pelecypoda	67	.32	.193	.45									17	.29	.067	.52	570	7.46	2.621	16.44	753	9.19	3.467	32.95	1005	17.29	4.623	47.98
Others	304	1.46	3.316	7.78									143	2.41	.771	6.03	829	10.85	4.613	28.94	1206	14.71	.946	8.99	385	6.62	.231	2.40
Total	20882		42633										5940		12777		7640		15.94		8198		10.521		5813		9.635	

TABLE IV A-2

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: Rep. 2 NMPW	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/29/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	Sample		0	0	0	0		No	Sample		100	.56	.140	1.05	184	1.91	.237	1.80	25	5.54	.010	2.66	84	9.30	.121	1.92
Amphipoda					1758	82.03	1.579	15.56					17688	98.69	13053	98.28	42	.54	.410	3.12	251	55.65	.258	68.62	226	25.03	.448	7.11
Annellida					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	16	1.77	3.839	60.96
Diptera					0	0	0	0					34	.19	.005	.04	16	.17	.007	.05	67	14.86	.038	10.11	168	18.60	.514	8.16
Gastropoda					385	17.97	8.571	84.44					34	.19	.041	.31	8693	94.55	12.248	93.17	0	0	0	0	25	2.77	.519	8.24
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	167	18.49	.341	5.41
Oligochaeta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	42	4.65	.013	.21
Ostracoda					0	0	0	0					67	.37	.043	.32	251	2.73	.163	1.24	108	23.95	.070	18.62	125	13.84	.081	1.29
Pelecypoda					0	0	0	0					0	0	0	0	8	.09	.081	.62	0	0	0	0	50	5.54	.422	6.70
Others					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total					2143		10.150						17923		13.282		9194		13.146		451		.376		903		6.298	

TABLE IV A -2 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: Rep. 2 NMPP DATE: 8/29/73	10 C				10 NC				20 C				20 NC				30				40				60			
	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No Sample			0	0	0	0		No Sample			118	3.07	.204	4.44	159	4.65	.173	5.31	59	5.98	.017	.85	126	6.41	.057	1.75
Amphipoda					5259	67.33	3.909	22.32					2412	62.75	.861	18.72	971	28.43	.081	2.49	67	6.79	.355	17.66	268	13.62	.582	17.86
Annellida					0	0	0	0					0	0	0	0	318	9.31	.102	3.13	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					2227	28.51	9.617	54.90					930	24.19	1.563	33.99	444	13.00	.789	24.22	628	63.63	.577	28.71	1197	60.85	1.613	49.49
Gastropoda					41	.52	3.401	19.42					50	1.30	1.332	28.96	1105	32.35	1.403	43.08	75	7.60	.479	23.83	50	2.54	.554	17.00
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	17	.87	.120	3.68
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	25	1.27	.153	4.69
Oligochaeta					168	2.15	.053	.30					25	.65	.008	.17	0	0	0	0	34	3.44	.010	.50	8	.41	.002	.06
Ostracoda					83	1.06	.079	.45					284	7.39	.184	4.00	360	10.54	.233	7.15	83	8.41	.054	2.69	268	13.62	.173	5.31
Pelecypoda					33	.42	.457	2.61					25	.65	.447	9.72	42	1.23	.466	14.31		33	3.34	.513	2552	0	0	0
Others					0	0	0	0					0	0	0	0	17	.50	.010	.31	8	.81	.005	.25	8	.41	.005	.15
Total					7811		17.516						3844		4.599		3416		3.257		987		2.010		1967		3.259	

TABLE IV A-2 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: Rep. 2 FITE	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/29/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	Sample		50	1.66	.073	.20		No	Sample		184	9.91	.225	2.22	0	0	0	0	8	.38	.040	1.14	25	.59	.058	.59
Amphipoda					2261	75.27	2.200	6.05					636	34.27	.450	4.43	4221	89.67	1,578	61.69	804	38.58	1.179	23.65	1482	34.70	1.749	17.67
Annellida					0	0	0	0					92	4.96	.029	.29	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					50	1.66	.061	.17					167	9.00	.283	2.79	134	2.85	.071	2.78	477	22.89	.486	13.87	486	11.38	.864	8.73
Gastropoda					602	20.04	33.905	93.17					142	7.65	8.250	81.28	318	6.76	.891	34.83	201	9.64	1.092	31.16	528	12.36	4.892	49.42
Insecta					0	0	0	0					8	.43	.052	.51	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					0	0	0	0					0	0	0	0	17	.36	.008	.31	42	2.02	.013	.37	25	.59	.008	.08
Ostracoda					33	1.10	.021	.06					594	32.00	.385	3.79	0	0	0	0	268	12.86	.173	4.94	938	21.96	.522	5.27
Pelecypoda					0	0	0	0					33	1.78	.476	4.69	0	0	0	0	259	12.43	.506	14.44	779	18.24	1.800	18.19
Others					8	.27	.130	.36					0	0	0	0	17	.36	.010	.39	25	1.20	.015	.43	8	.19	.005	.05
Total					3004		36390						1856		10150		4707		2.558		2084		3.504		4271		9.898	

TABLE IV A-2 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: Rep #1 NMPE	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/29/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari	No	Sample			25	1.56	.028	.53	No	Sample			84	12.88	.034	.23	67	.58	.248	1.06	8	.07	.010	.03	17	.81	.026	.58
Amphipoda					1097	68.51	1.394	26.59					50	7.67	.307	2.10	2043	17.81	2.242	9.62	2855	24.41	5.115	16.15	636	30.29	1.162	26.02
Annellida					0	0	0	0					8	1.23	.002	.01	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					201	12.57	.554	10.57					8	1.23	.009	.06	1070	9.33	1.138	4.89	770	6.58	.895	2.83	343	16.33	.214	4.79
Gastropoda					176	11.01	2.614	49.87					28.5	43.71	13.742	94.18	4714	41.10	13.722	58.91	5066	43.31	18.699	59.04	442	21.52	1.945	43.55
Insecta					0	0	0	0					0	0	0	0	8	.07	.063	.27	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	8	.38	.060	1.34
Oligochaeta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	25	1.19	.008	.18
Ostracoda					100	6.25	.652	12.44					134	20.55	.086	.59	1013	8.83	.657	2.82	301	2.57	.309	.98	75	3.57	.048	1.07
Pelecypoda					0	0	0	0					75	11.50	.406	2.78	1842	16.06	4.902	21.04	2462	21.05	6.455	20.38	343	16.33	.878	19.66
Others					0	0	0	0					8	1.23	.005	.03	712	6.21	.322	1.38	234	2.00	.188	.59	201	9.57	.125	2.80
Total					1599		5.242						652		14.591		11469		23.294		11696		31.671		2090		4.466	

TABLE IV A-3

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPW	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/31/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No Sample			0	0	0	0		No Sample			193	2.65	.211	4.65	0	0	0	0	989	71.98	.430	24.01	58	6.61	.082	2.57
Amphipoda					1968	81.32	1.964	33.83					6775	93.10	2.860	63.00	0	0	0	0	134	9.75	.228	12.73	84	9.57	.523	14.60
Annellida					0	0	0	0					67	.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	8	.91	.389	12.20
Diptera					0	0	0	0					16	.22	.349	7.69	0	0	0	0	109	7.93	.076	4.24	251	28.59	.493	15.46
Gastropoda					452	18.68	3.841	66.17					175	2.40	.876	19.30	0	0	0	0	50	3.64	.997	55.67	92	10.48	.554	17.37
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	142	16.17	.434	13.61
Oligochaeta					0	0	0	0					0	0	.022	.48	0	0	0	0	0	0	0	0	16	1.82	.008	.25
Ostracoda					0	0	0	0					34	.47	.022	.48	0	0	0	0	92	6.70	.060	3.35	168	19.13	.378	11.85
Pelecypoda					0	0	0	0					17	.23	.200	4.41	0	0	0	0	0	0	0	0	59	6.72	.328	10.29
Others					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total					2420		5.805						7277		4.540		0		0		1374		1.791		878		3.189	

TABLE IV A-3 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: Rep I NMPP	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/31/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No Sample			0	0	0	0		No Sample			3183	4.09	.183	3.21	25	6.65	.013	.58	134	13.23	.201	5.17	126	19.53	.203	1.63
Amphipoda					1977	97.10	1.759	28.23					2948	49.64	.992	17.39	117	31.12	.387	17.39	101	9.97	.276	7.10	109	16.90	.053	.43
Annellida					0	0	0	0					42	.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					8	.39	.397	6.37					871	14.67	1.076	18.86	25	6.65	.028	1.26	410	40.47	.873	22.45	209	32.40	.555	4.46
Gastropoda					34	1.67	4.024	64.59					92	1.55	1.339	23.47	284	48.94	1.636	73.43	159	15.69	2.084	53.59	142	22.02	11.591	93.20
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					17	.83	.050	.80					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					0	0	0	0					553	9.31	.193	3.38	0	0	0	0	0	0	0	0	17	2.64	.008	.06
Ostracoda					0	0	0	0					972	16.37	.510	8.94	17	4.52	.011	.49	201	19.84	.130	3.34	42	6.51	.027	122
Pelecypoda					0	0	0	0					151	2.54	.685	12.01	8	2.13	.153	6.87	8	.79	.325	8.36	0	0	0	0
Others					0	0	0	0					67	1.13	.726	12.73	0	0	0	0	0	0	0	0	0	0	0	0
Total					2036		6.230						8611		5.704		476		3.460		1013		3.889		645		12.437	

TABLE IV A-3 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: FITZ	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/31/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No Sample			25	.86	.044	.25		No Sample			227	10.03	.270	3.75	67	.31	.094	.27	8	.25	.0018	.29	16	.62	.008	.16
Amphipoda					2001	69.07	1.716	9.80					854	36.43	.657	9.13	20703	97.17	34.160	99.22	1784	55.03	2.601	41.42	1106	42.60	1.125	22.00
Annellida					0	0	0	0					251	10.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					50	1.73	.317	1.81					142	6.06	.619	8.60	469	2.20	.134	.39	260	8.02	.592	9.43	536	20.65	.512	10.01
Gastropoda					762	26.30	15.400	87.92					276	11.77	4.755	66.04	0	0	.008	.02	360	11.10	.729	27.54	109	4.20	1.353	26.46
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	8	0	.054	.25	0	.86	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0
Oligochaeta					0	0	0	0					0	0	.081	.13	34	.16	.011	.03	.42	1.30	.013	.21	17	.65	.005	.10
Ostracoda					59	2.04	.038	.22					570	24.32	.399	5.54	34	.16	.022	.06	377	11.63	.245	3.90	251	9.67	.163	3.19
Pelecypoda					0	0	0	0					16	.68	.419	5.82	0	0	0	0	369	11.38	1.006	16.02	343	13.21	1.516	29.53
Others					0	0	0	0					0	0	0	0	0	0	0	0	0	1.05	0	.33	17	8.39	.206	8.55
Total					2897		17.515						2336		7.200		21307		34.429		3208		6.2418		2395		4.882	

TABLE IV A-3 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPE	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 8/31/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	Sample		235	.99	.770	4.44		No Sample			234	5.94	.501	5.05	142	1.09	.199	.53	84	1.01	.053	.23	67	.97	.153	.90
Amphipoda					16072	67.83	9.315	53.68					369	9.37	.863	8.71	2242	13.42	2.635	11.84	1508	18.17	2.383	10.21	2127	30.79	3.365	19.74
Annellida					42	.18	0	0					17	.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					4456	18.80	3.731	21.5					335	8.51	.735	7.42	804	6.19	1.434	6.44	1198	14.43	1.640	7.03	452	6.54	.843	4.94
Gastropoda					665	1.67	1.587	9.15					670	17.02	6.201	62.56	3757	36.65	11.913	53.53	3065	36.92	12.732	54.58	1809	26.19	8.254	48.41
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	8	.10	.054	.23	8	.11	.054	.32
Isopoda					17	.67	.050	.29					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					0	0	.008	.04					0	0	0	0	109	.84	.057	.26	59	.71	.019	108	168	2.43	.054	.32
Ostracoda					2069	8.73	1.048	6.04					851	47.02	.652	6.58	1357	10.45	.881	3.96	251	3.02	.163	.70	175	1.09	.049	.29
Pelecypoda					343	1.45	.815	4.70					193	4.90	.840	8.47	2998	23,10	4.846	20.43	1734	20.89	6.021	25.81	1884	27.27	4.079	23.93
Others					67	.28	.028	.16					268	6.81	.120	1.21	1072	8.26	.669	3.01	394	4.75	.264	1.13	318	4.60	.198	1.16
Total					24066		17.352						3937		9.914		12481		22.334		8301		23.329		6908		17946	

TABLE IV A-4

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPW REP#1	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Bio	%	#	%	Bio	%	#	%	Bio	%	#	%	Bio	%	#	%	Bio	%	#	%	Bio	%	#	%	Bio	%
Acari					59	1.81	.082	.20					8	.25	.012	.17	184	16.77	.258	17.60	34	3.03	.047	1.50	67	.50	.106	.47
Amphipoda					1575	48.34	2.598	6.20					1323	42.13	2.183	30.37	34	3.10	.150	9.55	896	79.79	1.479	47.13	6030	45.32	9.950	43.67
Annellida					34	1.04	0	0					578	18.41	.0	0	8	.73	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					17	.52	.031	.07					17	.54	.031	.43	0	0	0	0	0	0	0	0	1909	14.35	5.461	23.97
Gastropoda					1499	46.01	38.81	92.62					1097	34.94	4.096	56.98	812	74.02	.983	67.05	151	13.45	1.588	50.61	50	.38	1.640	7.20
Insecta					8	.25	.016	.04					0	0	0	0	0	0	0	0	0	0	0	0	8	.06	.024	.11
Isopoda					0	0	0	0					0	0	0	0	17	1.55	.048	3.27	0	0	0	0	8	.06	.024	.11
Oligochaeta					0	.25	.013	.03					8	.25	188	2.62	0	0	.002	.14	8	.71	.002	06	553	4.16	177	.78
Ostracode					16	.25	.005	.01					17	.54	011	.15	34	3.10	.022	1.50	34	3.03	.022	70	2186	0	1.419	6.23
Pelecypoda					25	77	.039	.09					25	.80	039	.54	8	0	.013	.89	0	0	0	0	2487	0	3.380	17.03
Others					25	77	.309	.74					67	2.13	628	8.74	0	0	0	0	0	0	0	0	8	.06	103	.45
TOTAL					3258		41.906						3140		7.188		1097		1.466		1123		3.138		13306		22.784	

TABLE IV A-4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPW	REP #2 10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	sample		83	.91	.117	.41		No	sample		151	15.30	.234	7.39	285	13.95	.398	9.63	8	24.24	.011	9.48	109	1.67	.152	1.99
Amphipoda					6808	74.80	11234	38.90					385	39.01	1.611	50.87	393	19.24	1.645	39.79	25	75.76	.105	90.52	1021	15.62	1.686	22.04
Annellida					0	0	0	0					0	0	0	0	1206	59.03	.703	17.01	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					1273	13.99	2.419	8.38					8	.81	.024	.76	0	0	0	0	0	0	0	0	385	5.89	1.102	14.41
Gastropoda					938	10.31	15106	52.31					368	37.28	1.249	39.44	159	7.78	1.388	33.58	0	0	0	0	83	1.27	.768	10.04
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	8	.12	.024	.31
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeth					0	0	0	0					42	4.26	.013	.41	0	0	0	0	0	0	0	0	1441	22.04	.840	10.98
Ostracoda					0	0	0	0					8	.81	.005	.61	0	0	0	0	0	0	0	0	2897	44.31	1.88	24.58
Pelecypoda					0	0	0	0					17	1.72	.026	.82	0	0	0	0	0	0	0	0	569	8.70	.888	11.61
Others					0	0	0	0					8	.81	.005	.16	0	0	0	0	0	0	0	0	25	.38	.309	4.04
Total					9102		28876						987		3.167		2043		4.134		33		.116		6538		7.649	

TABLE IV A-4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPP	10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	sample		8	.13	.012	.11		No	sample		34	12.69	.047	1.12	8	.67	.012	.33	0	0	0	0	42	35.90	.059	4.35
Amphipoda					5955	98.35	9.024	86.32					25	9.33	.105	2.51	1005	84.10	1.658	46.00	0	0	0	0	8	6.84	.035	2.58
Annellida					0	0	0	0					50	18.66	.016	.38	8	.67	.002	.06	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					25	.41	.071	.68					0	0	0	0	8	.67	.023	.64	0	0	0	0	8	6.84	.023	1.70
Gastropoda					59	.97	1.334	12.76					117	43.66	3.495	83.65	158	13.22	1896	52.61	33	100.00	1.336	100.00	25	21.37	1.216	89.74
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostracoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	34	29.06	.022	1.62
Pelecypoda					8	0	.013	0					0	0	0	0	8	.67	.013	.36	0	0	0	0	0	0	0	0
Others					0	0	0	0					.42	0	0	12.33	0	0	0	0	0	0	0	0	0	0	0	0
Total					6055		10.454						268		4.178		1195		3604		33		1.336		117		1.562	

TABLE IV A-4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPP	REP #2 10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	sample		25	.40	.035	.28		No	sample		25	.43	.035	.18	8	.32	.011	.02	251	57.7	.375	8.40	0	0	0	0
Amphipoda					5979	94.95	9.866	79.23					5527	96.07	9.12	47.15	2219	88.41	3.662	7.96	92	21.15	.385	8.63	0	0	0	0
Annellida					0	0	0	0					8	.14	.003	.02	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	8	.32	35.967	78.21	0	0	0	0	0	0	0	0
Diptera					42	.67	.12	.96					0	0	0	0	8	.32	.024	.05	0	0	0	0	0	0	0	0
Gastropoda					226	3.59	2.392	19.21					193	3.35	10184	52.65	209	8.33	5.78	12.57	59	13.56	3.38	75.75	0	0	0	0
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	8	.32	.024	.05	0	0	0	0	0	0	0	0
Oligochaeta					0	0	0	0					0	0	0	0	8	.32	.003	.01	0	0	0	0	0	0	0	0
Ostracoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	17	100.0	.010	100.0
Pelecypoda					25	.40	.039	.31					0	0	0	0	0	0	0	0	8	1.84	.013	.29	0	0	0	0
Others					0	0	0	0					0	0	0	0	42	1.67	.515	1.12	25	5.75	.309	6.93	0	0	0	0
Total					6297		12452						5753		19342		2510		45.986		435		4.462		17		.010	

TABLE IV A -4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: FITZ	REP #1 10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	sample		34	1.16	.047	.21		No	sample		8	.13	.012	.11	237	9.41	1.303	3.13	8	.25	.572	.25	25	.44	.035	.32
Amphipoda					2186	74.56	3.607	15.82					6080	98.80	10.599	94.10	209	8.37	.875	8.36	134	4.20	.560	11.80	192	3.37	.805	7.27
Annellida					0	0	0	0					9	.15	0	0	0	0	0	0	17	.53	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					42	1.43	.079	.35					17	.28	.048	.43	8	.32	.023	.22	126	3.95	.359	7.56	2378	41.57	6.802	61.40
Gastropoda					661	22.58	18.959	83.17					8	.13	.459	4.10	277	11.09	4.561	43.55	59	1.85	1.001	21.09	67	1.17	.195	1.76
Insecta					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					8	.13	.024	.21	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					0	0	0	0					8	.13	.005	.04	1156	46.30	.673	6.43	1658	51.94	.976	20.56	1131	19.77	.659	5.95
Ostracoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	544	9.51	.353	3.19
Pelecypoda					0	0	0	0					8	.13	.013	.12	327	13.10	.510	4.87	1173	36.25	1.829	38.53	1357	23.72	2.117	19.11
Others					8	.27	.103	.45					8	.13	.103	.91	285	11.41	3.502	33.44	17	.53	.010	.21	25	.44	.113	1.02
Total					2931		22.795						6154		11.263		2499		11.447		3192		5.307		5719		11.079	

TABLE IV A-4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: FITZ	REP #2 10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	sample		17	.38	.023	.12		No	sample		25	.39	.035	.29	277	7.29	.398	.68	0	0	0	0	25	.68	.035	.67
Amphipoda					4120	92.65	6.798	34.14					6130	96.72	10.598	88.78	1742	45.83	2.874	4.90	184	10.03	.77	24.21	50	1.37	.21	4.03
Annellida					9	.20	0	0					25	.39	.008	.07	59	1.55	.019	.03	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	17	.45	27.675	47.17	0	0	0	0	0	0	0	0
Diptera					0	0	0	0					75	1.18	.216	1.81	0	0	0	0	17	.93	.048	1.51	636	17.42	1.82	34.95
Gastropoda					293	6.59	13.089	65.72					66	1.04	.875	7.33	433	11.39	20.658	35.21	34	1.85	.709	22.3	75	2.05	.601	11.54
Insecta					0	0	0	0					0	0	0	0	17	.45	.012	.02	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	8	.22	.024	.46
Oligochaeta					8	.18	.005	.03					0	0	0	0	0	0	0	0	854	46.56	.498	15.66	1592	43.6	.928	17.82
Ostracoda					0	0	0	0					0	0	0	0	8	.21	.005	.01	8	.44	.005	.16	402	11.01	.26	4.99
Pelecypoda					0	0	0	0					0	0	0	0	109	2.87	.170	.29	737	40.19	1.15	36.16	846	23.17	1.32	25.35
Others					0	0	0	0					17	.27	.206	1.73	1139	29.97	6.856	11.69	0	0	0	0	17	.47	.01	.19
Total					4447		19.915						6338		11.938		3801		58.667		1834		3.18		3651		5.208	

TABLE IV A-4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPE	REP #1 10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No sample			159	2.01	.223	.99		No	sample		0	0	0	0	0	0	0	0	42	.73	.059	.46	17	.27	.023	.17
Amphipoda					5092	64.40	8.402	37.25					17	7.83	.070	3.29	678	8.35	1.119	5.76	302	5.27	1.260	9.75	1198	18.80	1.976	14.51
Annellida					1719	21.74	0	0					0	0	0	0	0	0	0	0	0	0	0	0	17	.21	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					251	3.17	.525	2.33					25	11.52	.071	3.33	226	2.78	.646	3.33	117	2.04	.335	2.59	352	5.52	1.006	7.39
Gastropoda					427	5.40	12108	53.68					75	34.56	1.871	87.84	3400	41.86	13.472	69.37	1993	34.79	7.867	60.86	1424	22.47	6.413	47.08
Insecta					8	.10	.016	.07					0	0	0	0	0	0	0	0	0	0	0	0	25	.39	.018	.13
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					50	.63	1.030	4.57					25	11.52	.008	.38	318	3.92	.102	.53	578	10.09	.186	1.44	1038	16.28	.615	4.51
Ostracoda					50	.63	.033	.15					0	0	0	0	678	8.35	.44	2.27	678	11.83	.440	3.40	335	5.26	.217	1.59
Pelecypoda					134	1.69	.209	.93					67	30.88	.105	4.93	2010	24.75	3.136	16.15	1625	28.36	2.535	19.61	1859	29.17	2.900	21.29
Others					17	.21	.010	.04					8	3.69	.005	.23	812	10.00	.505	2.60	394	6.88	.245	1.90	67	1.58	.042	3.33
Total					7907		22556						217		2.130		8122		19.42		5729		12.927		6332		13.210	

TABLE IV A-4 cont'd

BENTHOS COLLECTION DATA
NINE MILE POINT 1973

SITE: NMPE	REP #2 10 C				10 NC				20 C				20 NC				30				40				60			
DATE: 10/24/73	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%	#	%	Biom	%
Acari		No	Sample		109	1.46	.152	.68		No	sample		18	1.97	.023	.79	18	.31	.023	.15	34	.38	.047	.24	25	.43	.035	.33
Amphipoda					3785	50.83	6.246	28.08					301	32.90	1.26	43.06	192	3.31	.805	5.38	427	4.73	.704	3.63	1072	18.34	1.768	16.74
Annellida					963	12.93	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera					1642	22.05	3.119	14.02					310	33.88	.886	30.28	301	5.20	.862	5.76	217	2.40	.623	3.21	393	6.72	1.126	10.66
Gastropoda					461	6.19	9.379	42.17					42	4.59	.615	21.02	2646	45.67	10.281	68.69	2722	30.12	12.183	62.83	871	14.9	3.812	36.10
Insecta					0	0	0	0					0	0	0	0	8	.14	.016	.11	0	0	0	0	0	0	0	0
Isopoda					0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oligochaeta					84	1.13	.610	2.74					134	14.64	.043	1.47	636	10.98	.205	1.37	1809	20.02	1.055	5.44	1038	17.76	.605	5.73
Ostracoda					84	1.13	.054	.24					34	3.72	.021	.72	75	1.29	.048	.32	1356	15.01	.88	4.54	494	8.45	.32	3.03
Pelecypoda					109	1.46	.888	3.99					34	3.72	.052	1.78	1533	26.46	2.391	15.97	2102	23.26	3.279	16.91	1792	30.66	2.796	26.48
Others					209	2.81	1.793	8.06					42	4.59	.026	.89	385	6.64	.337	2.25	369	4.08	.620	3.20	159	2.72	.098	.93
Total					7446		22.241						915		2.926		5794		14.968		9036		19.391		5844		10.56	

APPENDIX IV-B

ANALYSIS OF VARIANCE TEST TABLES FOR BENTHOS, NINE MILE POINT 1973

TABLE IV B-1

ANALYSIS OF VARIANCE TEST TABLE FOR ALL BENTHIC ORGANISMS

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3.00	0.831	0.277	1.583
Transect	3.00	5.427	1.809	10.337
Date	2.00	0.272	0.136	0.777
Depth X Transect	9.00	1.867	0.207	1.183
Depth X Date	6.00	1.588	0.265	1.514
Transect X Date	6.00	2.355	0.392	2.24

STUDENT - NEWMAN -KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	3.053	3.282	3.554	3.965
TRANSECT	NMPP	NMPW	FITZ	NMPE

TABLE IV B-2

ANALYSIS OF VARIANCE TEST TABLE FOR ALL BENTHIC ORGANISMS

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	1.203	0.401	4.092
Transect	3	1.552	0.517	5.276
Date	2	0.013	0.007	0.071
Depth X Transect	9	0.551	0.061	0.622
Depth X Date	6	0.432	0.072	0.735
Transect X Date	6	1.152	0.192	1.959

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	2.771	2.954	2.98	3.217
DEPTH	40	30	60	10

RANK	1	2	3	4
MEAN	2.803	2.859	2.993	3.269
TRANSECT	NMPW	NMPP	FITZ	NMPE

TABLE IV B-3

ANALYSIS OF VARIANCE TEST TABLE FOR AMPHIPODA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	8.684	2.895	5.564 *
Transect	3	8.039	2.679	5.150 *
Date	2	0.485	0.242	0.466
Depth X Transect	9	7.409	0.823	1.582
Depth X Date	6	1.322	0.220	0.423
Transect X Date	6	5.817	0.969	1.864

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	2.415	2.465	2.575	3.458
DEPTH	40'	30'	60'	10'
RANK	1	2	3	4
MEAN	2.286	2.386	2.965	3.277
TRANSECT	NMPW	NMPP	FITZ	NMPE

TABLE IV B-4

ANALYSIS OF VARIANCE TEST TABLE FOR AMPHIPODA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	1.194	0.398	6.317 *
Transect	2	0.773	0.258	4.095 *
Date	2	0.566	0.283	4.492 *
Depth X Transect	9	1.035	0.115	1.825
Depth X Date	6	0.341	0.057	0.905
Transect X Date	6	0.734	0.122	1.937

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	2.220	2.283	2.320	2.629
DEPTH	40'	60'	30'	10'
RANK	1	2	3	
MEAN	2.209	2.437	2.442	
DATE	JUNE	OCTOBER	AUGUST	
RANK	1	2	3	4
MEAN	2.237	2.249	2.426	2.541
TRANSECT	NMPW	NMPP	FITZ	NMPE

TABLE IV B-5

ANALYSIS OF VARIANCE TEST TABLE FOR TRICCADIDA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	2.50	0.833	1.306
Transect	3	1.64	0.545	0.854
Date	2	13.58	6.789	10.635
Depth X Transect	9	3.60	0.400	0.627
Depth X Date	6	1.76	0.294	0.460
Transect X Date	6	6.12	1.020	1.598

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3
MEAN (LOG_{10})	0.0785	0.517	1.360
DATE	August	October	June

TABLE IV B-6

ANALYSIS OF VARIANCE TEST TABLE FOR TRICCADIDA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.174	0.058	1.381
Transect	3	0.079	0.026	0.619
Date	2	0.686	0.343	8.167
Depth X Transect	9	0.194	0.022	0.524
Depth X Date	6	0.304	0.051	1.214
Transect X Date	6	2.471	0.046	1.095

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3
MEAN (LOG_{10})	2.0051	2.0655	2.2834
DATE	August	October	June

TABLE IV B-7

ANALYSIS OF VARIANCE TEST TABLE FOR NEMATA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	2.453	0.818	1.167
Transect	3	44.737	14.912	14.402
Date	2	1.876	0.938	2.235
Depth X Transect	9	6.309	0.701	8.217
Depth X Date	6	0.299	0.049	0.584
Transect X Date	6	2.519	0.419	4.921

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	0	0.0795	1.1889	2.3703
TRANSECT	NMPP	NMPW	FITZ	NMPE

TABLE IV B-8

ANALYSIS OF VARIANCE TEST TABLE FOR NEMATA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.012	0.004	0.800
Transect	3	0.076	0.025	5.00
Date	2	0.003	0.001	0.20
Depth X Transect	9	0.044	0.005	5.00
Depth X Date	6	0.007	0.001	1.00
Transect X Date	6	0.003	0.000	0.00

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	0.00	0.00	2.0207	2.0965
TRANSECT	NMPW	NMPP	FITZ	NMPE

TABLE IV B-9

ANALYSIS OF VARIANCE TEST TABLE FOR GASTROPODA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	1.278	0.426	0.423
Transect	3	14.377	4.792	4.763
Date	2	6.386	3.193	7.75
Depth X Transect	9	9.058	1.006	3.525
Depth X Date	6	4.262	0.710	1.723
Transect X Date	6	3.614	0.602	1.460

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	1.684	1.839	2.033	3.083
TRANSECT	FITZ	NMPP	NMPW	NMPE

RANK	1	2	3
MEAN	1.644	2.399	2.44
DATE	JUNE	OCTOBER	AUGUST

TABLE IV B-10

ANALYSIS OF VARIANCE TEST TABLE FOR GASTROPODA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	1.471	0.490	3.224
Transect	3	1.636	0.545	3.586
Date	2	1.314	0.657	4.322
Depth X Transect	9	0.689	0.077	0.507
Depth X Date	6	0.502	0.084	0.553
Transect X Date	6	0.403	0.067	0.441

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	
MEAN (LOG_{10})	2.340	2.667	2.675	
DATES	JUNE	AUGUST	OCTOBER	
RANK	1	2	3	4
MEAN	2.416	2.458	2.468	2.795
TRANSECT	FITZ	NMPW	NMPP	NMPE
RANK	1	2	3	4
MEAN	2.406	2.459	2.498	2.851
DEPTH	40	60	30	10

TABLE IV B-11

ANALYSIS OF VARIANCE TEST TABLE FOR PELECYPODA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	6.087	2.029	1.417
Transect	3	42.348	14.116	9.855
Date	2	2.286	1.143	2.465
Depth X Transect	9	12.892	1.432	3.088
Depth X Date	6	3.623	0.604	1.302
Transect X Date	6	4.879	0.813	1.753

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	0.6286	0.6298	1.6795	2.9093
TRANSECT	NMPW	NMPP	FITZ	NMPE

TABLE IV B-12

ANALYSIS OF VARIANCE TEST TABLE FOR PELECYPODA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.566	0.189	3.15
Transect	3	1.944	0.648	10.80
Date	2	0.038	0.019	1.462
Depth X Transect	9	0.537	0.060	4.615
Depth X Date	6	0.066	0.011	0.846
Transect X Date	6	0.146	0.024	1.846

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	2.020	2.069	2.202	2.536
TRANSECT	NMPP	NMPW	FITZ	NMPE

TABLE IV B-13

ANALYSIS OF VARIANCE TEST TABLE FOR OLIGOCHAETA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	4.782	1.594	3.167
Transect	3	27.225	9.075	18.027
Date	2	11.307	5.654	11.231
Depth X Transect	9	10.056	1.117	2.20
Depth X Date	6	5.969	0.995	1.976
Transect X Date	6	4.496	0.749	1.488

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	0.666	0.803	2.076	2.283
TRANSECT	NMPP	NMPW	FITZ	NMPE
RANK	1	2	3	4
MEAN	0.994	1.311	1.595	1.838
DEPTH	10'	30'	40'	60'
RANK	1	2	3	
MEAN	0.845	1.498	1.994	
DATE	AUGUST	OCTOBER	AUGUST	

TABLE IV B-14

ANALYSIS OF VARIANCE TEST TABLE FOR OLIGOCHAETA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.016	0.005	0.625
Transect	3	0.104	0.035	4.375
Date	2	0.069	0.035	4.375
Depth X Transect	9	0.052	0.006	0.750
Depth X Date	6	0.009	0.001	0.125
Transect X Date	6	0.053	0.009	1.125

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	2.0104	2.0134	2.0978	2.1112
TRANSECTS	NMPW	NMPP	NMPE	FITZ
RANK	1	2	3	
MEAN	2.0049	2.0792	2.0906	
DATE	AUGUST	JUNE	OCTOBER	

TABLE IV B-15

ANALYSIS OF VARIANCE TEST TABLE FOR TRICHOPTERA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.4653	0.155	0.699
Transect	3	0.8421	0.281	4.215
Date	2	0.5937	0.297	1.338
Depth X Transect	9	1.019	0.113	1.700
Depth X Date	6	1.331	0.222	3.330
Transect X Date	6	0.954	0.159	2.387

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	0	0.0795	0.159	0.357
TRANSECT	NMPP	FITZ	NMPW	NMPW

TABLE IV B-16

ANALYSIS OF VARIANCE TEST TABLE FOR DIPTERA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	1.807	0.602	1.316
Transect	3	20.865	6.955	15.199
Date	2	2.135	1.067	2.333
Depth X Transect	9	6.334	0.704	1.538
Depth X Date	6	14.947	2.491	5.444
Transect X Date	6	2.306	0.384	0.840

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3	4
MEAN (LOG_{10})	0.984	1.484	2.141	2.728
TRANSECT	NMPW	NMPP	FITZ	NMPE

TABLE IV B-17

ANALYSIS OF VARIANCE TEST TABLE FOR DIPTERA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.246	0.082	0.345
Transect	3	0.566	0.189	0.021
Date	2	0.110	0.055	0.229
Depth X Transect	9	0.609	0.068	2.615
Depth X Date	6	1.176	0.196	7.538
Transect X Date	6	0.420	0.070	2.692

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK

MEAN (LOG_{10})

TABLE IV B-18

ANALYSIS OF VARIANCE TEST TABLE FOR DECAPODA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.360	0.120	1.726
Transect	3	0.209	0.069	1.000
Date	2	0.493	0.247	3.543 *
Depth X Transect	9	1.081	0.120	1.726
Depth X Date	6	0.266	0.044	0.636
Transect X Date	6	0.417	0.069	1.000

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3
MEAN (LOG_{10})	0	0.059	0.239
DATE	OCTOBER	AUGUST	JUNE

TABLE IV B-19

ANALYSIS OF VARIANCE TEST TABLE FOR DECAPODA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.163	0.054	0.607
Transect	3	0.157	0.052	0.584
Date	2	0.668	0.334	3.753 *
Depth X Transect	9	0.902	0.100	1.124
Depth X Date	6	0.270	0.045	0.506
Transect X Date	6	0.301	0.050	0.562

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3
MEAN (LOG_{10})	2.000	2.009	2.255
DATE	OCTOBER	AUGUST	JUNE

TABLE IV B-20

ANALYSIS OF VARIANCE TEST TABLE FOR ISOPODA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.867	0.289	0.625
Transect	3	1.518	0.506	1.093
Date	2	0.387	0.194	1.62
Depth X Transect	9	4.165	0.463	3.888 *
Depth X Date	6	1.121	0.187	1.571
Transect X Date	6	0.282	0.047	0.395

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK

MEAN (LOG_{10})

TABLE IV B-21

ANALYSIS OF VARIANCE TEST TABLE FOR ISOPODA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.005	0.002	0.878
Transect	3	0.006	0.002	1.046
Date	2	0.001	0.001	0.958
Depth X Transect	9	0.018	0.002	4.104 *
Depth X Date	6	0.003	0.001	0.938
Transect X Date	6	0.002	0.001	0.542

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK

MEAN (LOG_{10})

TABLE IV B-22

ANALYSIS OF VARIANCE TEST TABLE FOR OSTRACODA

BASED ON ABUNDANCE

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	7.494	2.498	2.601
Transect	3	11.160	3.720	2.691
Date	2	20.348	10.174	5.013 *
Depth X Transect	9	5.882	0.654	2.084
Depth X Date	6	5.764	0.961	3.063 *
Transect X Date	6	8.295	1.382	4.408 *

STUDENT - NEWMAN-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3
MEAN (LOG_{10})	1.348	1.776	2.892
DATE	OCTOBER	AUGUST	JUNE

TABLE IV B-23

ANALYSIS OF VARIANCE TEST TABLE FOR OSTRACODA

BASED ON BIOMASS

SOURCE	DEGREES OF FREEDOM	SUM OF SQUARE	MEAN SQUARE	F-RATIO
Depth	3	0.109	0.036	0.735
Transect	3	0.109	0.036	3.600
Date	2	0.382	0.191	3.898 *
Depth X Transect	9	0.198	0.022	2.200
Depth X Date	6	0.296	0.049	4.900 *
Transect X Date	6	0.118	0.020	2.000

STUDENT - NEWMAN.-KUELS PROCEDURE FOR DETERMINING SOURCE OF PRIMARY PARAMETER SIGNIFICANCE. GROUPS UNDERSCORED BY A SINGLE LINE ARE NOT SIGNIFICANTLY DIFFERENT AT $p<0.05$.

RANK	1	2	3
MEAN (LOG_{10})	2.060	2.072	2.256
DATE	OCTOBER	AUGUST	JUNE

TABLE IV B-24

NINE MILE POINT ECOLOGICAL SURVEY

F - Table Values

	α = .05	α = .01
F 2, 1	200	4,999
F 2, 6	5.14	10.92
F 2, 9	4.26	8.02
F 2, 18	3.55	6.01
F 3, 2	19.16	99.17
F 3, 6	4.76	9.78
F 3, 8	4.07	7.59
F 3, 9	3.86	6.99
F 3, 11	3.59	6.22
F 3, 18	3.16	5.09
F 6, 18	2.66	4.01
F 9, 18	2.46	3.60

APPENDIX IV-C

NINE MILE POINT BOTTOM PERIPHYTON

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.			3929	8214	357	1786	7857	10000			357	62
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.	20000				1429							
Chlorella sp.		55000			7143	45714					3214	
C. vulgaris												
Cladophora sp.	898	26188	294		3900	1717	519					372
Closteriopsis longissima			3214	2857			10357	28571			357	247
Closterium spp.				357	7143	2143	357	1429				247
Coelastrum microporum												
Cosmarium sp.							357					
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans							35714					
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina					3571							
G. radiata												
Hyalotheca sp.						1429			1389	124	2500	
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata					714	357.						
[illegible] pusillum									278			
Mougeotia sp.	22857		1785	34643	10714	10714	20714	42857	444	74		556

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex								12857				
P. simplex												
P. tetras								11428				
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga										25		
S. denticulatus												
S. dimorphus												
S. longus				2857								
S. obliquus												
S. quadricauda			1428	357	11428	2857	1429	8571	111	148	1429	49
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.			714									
Sphaerocystis sp.												
S. Schroteri				5714								
Spirogyra sp.	6429		7140	1786		1786	2857	10000	139	1667		99
Staurastrum sp.										25		
S. gracile												
Stigeoclonium tenue		17857		125356		31071	1786				5357	445
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima	11428					17857	7143				3571	963
U. zonata		21428		3571								222
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular			21428	13214					167	136		
UID zygospore	4643	714		9286	16071	3571						
TOTAL GREENS	66255	121187	39932	208212	62470	121002	89090	125713	2528	2199	16785	3262
% OF TOTAL	36.3	86.7	27.8	56.3	15.1	63.0	38.4	57.9	11.9	59.3	34.6	34.8
B. EUGLENOIDS												
Euglena sp.											357	
TOTAL EUGLENOIDS											357	
% OF TOTAL											0.7	
C. GOLDEN-BROWNS												
Dinobryon sp.										12		136
Synura sp.										62		
TOTAL GOLDEN-BROWNS										74		136
% OF TOTAL										2.0		1.5
D. DIATOMS												
Asterionella formosa			2142	1071			1071	1429	833	111		432
Cocconeis sp.												
Coscinodiscus subtilis												
Cyclotella sp.	1786	8571	3928	10714	27500	5714	714	4286	1250	25	3929	25
Cymbella sp.												
Diatoma elongatum	69642	7143	22142	21786	55357	11071	26786	11428	3806	556	4643	1396
D. vulgare			4286				3929					247

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)

NINE MILE POINT BOTTOM PERIPHYTON

CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina			714									568
F. crotonensis	13571		14286	13928	67142	15714			1833	12	4286	222
Gyrosigma spp.										12		
Melosira sp.			7140	1786	12143		3571		2306			568
Meridion circulare												
Navicula spp.		714	1786	1071	3571		2500	2143	111	86	1429	420
N. tripunctata									250			
Nitzschia sp.							3214					
N. linearis							4643					346
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata	357				357							
Stephanodiscus sp.										25	357	12
S. Hantzschii				357	1071				333			
Surirella sp.						357			28			
Synedra sp.				357	83214	714	2857	714	250	99	4999	99
Tabellaria sp.						1071	9643		333			
T. fenestrata												
TOTAL DIATOMS	85356	16428	56424	51070	250355	34641	58928	20000	11333	926	19643	4335
% OF TOTAL	46.8	11.8	39.3	13.8	60.9	18.0	25.4	9.2	53.2	25.0	40.4	46.3
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.				3571			6071	7857		173		272
A. spiroides												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.	12500		15714	12143	5357	18571	42500	38571			1429	729
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii	2143	2143	17143	33928	72499	12500	18928	25000	7444	333	8929	630
L. aerugineo-coerulea												
Merismopedia sp.					11428		5714					
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.	5357		14285	28571	9286	5357					1429	
P. mucicola												
UID filamentous	10714			32143			10714					
TOTAL BLUE-GREENS	30714	2143	47142	110356	98570	36428	83927	71428	7444	506	11787	1631
% OF TOTAL	16.9	1.5	32.9	29.9	24.0	19.0	36.2	32.9	34.9	13.7	24.3	17.4
TOTAL ALGAE	182325	139758	143498	369638	411395	192071	231945	217141	21305	3705	48572	9364
% OF GRAND TOTAL	91.6	96.6	97.6	99.4	90.9	95.0	88.2	97.1	72.0	80.0	93.1	58.0
G. PROTOZOANS												
Acineta sp.	5714						3929		28			321
Anarma sp.												
Astrophrya sp.									278	284	714	531
Carchesium sp.												
Cephalothamnion sp.					1071	1429			167			2174
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.	714		357		3214	357			139	99		136
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.												
Tokophrya sp.	5714	2143	714		16428	714	714				357	
Vorticella sp.	4286	2857	2500	1786	5357	6071	26428	6429	5278	445	1071	3606
Zoothamnium sp.												
UID Acinetidae												12
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata										12		
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae	357			357	15000	1429			2389		1429	
UID Gymnostomina										12		
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha										74		
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	16785	5000	3571	2143	41070	10000	31071	6429	8279	926	3571	6780
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	16785	5000	3571	2143	41070	10000	31071	6429	8279	926	3571	6780
% OF GRAND TOTAL	8.4	3.4	2.4	0.6	9.1	5.0	11.8	2.9	28.0	20.0	6.9	42.00
GRAND TOTAL	199110	144758	147069	371781	452465	202071	263016	223570	29584	4631	52143	16144

TABLE IV C-1 (continued)

DATE 6/29/73
EXPOSURE TIME 2 wks.

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.					1585							
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima		6			2376							
Closterium spp.		43	6									
Coelastrum microporum												
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans	272											
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.			62		6338							
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.					3961							

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (Continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex												
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga												
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus												
S. quadricauda	49	25		25	3169	25	25					
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.	272		136			62	43					
Staurastrum sp.		19										
S. gracile												
Stigeoclonium tenue												
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima	148	80	228	124								
U. zonata	74	148										
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid		19										
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular						12						
UID zygospore												
TOTAL GREENS	815	340	432	149	17429	99	68					
% OF TOTAL	37.3	11.6	21.7	7.8	9.9	11.5	8.0					
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.				6								
Synura sp.												
TOTAL GOLDEN-BROWNS				6								
% OF TOTAL				0.3								
D. DIATOMS Amphiprora sp.				56								
Asterionella formosa	303	506	179	179	34067	185	167					
Cocconeis sp.				68								
Coscinodiscus subtilis												
Cyclotella sp.	56	12		12	6338							
Cymbella sp.												
Diatoma elongatum	333	827	383	210	22975	136	31					
D. vulgare	12	124	364	25								

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis	222	111	124	130		12						
Gyrosigma spp.	19	19										
Melosira sp.	93		124	68	21692	49	49					
Meridion circulare												
Navicula spp.	6	93	56	130	1584	37	19					
N. tripunctata												
Nitzschia sp.												
N. linearis												
N. signiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.				19		37	80					
S. Hantzschii					10299							
Surirella sp.												
Synedra sp.	62	62	49	99	1584	12	31					
Tabellaria sp.			99	31	2377							
T. fenestrata												
TOTAL DIATOMS	1106	1754	1378	1027	100916	468	377					
% OF TOTAL	50.6	60.0	69.1	53.6	57.5	54.2	44.6					
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.		618		198								
A. spiroides												

DATE 6/29/73
EXPOSURE TIME 2 wks

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.		49	173	37	6338							
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Diqueii	266	161	12	500	46743	296	401					
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.					3961							
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	266	828	185	735	57042	296	401					
% OF TOTAL	12.2	28.3	9.3	38.3	32.5	34.3	47.4					
TOTAL ALGAE	2197	2922	1995	1917	175387	863	846					
% OF GRAND TOTAL	57.9	27.5	43.4	86.1	92.5	92.2	29.4					
G. PROTOZOANS												
Acineta sp.	56	778	290	68			80					
Anarma sp.												
Astrophrya sp.	49	272	216	6	4753	49						
Carchesium sp.												
Cephalothamnion sp.			296				482					
Codonella sp.	19	6			3169							
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.		142	228			12	62					
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.												
Tokophrya sp.					792							
Vorticella sp.	1408	6459	1575	124	5546	12	1118					
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda		31										
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina	12	19		19								
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda	43			86			6					
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	1587	7707	2605	303	14260	73	1748					
% OF TOTAL	100.0	99.8	100.0	98.1	100.0	100.0	86.0					
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis		12										
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 6/29/73
EXPOSURE TIME 2 wks.

TABLE IV C-1 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
TOTAL ROTIFERS		12										
% OF TOTAL		0.2										
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS							284					
% OF TOTAL							14.0					
GASTROPODS				6								
% OF TOTAL				2.0								
TOTAL FAUNA	1587	7719	2605	309	14260	73	2032					
% OF GRAND TOTAL	42.1	72.5	56.6	13.9	7.5	7.8	70.6					
GRAND TOTAL	3774	10641	4600	2226	189647	936	2878					

DATE 7/16/73
EXPOSURE TIME 2.4 wks

TABLE IV C-2
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.			535									
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum									2069			
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris	949											
Cladophora sp.												
Closteriopsis longissima					785				2069	1070		
Closterium spp.												
Coelastrum microporum							65051					
Cosmarium sp.				1997								
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. amola												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.								23538				

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum				31955								
P. duplex												
P. simplex										34237		
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga				15977								
S. denticulatus												
S. dimorphus							10842					
S. longus												
S. obliquus												
S. quadricauda			6420	47933			16263	56492	28959		2796	6391
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile												
Stigeoclonium tenue				2041126				341305				
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular								2354	20685			
UID zygospore												
TOTAL GREENS	949		6955	2138988	785		92156	423689	53782	35307	2796	6391
% OF TOTAL	10.0		13.3	91.9	1.9		69.4	55.7	23.2	63.5	66.7	17.4
B. EUGLENOIDS												
Euglena sp.								7061				
TOTAL EUGLENOIDS								7061				
% OF TOTAL								0.9				
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa									4137			
Cocconeis sp.				7989				2354				
Coscinodiscus subtilis												
Cyclotella sp.	5692		4280	1997	3138		23039	2554		5350		
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.				3994								
F. capucina												
F. crotonensis												
Gyrosigma spp.			535						10343			
Melosira sp.												
Meridion circulare												
Navicula spp.	2846		4280	13980	7061		10842	32954	97220	10699	699	15977
N. tripunctata								9415			699	12782
Nitzschia sp.			535									
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.			1605				2710		12411	2140		
S. Hantzschii												
Surirella sp.									2069			
Synedra sp.									6206			
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	8538		11235	27960	10199		36591	47077	132386	18189	1398	28759
% OF TOTAL	90.0		21.4	1.2	25.0		27.6	6.2	57.1	32.7	33.3	78.3
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum										1070		
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES										1070		
% OF TOTAL										1.9		
F. BLUE-GREENS												
Anabaena sp.				19972	10985				6206			
A. spiroides												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.				15978	18831			4708	37233			
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii				125823			4066	277752	2069	1070		1598
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca			34237									
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS			34237	161773	29816		4066	282460	45508	1070		1598
% OF TOTAL			65.3	6.9	73.1		3.1	37.2	19.6	1.9		4.3
TOTAL ALGAE	9487		52427	2328721	40800		132813	760287	231676	55636	4194	36748
% OF GRAND TOTAL	66.7		82.4	99.8	23.7		83.8	99.1	10.4	80.0	20.0	88.5
G. PROTOZOANS												
Acineta sp.					3923		1355		18617	1070	699	
Anarma sp.												
Astrophrya sp.					785				2069	1070		
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.	4743		6420		108276		13552				12582	
Paracineta sp.												
Periacineta sp.												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.									4137			
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.								2354		2140		
Tokophrya sp.					785					1070	2097	
Vorticella sp.			4815	3994	17261		10842		2069	8559	1398	4793
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae								2354				
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda								2354				
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	4743		11235	3994	131030		25749	7062	26892	13909	16776	4793
% OF TOTAL	100.0		100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	4743	11235	3994	131030	25749	7062	26892	13909	16776	4793		
% OF GRAND TOTAL	33.3	17.6	0.2	76.3	16.2	0.9	10.4	20.0	80.0	11.5		
GRAND TOTAL	14230	63662	2332715	171830	158562	767349	258568	69545	20970	41541		

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.	1548	2140										
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima					1248							
Closterium spp.												
Coelastrum microporum												
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa		8559										
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.			3638	7989								

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei				3195								
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex												
P. simplex	1548						11412					
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans	6191											
S. acuminatus												
S. bijuga												
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus												
S. quadricauda	61911	8559	4850	12782		22254						
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile	1548											
Stigeoclonium tenue												
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima		21398										
U. zonata												
UID biflagellated cell				799								
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular	3096											
UID zygospore												
TOTAL GREENS	75842	40656	8488	24765	1248	22254	11412					
% OF TOTAL	36.3	45.2	10.1	58.5	10.0	80.0	94.1					
B. EUGLENOIDS												
Euglena sp.				799			713					
TOTAL EUGLENOIDS				799			713					
% OF TOTAL				1.9			5.9					
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa			1213									
Cocconeis sp.												
Coscinodiscus subtilis												
Cyclotella sp.	51076		15764	799	2496							
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis	23217		8488									
Gyrosigma spp.	6346		8488			2782						
Melosira sp.			4850									
Meridion circulare												
Navicula spp.	17025	47077	12126	799	2496	2782						
N. tripunctata												
Nitzschia sp.		2140										
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.	23217		9701		1248							
S. Hantzschii												
Surirella sp.												
Synedra sp.	3096		1213									
Tabellaria sp.			3638									
T. fenestrata												
TOTAL DIATOMS	123977	49217	65481	1598	6240	5564						
% OF TOTAL	59.3	54.8	78.3	3.8	50.0	20.0						
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.	3096											
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii	6191		9701	2397	4993							
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca				12782								
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	9287		9701	15179	4993							
% OF TOTAL	4.4		11.6	35.8	40.0							
TOTAL ALGAE	209106	89873	83670	42341	12481	27818	12125					
% OF GRAND TOTAL	87.7	97.7	97.2	88.3	26.3	24.4	14.5					
G. PROTOZOANS												
Acineta sp.	15478	2140		799	34950	11127	7846					
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.							8559					
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.						8345	35664					
Paracineta sp.												
Periacineta sp.												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.				799			2140					
Tokophrya sp.						63981						
Vorticella sp.	13930		1213	3994		2782	17119					
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina			1213									
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	29408	2140	2426	5592	34950	86235	71328					
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												

DATE 7/16/73
EXPOSURE TIME 2.4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	29408	2140	2426	5592	34950	86235	71328					
% OF GRAND TOTAL	12.3	2.3	2.8	11.7	73.7	75.6	85.5					
GRAND TOTAL	238514	92013	86096	47933	47431	114053	83453					

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.									3695			
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris	1248											
Cladophora sp.				55								
Closteriopsis longissima												
Closterium spp.											250	
Coelastrum microporum												
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum				44935								
P. duplex												
P. simplex												
P. tetras				8987								
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga												
S. denticulatus												
S. dimorphus				40442								
S. longus												
S. obliquus												
S. quadricauda				148287					29557			32353
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile												
Stigeoclonium tenue	37446			2482681								
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima	14978											
U. zonata												
UID biflagellated coll.												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular							674					
UID zygospore												
TOTAL GREENS	53672			2725387			674		33252		250	32353
% OF TOTAL	66.2			81.8			6.3		12.7		14.3	60.0
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis					1548				14779			
Cyclotella sp.	1248			14604	10834		4044		18473		250	2696
Cymbella sp.												
Diatoma elongatum												
D. vulgare					1548				1847			

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis							2022					
Gyrosigma spp.					1548				24015			
Melosira sp.												
Meridion circulare									1847			
Navicula spp.	2496			21344	9287		2022		166261	14123	999	10784
N. tripunctata										4708		5392
Nitzschia sp.	1248											
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.											250	
S. Hantzschii												
Surirella sp.												
Synedra sp.												2696
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	4992			35948	24765		8088		227222	18831	1499	21568
% OF TOTAL	6.1			1.1	100.0		75.0		86.6	100.0	85.7	40.0
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.	22468											
A. spiroides												

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.				14604			1348					
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii				557198			674		1847			
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	22468			571802			2022		1847			
% OF TOTAL	27.7			17.2			18.8		0.7			
TOTAL ALGAE	81132			3333137	24765		10784		262321	18831	1749	53921
% OF GRAND TOTAL	36.3			99.7	15.4		28.1		90.4	40.0	14.3	80.0
G. PROTOZOANS												
Acineta sp.					18573				11084		250	2696
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.	142295				95962		20221		3695		7240	
Paracineta sp.												
Periacineta sp.												

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.											499	
Tokophrya sp.					4643						250	
Vorticella sp.				8987	17025		6066		12931	26677	1997	10784
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae										1569		
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina							674					
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda							674				250	
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	142295			8987	136203		27635		27710	28246	10486	13480
% OF TOTAL	100.0			100.0	100.0		100.0		100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												

DATE 7/16/73
EXPOSURE TIME 4.0 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	142295			8987	136203		27635		27710	28246	10486	13480
% OF GRAND TOTAL	63.7			0.3	84.6		71.9		9.6	60.0	85.7	20.0
GRAND TOTAL	223427			3342124	160968		38419		290031	47077	12235	67401

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii		2283										
Ankistrodesmus sp.												
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum							1098					
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.				23453								
Closteriopsis longissima												
Closterium spp.												
Coelastrum microporum												
Cosmarium sp.						467						
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex		36520										
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga												
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus												
S. quadricauda				11726		467						
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Schaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile	1847											
Stigeoclonium tenue												
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous	22168											
UID flagellate												
UID quadriflagellate												
UID unicellular												
UID zygospore												
TOTAL GREENS	24015	38803		35179		934	1098					
% OF TOTAL	39.4	87.2		57.1		42.1	8.3					
B. EUGLENOIDS												
Euglena sp.						467						
TOTAL EUGLENOIDS						467						
% OF TOTAL						21.1						
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis	12931											
Cyclotella sp.							8787					
Cymbella sp.												
Diatoma elongatum												
D. vulgare				2932								

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.	5542			5863								
Melosira sp.					1291							
Meridion circulare	1847											
Navicula spp.	14779	5706		17589		233						
N. tripunctata							3295					
Nitzschia sp.												
N. linearis												
N. signiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.	1847				258	853						
S. Hantzschii												
Surirella sp.												
Synedra sp.												
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	36946	5706		26384	1549	816	12082					
% OF TOTAL	60.6	12.8		42.9	100.0	36.8	91.7					
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.												
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii			2568									
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS			2568									
% OF TOTAL			100.0									
TOTAL ALGAE	60961	44509	2568	61563	1549	2217	13180					
% OF GRAND TOTAL	86.8	66.1	7.4	91.3	24.0	67.8	41.4					
G. PROTOZOANS												
Acineta sp.	1847	1141		2932	2712	350	9886					
Anarma sp.												
Astrophrya sp.					258	117						
Carchesium sp.			10271									
Cephalothamnion sp.			10271									
Codonella sp.				2932								
Codonocladium sp.												
Didinium sp.												
Epistylis sp.		15978	5136				2197					
Paracineta sp.												
Periacineta sp.												

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.					775							
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.						467						
Tokophrya sp.					387							
Vorticella sp.	7389	5706	6420		647		6591					
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina					129							
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae						117						
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	9236	22825	32098	5864	4908	1051	18674					
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 7/16/73
EXPOSURE TIME 4 wks.

TABLE IV C-2 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	9236	22825	32098	5864	4908	1051	18674					
% OF GRAND TOTAL	13.2	33.9	92.6	8.7	76.0	32.2	58.6					
GRAND TOTAL	70197	67334	34666	67427	6457	3268	31854					

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.												1355
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.								59				
Closteriopsis longissima												
Closterium spp.				7989				20371				1355
Coelastrum microporum				127820				38345				
Cosmarium sp.				38027				10784				
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans								19172				
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.					5992			11983				1355

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei				7989				4793			4394	1355
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum				703010								
P. duplex				95865				172552				21684
P. simplex								19172				
P. tetras				287595				182138				
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga				159775			7589	148586		20770		8131
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus				31955				16776				
S. quadricauda				223605			3795	124621		25963	34051	16263
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												1355
Spirogyra sp.												
Staurastrum sp.										2596		
S. gracile								1198				
Stigeoclonium tenue	27461			99859	4494			59914				
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous											5492	
UID flagellate											3295	1355
UID quadriflagellate												
UID unicellular							19921			109043		
UID zygospore				389452	13481			264818				5421
TOTAL GREENS	27461			2172941	23967		31305	1095282		158372	47232	59629
% OF TOTAL	86.2			60.6	15.2		68.7	49.7		46.4	21.2	60.3
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.										37646		
Synura sp.												
TOTAL GOLDEN-BROWNS										37646		
% OF TOTAL										11.0		
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.				7989	5992	1947	1897	3594			1098	
Coscinodiscus subtilis												
Cyclotella sp.	1648			5992	5992	1298	949			3894	1098	
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis								1198				
Gyrosigma spp.						1298	949	3595		1298	1098	
Melosira sp.												
Meridion circulare												
Navicula spp.	2746			431393	38945	6491	4743	451750		67503	149385	33881
N. tripunctata				15978		2596	3795	49129		67503	1098	1355
Nitzschia sp.							949			1298		
N. linearis												
N. sigmiodea												
N. vermicularis											1098	
Rhoicosphenia sp.												
R. curvata				3994			949				3295	
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.						649						
Synedra sp.											3295	1355
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	4394			465346	50929	14279	14231	509266		141496	161465	36591
% OF TOTAL	13.8			13.0	32.4	37.9	31.3	23.1		41.4	72.4	37.0
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre					2996					1298		
G. Pulvisculus												
Peridinium cinctum										1298		
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES					2996					2596		
% OF TOTAL					1.9					0.8		
F. BLUE-GREENS												
Anabaena sp.						23366						
A. spiroides												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON

CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20 NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.					35949							
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.										1298		
L. Digueii				884755	43439			426586			14279	2710
L. aerugineo-coerulea												
Merismopedia sp.				63910				172552				
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS				948665	69388	23366		599138		1298	14279	2710
% OF TOTAL				26.4	50.5	62.1		27.2		0.4	6.4	2.7
TOTAL ALGAE	31855			3586952	157280	37645	45536	2203686		341408	222976	98930
% OF GRAND TOTAL	81.7			100.0	24.6	51.8	66.7	100.0		69.0	59.5	42.9
G. PROTOZOANS												
Acineta sp.					25464					101254	2197	36591
Anarma sp.												
Astrophrya sp.											2197	
Carchesium sp.					10485						4394	
Cephalothamnion sp.					289093						19772	25749
Codonella sp.					34451						2197	
Codonocladium sp.												
Didinium sp.												
Epistylis sp.	2197				2996	31155	19921			12981	3295	
Paracineta sp.												
Periacineta sp.												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.						1298						
Staurophrya sp.												
Thecacineta sp.					10485					2596	1098	
Tokophrya sp.					2496							
Vorticella sp.					89873	2596	2846			32452	105448	24394
Zoothamnium sp.												
UID Acinetidae					14979					1298	7687	36591
UID Actinopoda												
UID Amphileptidae	2746											
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae										1298	1098	
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae											2197	
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda					1498					1298		8131
UID Sessilia												
UID Vorticellidae	2197											
UID Zooflagellata												
TOTAL PROTOZOANS	7140				482320	35049	22767			153177	151582	131456
% OF TOTAL	100.0				100.0	100.0	100.0			100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	7140				482320	35049	22767			153177	151582	131456
% OF GRAND TOTAL	18.3				75.4	48.2	33.3			31.0	40.5	57.1
GRAND TOTAL	38995			3586952	639600	72694	68303	2203686		494585	374558	230386

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.							593					
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima			1198									
Closterium spp.												
Coelastrum microporum												
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei		6391					2391					
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex												
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga												
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus												
S. quadricauda		3195	4793									
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri		3195					4799					
Spirogyra sp.												
Staurastrum sp.		799										
S. gracile												
Stigeoclonium tenue												
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate		799										
UID quadriflagellate												
UID unicellular												
UID zygospore		98259	82681				8394					
TOTAL GREENS		112638	88672				16177					
% OF TOTAL		79.2	75.5				42.9					
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis												
Cyclotella sp.		2397	2397				1198					
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis		1598	7190									
Gyrosigma spp.												
Melosira sp.												
Meridion circulare												
Navicula spp.		22368	15578				14379					
N. tripunctata		3195	2396				2391					
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.							593					
S. Hantzschii												
Surirella sp.												
Synedra sp.												
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS		29558	27561				18561					
% OF TOTAL		20.8	23.5				49.2					
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 7/30/73
EXPOSURE TIME 2.0 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.												
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii			1198				3002					
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS			1198				3002					
% OF TOTAL			1.0				8.0					
TOTAL ALGAE		142196	117431				37740					
% OF GRAND TOTAL		43.8	46.9				95.5					
G. PROTOZOANS												
Acineta sp.		98259	27560				593					
Anarma sp.												
Astrophrya sp.												
Carchesium sp.		3195										
Cephalothamnion sp.		19971										
Codonella sp.												
Codonocladium sp.			5991									
Didinium sp.												
Epistylis sp.		10385	45534									
Paracineta sp.												
Periacineta sp.												

DATE 7/30/73
EXPOSURE TIME 2 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.		19971	4793				593					
Tokophrya sp.		4793										
Vorticella sp.		11184	44336									
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae		799	2397									
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae			2397				593					
UID Peritricha												
UID Protozoan												
UID Rhizopoda		2397										
UID Sessilia												
UID Vorticellidae		11184										
UID Zooflagellata												
TOTAL PROTOZOANS		182138	133008				1779					
% OF TOTAL		100.0	100.0				100.0					
G. ROTIFERS												
Ascorrpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 7/30/73
EXPOSURE TIME 2 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA		182138	133008				1779					
% OF GRAND TOTAL		56.2	53.1				4.5					
GRAND TOTAL		324334	250439				39519					

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.											3969	999
A. Braunii												
A. falcatus	1048											
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.								678		94	94	
Closteriopsis longissima												
Closterium spp.								11413				
Coelastrum microporum								253928				
Cosmarium sp.								25678				
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.								125538				4993

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum								22825				
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei	4194							11413				3994
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus								102713				
P. biradiatum												
P. Boryanum								182600				
P. duplex	16776							370906				31954
P. simplex												15977
P. tetras												44935
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga	29358						23182	205425			5292	3994
S. denticulatus												
S. dimorphus	4194							11413				7989
S. longus												
S. obliquus												
S. quadricauda	16776						18545	342375			10585	35948
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri								45650				
Spirogyra sp.												
Staurastrum sp.												
S. gracile												
Stigeoclonium tenue	4726593						2146620	82741				
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima								17119			142894	
U. zonata												
UID biflagellated cell												
UID colonial								17119				
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular												
UID zygospore	125819						53318					302564
TOTAL GREENS	4924758						2241665	1829534		94	162834	456343
% OF TOTAL	38.7						91.1	19.0		0.2	37.4	5.2
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.											1323	
Synura sp.												
TOTAL GOLDEN-BROWNS											1323	
% OF TOTAL											0.3	
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.	2097						2318	14266				1997
Coscinodiscus subtilis	1048							5706				999
Cyclotella sp.	22018						4636	8554		3096	6615	11983
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina								85594				
F. crotonensis											2646	14978
Gyrosigma spp.	2097									5417	1323	1997
Melosira sp.												
Meridion circulare												
Navicula spp.	398426						162271	4776131		17025	190526	3079567
N. tripunctata	16776						2318	97006		7739	26462	173750
Nitzschia sp.							9273					1997
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata								2853				
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.								8559			1323	2996
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	442462						180816	4998674		33277	228895	3290264
% OF TOTAL	3.5						7.3	51.9		85.8	52.6	37.0
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus	4194							2853				
Peridinium cinctum										5417		
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES	4194							2853		5417		
% OF TOTAL	0.03							0.03		14.0		
F. BLUE-GREENS												
Anabaena sp.								34238				
A. spiroides												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.								45650				
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii	7363545						39409	2679084			42339	5140600
L. aerugineo-coerulea												
Merismopedia sp.								45650				
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	7363545						39409	2804622			42339	5140600
% OF TOTAL	57.8						1.6	29.1			9.7	57.8
TOTAL ALGAE	12734959						2461890	9635683		38788	435391	8887207
% OF GRAND TOTAL	100.0						99.3	99.8		34.3	98.2	99.4
G. PROTOZOANS												
Acineta sp.										20121	1323	
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.										40242		
Thecacineta sp.							2318			3096	2646	
Tokophrya sp.												
Vorticella sp.		7339					9273	5706		10834	3969	51925
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae								2853				
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina								5706				
UID Metacystidae							4636					
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS		7339					16227	14265		74293	7938	51925
% OF TOTAL		100.0					100.0	83.3		100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.								2853				
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS								2853				
% OF TOTAL								16.7				
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	0	7339	0	0	0	0	16227	17118		74293	7938	51925
% OF GRAND TOTAL		100.0					0.7	0.2		65.7	1.8	0.6
GRAND TOTAL	12734959	7339	0	0	0	0	2478117	9652801	0	113081	443329	8939132

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii				2996								
Ankistrodesmus sp.												
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.				1498								
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima												
Closterium spp.				11983								
Coelastrum microporum												
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.		19259		5992								

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei				5992	9986							
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum				11983								
P. Boryanum				71899								
P. duplex				29958								
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga	2696	10271		16477								
S. denticulatus												
S. dimorphus		5136	6420									
S. longus												
S. obliquus												
S. quadricauda	2696	11555	6420	49430	5706	10557						
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri						13196						
Spirogyra sp.												
Staurastrum sp.												
S. gracile			1605		1427							
Stigeoclonium tenue												
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40 NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular												
UID zygospore	56618	87306	77034	20970	97006	91050						
TOTAL GREENS	62010	133527	91479	229178	114125	114803						
% OF TOTAL	66.2	27.8	41.0	69.9	93.0	78.4						
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis		1284										
Cyclotella sp.	2696	11555	4815	8987		1320	4793					
Cymbella sp.				4493		6598						
Diatoma elongatum												
D. vulgare												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis	13481		46542			3959	4793					
Gyrosigma spp.		2568	1605	1498								
Melosira sp.												
Meridion circulare												
Navicula spp.	10110	201573	33703	71899	5706	13196	3595					
N. tripunctata	1348	128391	6420	5991	1427	3959	3595					
Nitzschia sp.			33703	1498								
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata		1284		2996	1427							
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.							1198					
Synedra sp.												
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	27635	346655	126788	97362	8560	29032	17974					
% OF TOTAL	29.5	72.0	56.8	29.7	7.0	19.8	100.0					
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum				1498								
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES				1498								
% OF TOTAL				0.5								
F. BLUE-GREENS												
Anabaena sp.	4044											
A. spiroides												

DATE 7/30/73
EXPOSURE TIME. 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.												
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii		1284	4815			2639						
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	4044	1284	4815			2639						
% OF TOTAL	4.3	0.3	2.2			1.8						
TOTAL ALGAE	93689	481466	223082	328038	122685	146474	17974					
% OF GRAND TOTAL	56.7	89.3	64.1	83.6	35.2	62.4	27.8					
G. PROTOZOANS												
Acineta sp.	4044	37233	22468	8987	2853	44865	25164					
Anarma sp.												
Astrophrya sp.					1427	7917						
Carchesium sp.												
Cephalothamnion sp.	45834			29958	184027							
Codonella sp.							2397					
Codonocladium sp.	4718	2568			7133							
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.							2397					
Staurophrya sp.							2397					
Thecacineta sp.		2568	22468		1427	18474	8388					
Tokophrya sp.												
Vorticella sp.	3370	15407	44937	13481	18545	17154	5991					
Zoothamnium sp.												
UID Acinetidae	1348											
UID Actinopoda												
UID Amphileptidae			3210		1427							
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina			4815	8987								
UID Metacystidae	10784		19259		1427							
UID Oligotrichina												
UID Ophryidae			4815									
UID Peritricha												
UID Protozoan	674											
UID Rhizopoda			3210	2996								
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata	674				7133							
TOTAL PROTOZOANS	71446	57776	125182	64409	225399	88410	46734					
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												

DATE 7/30/73
EXPOSURE TIME 6.4 wks.

TABLE IV C-3 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	71446	57776	125182	64409	225399	88410	46734					
% OF GRAND TOTAL	43.3	10.7	35.9	16.4	64.8	37.6	72.2					
GRAND TOTAL	165135	539242	348264	392447	348084	234884	64708					

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.							17120	15061	2853			
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum									5706			
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.	69						259	6006		400		
Closteriopsis longissima												
Closterium spp.								22592				
Coelastrum microporum					23396				68476			53070
Cosmarium sp.												
C. crenatum					5849			7531	28531			
C. depressum												
C. formosulum								37653				
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans									22825			
Franceia ovalis												
Gloeocystis sp.												
G. ampla												8845
G. gigas					2924		39946					26535
G. planctonica					32169			361464	5706		31955	35380
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum									57063		19972	53070
Mougeotia sp.												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)

NINE MILE POINT BOTTOM PERIPHYTON

CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei							11413		8559		39944	
O. parva					11698		39946					
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum							91304	542196	68476			
P. duplex								481952				
P. simplex							45652					
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga	61948				26320		62772	316281	105567	22368	47933	119408
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus												
S. quadricauda	27533				35093		62772	737989	79888	22368	39944	26535
Schizochlamys gelatinosa												106140
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.								15061				
S. gracile							5707	37653	2853		3994	8845
Stigeoclonium tenue	137663				339236		878763	376525			399440	
Tetraedron caudatum								7531				
T. minimum								15061				8845
Tetraspora sp.												
T. lacustris												
Treubaria setigerum					8773			7531			3994	

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular	6883							7531	2853		7989	
UID zygospore	84481				52640		405144	2085949	265343	201310	167765	252082
TOTAL GREENS	318577				538098		1660798	5081567	724699	246452	762930	698755
% OF TOTAL	28.0				56.8		28.1	44.1	72.4	73.4	64.7	48.9
B. EUGLENOIDS												
Euglena sp.	6883				8773		34239	15061	5706		151787	4423
TOTAL EUGLENOIDS	6883				8773		34239	15061	5706		151787	4423
% OF TOTAL	0.6				0.9		0.6	0.1	0.6		12.9	0.3
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa	96364				198862			22592		5592	11983	
Cocconeis sp.												4423
Coscinodiscus subtilis	6883				8773		5707	7531			3994	8845
Cyclotella sp.												
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis					29245				11413			
Gyrosigma spp.								22592	5706			4423
Melosira sp.												
Meridion circulare												
Navicula spp.	137663				46791		2585045	4909886	219693	61511	215698	552812
N. tripunctata	6883				2924		68478	97897	11413	11184	11983	48648
Nitzschia sp.							5707					
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.	13766								2853			
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	261559				286595		2664937	5060498	251078	78287	243658	619151
% OF TOTAL	22.9				30.2		45.1	43.9	25.1	23.3	20.7	43.3
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus	13766										11983	4423
Peridinium cinctum					2924		34239					
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES	13766				2924		34239				11983	4423
% OF TOTAL	1.2				0.3		0.6				1.0	0.3
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.									17119			
Chroococcus sp.												
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii	536886				99431		1443681	1242532	2853	11184	7989	35380
L. aeruginco-coerulea					2924							
Merismopedia sp.												
M. glauca												
M. tenussima								120488				
Microcystis aeruginosa							5707					
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola					8773		62772					66338
UID filamentous												
TOTAL BLUE-GREENS	536866				111128		1512160	1363020	19972	11184	7989	101718
% OF TOTAL	47.2				11.7		25.6	11.8	2.0	3.3	0.7	7.1
TOTAL ALGAE	1137671				947518		5906373	11520146	1001455	335923	1178347	1428470
% OF GRAND TOTAL	97.6				93.1		98.8	99.8	69.8	83.4	86.5	94.4
G. PROTOZOANS												
Acineta sp.					20471				51357	5592		
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.											163770	
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.	6883				8773				328112			
Paracineta sp.												
Periacineta sp.												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV-C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.					11698							
Tokophrya sp.												
Vorticella sp.	20649				29245		68478	22592	48504	61511	19972	79605
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae									2853			
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina									2853			
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	27532				70187		68478	22592	433679	67103	183742	79605
% OF TOTAL	100.0				100.0		92.3	100.0	100.0	100.0	100.0	94.7
G. ROTIFERS												
Ascororpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												4423
Lepadella sp.							5707					
Lecane sp.												
UID Flosculariacea												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS							5707					4423
% OF TOTAL							7.7					5.3
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	27532				70187		74185	22592	433679	67103	183742	84028
% OF GRAND TOTAL	2.4				6.9		1.2	0.2	30.2	16.6	13.5	5.6
GRAND TOTAL	1165203				1017705		5980558	11542738	1435134	403026	1362089	1512498

TABLE IV C-4 (continued)

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.			2646	4843			3995					
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.	41940		29108		140798							
Closteriopsis longissima			7939			3795	3995					
Closterium spp.												
Coelastrum microporum			21170	309955		22767		25678				
Cosmarium sp.												
C. crenatum			2646	14529	9387		3995					
C. depressum												
C. formosulum												
C. nitidulum				4843								
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica					4693							
Errerella bornhemiensis												
Eudorina elegans						60713						
Franceia ovalis						3795						
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa	16776				37546	91069						
Golenkinia paucispina												
G. radiata				4843								
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata						15178	3995					
Micractinium pusillum												
Mougeotia sp.						60713						

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.						189728						
Oocystis sp.							7989					
O. Borgei				48430		11384	3995					
O. parva												
O. solitaria				4843	4693							
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum						22767						
P. Boryanum												
P. duplex			84678	232466	225276	22767	63912					
P. simplex				77489		22767						
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga	12582		76740	368071	201820	189728	71901	12839				
S. denticulatus												
S. dimorphus				19372								
S. longus												
S. obliquus												
S. quadricauda			131754	159821	37546	125220	15978	25678				
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile	6291		2646	53273	46933	18973	3995	3210				
Stigeoclonium tenue							3995					
Tetraedron caudatum												
T. minimum				9686		7589						
Tetraspora sp.												
T. lacustris												
Treubaria setigerum							3995					

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (Continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
T. triappendiculata.....												
Ulothrix sp.....												
U. tenerrima.....												
U. zonata.....												
UID biflagellated cell.....												
UID colonial.....												
UID cresent cell.....												
UID desmid.....												
UID filamentous.....												
UID flagellate.....												
UID quadriflagellate.....												
UID unicellular.....			74093	53273		45535	31956					
UID zygospore.....	25164		386345	2261704	549110	713375	207714	160488				
TOTAL GREENS	102753		819765	3627441	1257802	1627863	431410	227893				
% OF TOTAL	92.5		81.8	77.6	85.1	90.7	78.3	41.0				
B. EUGLENOIDS												
Euglena sp.....			13231		84479	18973	51929					
TOTAL EUGLENOIDS			13231		84479	18973	51929					
% OF TOTAL			1.3		5.7	1.1	9.4					
C. GOLDEN-BROWNS												
Dinobryon sp.....												
Synura sp.....												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa.....												
Cocconeis sp.....			7939	9686								
Coscinodiscus subtilis.....						11384						
Cyclotella sp.....			2646	33901		7589						
Cymbella sp.....												
Diatoma elongatum.....												
D. vulgare.....												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina					117331			320975				
F. crotonensis												
Gyrosigma spp.				4843								
Melosira sp.												
Meridion circulare												
Navicula spp.	4194		82032	755515	18773	37946	19973	3210				
N. tripunctata	4194		10585	48430		15178						
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.				4843								
R. curvata												
Stephanodiscus sp.								3210				
S. Hantzschii												
Surirella sp.			2646									
Synedra sp.												
Tabellaria sp.			5292									
T. fenestrata												
TOTAL DIATOMS	8388		111140	857218	136104	72097	19973	327395				
% OF TOTAL	7.5		11.1	18.3	9.2	4.0	3.6	59.0				
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus			10585									
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES			10585									
% OF TOTAL			1.1									
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.				77489		37946						
Coelosphaerium Kutzingianum												
Gloeothece sp.						7589						
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii			44985	111390		30356	47934					
L. aerugineo-coerulea			2646									
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS			47631	188879		75891	47934					
% OF TOTAL			4.8	4.0		4.2	8.7					
TOTAL ALGAE	111141		1002352	4673538	1478385	1794824	551246	555288				
% OF GRAND TOTAL	89.8		97.7	100.0	99.1	92.4	94.5	87.8				
G. PROTOZOANS												
Acineta sp.	2097		2646		14080	83480		73824				
Anarma sp.												
Astrophrya sp.												
Carchesium sp.			13231									
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.							7989	3210				
Didinium sp.												
Epistylis sp.						45535						
Paracineta sp.												
Periacineta sp.												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	2097		2646									
Tokophrya sp.												
Vorticella sp.	6291		5292			11384	15978					
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae						7589						
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae	2097											
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	12582		23815		14080	147988	23967	77034				
% OF TOTAL	100.0		100.0		100.0	100.0	75.0	100.0				
G. ROTIFERS												
Ascomorpha sp.							7989					
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 8/15/73
EXPOSURE TIME 8.7 wks.

TABLE IV C-4 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS							7989					
% OF TOTAL							25.0					
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	12582		23815		14080	147988	31956	77034				
% OF GRAND TOTAL	10.2		2.3		0.9	7.6	5.5	12.2				
GRAND TOTAL	123723		1026167	4673538	1492465	1942812	583202	632322				

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii					7889							
Ankistrodesmus sp.	2211							3638				
A. Braunii				10348								
A. falcatus												
A. fractus												
Characium ornithocephalum				10348				7275				
Chlamydomonas sp.				20695				7275				
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima				31043								
Closterium spp.				31043				7275				
Coelastrum microporum				951970			93032	523800		28531		
Cosmarium sp.												749
C. crenatum				31043				7275			4344	
C. depressum												
C. formosulum												
C. nitidulum				41390			5815	18189				749
Dictyosphaerium ehrenbergianum												
D. pulchellum								10913				
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans				62085								
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica	2211			310425								
G. vesiculosa				124170								
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum				258688								
Mougeotia sp.												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum				41390								
Oedogonium sp.								123683				
Oocystis sp.												
O. Borgei				10348				14551	9273			
O. parva										10699		
O. solitaria								7275				
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum				82780								
P. Boryanum							46516	58204				
P. duplex												
P. simplex												
P. tetras							46516					
Quadrigula Chodatii								7275				
Scenedesmus abundans					7889		23258	29102				
S. acuminatus												
S. bijuga				362163		5992		21826		3566	8687	
S. denticulatus				93128				21826				
S. dimorphus				41390			46516					
S. longus												
S. obliquus				20695								
S. quadricauda				672588	27610		186064	203713		49930		1498
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Schaerocystis sp.												
S. Schroteri	141515			1655600								
Spirogyra sp.												
Staurastrum sp.												
S. gracile							5815	3638				
Stigeoclonium tenue	24323			465638	29582			83668				7489
Tetraedron caudatum												
T. minimum				10348								
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular	2211			62085				3638				
UID zygospore	6634			620850	45360	5992	197693	258279		78461	99906	
TOTAL GREENS	179105			6022251	118330	11984	651225	1422318	9273	171187	112937	10485
% OF TOTAL	61.0			32.6	27.0	14.8	22.4	58.0	16.0	48.0	38.2	40.0
B. EUGLENOIDS												
Euglena sp.	17689			20695	11833	11983		25464	4636	32098	21719	1498
TOTAL EUGLENOIDS	17689			20695	11833	11983		25464	4636	32098	21719	1498
% OF TOTAL	6.0			0.1	2.7	14.8		1.0	8.0	9.0	7.4	5.7
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.	15478			31043				3638				
Coscinodiscus subtilis	11056			31043				3638		7133		
Cyclotella sp.	15478				17749						17375	749
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina				186255				50928				
P. crotonensis				31043								
Gyrosigma spp.											4344	749
Melosira sp.										71328		
Meridion circulare												
Navicula spp.	6634			1500388	94664	5992	1645504	512921	37088	74895	8755	10485
N. tripunctata							23258	14551	2318		26062	
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.				1479693				3638				
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	48646			3259465	112413	5992	1668762	589314	39406	153356	56536	11983
% OF TOTAL	16.5			17.7	25.7	7.4	57.5	24.1	68.0	43.0	19.1	45.8
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus	11056				3944							
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES	11056				3944							
% OF TOTAL	3.8				0.9							
F. BLUE-GREENS												
Anabaena sp.				31043								
A. spiroides												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.				848495							211719	
Chroococcus sp.				1179615								
Coelosphaerium Kutzingianum												
Gloeothece sp.								14551				
Gomphosphaeria lacustris											69500	
Lyngbya sp.				103475							8687	
L. Digueii	28745			4056220	191300	50928	575636	29102	2318		4344	2247
L. aerugineo-coerulea								3638				
Merismopedia sp.												
M. glauca				2938690								
M. tenussima								269192				
Microcystis aeruginosa	8845							87306				
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis							5815					
Phormidium sp.												
P. mucicola												
UID filamentous								10915				
Rhoicosphenig sp.									2318			
TOTAL BLUE-GREENS	37590			9157538	191300	50928	581451	414702	4636		104250	2247
% OF TOTAL	12.8			49.6	43.7	63.0	20.0	16.9	8.0		35.3	8.6
TOTAL ALGAE	294086			18459949	437820	80887	2901438	2451798	57951	356641	295442	26213
% OF GRAND TOTAL	89.9			98.9	79.9	84.4	99.8	96.8	39.1	73.5	82.9	26.4
G. PROTOZOANS												
Acineta sp.					3944				13909	28531	4344	2745
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.										28531		
Codonella sp.												
Codonocladium sp.	2211											2247
Didinium sp.												
Epistylis sp.	4422				74942	2996		7275		17832		2996
Paracineta sp.												
Periacineta sp.												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	2211											
Tokophrya sp.												
Vorticella sp.	15478			196603		11983	5815		6954		56469	21719
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina				10348						3566		
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae	8845				31555			72755	69545	49930		38945
UID Zooflagellata												
TOTAL PROTOZOANS	33167			206951	110441	14979	5815	80030	90408	128390	60813	73146
% OF TOTAL	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS										2		
% OF TOTAL										.002		
NEMATODES												
% OF TOTAL												
HYDROIDS										5		
% OF TOTAL										.004		
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	33167			206951	110441	14979	5815	80030	90408	128397	60813	73146
% OF GRAND TOTAL	10.1			1.1	20.1	15.6	.2	3.2	60.9	26.5	17.1	73.6
GRAND TOTAL	327253			18666900	548261	95866	2907253	2531828	148359	485038	356255	99359

TABLE IV C-5 (continued)

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.								1890				
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum						3566						
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima												
Closterium spp.												
Coelastrum microporum				39102								
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas				3638								
G. planctonica							9843					
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata								1890				
Micractinium pusillum												
Mougeotia sp.												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.	2846											
Oocystis sp.												
O. Borgei			3281									
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex												
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga			13124	3638	4280							
S. denticulatus						14266						
S. dimorphus												
S. longus								1890				
S. obliquus												
S. quadricauda	1220		3281	3638								
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile												
Stigeoclonium tenue			656219									
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40 NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell			3281									
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular				3638		14266		3780				
UID zygospore		48146	45935			42797	39373					
TOTAL GREENS	4066	48146	725121	53654	4280	74895	49216	9450				
% OF TOTAL	58.8	45.5	95.3	38.6	11.8	80.8	25.0	62.5				
B. EUGLENOIDS												
Euglena sp.					12839	14266	73825	1890				
TOTAL EUGLENOIDS					12839	14266	73825	1890				
% OF TOTAL					35.3	15.4	37.5	12.5				
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis			3281									
Cyclotella sp.							14765					
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.												
Melosira sp.												
Meridion circulare												
Navicula spp.		28888	6562	5451				3780				
N. tripunctata			9843									
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.			3281									
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS		28888	22967	5457		14765	3780					
% OF TOTAL		27.3	3.0	3.9		7.5	25.0					
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus			13124									
Peridinium cinctum	2846											
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES	2846		13124									
% OF TOTAL	41.2		1.7									
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH NMPP	FITZ	NMPE
Aphanocapsa sp.				72755								
Chroococcus sp.		25678										
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii		3210		5457	6420	3566	4922					
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa				1819	12839		54138					
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS		28888		80031	19259	3566	59060					
% OF TOTAL		27.3		57.5	52.9	3.8	30.0					
TOTAL ALGAE	6912	105922	761212	139142	36378	92727	196866	15120				
% OF GRAND TOTAL	34.0	42.9	64.1	82.7	73.9	52.0	62.5	44.4				
G. PROTOZOANS												
Acineta sp.		35307		9094	4280	78461	59060	17012				
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.				9094								
Didinium sp.												
Epistylis sp.		57776	380607			7133	24608					
Paracineta sp.												
Periacineta sp.												

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EXPOSURE TIME 2.1 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.												
Tokophrya sp.												
Vorticella sp.	13417	44937		5457	4280		34451					
Zoothamnium sp.			9843									
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina			3281									
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae			32811	5457	4280			1890				
UID Zooflagellata												
TOTAL PROTOZOANS	13417	138020	426542	29102	12840	85594	118119	18902				
% OF TOTAL	100	97.7	100	100	100	100	100	100				
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis		3210										
Lepadella sp.												
Lecane sp.												
UID Floscularaiacea												

DATE 8/30-31/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-5 Continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
TOTAL ROTIFERS		3210										
% OF TOTAL		2.3										
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	13417	141230	426542	29102	12840	85594	118119	18902				
% OF GRAND TOTAL	66.0	57.1	35.9	17.3	26.1	48.0	37.5	55.6				
GRAND TOTAL	20329	247152	1187754	168244	49218	178321	314985	34022				

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EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.				28283								4280
A. Braunii				14141			835395	196601				
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.							3424					
Chlorella sp.												
C. vulgaris												
Cladophora sp.							494	28			6	
Closteriopsis longissima					6482							
Closterium spp.												
Coelastrum microporum				876772			10271	812618		33935		34238
Cosmarium sp.												
C. crenatum				183839				157281				
C. depressum				70707								
C. formosulum												
C. nitidulum				14141			10271	117961				
Dictyosphaerium ehrenbergianum												
D. pulchellum				339395								
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas				14141	3241							
G. planctonica				56566					9273			
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.								117961				

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.										21209		
Oocystis sp.												
O. Borgei				56566				39320				
O. parva				28283						33935		
O. solitaria												
Pandorina morum								104854				
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum				226264				1048539				
P. duplex										8484		
P. simplex								104854				
P. tetras				127273			13695	104854				
Quadrigula Chodatii												
Scenedesmus abundans					12964			52427		33935		
S. acuminatus												
S. bijuga				1131318	38891		30814	1258246		4242		
S. denticulatus										16967		
S. dimorphus				56566				157281				
S. longus												
S. obliquus												
S. quadricauda				721215	93987		112984	1140286	7418	25451	57633	
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri				339395				52427				34238
Spirogyra sp.												
Staurastrum sp.												
S. gracile				14141	3240					4242		
Stigeoclonium tenue				424244			914141	91747				128391
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum								13107				

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata								327668				
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular				141415	16205		6848					
UID zygospore				1456572	61578		99289	1887370		288444	64837	17119
TOTAL GREENS				6321237	236588		2037626	7785430	16691	470844	122476	218266
% OF TOTAL				13.9	37.6		69.4	36.7	1 7.3	11.4	9.6	21.7
B. EUGLENOIDS												
Euglena sp.				721215	32409		41085	144174	20400	2570545	57633	21398
TOTAL EUGLENOIDS				721215	32409		41085	144174	20400	2570545	57633	21398
% OF TOTAL				1.6	5.2		1.4	.7	21.2	62.5	4.5	2.1
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.				28283	32409		30814	39320		4242	14408	286739
Coscinodiscus subtilis							3424	13107				
Cyclotella sp.				28283	16205		3424	26213	3709	16967	7204	
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina								157281				
F. crotonensis												
Gyrosigma spp.							3424	26213		16967	7204	
Melosira sp.				28283								
Meridion circulare												
Navicula spp.				28933461	246312		372924	7287344	18545	793221	986967	51356
N. tripunctata				98990	9722		27390	26213		80595	50429	4280
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												4280
R. curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.								26213				
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS				29117300	304648		441400	7601904	22254	911992	1066212	346655
% OF TOTAL				63.9	48.5		15.0	35.8	23.1	22.2	83.6	34.5
E. DINOFLAGELLATES												
Ceratium hirundinella					3241							
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum							3424					
TOTAL DINOFLAGELLATES					3241		3424					
% OF TOTAL					0.5		0.1					
F. BLUE-GREENS												
Anabaena sp.										33935		
A. spiroides												

DATE 8/30-31/73
EXPOSURE TIME 10.8

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20 NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.							6848	209708				
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii				7395992	51855		386884	4967452	18545		28817	419409
L. aerugineo-coerulea				56566						127255		
Merismopedia sp.								471842				
M. glauca												
M. tenussima				1640411								
Microcystis aeruginosa				296971			17119		18545			
M. incerta												
Oscillatoria sp.								13107				
O. limnetica												
O. subbrevis								39320				
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS				9389940	51855		410851	5701429	37090	161190	28817	419409
% OF TOTAL				20.6	8.3		14.0	26.9	38.5	3.9	2.3	41.7
TOTAL ALGAE				45549692	628741		2934386	21232937	96435	4114571	1275138	1005728
% OF GRAND TOTAL				99.9	100.0		99.6	97.8	53.6	99.8	98.9	98.3
G. PROTOZOANS												
Acineta sp.									7418			
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.									66763			
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 8/30-31/73
EXPOSURE TIME 10.8

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.												
Tokophrya sp.												
Vorticella sp.				28283			6848	432522	9273	8484	14408	8559
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina								52427				
UID Metacystidae												8559
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS				28283			6848	484949	83454	8484	14408	17118
% OF TOTAL				66.7			40.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascomorpha sp.							3424					
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis							6848					
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 8/30-31/73
EXPOSURE TIME 10.8

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS							10272					
% OF TOTAL							59.9					
DIPTERANS							35	10				
% OF TOTAL							.2	.00004				
NEMATODES				14141								
% OF TOTAL				33.3								
HYDROIDS								10				
% OF TOTAL								.00004				
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA				42424			17155	484969	83454	8484	14408	17118
% OF GRAND TOTAL				0.1			.4	2.2	46.4	.2	1.1	1.7
GRAND TOTAL				45592116	628741		428006	21717906	179889	4123055	1289546	1022846

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii		19401										
Ankistrodesmus sp.												
A. Braunii					2140							
A. falcatus												
A. fractus												
Characium ornithocephalum				15550		1819						
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima												
Closterium spp.												
Coelastrum microporum						22433	32240					
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla							20150					
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.				202144								
Oocystis sp.												
O. Borgei	52212											
O. parva				15550								
O. solitaria							8060					
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex												
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga				15550				1498				
S. denticulatus												
S. dimorphus					8559							
S. longus												
S. obliquus												
S. quadricauda		4850	34750			1819						
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.				31099								
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile												
Stigeoclonium tenue				77748	21398							
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 8/30-31/73
EXPOSURE TIME 10.8

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm²

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular		9701			117119		8060					
UID zygospore		63054	159271	225468		12126	116871	749				
TOTAL GREENS	52212	97006	194021	583109	149216	38197	185381	2247				
% OF TOTAL	54.5	30.3	13.2	31.0	44.4	44.0	33.1	37.5				
B. EUGLENOIDS												
Euglena sp.	13053	53353	944041	108847	11552	42440	265982	2996				
TOTAL EUGLENOIDS	13053	53353	944041	108847	11552	42440	265982	2996				
% OF TOTAL	13.6	16.6	64.5	5.8	3.4	49.0	47.5	50.0				
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.				7775								
Coscinodiscus subtilis		4850										
Cyclotella sp.	4351	9701	2896				4030					
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.		4850	2896									
Melosira sp.												
Meridion circulare												
Navicula spp.	21755	106707	165062	707504	8559	6063	12090	749				
N. tripunctata	4351	9701	8687	7775								
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.												
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	30457	135809	179541	723054	8559	6063	16120	749				
% OF TOTAL	31.8	42.4	12.3	38.4	2.5	7.0	2.9	12.5				
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.							88661					
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris			92667									
Lyngbya sp.												
L. Digueii			52125	217693	6420		4030					
L. aerugineo-coerulea												
Merismopedia sp.				62198								
M. glauca												
M. tenussima												
Microcystis aeruginosa		33952		186594	160488							
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS		33952	144792	466485	166908		92691					
% OF TOTAL		10.6	9.9	24.8	49.6		16.5					
TOTAL ALGAE	95722	320120	1462395	1881495	336235	86700	560174	5992				
% OF GRAND TOTAL	48.9	66.6	95.8	100.0	90.8	82.6	87.4	32.0				
G. PROTOZOANS												
Acineta sp.	4351	19401						2247				
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.	30457	14551			25678							
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.												
Tokophrya sp.												
Vorticella sp.	39159	106707	63708			8244		1498				
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae	4351	4850			2140		4030					
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae								8987				
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae	8702	4850			4280	1819						
UID Oligotrichina												
UID Ophryidae		4850										
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae	13053					8244	72541					
UID Zooflagellata												
TOTAL PROTOZOANS	100073	155209	63708		32098	18307	76571	12732				
% OF TOTAL	100.0	97.0	100.0		93.7	100.0	95.0	99.9				
G. ROTIFERS												
Ascorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 8/30-31/73
EXPOSURE TIME 10.8 wks.

TABLE IV C-5 (continued)

NINE MILE POINT BOTTOM PERIPHYTON

CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS					2140		4030					
% OF TOTAL					6.3		5.0					
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	100083	160059	63708		34238	18307	80601	12739				
% OF GRAND TOTAL	51.1	33.3	4.2		9.2	17.4	12.6	68.0				
GRAND TOTAL	195805	480179	1526103	1881495	370473	105007	640775	18731				
OTHERS	10	4850						7				
% OF TOTAL	.01	3.0						.05				

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. Braunii												
A. falcatus								2796				
A. fractus								355089				
Characium ornithocephalum												
Chlamydomonas sp.					874				1648	599		
Chlorella sp.												
C. vulgaris												
Cladophora sp.								413				
Closteriopsis longissima												
Closterium spp.												
Coelastrum microporum												
Cosmarium sp.												
C. crenatum								4194				1148
C. depressum								1398				
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica								1398				
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.								6990				
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa								5592		9586		
Golenkinia paucispina												
G. radiata								1398				
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata											1548	
Micractinium pusillum												
Mougeotia sp.												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.											1548	
Oocystis sp.												
O. Borgei								5592		1198	6191	
O. parva					3495				6591			
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum									2796			
P. Boryanum												
P. duplex												
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga									32154			6191
S. denticulatus												
S. dimorphus									5592			
S. longus												
S. obliquus												
S. quadricauda					22717			25164		2397	6191	
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile											1548	
Stigeoclonium tenue									2974			
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum										599		

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.								78287.			1548	
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular	6391				11359			30756	16476	5991	17025	4593
UID zygospore												
TOTAL GREENS	6391				38445			562583	24715	20370	41790	5741
% OF TOTAL	22.2				51.8			19.8	46.9	77.3	69.2	62.5
B. EUGLENOIDS												
Euglena sp.	1598				874							
TOTAL EUGLENOIDS	1598				874							
% OF TOTAL	5.6				1.2							
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa								9786			1548	2297
Cocconeis sp.								2796				
Coscinodiscus subtilis												
Cyclotella sp.												
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis								1398				
Gyrosigma spp.												
Melosira sp.												
Meridion circulare												
Navicula spp.					5242			1084838	19772	4194	7739	
N. tripunctata					874			9786	1648			1148
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii									6591	1198	3096	
Surirella sp.												
Synedra sp.					874							
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS					6990			1108604	28011	5392	12383	3445
% OF TOTAL					9.4			38.9	53.1	20.5	20.5	37.5
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus	1598									599	1548	
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES	1598									599	1548	
% OF TOTAL	5.6									2.3	2.6	
F. BLUE-GREENS												
Anabaena sp.								397028				
A. spiroides												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.	6391											
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Diqueii	12782				27960			778679			4643	
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	19173				27960			1175707			4643	
% OF TOTAL	66.7				37.6			41.3			7.7	
TOTAL ALGAE	28760				74269			2846894	52726	26361	60364	9186
% OF GRAND TOTAL	90.0				52.5			94.8	20.4	18.3	100.0	42.1
G. PROTOZOANS												
Acineta sp.					5242				54372	40142		
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.	1598				14854				3295	55720		1148
Didinium sp.												
Epistylis sp.					34076			53124	123572	4194		
Paracineta sp.												
Periacineta sp.												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.								2796	3295	599		
Tokophrya sp.												
Vorticella sp.					4369			26562	6591	3595		6890
Zoothamnium sp.												
UID Acinetidae								2796	3295			1148
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae	1598				6116			69899	11533	13780		3445
UID Zooflagellata					2621							
TOTAL PROTOZOANS	3196				67278			155177	205953	118030		12631
% OF TOTAL	100.0				100.0			100.0	100.0	100.0		100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	3196				67278			155177	205953	118030		12631
% OF GRAND TOTAL	10.0				47.5			5.2	79.6	81.7		57.9
GRAND TOTAL	31956				141547			3002071	258679	144391	60364	21817

TABLE IV C-6 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ____ NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.			1926					1498				
Chlorella sp.												
C. vulgaris												
Cladophora sp.												
Closteriopsis longissima												
Closterium spp.												
Coelastrum microporum												
Cosmarium sp.												
C. crenatum								1498				
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica								749				
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa			15407					25463				
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH ___ NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva			3852		2297							
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex							11234					
P. simplex												
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans												
S. acuminatus												
S. bijuga		1198					2996					
S. denticulatus												
S. dimorphus												
S. longus												
S. obliquus												
S. quadricauda							2247					
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile							2996					
Stigeoclonium tenue												
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum			1926									

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 30' NMPP	FITZ	NMPE	NMPW	DEPTH 40' NMPP	FITZ	NMPE	NMPW	DEPTH NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp.												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular					7190	5168						
UID zygospore				2696			5692	13481				
TOTAL GREENS		1198	23111	2696	7190	7465	5692	62162				
% OF TOTAL		33.3	70.6	75.0	72.7	72.2	66.6	94.2				
B. EUGLENOIDS												
Euglena sp.					1797	574						
TOTAL EUGLENOIDS					1797	574						
% OF TOTAL					18.2	5.6						
C. GOLDEN-BROWNS												
Dinobryon sp.												
Synura sp.												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis							1897					
Cyclotella sp.												
Cymbella sp.												
Diatoma elongatum												
D. vulgare												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.												
Melosira sp.												
Meridion circulare												
Navicula spp.	1141	1797		899	574	949	1498					
N. tripunctata					899	574						
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii							749					
Surirella sp.												
Synedra sp.	1141											
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	2282	1797		899	899	1148	2846	2247				
% OF TOTAL	100.0	50.0		25.0	9.1	11.1	33.3	3.4				
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus		599						1498				
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES		599						1498				
% OF TOTAL		16.7						2.3				
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.												
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii			9629			1148						
L. aerugineo-coerulea												
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS			9629			1148						
% OF TOTAL			29.4			11.1						
TOTAL ALGAE	2282	3594	32740	3595	9886	10335	8538	65907				
% OF GRAND TOTAL	13.3	19.4	94.4	66.7	50.0	23.1	69.2	83.8				
G. PROTOZOANS												
Acineta sp.		1797			5392	12632						
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.								749				
Codonocladium sp.	6848	4793			2697	16651						
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	6848	7190					3795	3745				
Tokophrya sp.												
Vorticella sp.	1141	599			899			1498				
Zoothamnium sp.												
UID Acinetidae								3745				
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae		599		1797		2297		2996				
UID Zooflagellata					899	2871						
UID Spirotricha			1926									
TOTAL PROTOZOANS	14837	14978	1926	1797	9887	34451	3795	12733				
% OF TOTAL	100	100	100	100	100	100	100	100				

G. ROTIFERS

Ascomorpha sp.
Asplanchna sp.
Brachionus sp.
Keratella cochlearis
Lepadella sp.
Lecane sp.
UID Floscularlacea

DATE 9/14/73
EXPOSURE TIME 2.1 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 30' NMPW	NMPP	FITZ	NMPE	DEPTH 40' NMPW	NMPP	FITZ	NMPE	DEPTH ___ NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	14837	14978	1926	1797	9887	34451	3795	12733				
% OF GRAND TOTAL	86.7	80.6	5.6	33.3	50.0	76.9	30.8	16.2				
GRAND TOTAL	17119	18572	34666	5392	19773	44786	12333	78640				

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.												
Chlorella sp.												
C. vulgaris												
Cladophora sp.	394											
Closteriopsis longissima												
Closterium spp.												
Coelastrum microporum												
Cosmarium sp.												
C. crenatum												
C. depressum												
C. formosulum												
C. nitidulum	5849											
Dictyosphaerium ehrenbergianum												
D. pulchellum												
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei	23396											
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum												
P. duplex	187165											
P. simplex												
P. tetras	23396											
Quadrigula Chodatii												
Scenedesmus abundans	46791											
S. acuminatus												
S. bijuga												
S. denticulatus												
S. dimorphus	81885											
S. longus												
S. obliquus												
S. quadricauda	198863											
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.												
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile												
Stigeoclonium tenue	2725590											
Tetraedron caudatum												
T. minimum												
Tetraspora sp.												
T. lacustris												
Treubaria setigerum												

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata												
Ulothrix sp												
U. tenerrima												
U. zonata												
UID biflagellated cell												
UID colonial												
UID cresent cell												
UID desmid												
UID filamentous												
UID flagellate												
UID quadriflagellate												
UID unicellular												
UID zygospore	17547											
TOTAL GREENS	3310976											
% OF TOTAL	59.9											
B. EUGLENOIDS	5849											
Euglena sp												
TOTAL EUGLENOIDS	5849											
% OF TOTAL	0.1											
C. GOLDEN-BROWNS												
Dinobryon sp												
Synura sp												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa												
Cocconeis sp	23396											
Coscinodiscus subtilis												
Cyclotella sp												
Cymbella sp												
Diatoma elongatum												
D. vulgare												

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.												
Melosira sp.												
Meridion circulare												
Navicula spp.	280748											
N. tripunctata	11698											
Nitzschia sp.												
N. linearis												
N. sigmiodea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												
Synedra sp.												
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	315842											
% OF TOTAL	6.7											
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 5' NMPP	DEPTH 5' FITZ	NMPE	NMPW	DEPTH 10' NMPP	DEPTH 10' FITZ	NMPE	NMPW	DEPTH 20' NMPP	DEPTH 20' FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.												
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris	187165											
Lyngbya sp.												
L. Digueii	906580											
L. aerugineo-coerulea	11698											
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	1105443											
% OF TOTAL	23.3											
TOTAL ALGAE	4738010											
% OF GRAND TOTAL	99.9											
G. PROTOZOANS												
Acineta sp.												
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 5' NMPP	FITZ	NMPE	NMPW	DEPTH 10' NMPP	FITZ	NMPE	NMPW	DEPTH 20' NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	5849											
Tokophrya sp.												
Vorticella sp.												
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												
TOTAL PROTOZOANS	5849											
% OF TOTAL												
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 9/14/73
EXPOSURE TIME 12.9 wks.

TABLE IV C-6 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	NMPW	DEPTH 5' NMPP	FITZ	NMPE	NMPW	DEPTH 10' NMPP	FITZ	NMPE	NMPW	DEPTH 20' NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	5849											
% OF GRAND TOTAL	.1											
GRAND TOTAL	4743859											

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
A. GREENS												
Actinastrum Hantzschii					19798							
Ankistrodesmus sp.												
A. Braunii												
A. falcatus												
A. fractus												
Characium ornithocephalum												
Chlamydomonas sp.	11725				16970							
Chlorella sp.												
C. vulgaris												
Cladophora sp.	1125				281							
Closteriopsis longissima												
Closterium spp.	4691				2828							
Coelastrum microporum	65672				56566							
Cosmarium sp.												
C. crenatum									749			
C. depressum												
C. formosulum												
C. nitidulum												
Dictyosphaerium ehrenbergianum												
D. pulchellum									4494			
Echinosphaerella limentica												
Errerella bornhemiensis												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. ampla												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia paucispina												
G. radiata												
Hyalotheca sp.												
H. dissiliens												
Kirchneriella subsolitaria												
Lagerheimia ciliata												
Micractinium pusillum												
Mougeotia sp.												

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Nephrocytium Agardhianum												
N. obesum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum bicaudatus												
P. biradiatum												
P. Boryanum									8987			
P. duplex	63326											
P. simplex	4691				45253							
P. tetras												
Quadrigula Chodatii												
Scenedesmus abundans	18763				11313							
S. acuminatus												
S. bijuga	44563				82021				4494			
S. denticulatus												
S. dimorphus	75053											
S. longus												
S. obliquus												
S. quadricauda	77399				127273				7489			2140
Schizochlamys gelatinosa												
Schroederia setigera												
Selenastrum sp.												
Sphaerocystis sp.					39596							
S. Schroteri												
Spirogyra sp.												
Staurastrum sp.												
S. gracile					5657							535
Stigeoclonium tenue	4125586				3931330							
Tetraedron caudatum												
T. minimum												
Tetraspora sp.					8485							
T. lacustris												
Treubaria setigerum												

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7 (continued)

NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
T. triappendiculata.....												
Ulothrix sp.....	234542				5657							
U. tenerrima.....												
U. zonata.....												
UID biflagellated cell.....												
UID colonial.....												
UID cresent cell.....												
UID desmid.....												
UID filamentous.....												
UID flagellate.....												
UID quadriflagellate.....												
UID unicellular.....												
UID zygospore.....	2345				2828							
TOTAL GREENS	4729481				4355856				26213			2675
% OF TOTAL	64.0				57.4				47.3			83.3
B. EUGLENOIDS												
Euglena sp.....												
TOTAL EUGLENOIDS												
% OF TOTAL												
C. GOLDEN-BROWNS												
Dinobryon sp.....												
Synura sp.....												
TOTAL GOLDEN-BROWNS												
% OF TOTAL												
D. DIATOMS												
Asterionella formosa.....	14072				82021				2996			
Cocconeis sp.....	4691				22636				2996			
Coscinodiscus subtilis.....												
Cyclotella sp.....												
Cymbella sp.....												
Diatoma elongatum.....												
D. vulgare.....												

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Fragilaria sp.												
F. capucina									2996			
F. crotonensis	7036				25455				749			
Gyrosigma spp.												
Melosira sp.												
Meridion circulare												
Navicula spp.	330704				1309501				15728			
N. tripunctata	4691				2828				1498			535
Nitzschia sp.												
N. linearis												
N. sigmoidea												
N. vermicularis												
Rhoicosphenia sp.												
R. curvata												
Stephanodiscus sp.	4691				11313				749			
S. Hantzschii												
Surirella sp.												
Synedra sp.									1498			
Tabellaria sp.												
T. fenestrata												
TOTAL DIATOMS	365885				1453754				29210			535
% OF TOTAL	4.9				19.1				52.7			16.7
E. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium palustre												
G. Pulvisculus												
Peridinium cinctum												
P. Wisconsinensis												
P. inconspicuum												
TOTAL DINOFLAGELLATES												
% OF TOTAL												
F. BLUE-GREENS												
Anabaena sp.												
A. spiroides												

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7. (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Aphanocapsa sp.												
Chroococcus sp.	9382				62222							
Coelosphaerium Kutzingianum												
Gloeothece sp.												
Gomphosphaeria lacustris												
Lyngbya sp.												
L. Digueii	2260981				1716775							
L. aerugineo-coerulea	28145				2828							
Merismopedia sp.												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
M. incerta												
Oscillatoria sp.												
O. limnetica												
O. subbrevis												
Phormidium sp.												
P. mucicola												
UID filamentous												
TOTAL BLUE-GREENS	2298508				1781825							
% OF TOTAL	31.1				23.5							
TOTAL ALGAE	7393874				7591435				55423			3210
% OF GRAND TOTAL	99.8				97.7				59.2			50.0
G. PROTOZOANS												
Acineta sp.					5657				749			
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	4691				118788				5243			3210
Tokophrya sp.												
Vorticella sp.					5657				6740			
Zoothamnium sp.												
UID Acinetidae					2828				1498			
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gromiidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Protozoan												
UID Rhizopoda												
UID Sessilia	7036				16970							
UID Vorticellidae	4691				28283				23966			
UID Zooflagellata												
TOTAL PROTOZOANS	16418				178183				38196			3210
% OF TOTAL	100.0				100.0				100.0			100.0
G. ROTIFERS												
Ascomorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												

DATE 10/12/73
EXPOSURE TIME 3.9 wks.

TABLE IV C-7 (continued)
NINE MILE POINT BOTTOM PERIPHYTON
CELLS/dm^2

GROUP	DEPTH 5' NMPW	NMPP	FITZ	NMPE	DEPTH 10' NMPW	NMPP	FITZ	NMPE	DEPTH 20' NMPW	NMPP	FITZ	NMPE
TOTAL ROTIFERS												
% OF TOTAL												
DIPTERANS												
% OF TOTAL												
NEMATODES												
% OF TOTAL												
HYDROIDS												
% OF TOTAL												
GASTROPODS												
% OF TOTAL												
TOTAL FAUNA	16418				178183				38196			3210
% OF GRAND TOTAL	0.2				2.3				40.8			50.0
GRAND TOTAL	7410292				7769618				93619			6420

APPENDIX IV-D

NINE MILE POINT PERIPHYTON
GLASS SUBSTRATE

DATE 8/14/73

TABLE IV D-1
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE X STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii		63										
Ankistrodesmus sp.			6			2	3			1		1
A. convolutus												
A. falcatus												
Characium sp.												
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.												
Cladophora sp.											1	
Closteriopsis longissima			1									
Closterium spp.	3	27			1			1			5	
Coelastrum cambricum												
C. microporum	25	63	8	10		7		18			9	5
Cosmaruim sp.												
C. crenatum	8	18	1	1	6	3	1	6			5	
C. depressum		4						2				1
C. formosulum	2		2			1	3					
C. nitidulum	2	20				1			3			
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica	25											
G. vesiculosa		47	26			7	16	9	12			
Golenkinia sp.												
G. paucispina										1		
G. radiata									3			
Kirchneriella subsolitaria			9						2			
Lagerheimia sp.												
L. ciliata												
L. quadriseta												

TABLE IV D-1 Cont'd

DATE 8/14/73

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE _x_ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum										4		
Microspora sp.												
Mougeotia sp.		20							6			
Nephrocytium lunatum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei			6		4			4			19	2
O. parva												
O. solitaria												
Pandorina morum									12			
Pediastrum sp.												
P. biradiatum												
P. Boryanum			10		13							
P. duplex	126							7				
P. simplex											43	
P. tetras		125										
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga	69	206	18	19	32	7		27	18		21	8
S. denticulatus												
S. dimorphus												
S. opaliensis												
S. obliquis	6											
S. quadricauda	44	35	8		21	17	4	4	26	4	13	5
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile	3	8	1		3	1		2				
Stigeoclonium sp.												
S. tenue												
Tetraedron sp.												
T. caudatum												
T. minimum												

DATE 8/14/73

TABLE IV D-1 Cont'd

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)

GLASS SUBSTRATE X STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum	2											
Ulothrix sp.												
UID desmid filamentous												
UID unicellular												
UID zygospore	162	129	86	51	101	135	66	83	64	35	84	9
	477	765	182	81	181	181	93	163	146	45	200	31
TOTAL GREENS	30.7	96.8	57.4	35.7	52.2	49.1	51.1	40.2	42.0	59.7	50.6	31.0
% of TOTAL												
B. EUGLENOIDS												
Euglena sp.										1		
TOTAL EUGLENOIDS										1		
% of TOTAL										1.4		
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis			1									
Cyclotella sp.			1			3	1		17	1	1	1
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.						1						
Melosira sp.												
Navicula spp.	262		33	25	16	27	7	18	23	5	7	1
N. tripunctata	47		1	2		2	3				2	
Nitzschia sp.												
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

DATE 8/14/73

TABLE IV D-1 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE _X_ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												1
Tabellaria fenestrata												
TOTAL DIATOMS	309		36	27	16	33	11	18	40	6	10	3
% of TOTAL	19.9		11.3	11.9	4.6	8.9	6.0	4.4	11.4	8.3	2.5	3.0
D. DINOFLAGELLATES												
Ceratium hirundinella									2			
Glenodinium Pulvisculus	95	25	45	109	122	145	73	220	148	16	185	36
Peridinium aciculiferum												
P. cinctum			1			1						
P. Wisconsinensis					2							
TOTAL DINOFLAGELLATES	95	25	46	109	124	146	73	220	150	16	185	36
% of TOTAL	6.1	3.2	14.5	48.0	35.7	39.6	40.1	54.3	43.1	20.8	46.8	36.0
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.									12			
Aphanocapsa sp.												
Chroococcus sp.												16
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris	675		53	10	26	9	5	4		7		14
Lyngbya Diguetii												
L. aerugineo-caerulea												
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS	675		53	10	26	9	5	4	12	7		30
% of TOTAL	43.4		16.8	4.4	7.5	2.4	2.7	1.0	3.4	9.7		30.0
TOTAL ALGAE	1556	790	317	227	347	369	182	405	348	75	395	100
% OF GRAND TOTAL	94.4	100.0	69.1	48.9	90.1	71.7	40.5	90.2	57.2	50.7	75.0	48.3

DATE 8/14/73

TABLE IV D-1 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE X STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
P. PROTOZOANS												
Acineta sp.	74		118	196	26	75	165	39	237	47	130	95
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.										2		
Didinium sp.												
Epistylis sp.	2			9				4				
Paracineta sp.			4			39	6		15			
Periacineta sp.			8			20				3		
Podophrya sp.			2		1	1	3	1		5		
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	5		3	32	6	6	86		3	15	2	11
Tokophrya sp.	3		1		1	5			3			
Vorticella sp.	9		6		4		5		2	1		
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												1
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae							1					
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda							1					
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												

DATE 8/14/73

TABLE IV D-1 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE X STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	93		142	237	38	146	267	44	260	73	132	107
% OF TOTAL	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS.												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlaceae												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	93	0	142	237	38	146	267	44	260	73	132	107
% OF GRAND TOTAL	5.6		31.0	51.1	9.9	28.3	59.5	9.8	42.8	49.3	25.0	51.7
GRAND TOTAL	1649	790	459	464	385	515	449	449	608	148	527	207

DATE 8/29/73

TABLE IV D-2
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.										3	3	
A. convolutus												
A. falcatus												
Characium sp.			18		456				3			
C. limneticum												
C. ornithocephalum	25	96	109	38		103						4
Chlamydomonas sp.												
Cladophora sp.												
Closteriopsis longissima												
Closterium spp.				6								
Coelastrum cambricum												
C. microporum	102	636	1055	269	376	255				10		
Cosmarium sp.	20	58	18	26	14	24		1	3	1	1	
C. crenatum												
C. depressum				6	36	12						
C. formosulum				26	51							
C. nitidulum	15	58	127	6		6						
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans		231		35								
Franceia ovalis												
Gloeocystis sp.												
G. gigas			55			67						
G. planctonica												
G. vesiculosa	61	1762	527	216	507	291				5		9
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria				29	109	24						6
Lagerheimia sp.												
L. ciliata												
L. quadriseta												

DATE 8/29/73

TABLE IV D-2 Cont'd

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)

GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.				12								
Nephrocytium lunatum												
Oedogonium sp.		578	236									
Oocystis sp.												
O. Borgei	46	780	291	26	22	146	6	6	6		12	6
O. parva												
O. solitaria												
Pandorina morum					43							
Pediastrum sp.												
P. biradiatum		231										
P. Boryanum	41	462		93	58		50					
P. duplex	244					97		72				
P. simplex	81			70	116							
P. tetras	31					24						
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga	693	3004	655	295	956	437	13	12	6	5		
S. denticulatus												
S. dimorphus				61								
S. opaliensis												
S. obliquis							6					
S. quadricauda	194	347	527	263	746	576	44	9	30	5	2	
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile	5			12	7	6						
Stigeoclonium sp.												
S. tenue												
Tetraedron sp.												
T. caudatum												
T. minimum	8	202	18		65							

DATE 8/29/73

TABLE IV D-2 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous												
UID unicellular					36							
UID zygospore	1181	4247		1200	2585	1037	6	24	48	22	13	32
TOTAL GREENS	2747	12692	3636	2689	6183	3105	125	124	96	51	31	57
% of TOTAL	20.5	36.4	47.6	22.5	12.2	22.5	9.0	11.5	9.2	16.2	20.4	21.5
B. EUGLENOIDS												
Euglena sp.						6	24					
TOTAL EUGLENOIDS						6	24					
% of TOTAL						.04	1.7					
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.		29	18			6					1	
Coscinodiscus subtilis		29										
Cyclotella sp.	46	1069		88	101	42		3		3	1	
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.												
F. capucina				6								
F. crotonensis												
Gyrosigma spp.				3								
Melosira sp.												
Navicula spp.	122	10140	1328	2030	2802	2728	115	610	388	230	118	193
N. tripunctata	135	58	73	85	65	12	8	19	12	14	1	
Nitzschia sp.						6						
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

DATE 8/29/73

TABLE IV D-2 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
Synedra sp.												
Tabellaria fenestrata												
TOTAL DIATOMS	303	11325	1419	2212	2968	2794	123	632	400	247	121	193
% of TOTAL	2.3	32.5	18.6	18.5	5.8	20.3	8.9	58.8	38.5	78.7	79.6	72.8
D. DINOFLAGELLATES												
Ceratium hirundinella					7							
Glenodinium Pulvisculus	3	29		3	7					3		
Peridinium aciculiferum							2					
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES	3	29	0	3	14	0	2	0	0	3	0	0
% of TOTAL	.02	0.1		.03	.02		0.1			1.0		
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.										8		
C. limneticus												
Coelosphaeruim Kuetzingianum	407			584	4525	1425			105			
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	4278	10650	2510	6440	36965	6439	490	318	418	5		15
L. aerugineo-caerulea	5398	202	73		29	18	618					
Merismopedia sp.									21			
M. elegans					130							
M. glauca	163											
M. tenussima												
Microcystis aeruginosa	127											
Oscillatoria sp.												
TOTAL BLUE-GREENS	10373	10852	2583	7024	41649	7882	1108	318	544	13	0	15
% of TOTAL	77.3	31.1	33.8	58.9	82.0	57.2	80.2	29.6	52.3	4.1		5.7
TOTAL ALGAE	13426	34898	7638	11928	50814	13787	1382	1074	1040	314	152	265
	99.93	98.2	96.8	98.5	99.99	99.5	74.5	96.5	99.4	47.4	48.6	59.7

TABLE IV D-2 Cont'd

DATE 8/29/73

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)

GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.				23			22	3		3	3	4
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												6
Didinium sp.												
Epistylis sp.				38			157	22			138	9
Paracineta sp.												
Periacineta sp.												
Podophrya sp.							5					
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.				6	7	6	19	13		84	20	34
Tokophrya sp.							6					
Vorticella sp.	10	607	255	114		55	264	1	6	262		126
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae		29				6						
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												

DATE 8/29/73

TABLE IV D-2 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
TOTAL PROTOZOANS	10	636	255	181	7	67	473	39	6	349	161	179
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												
TOTAL ROTIFERS	0											
% of TOTAL												
H. DIPTERANS	0											
% of TOTAL												
I. NEMATODES	0											
% of TOTAL												
J. HYDROIDS	0											
% of TOTAL												
K. GASTROPODS	0											
% of TOTAL												
TOTAL FAUNA	10	636	255	181	7	67	473	39	6	349	161	179
% OF GRAND TOTAL	0.07	1.8	3.2	1.5	0.01	0.5	25.5	3.5	0.6	52.6	51.4	40.3
GRAND TOTAL	13436	35534	7893	12109	50821	13854	1855	1113	1046	663	313	444

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TABLE IV D-3
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus		23						15				
A. falcatus	25											
Characium sp.												
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.	25										3	
Cladophora sp.												
Closteriopsis longissima								15				
Closterium spp.	25											
Coelastrum cambricum												
C. microporum	2210	915	159	85	236	1795	71	44	834	475		13
Cosmaruim sp.												
C. crenatum	50	23	20			20						
C. depressum		229									3	
C. formosulum												
C. nitidulum					15	20						
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica			20						17			
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa		92										
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata							12					
L. quadriseta												

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TABLE IV D-3 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.							12					
Nephrocytium lunatum					118							
Oedogonium sp.		5399		85		61						21
Oocystis sp.												
O. Borgei	100	183	79				48				10	
O. parva					30							
O. solitaria				28	15							
Pandorina morum												
Pediastrum sp.												
P. biradiatum		183	318									
P. Boryanum										350		
P. duplex			278	455	946	326						
P. simplex		1144			118							
P. tetras						82						
Quadriqula Chodatii												
Scenodesmus sp.												
S. abundans					118	245						
S. acuminatus							48					
S. arcuatus												
S. bijuga	1255	2013	199	114	443	490	48	177	209	300	33	
S. denticulatus												
S. dimorphus	100		159	114	59	82			70	100		
S. opaliensis												
S. obliquis												
S. quadricauda	703	1235	437	1080	886	1142	95	266		175		17
Schroederia sp.												
S. setigera	25			28						25		
Staurastrum sp.												
S. gracile	25	46										
Stigeoclonium sp.												
S. tenue		58337										
Tetraedron sp.												
T. caudatum												
T. minimum												

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TABLE IV D-3 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE x__ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum										25		
Ulothrix sp.												
UID desmid filamentous												
UID unicellular								133		200	3	
UID zygospore	2034	2219	814	2274	1433	1816	346	222	295	849	3	
TOTAL GREENS	6577	72041	2483	4263	4417	6079	680	872	1425	2499	55	51
% of TOTAL	19.2	14.6	8.9	10.5	10.8	28.2	1.8	3.6	2.4	6.0	2.6	1.7
B. EUGLENOIDS												
Euglena sp.				85	15			30		100		
TOTAL EUGLENOIDS				85	15			30		100		
% of TOTAL				0.2	0.04			0.1		0.2		
C. DIATOMS												
Asterionella formosa							24	30			3	
Cocconeis sp.	126	160	40	85			24		17	50	13	
Coscinodiscus subtilis				57	118	82		15		50		
Cyclotella sp.												
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.							24					
F. capucina									17		3	
F. crotonensis	50									25		
Gyrosigma spp.										50		
Melosira sp.	7709	5216	11503	16541	32800	12504	30384	20094	33429	24650	1814	2097
Navicula spp.		46	258	1279		41	405	133	330	524	30	21
N. tripunctata	5725	4209	3973	11880	931			1256		1523		
Nitzschia sp.												
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.										25		
S. Hantzschii												
Surirella sp.												

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TABLE IV D-3 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.				28		1469	1037					
Tabellaria fenestrata												
TOTAL DIATOMS	13610	9631	15774	29870	33849	14096	31898	21528	33793	26897	1863	2118
% of TOTAL	39.8	2.0	56.3	73.7	82.7	65.5	84.7	88.5	55.7	64.1	87.4	72.6
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus												
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES												
% of TOTAL												
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.	100	137									30	26
C. limneticus												
Coelosphaeruim Kuetzingianum						1306						
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	11400	410738	9576	6338	2659		5064	1802	25276	12437	184	698
L. aeruginco-caerulea	2511	801	199			41						26
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima								89	139			
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS	14011	411676	9775	6338	2659	1347	5064	1891	25415	12437	214	750
% of TOTAL	41.0	83.4	34.9	15.6	6.5	6.3	13.5	7.8	41.9	29.7	10.0	25.7
TOTAL ALGAE	34198	493348	28032	40556	40940	21522	37642	24321	60633	41933	2132	2919
	100.0	99.97	99.6	99.93	99.96	99.9	99.8	99.6	99.94	99.5	95.6	96.0

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TABLE IV D-3 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
P. PROTOZOANS												
Acineta sp.		23	40				12	15		25	20	38
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.		23										
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.				28			48			125	40	17
Tokophrya sp.												9
Vorticella sp.			20		15	20						
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae										50		
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia		69	40						35		16	34
UID Vorticellidae		23	22				12	59		25	23	21
UID Zooflagellata								15				

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TABLE IV D-3 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x___ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	0	138	122	28	15	20	72	89	35	225	99	119
% OF TOTAL		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	0	138	122	28	15	20	72	89	35	225	99	119
% OF GRAND TOTAL		0.03	0.4	0.07	0.04	0.1	0.2	0.4	0.06	0.5	4.4	4.0
GRAND TOTAL	34198	493486	28154	40584	40955	21542	37714	24410	60668	42158	2231	3038

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TABLE IV D-4
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii		191	93				212				34	
Ankistrodesmus sp.												
A. convolutus												
A. falcatus								24			4	
Characium sp.												
C. limneticum	124		27		57							31
C. ornithocephalum				23								
Chlamydomonas sp.	331	24									4	
Cladophora sp.	0.304	0.9				18						
Closteriopsis longissima	41											
Closterium spp.												
Coelastrum cambricum		763	427			1647						
C. microporum	3477	953	1374	281		1750	794	572	198	88		244
Cosmaruim sp.												
C. crenatum		24	27	47		77	26					
C. depressum	41	238	120			26			25			
C. formosulum												
C. nitidulum												
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus			374									
Echinosphaerella limnetica											4	
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa	372		294			180						
Golenkinia sp.												
G. paucispina										5		
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata						26		24				
L. quadriseta												

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TABLE IV D-4 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.			67									
Mougeotia sp.				47								
Nephrocytium lunatum												
Oedogonium sp.		143					450					38
Oocystis sp.												
O. Borgei		48						95			4	8
O. parva	497		93			103	529		198	22	46	69
O. solitaria								143			17	
Pandorina morum												
Pediastrum sp.												
P. biradiatum			107									
P. Boryanum			67	563			423	763				
P. duplex	662	381	1281	1454	886	309	53	763	595	44	101	397
P. simplex		1358	240	375	200	772	397	763	1090		92	244
P. tetras				281								
Quadriqula Chodatii												
Scenedesmus sp.	16			94								
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga	2194	2550	2095	563	743	2136	397	262	297	22	84	183
S. denticulatus												
S. dimorphus	497		107									
S. opaliensis												
S. obliquis												
S. quadricauda	1862	1525	894	774	829	1467	476	1263	892	265	327	198
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile						26						
Stigeoclonium sp.												
S. tenue	2235	6220				2574						
Tetraedron sp.												
T. caudatum										5		
T. minimum					29							

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TABLE IV D-4 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __X__YES __NO)
GLASS SUBSTRATE __X__ STYROFOAM SUBSTRATE ____

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme		95										
Treubaria sp.												
T. setigerum												
Ulothrix sp.		11486	40			1029			273	77	67	
UID desmid filamentous												
UID unicellular				23			26				17	
UID zygospore	2110	1883	2002	1243	801	3243	1058	1144	1487	77	67	503
TOTAL GREENS	14462	27882	9729	5768	3545	15383	4841	5816	5055	528	801	1915
% of TOTAL	14.6	18.9	4.6	17.4	2.6	9.5	8.7	4.1	4.0	9.5	3.4	23.3
B. EUGLENOIDS												
Euglena sp.	41	48										
TOTAL EUGLENOIDS	41	48										
% of TOTAL	0.04	0.03										
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.								24				
Coscinodiscus subtilis	83		40	94	57	232	26		50			15
Cyclotella sp.				47			450	120		17	38	99
Cymbella sp.	41	2478										
Diatoma elongatum												
Fragilaria sp.												
F. capucina	166		27			26						
F. crotonensis				23								
Gyrosigma spp.							26					
Melosira sp.	331			164			158					30
Navicula spp.	21978	10819	11423	17215	75180	26844	36914	130948	86198	1716	21138	4712
N. tripunctata	828	119		704	1058	154	2778	1664	372	575	390	404
Nitzschia sp.	497	2740	560	3119	1172	4504	1746	882	5006	116	352	297
N. vermicularis												
Rhoicosphenia curvata				23								
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

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TABLE IV D-4 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
Synedra sp.										5		8
Tabellaria fenestrata												
TOTAL DIATOMS	23924	16156	12050	21389	77467	31760	42098	133618	91626	2429	21918	5565
% of TOTAL	24.1	10.9	5.7	64.4	57.4	19.5	76.0	93.5	72.5	43.6	93.7	67.8
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus	41											
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES	41											
% of TOTAL	0.04											
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.										5		
Aphanocapsa sp.												
Chroococcus sp.	704	906	133		9036	669			694	44		
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum			400			643	2646					
Gomphosphaeria lacustris							1323					
Lyngbya Diguetii	58980	100088	187898	6075	44410	112213	4445	3408	28700	2554	646	732
L. aerugineo-caerulea	952	2312	2161		515	1827	26	71	372		18	
Merismopedia sp.												
M. elegans		381										
M. glauca												
M. tenussima			107									
Microcystis aeruginosa										17		
Oscillatoria sp.												
TOTAL BLUE-GREENS	60636	103687	190699	6075	53961	115352	8440	3479	29766	2620	663	732
% of TOTAL	61.2	70.2	89.7	18.3	40.0	71.0	15.2	2.4	23.5	47.0	2.8	8.9
TOTAL ALGAE	99104	147773	212478	33232	134973	162495	55379	142913	126447	5577	23381	8212
	99.8	99.8	99.9	99.5	99.98	99.9	99.2	100.0	99.98	97.4	99.3	96.3

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TABLE IV D-4 Cont'd

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)

GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17 NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.		48				26	212				21	130
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.		71	13	164		77				16		15
Tokophrya sp.										5		
Vorticella sp.							79			83	80	
Zoothamnium sp.												
UID Acinetidae	83											
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora	41					26						
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia	83	48	13		29	51						
UID Vorticellidae		48				26	132		25	44	63	168
UID Zooflagellata												

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TABLE IV D-4 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	207	215	26	164	29	206	423	0	25	148	164	313
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.00	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	207	215	26	164	29	206	423	0	25	148	164	313
% OF GRAND TOTAL	0.2	0.2	0.01	0.5	0.02	0.1	0.8	0.0	0.02	2.6	0.7	3.8
GRAND TOTAL	99311	147988	212504	33399	135002	162701	55802	142913	126472	5725	23545	8525

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TABLE IV D-5
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus	149				41							
A. falcatus					41				24			
Characium sp.												
C. limneticum									24			
C. ornithocephalum			41									
Chlamydomonas sp.		41			326							
Cladophora sp.		37				4				3		
Closteriopsis longissima												
Closterium spp.												
Coelastrum cambricum						283						
C. microporum	1116	1305	326	272	652			1422	391	1058	102	
Cosmaruim sp.												
C. crenatum		41	163				48					
C. depressum		122	449			71						
C. formosulum												
C. nitidulum												
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa	595											
Golenkinia sp.												
G. paucispina										66		24
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata	74											
L. quadrisota												

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TABLE IV D-5 Cont'd

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)

GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.												
Nephrocytium lunatum												
Oedogonium sp.				1992							95	
Oocystis sp.												
O. Borgei												
O. parva		122								595	25	
O. solitaria	74			91	816							
Pandorina morum												
Pediastrum sp.												
P. biradiatum		41							196			
P. Boryanum		204					770				64	
P. duplex		652	1346						122		51	
P. simplex	1190	856		3169		2125	1540			264	102	
P. tetras				376								
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans				564	163							147
S. acuminatus												
S. arcuatus												
S. bijuga	2529	2406	2569	941	1550	2019	481	1067	1052	529	102	343
S. denticulatus												
S. dimorphus	595	163		752	489	425				264		
S. opaliensis												
S. obliquis									98			
S. quadricauda	2677	1794	2121	3574	1019	2196	2983	1689	1126	397	25	489
Schroederia sp.												
S. setigera									24			
Staurastrum sp.												
S. gracile			41		82				24			24
Stigeoclonium sp.												
S. tenue		245	1427		4078	15936						
Tetraedron sp.												
T. caudatum												
T. minimum		41						89				

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TABLE IV D-5 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
T. muticum		41										
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum			41	91	41							
Ulothrix sp.												
UID desmid filamentous												
UID unicellular	818							178		331		
UID zygospore	2454	114	5261	3480	734	2337	10105	533	1150	66	19	196
TOTAL GREENS	12271	9122	17047	15302	10032	27485	15927	4978	4231	3573	610	1223
% of TOTAL	13.8	10.1	11.9	9.4	7.4	17.4	15.0	3.0	5.4	5.5	3.0	2.2
B. EUGLENOIDS												
Euglena sp.	74			94	41							
TOTAL EUGLENOIDS	74			94	41							
% of TOTAL	0.08			0.06	0.03							
C. DIATOMS												
Asterionella formosa				376		212	241					49
Cocconeis sp.												
Coscinodiscus subtilis		41	82				96		73			
Cyclotella sp.	446			282			477	178			51	
Cymbella sp.		122	938		41			178			13	
Diatoma elongatum										198		
Fragilaria sp.												
F. capucina					82							
F. crotonensis					82							
Gyrosigma spp.												
Melosira sp.		163		376	816	142	241				64	171
Navicula spp.	57115	61291	46366	90853	109126	85347	79686	153707	66405	56520	18067	45852
N. tripunctata	3942	1713	2447	846	2406	744	4042	1778	465	1322	744	2716
Nitzschia sp.	1339	245	5301	2633	2977	8570	2598	2134	1223	198	235	391
N. vermicularis												
Rhoicosphenia curvata											6	
Stephanodiscus sp.												
S. Hantzschii										331		
Surirella sp.							48					

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TABLE IV D-5 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
Synedra sp.				282								
Tabellaria fenestrata												
TOTAL DIATOMS	62842	63575	55134	95648	115530	95015	87529	157975	68166	58569	19186	49179
% of TOTAL	70.9	71.0	38.7	58.7	85.0	60.2	82.6	95.6	86.3	91.3	94.5	87.3
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus				94								
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES				94.								
% of TOTAL				0.06								
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.		1346	570		938	637			147			832
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	10189	11704	68917	1035	8930	34351		2134	6313	1983	490	5040
L. aerugineo-caerulea	1710	3711	774		408	212			147		19	24
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa	1413			50787			2406					
Oscillatoria sp.	74											
TOTAL BLUE-GREENS	13386	16761	70261	51822	10276	35200	2406	2134	6607	1983	509	5896
% of TOTAL	15.1	18.7	49.3	31.8	7.6	22.3	2.2	1.2	8.4	3.0	2.5	10.5
TOTAL ALGAE	88573	89458	1424421	162960	135879	157700	105862	165087	79004	64125	20305	56298
	99.7	99.9	99.9	99.9	99.8	99.8	99.7	100.0	99.8	99.7	99/8	99.96

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TABLE IV D-5 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.												
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	74	82	41		41	35			98		25	24
Tokophrya sp.			82									
Vorticella sp.	149										13	
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia			41		285				24			
UID Vorticellidae						319		289			198	
UID Zooflagellata												

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TABLE IV D-5 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	223	82	164	0	326	354	289	0	122	198	44	24
% OF TOTAL	100	100	100		100	100	100		100	100	100	100
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea				188								
TOTAL ROTIFERS				188								
% of TOTAL				100.0								
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	223	82	164	188	326	354	289	0	122	198	44	24
% OF GRAND TOTAL	0.3	0.1	0.1	0.1	0.2	0.2	0.3		0.2	0.3	0.2	0.04
GRAND TOTAL	88796	89540	142606	163148	136205	158054	106151	165087	79126	64329	20349	56322

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TABLE IV D-6
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.						489					113	
A. convolutus												
A. falcatus									24			
Characium sp.												
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.	122		41		367	122					28	24
Cladophora sp.	2		.321	.160			.160					
Closteriopsis longissima											28	
Closterium spp.											28	
Coelastrum cambricum												
C. microporum	1174		652	809	5872	391			783			196
Cosmaruim sp.												
C. crenatum	49					24	41	41	49			
C. depressum			163			73						49
C. formosulum												
C. nitidulum												
Dictyosphaerium sp.												
D. ehrenbergianum					1223							
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa												538
Golenkinia sp.												
G. paucispina	391											
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata				51			41					
L. quadriseta									24			

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TABLE IV D-6 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.												
Nephrocytium lunatum												
Oedogonium sp.	24											
Oocystis sp.												
O. Borgei							163					
O. parva				202	489							
O. solitaria				101		24		163			28	24
Pandorina morum												
Pediastrum sp.												
P. biradiatum	98											
P. Boryanum	122											
P. duplex	391										479	
P. simplex					6484						451	
P. tetras												
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans				101				82			113	98
S. acuminatus												
S. arcuatus												
S. bijuga	783		652	1517	734	1908	1387	1101	1346		395	1003
S. denticulatus												
S. dimorphus	98			405							226	
S. opaliensis												
S. obliquis						49						
S. quadricauda	514	11	571	1214	489	318	1427	2121	832		508	734
Schroederia sp.												
S. setigera			41									
Staurastrum sp.												
S. gracile					122			82			56	
Stigeoclonium sp.												
S. tenue	196		10195	10113								
Tetraedron sp.												
T. caudatum												
T. minimum	49		41		367							

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TABLE IV D-6 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous												
UID unicellular												
UID zygospore	783		367	3742	2814	1688	1754	1387	954		705	1077
TOTAL GREENS	4796		12723	18255	18961	5209	5302	4977	4012		3412	3743
% of TOTAL	10.4		15.7	6.5	17.7	3.3	3.4	2.5	3.7		4.4	3.7
B. EUGLENOIDS												
Euglena sp.	73											
TOTAL EUGLENOIDS	73											
% of TOTAL	.1											
C. DIATOMS												
Asterionella formosa			41		979			122			56	
Cocconeis sp.											28	
Coscinodiscus subtilis				101		24	82				113	24
Cyclotella sp.												
Cymbella sp.	24		5261									
Diatoma elongatum												
Fragilaria sp.												
F. capucina	49					73			49			
F. crotonensis					245							
Gyrosigma spp.							82		24		28	24
Melosira sp.			163	1264	1957			163	98		28	
Navicula spp.	42769		31767	221481	61169	97332	129923	175555	9801		65976	87447
N. tripunctata	4478		1713	14260	979	2055	2447	4812	1101		874	1419
Nitzschia sp.	2324		2936	1365	3915	1321	3425	4404	563		1945	1566
N. vermicularis												
Rhoicosphenia curvata			41								56	
Stephanodiscus sp.												
S. Hantzschii				51								
Surirella sp.												

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TABLE IV D-6 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												
Tabellaria fenestrata												
TOTAL DIATOMS	49644	0	41922	238522	69244	100805	135959	185056	99852	0	69104	90480
% of TOTAL	66.5		51.6	85.6	64.5	64.4	87.9	91.3	93.1		88.9	88.5
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus												
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES												
% of TOTAL												
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.	710		245	152	1468		163	856	881		761	538
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	18693		26099	21845	17617	50452	13213	11744	2545		4483	7365
L. aerugineo-caerulea	734		245			171	122	122				73
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS	20137	0	26589	21997	19085	50623	13498	12722	3426	0	5244	7976
% of TOTAL	27.0		32.7	7.9	17.8	32.3	9.7	6.3	3.2		6.7	7.8
TOTAL ALGAE	74650		81234	278774	107290	156637	154759	202755	107290		77760	102199
	99.9		99.8	99.9	99.8	99.97	99.97	99.97	99.93		99.9	99.8

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TABLE IV D-6 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.			41									24
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.	73											24
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.			41	51	122			41	24			
Tokophrya sp.												
Vorticella sp.									24		85	
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora				51		49						
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia			41	51	122		41		24			196
UID Vorticellidae												
UID Zooflagellata												

DATE 10/26/73

TABLE IV D-6 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: X YES __NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	73	0	123	153	244	49	41	41	72	0	85	244
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	73	0	123	153	244	49	41	41	72	0	85	244
% OF GRAND TOTAL	0.1		0.2	0.1	0.2	0.03	0.03	0.03	0.07		0.1	0.2
GRAND TOTAL	74723	0	81357	278927	107534	156686	154800	202796	107362	0	77845	120443

DATE 11/8/73

TABLE IV D-7

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)

GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2'			DEPTH 7'			DEPTH 12'			DEPTH 17'		
	NMPW	NMPP	NMPE	NMPW	NMPP	NMPE	NMPW	NMPP	NMPE	NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus			29									29
A. falcatus												
Characium sp.												
C. limneticum												
C. ornithocephalum						14						
Chlamydomonas sp.			29									
Cladophora sp.												
Closteriopsis longissima												
Closterium spp.												
Coelastrum cambricum												
C. microporum												
Cosmaruim sp.												
C. crenatum												
C. depressum			143									
C. formosulum												
C. nitidulum												
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												229
G. vesiculosa												
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata												
L. quadriseta												

DATE 11/8/73

TABLE IV D-7 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.												
Nephrocytium lunatum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva									29			114
O. solitaria												
Pandorina morum												
Pediastrum sp.												
P. biradiatum												
P. Boryanum												
P. duplex												229
P. simplex									257			429
P. tetras												
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga			229			57			1058			229
S. denticulatus												
S. dimorphus												
S. opaliensis												
S. obliquis												
S. quadricauda			114			86			172			686
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile												
Stigeoclonium sp.												
S. tenue			429									
Tetraedron sp.												
T. caudatum												
T. minimum												

DATE 11/8/73

TABLE IV D-7 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous												
UID unicellular												
UID zygospore			57			114			829			543
TOTAL GREENS			1030			271			2345			2488
% of TOTAL			1.3			0.8			1.8			2.5
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% of TOTAL												
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis						14			29			
Cyclotella sp.												
Cymbella sp.			86									
Diatoma elongatum												
Fragilaria sp.												
F. capucina												
F. crotonensis			172						172			
Gyrosigma spp.									29			29
Melosira sp.									715			
Navicula spp.			56793			30727			119991			84875
N. tripunctata			1516			186			3031			3746
Nitzschia sp.												
N. vermicularis			4575			129			1430			2230
Rhoicosphenia curvata									114			
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

DATE 11/8/73

TABLE IV D-7 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												
Tabellaria fenestrata												
TOTAL DIATOMS			63142			31056			125511			90880
% of TOTAL			78.4			93.7			94.1			89.9
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus			29									29
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES			29									29
% of TOTAL			0.04									0.03
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.			286			57			543			286
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii			15785			1744			4861			7378
L. aerugineo-caerulea			315			14			86			
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS			16386			1815			5490			7664
% of TOTAL			20.3			5.5			4.1			7.6
TOTAL ALGAE			80587			33142			133346			101061
			99.4			99.8			100.0			100.0

DATE 11/8/73

TABLE IV D-7 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: X YES __NO)
GLASS SUBSTRATE X STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.			200			57						
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.			29									
Tokophrya sp.												
Vorticella sp.												
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia			257									
UID Vorticellidae						14						
UID Zooflagellata												

DATE 11/8/73

TABLE IV D-7 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE x__ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS			486			71						
% OF TOTAL			100			100						
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA			486			71			0			0
% OF GRAND TOTAL			0.6			0.2						
GRAND TOTAL			81073			33213			133346			101061

DATE 11/12/73

TABLE IV D-8
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus												
A. falcatus												
Characium sp.	46											
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.												
Cladophora sp.												
Closteriopsis longissima					17							
Closterium spp.												
Coelastrum cambricum												
C. microporum												
Cosmaruim sp.												
C. crenatum				16	17							
C. depressum												
C. formosulum												
C. nitidulum	46											
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata												
L. quadriseta												

DATE 11/12/73

TABLE IV D-8 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.								31				
Nephrocytium lunatum												
Oedogonium sp.								16				
Oocystis sp.												
O. Borgei					70							
O. parva												
O. solitaria												
Pandorina morum												
Pediastrum sp.												
P. biradiatum												
P. Boryanum												
P. duplex												
P. simplex												
P. tetras	364											
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga	820			211	209			62				
S. denticulatus												
S. dimorphus	137											
S. opaliensis												
S. obliquis												
S. quadricauda	273			65	105							
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile												
Stigeoclonium sp.												
S. tenue												
Tetraedron sp.												
T. caudatum												
T. minimum												

DATE 11/12/73

TABLE IV D-8 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3 x __ YES __ NO)
GLASS SUBSTRATE x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous												
UID unicellular	137											
UID zygospore	638			537	244			124				
TOTAL GREENS	2461			829	662			233				
% of TOTAL	1.5			1.5	0.4			0.1				
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% of TOTAL												
C. DIATOMS												
Asterionella formosa								31				
Cocconeis sp.												
Coscinodiscus subtilis					17							
Cyclotella sp.	137											
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.	91				17							
Melosira sp.	135286			43095	136012			182057				
Navicula spp.	8245			1855	1777			3077				
N. tripunctata	10386			3856	19898			32635				
Nitzschia sp.												
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

DATE 11/12/73

TABLE IV D-8 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE __ x STYROFOAM SUBSTRATE __

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												
Tabellaria fenestrata				146								
TOTAL DIATOMS	154145			48952	157721			217800				
% of TOTAL	91.1			90.1	99.4			99.5				
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus												
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES												
% of TOTAL												
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.				33								
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	12618			4490	366			932				
L. aerugineo-caerulea												
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS	12618	0	0	4523	366	0	0	932	0	0	0	0
% of TOTAL	7.5			8.3	0.2			0.4				
TOTAL ALGAE	169224			54304	158749			218965				
	99.9			99.9	100.0			99.9				

DATE 11/12/73

TABLE IV D-8 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: X YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
P. PROTOZOANS												
Acineta sp.	46			49				47				
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	46				70			202				
Tokophrya sp.				16								
Vorticella sp.								16				
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												

DATE 11/12/73

TABLE IV D-8 Cont'd
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE __x STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	92			65	70.			125				
% OF TOTAL	66.6			100.0	100.0			100.0.				
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES	46											
% of TOTAL	33.3											
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	138			65	70			125				
% OF GRAND TOTAL	.01			.1	.04			.06				
GRAND TOTAL	169362			54369	158819			219090				

APPENDIX IV-E

NINE MILE POINT BUOY PERIPHYTON - STYROFOAM SUBSTRATE

DATE 8/14/73

TABLE IV E-1

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)

GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE X

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.		78					97			15		
A. convolutus	63	19	5									10
A. falcatus												
Characium sp.												
C. limneticum												
C. ornithocephalum		39	74	45	98	82	35	23	30		3	
Chlamydomonas sp.								6				
Cladophora sp.	3											
Closteriopsis longissima												
Closterium spp.	126	78	40	39	20	36	6		4		2	
Coelastrum cambricum												
C. microporum	2351	736	598	1068	403	1476	1082	368	416	181	196	
Cosmarium sp.		39	15	13		18					2	2
C. crenatum	126	97	193	58					4	6	8	
C. depressum									9			
C. formosulum	38						10		17	3		
C. nitidulum	367	213	287	225	108	281	77	14	4			
Dictyosphaerium sp.												
D. ehrenbergianum				122			26		35			
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans						145						
Franceia ovalis												
Gloeocystis sp.	228											
G. gigas												
G. planctonica												
G. vesiculosa	607	1047	1072	572	187	1141	110	37	104	61	6	
Golenkinia sp.												
G. paucispina	13											
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.									91			
L. ciliata				6		9		6			2	
L. quadriseta												

DATE 8/14/73

TABLE IV E-1 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE X

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.							16					
Nephrocytium lunatum												
Oedogonium sp.	594	601	242	193	1043	326		43				
Oocystis sp.		155										
O. Borgei	607		361	367	443	761	32	135	17		144	25
O. parva												
O. solitaria												
Pandorina morum							32		35			
Pediastrum sp.												
P. biradiatum		116	59									
P. Boryanum	809	349	721	103		72	155		35		49	33
P. duplex	759		158	103	315	435				196		33
P. simplex							52		139	98	98	133
P. tetras	152											
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga	2137	1279	637	971	1270	1150	799	201	732	49	227	172
S. denticulatus												
S. dimorphus		116				54	13	23	17			
S. opaliensis												
S. obliquis			20	154		63						
S. quadricauda	1075	620	499	843	285	1159	435	147	338	37	49	8
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile	88	19	10	6		45	16		61	31	15	6
Stigeoclonium sp.												
S. tenue			1557	289		408						
Tetraedron sp.												
T. caudatum												
T. minimum	101	58	15	58	49	9			26		8	

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TABLE IV E-1 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE X

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.					10							
T. setigerum		39	15	13		18					2	2
Ulothrix sp.												
UID desmid filamentous						27						
UID unicellular												
UID zygospore	4741	562	15	765	325	190						
TOTAL GREENS	14985	6260	6595	6013	4556	7905	2993	1003	2114	677	809	422
% of TOTAL	17.7	8.2	67.6	54.6	16.3	66.9	15.0	20.4	16.2	36.1	50.1	35.5
B. EUGLENOIDS												
Euglena sp.	13		25			36		29		3	8	
TOTAL EUGLENOIDS	13	0	25	0	0	36	0	29	0	3	8	0
% of TOTAL	0.02	0.0	0.3	0.0	0.0	0.3	0.0	0.6	0.0	0.2	0.5	0.0
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.			5		30		29	3	43	21		
Coscinodiscus subtilis	367	194	104	58	89	181	90	35	74	31	2	2
Cyclotella sp.												
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.				13						61	15	
F. capucina						226	132		134	77		19
F. crotonensis												
Gyrosigma spp.												
Melosira sp.	1353	1182	64	109	403	181	589	43	143		5	14
Navicula spp.	13	19				9	16		13		2	
N. tripunctata										3		
Nitzschia sp.		19							4			
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

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TABLE IV E-1 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE X

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												
Tabellaria fenestrata												
TOTAL DIATOMS	1733	1414	173	180	522	597	856	81	411	193	24	35
% of TOTAL	2.0	1.9	1.8	1.6	1.9	5.1	4.3	1.6	3.2	10.3	1.5	3.0
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus	417	233	637	521	4133	589	667	388	589	582	742	149
Peridinium aciculiferum	25		10		10	9		9				
P. cinctum		19				9	6		9	3		
P. Wisconsinensis												
TOTAL DINOFLAGELLATES	442	252	647	521	4143	607	673	397	598	585	742	149
% of TOTAL	0.5	0.3	6.6	4.7	14.8	5.1	3.4	8.1	4.6	31.2	46.0	12.5
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.		969	5	3216								
Chroococcus sp.	202		138	26		154						
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris	202	620	59	77		118						
Lyngbya Diguetii	65233	66666	2036	965	18699	2373	15426	3404	9924	419		582
L. aerugineo-caerulea												
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.	1770		74			9					31	
TOTAL BLUE-GREENS	67407	68255	2312	4284	18699	2654	15426	3404	9924	419	31	582
% of TOTAL	79.7	89.6	23.7	39.0	67.0	22.5	77.3	69.3	76.1	22.3	1.9	49.0
TOTAL ALGAE	84580	76181	9735	10985	27920	11781	19948	4914	13047	1877	1614	1188
% OF GRAND TOTAL	99.95	99.8	99.3	97.8	99.6	96.8	98.5	93.4	97.6	84.9	91.9	81.3

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TABLE IV E-1 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE X

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.		19	20	142	69	208	103	187	238	101	98	236
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.						63						
Codonella sp.												
Codonocladium sp.												
Didinium sp.			10			9						
Epistylis sp.									17			
Paracineta sp.							6		9			
Periacineta sp.										9		
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.		39	20	77		45	145	78	22	178	38	27
Thecacineta sp.				6		18	3			34		10
Tokophrya sp.	38	19	20	13	20	45	39	58	30	9	6	
Vorticella sp.												
Zoothamnium sp.		19			10			17				
UID Acinetidae												
UID Actinopoda				13	10			9				
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina									4			
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda		19								3		
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												

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TABLE IV E-1 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: __YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE _X_

GROUP	DEPTH 2'			DEPTH 7'			DEPTH 12'			DEPTH 17'		
	NMPW	NMPP	NMPE	NMPW	NMPP	NMPE	NMPW	NMPP	NMPE	NMPW	NMPP	NMPE
TOTAL PROTOZOANS	38	115	70	251	109	388	296	349	320	334	142	273
% OF TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	38	115	70	251	109	388	296	349	320	334	142	273
% OF GRAND TOTAL	0.05	0.02	0.7	2.2	0.4	3.2	1.5	6.6	2.4	15.1	8.1	18.7
GRAND TOTAL	84618	76296	9805	11253	28029	12169	20244	5263	13367	2211	1756	1461

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TABLE IV E-2
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.	46		198				77				31	
A. convolutus												
A. falcatus												
Characium sp.	138	255	502	253	339	902	240	446	726	191	62	230
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.												
Cladophora sp.	.056	.263	.764	.169	.600	.643		.200	.563			
Closteriopsis longissima												
Closterium spp.												
Coelastrum cambricum												
C. microporum	1198	1910	3263	1201	2936	2465	1647	551	1034	338	568	393
Cosmarium sp.												
C. crenatum	46		31	67	28		8			5	18	
C. depressum	276	170	282			132	124	39	25	25		13
C. formosulum	138	170	94		85	88		26	49	30	22	6
C. nitidulum	46	85	157	227	198	154	77					6
Dictyosphaerium sp.												
D. ehrenbergianum			941									
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans				107				157	135			137
Franceia ovalis			63									
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa	184			587	226			157	689	30	67	26
Golenkinia sp.												
G. paucispina												
G. radiata						44				5		
Kirchneriella subsolitaria			157			242		171	197	25	67	
Lagerheimia sp.					28	22		15	13		4	4
L. ciliata												
L. quadriseta												

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TABLE IV E-2 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa								13				
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.												
Nephrocytium lunatum				160						20		
Oedogonium sp.												
Oocystis sp.							108			40		
O. Borgei		85	941	467	565	352		92				128
O. parva												
O. solitaria												
Pandorina morum											36	
Pediastrum sp.												
P. biradiatum												
P. Boryanum	737	340	2510			66				242		
P. duplex	737	679		534	677		433	315	591	242	71	239
P. simplex		1358	1004	107		264			394	161	71	17
P. tetras									49	40		
Quadriqula Chodatii				27	226							
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												9
S. bijuga	1935	2335	1412	1054	1976	2421	1555	564	1280	353	231	442
S. denticulatus		42										
S. dimorphus			94	213	113		333	315	197	40	36	9
S. opaliensis												
S. obliquis					113							
S. quadricauda	1520	2122	2227	1014	1919	1629	828	840	1243	307	249	685
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile	92	255		13	56		31	52	123	40	27	19
Stigeoclonium sp.												
S. tenue						330	116	157			53	
Tetraedron sp.												
T. caudatum												
T. minimum	138		63	27	113	198	31	66	37	55	13	19

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TABLE IV E-2 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum			31	27	28		15	13	12	5		
Ulothrix sp.												
UID desmid filamentous												
UID unicellular						88			37			
UID zygospore	2881	5094	6024	2548	5589	5943	1624	1102	2953			493
TOTAL GREENS	10112	14900	19797	8660	15216	15561	7301	5089	9797	2194	1626	2888
% of TOTAL	10.4	16.9	23.0	26.0	65.6	16.4	27.2	14.9	17.5	15.5	15.4	24.7
B. EUGLENOIDS												
Euglena sp.									12			
TOTAL EUGLENOIDS									12			
% of TOTAL									0.02			
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis				120								
Cyclotella sp.	323	212	63	120	198	352	147	66	86	156	98	45
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.				80								
F. capucina												
F. crotonensis												2
Gyrosigma spp.												
Melosira sp.	2073	3438	502	1027	1016	1299	719	1667	1969	1245	497	559
Navicula spp.	46	85	63			44	39	52	25	50	22	13
N. tripunctata		42						13	12	10	9	
Nitzschia sp.												
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

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TABLE IV E-2 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.				40								
Tabellaria fenestrata												
TOTAL DIATOMS	2442	3777	628	1387	1214	1695	905	1824	2116	1461	626	619
% of TOTAL	2.5	4.3	.7	4.2	5.2	1.8	3.4	5.3	3.7	10.3	5.9	5.3
D. DINOFLAGELLATES												
Ceratium hirundinella											4	2
Glenodinium Pulvisculus		85	31	27			8			10		2
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES		85	31	27			8			10	4	4
% of TOTAL		0.1	0.03	0.1			0.03			.1	0.04	.03
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.	276	340	659		565	616	456	131	160	40	36	90
C. limneticus												
Coelosphaeruim Kuetzingianum			1569							1260	222	171
C. Naegelianum												
Gomphosphaeria lacustris				854	1919							
Lyngbya Diguetii	81779	66853	61648	22147	4163	77034	18176	27167	43827	9180	7989	7808
L. aerugineo-caerulea	2211	2080	1537	213	113	154	31	52	160	20	22	2
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa										20		
Oscillatoria sp.												
TOTAL BLUE-GREENS	84266	69273	65413	23214	6760	77804	18663	27350	44147	10520	8869	8148
% of TOTAL	87.0	78.7	76.2	69.7	29.2	81.8	69.4	79.8	78.7	74.1	18.6	69.9
TOTAL ALGAE	96820	88035	85869	33288	23190	95060	26877	34263	56060	14185	10525	11659
	99.5	99.6	99.96	99.92	100.0	99.7	99.7	99.4	99.8	99.0	98.9	99.6

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TABLE IV E-2 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE ___x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.								13		10		
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.	138	42					8	52				
Paracineta sp.												
Periacineta sp.						22						
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.		42				22	15		37	50	13	4
Tokophrya sp.												
Vorticella sp.	276	297	31	27		198	39	118	74	71	102	38
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora	46					22				5		
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae											4	
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												

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TABLE IV E-2 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
TOTAL PROTOZOANS	460	381	31	27		264	62	180	111	136	119	42
% OF TOTAL	100.0	100.0	100.0	100.0		100.0	72.9	93.3	100.0	93.2	100.0	84.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.							23	13		10		6
Keratella cochlearis												2
Lepadella sp.												
Lecane sp.												
UID Flosculariacea												
TOTAL ROTIFERS												
% of TOTAL							23	13		10		8
H. DIPTERANS												
% of TOTAL							27.1	6.7		6.8		16.0
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	460	381	31	27		264	85	193	111	146	119	50
% OF GRAND TOTAL	0.5	0.4	.04	0.08	0.0	0.3	0.3	0.6	0.2	1.0	1.1	0.4
GRAND TOTAL	97280	88416	85900	33315	23190	23454	95145	34456	56171	14331	10644	11709

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TABLE IV E-3
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus		23										
A. falcatus	25							15				
Characium sp.												
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.	25											
Cladophora sp.											3	
Closteriopsis longissima												
Closterium spp.	25							15				
Coelastrum cambricum												
C. microporum	2210	915	159	85	236	1795	71	44	834	475		13
Cosmaruim sp.												
C. crenatum	50	23	20			20						
C. depressum		229										
C. formosulum											3	
C. nitidulum					15	20						
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica			20						17			
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa		92										
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata							12					
L. quadriseta												

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TABLE IV E-3 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.							12					
Nephrocytium lunatum					118							
Oedogonium sp.		5399		85		61						21
Oocystis sp.												
O. Borgei	100	183	79				48				10	
O. parva					30							
O. solitaria				28	15							
Pandorina morum												
Pediastrum sp.												
P. biradiatum		183	318									
P. Boryanum										350		
P. duplex			278	455	946	326						
P. simplex		1144			118							
P. tetras						82						
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans					118	245						
S. acuminatus												
S. arcuatus							48					
S. bijuga	1255	2013	199	114	443	490	48	177	209	300	33	
S. denticulatus												
S. dimorphus	100		159	114	59	82			70	100		
S. opaliensis												
S. obliquis												
S. quadricauda	703	1235	437	1080	886	1142	95	266		175		17
Schroederia sp.												
S. setigera	25			28						25		
Staurastrum sp.												
S. gracile	25	46										
Stigeoclonium sp.												
S. tenue		58337										
Tetraedron sp.												
T. caudatum												
T. minimum												

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TABLE IV E-3 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum										25		
Ulothrix sp.												
UID desmid filamentous												
UID unicellular								133		200	3	
UID zygospore	2034	2219	814	2274	1433	1816	346	222	295	849	3	
TOTAL GREENS	6577	72041	2483	4263	4417	6079	680	872	1425	2499	55	51
% of TOTAL	19.2	14.6	8.9	10.5	10.8	28.2	1.8	3.6	2.4	6.0	2.6	1.7
B. EUGLENOIDS												
Euglena sp.				85	15			30		100		
TOTAL EUGLENOIDS				85	15			30		100		
% of TOTAL				0.2	0.04			0.1		0.2		
C. DIATOMS												
Asterionella formosa							24	30			3	
Cocconeis sp.							24		17	50	13	
Coscinodiscus subtilis	126	160	40	85								
Cyclotella sp.				57	118	82		15		50		
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.							24					
F. capucina									17		3	
F. crotonensis										25		
Gyrosigma spp.	50									50		
Melosira sp.												
Navicula spp.	7709	5216	11503	16541	32800	12504	30384	20094	33429	24650	1814	2097
N. tripunctata		46	258	1279		41	405	133	330	524	30	21
Nitzschia sp.	5725	4209	3973	11880	931			1256		1523		
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.										25		
S. Hantzschii												
Surirella sp.												

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TABLE IV E-3 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.				28		1469	1037					
Tabellaria fenestrata												
TOTAL DIATOMS	13610	9631	15774	29870	33849	14096	31898	21528	33793	26897	1863	2118
% of TOTAL	39.8	2.0	56.3	73.7	82.7	65.5	84.7	88.5	55.7	64.1	86.4	72:6
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus												
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES												
% of TOTAL												
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.	100	137									30	26
C. limneticus												
Coelosphaeruim Kuetzingianum						1306						
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	11400	410738	9576	6338	2659		5064	1802	25276	12437	184	698
L. aerugineo-caerulea	2511	801	199			41						26
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima								89	139			
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS	14011	411676	9775	6338	2659	1347	5064	1891	25415	12437	214	750
% of TOTAL	41.0	83.4	34.9	15.6	6.5	6.3	13.5	7.8	41.9	29.7	10.0	25.7
TOTAL ALGAE	34198	493348	28032	40556	40940	21522	37642	24321	60633	41933	2132	2919
	100	100	99.6	99.9		99.9	99.8	99.6	99.9	99.5	95.6	96.1

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TABLE IV E-3 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.		23	40				12	15		25	20	38
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.		23										
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.				28		48				125	40	17
Thecacineta sp.												9
Tokophrya sp.												
Vorticella sp.												
Zoothamnium sp.			20		15	20						
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae										50		
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda		69	40						35		16	34
UID Sessilia		23	22				12	59		25	23	21
UID Vorticellidae								15				
UID Zooflagellata												

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TABLE IV E-3 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS		138	122	28	15	20	72	89	35	225	99	119
% OF TOTAL		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA		138	122	28	15	20	72	89	35	225	99	119
% OF GRAND TOTAL		.03	0.4	0.07	0.04	0.09	0.2	0.4	.06	0.5	4.4	3.9
GRAND TOTAL		493486	28154	40584	40955	21542	37714	24410	60668	42198	2231	3038

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TABLE IV E-4
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii			656	408		272		458				
Ankistrodesmus sp.												
A. convolutus				34								
A. falcatus				68								
Characium sp.												
C. limneticum	73			34								61
C. ornithocephalum												
Chlamydomonas sp.							47					82
Cladophora sp.	138.2	287.2	34	8.7	666	81.4	83.6	13.2	18.1			5.2
Closteriopsis longissima								115				
Closterium spp.				34		34						
Coelastrum cambricum			1312		1543							
C. microporum	4948	17879	2133	4080	6173	3815	2630	4067	818			3108
Cosmaruim sp.	109			204	965		47					
C. crenatum	109	215		272	193		94	57	51			
C. depressum												
C. formosulum												
C. nitidulum	1601	1508	574	170	193	613			204			
Dictyosphaerium sp.												
D. ehrenbergianum												102
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica							47					
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa			820		3087							164
Golenkinia sp.												
G. paucispina												
G. radiata				34								
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata				34								
L. quadriseta												

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TABLE IV E-4 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum	36			102		34						
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum		431							51			20
Ulothrix sp.		1723		850								82
UID desmid filamentous												
UID unicellular		4093	246		193		658	1604				
UID zygospore	8623	4524	1969	12001	5209	4564	3053	6473	2197			2024
TOTAL GREENS	49620	91404	21935	35469	28330	16360	17274	21150	5792			12087
% of TOTAL	42.9	43.7	38.8	35.0	28.5	31.8	26.1	21.5	20.1			15.3
B. EUGLENOIDS												
Euglena sp.		215			96							41
TOTAL EUGLENOIDS		215			96							41
% of TOTAL		0.1			0.1							0.05
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis	109			340	193			57				20
Cyclotella sp.		646	82		772	238	470	344	51			
Cymbella sp.		1723	7137	34				2062				
Diatoma elongatum												
Fragilaria sp.												
F. capucina												
F. crotonensis	36			102								
Gyrosigma spp.	36		82	34			47					20
Melosira sp.						136						
Navicula spp.	20848	55145	13371	33045	40416	23773	28180	52930	11345			40971
N. tripunctata	509	862	820	476	868	307	704	687	102			61
Nitzschia sp.		1939	82	170	289	1635	470	1432				1227
N. vermicularis												
Rhoicosphenia curvata	36											
Stephanodiscus sp.												
S. Hantzschii												20
Surirella sp.												

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TABLE IV E-4 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES ___ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.			7055									
Nephrocytium lunatum												
Oedogonium sp.		3877										
Oocystis sp.												
O. Borgei	291		492	680	1447							
O. parva							47	115				245
O. solitaria	437			204		102			51			143
Pandorina morum												
Pediastrum sp.												
P. biradiatum	546											
P. Boryanum		1292										
P. duplex	691			2074		1635		2750				1308
P. simplex		6893		1632	965	307	5260	458				879
P. tetras	146											
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans				544	193							
S. acuminatus												
S. arcuatus												
S. bijuga	2765	13355	2625	3026	2894	1839	2254	1489	767			1227
S. denticulatus												
S. dimorphus	146	862		136		272		458	204			
S. opaliensis												
S. obliquis				272			188					82
S. quadricauda	3857	12709	4019	3060	5112	2588	2630	3036	1329			2494
Schroederia sp.												
S. setigera						34	188	57	102			
Staurastrum sp.												
S. gracile				34	96	34	47					61
Stigeoclonium sp.												
S. tenue	24777	21541	5303									
Tetraedron sp.												
T. caudatum	109			34		68						
T. minimum	218	215		136		68						

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TABLE IV E-4 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												
Tabellaria fenestrata			656									
TOTAL DIATOMS	21574	60315	22230	34201	42538	26089	29871	57512	11498			42319
% of TOTAL	18.7	28.9	39.3	33.7	42.8	50.7	45.1	58.4	39.9			53.6
D. DINOFLAGELLATES												
Ceratium hirundinella												20
Glenodinium Pulvisculus	36			34								
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES	36			34								20
% of TOTAL	0.03			0.03								0.03
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.	800	862		1564	1640		188					634
C. limneticus				374	193							164
Coelosphaeruin Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris								2864				
Lyngbya Diguetii	33728	50190	6727	27333	25079	8447	18599	15638	11549			23552
L. aeruginco-caerulea	7204	4954	5414	2414	1061		282	1375				184
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa	2620											
Oscillatoria sp.		1077	246		386	511						
TOTAL BLUE-GREENS	44352	57083	12387	31685	28359	8958	19069	19877	11549			24534
% of TOTAL	38.4	27.3	21.9	31.3	28.6	17.4	28.8	20.2	40.0			31.3
TOTAL ALGAE	115582	209017	56552	101389	99323	51407	66214	98539	28839			79001
	100	100	99.6	99.9	99.2	99.8	99.1	99.8	99.0			99.6

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TABLE IV E-4 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
F. PROTOZOANS												
Acineta sp.	36			34	96		47					20
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												20
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.				68	386	34	188	57				102
Tokophrya sp.							94		102			
Vorticella sp.						34	94	57	204			
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora					96							
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae							47					
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia				34								184
UID Vorticellidae			246		193	34	141	57				
UID Zooflagellata												

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TABLE IV E-4 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	36		246	136	771	102	611	171	306			326
% OF TOTAL	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES												
% of TOTAL												
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	36	0	246	136	771	102	611	171	306			326
% OF GRAND TOTAL	0.03		0.4	0.1	0.8	0.2	0.9	0.2	1.0			0.4
GRAND TOTAL	115618	209017	56798	101525	100094	51509	66825	98710	29145			79327

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TABLE IV E-5
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE ___:STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii				273			167					
Ankistrodesmus sp.												
A. convolutus												
A. falcatus				102								
Characium sp.						39	21	27				
C. limneticum			68									
C. ornithocephalum		41									35	
Chlamydomonas sp.		673							64			
Cladophora sp.	321		101	1	188	41	10	6	.33		.03	.31
Closteriopsis longissima				34		39						
Closterium spp.												
Coelastrum cambricum												
C. microporum	2492	243	2708	3066	1537	3934	2861	1060	4121		567	863
Cosmaruim sp.												
C. crenatum	208		135	204	57	39	209	27	64			
C. depressum				102								
C. formosulum												
C. nitidulum	1537	730	1219	1022	284	540	251		64			
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Glococystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa				273								
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata												
L. quadriseta												

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TABLE IV E-5 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.	208											
Nephrocytium lunatum												
Oedogonium sp.			135	545		77	63		515		354	
Oocystis sp.												
O. Borgei	42		271									
O. parva					228	309	84					
O. solitaria			271									78
Pandorina morum												
Pediastrum sp.												
P. biradiatum												
P. Boryanum	665	649		1090				106	773		567	
P. duplex	332			545	911	771	167	1272	2060			1255
P. simplex	83		2438	1635			1670	133	515			2392
P. tetras	249	568	474	273		154						157
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans	166		135									
S. acuminatus												
S. arcuatus												
S. bijuga	5982	1298	3453	2998	2448	3317	3174	1352	2769		1416	314
S. denticulatus					228							
S. dimorphus	457			68	228		84	318	258			
S. opaliensis												
S. obliquis		324										
S. quadricauda	1745	3204	2979	2896	4440	3934	3111	3021	1932		779	1686
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile												
Stigeoclonium sp.												
S. tenue	12171		3386	66632	5693	2314	940					
Tetraedron sp.												
T. caudatum			68									
T. minimum	83					39	21	27				

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TABLE IV E-5 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum			68									
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous												
UID unicellular		41	203	886		2005	1232		1932			
UID zygospore	3448	3325	15235	7086	3188	4589	8206	7050	9917		7861	5628
TOTAL GREENS	30189	11096	33347	89731	19430	22141	22271	14399	24984.33		11579.03	12451.31
% of TOTAL	43.5	19.2	9.3	49.0	20.6	14.6	19.0	12.5	14.8		11.5	18.1
B. EUGLENOIDS												
Euglena sp.									129			
TOTAL EUGLENOIDS									129			
% of TOTAL									.08			
C. DIATOMS												
Asterionella formosa			68		57							
Cocconeis sp.						39		27	129		35	
Coscinodiscus subtilis				68	57	231	230	106	129			
Cyclotella sp.	42		68	307	171	694	501	53	773		35	20
Cymbella sp.	42	162	2031		854	386	21		129		35	
Diatoma elongatum												
Fragilaria sp.		4055										
F. capucina						617	84					
F. crotonensis							42		129			
Gyrosigma spp.				68	57	39					35	
Melosira sp.			542									50356
Navicula spp.	27583	34428	67035	58661	53286	50908	73915	91116	88479		83180	
N. tripunctata	831	162	135	4360	1252	262	6368	742	6697		1735	373
Nitzschia sp.	415	203	1016	6132	740	4628	7204	742	10818		4462	490
N. vermicularis												
Rhoicosphenia curvata		41							64			20
Stephanodiscus sp.												
S. Hantzschii												
Surirella sp.												

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TABLE IV E-5 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE __ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.								27				
Tabellaria fenestrata												
TOTAL DIATOMS	28913	39051	70895	69596	56474	57804	88365	92813	107347		89517	51259
% of TOTAL	41.7	67.6	19.8	38.0	60.0	38.2	75.4	80.6	63.7		83.5	74.7
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus											35	
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES											35	
% of TOTAL											.03	
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.		608										
Aphanocapsa sp.												
Chroococcus sp.			1557		57	1041	292	2544	644			61
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii	8807	6042	250127	22654	15314	68572	4990	5301	33357		5205	4824
L. aerugineo-caerulea	1454	933	1896	579	2903	964	251	27	644			
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa				579		926	1002		1481			
Oscillatoria sp.												
TOTAL BLUE-GREENS	10261	7583	253580	23812	18274	71503	6535	7872	36126		5205	4885
% of TOTAL	14.8	13.1	70.9	13.0	19.4	47.2	5.6	6.8	21.4		4.9	7.1
TOTAL ALGAE	69363	57730	357822	183139	94178	151448	117171	115084	168586.33		106336.03	68595.31
	99.4	99.7	99.9	99.9	99.8	99.8	99.7	100.0	99.8		100.0	99.9

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TABLE IV E-5 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE __ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
F. PROTOZOANS												
Acineta sp.	42		68									
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.	208	122	271			116	84		193			
Tokophrya sp.					114							
Vorticella sp.				34	57		21		64			20
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora			68									
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia			68									
UID Vorticellidae		41				116	146					
UID Zooflagellata				3-261								

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TABLE IV E-5 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3 x __YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	DEPTH 2' NMPP	DEPTH 2' NMPE	DEPTH 7' NMPW	DEPTH 7' NMPP	DEPTH 7' NMPE	DEPTH 12' NMPW	DEPTH 12' NMPP	DEPTH 12' NMPE	DEPTH 17' NMPW	DEPTH 17' NMPP	DEPTH 17' NMPE
TOTAL PROTOZOANS	250	163	475	34	171	232	272		257			20
% OF TOTAL	60.1	100.0	100.0	33.3	100.0	100.0	86.6		100.0			50.0
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.							21					20
UID Floscularlacea				34								
Codonella sp.							21					
TOTAL ROTIFERS				34			42					20
% of TOTAL				33.3			13.4					50.0
H. DIPTERANS												
% of TOTAL												
I. NEMATODES	166			34								
% of TOTAL	40.0			33.3								
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA	416	163	475	102	171	232	314		257			40
% OF GRAND TOTAL	.6	.3	.1	.1	.2	.2	.3		.2			.06
GRAND TOTAL	69779	57893	358397	183241	94349	151680	117485	115084	168843.33		106366.03	68635.31

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TABLE IV E-6
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus												
A. falcatus												
Characium sp.												
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.												
Cladophora sp.			1457	112	0.06	49	343	510	21			
Closteriopsis longissima							54					
Closterium spp.			34									
Coelastrum cambricum			1923									
C. microporum			790	761	298	602	1086	1342	2218			
Cosmaruim sp.												
C. crenatum					74	100	54		35			
C. depressum			69									
C. formosulum												
C. nitidulum			1167	761	894	401	163	235	493			
Dictyosphaerium sp.												
D. chrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa			137						563			
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.					37			24				
L. ciliata												
L. quadriseta												

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TABLE IV E-6 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: _x_YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE ___

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.									70			
Nephrocytium lunatum												
Oedogonium sp.					1117							
Oocystis sp.												
O. Borgei			309		74							
O. parva						100		24	352			
O. solitaria												
Pandorina morum												
Pediastrum sp.												
P. biradiatum												
P. Boryanum			549					753				
P. duplex						602	1738					
P. simplex					894	175				775		
P. tetras										282		
Quadriqula Chodatii												
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga			1236	2569	1415	1504	1086	1812	165			
S. denticulatus							271					
S. dimorphus			412			201		165	282			
S. opaliensis				95								
S. obliquis												
S. quadricauda			1786	1285	1750	1855	2824	1553	1901			
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile			34				271		35			
Stigeoclonium sp.				10587				188	845			
S. tenue												
Tetraedron sp.												
T. caudatum												
T. minimum					37	25			35			

TABLE IV E-6 (continued)

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NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)

GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous						301	217	708	1021			
UID unicellular			1236	5067	1824	5440	5810	6002	4471			
UID zygospore												
TOTAL GREENS			11139	21237	8414	11355	13574	12806	13564			
% of TOTAL			20.1	19.3	16.4	26.2	14.3	9.3	10.2			
B. EUGLENOIDS												
Euglena sp.								71	211			
TOTAL EUGLENOIDS								71	211			
% of TOTAL								0.0	0.2			
C. DIATOMS												
Asterionella formosa			34					24				
Cocconeis sp.			34	24	37			71	141			
Coscinodiscus subtilis							272	894	493			
Cyclotella sp.			2781			251	217	259	35			
Cymbella sp.												
Diatoma elongatum							2715	1224	845			
Fragilaria sp.									915			
F. capucina												
F. crotonensis				24				24	70			
Gyrosigma spp.					74							
Melosira sp.			29050	77580	31050	22514	62558	82612	73196			
Navicula spp.			1442	333	1452	1254	1955	6661	5633			
N. tripunctata			34		856		652	7908	7922			
Nitzschia sp.												
N. vermicularis			412		149	25						
Rhoicosphenia curvata												
Stephanodiscus sp.								24	141			
S. Hantzschii								24	70			
Surirella sp.												

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TABLE IV E-6 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.			137		596			24				
Tabellaria fenestrata								71	70			
TOTAL DIATOMS			33924	77961	34214	24044	68369	99820	89531			
% of TOTAL			61.1	71.0	66.6	55.4	72.4	72.6	67.7			
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus												
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES												
% of TOTAL												
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.								141	141			
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris			1717									
Lyngbya Diguetii			7177	10563	8563	4964	9992	24525	28624			
L. aerugineo-caerulea			1580		150	2933	760	188	246			
Merismopedia sp.							1738					
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.						125						
TOTAL BLUE-GREENS			10474	10563	8713	8022	12490	24854	29011			
% of TOTAL			18.9	9.6	17.0	18.5	13.2	18.1	21.9			
TOTAL ALGAE			55537	109761	51341	43421	94433	137551	132317			
			99.4	99.97	99.7	99.8	99.6	99.9	99.95			

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TABLE IV E-6 (continued)

NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)

(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)

GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
F. PROTOZOANS												
Acineta sp.												
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.						25	54					
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.			275		112		163		35			
Tokophrya sp.						25	108					
Vorticella sp.								24				
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia				24								
UID Vorticellidae			34		37	25	54	47	35			
UID Zooflagellata												

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TABLE IV E-6 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS	0	0	309	24	149	75	379	71	70	0	0	0
% OF TOTAL			100.0	100.0	100.0	100.0	100.0	74.7	100.0			
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES								24				
% of TOTAL								25.3				
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA			309	24	149	75	379	95	70			
% OF GRAND TOTAL			0.6	0.02	0.3	0.2	0.4	0.07	0.05			
GRAND TOTAL			55846	109785	51490	43496	94812	137646	132387			

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TABLE IV E-7
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
A. Greens												
Actinastrum Hantzschii												
Ankistrodesmus sp.												
A. convolutus												
A. falcatus												
Characium sp.												
C. limneticum												
C. ornithocephalum												
Chlamydomonas sp.												
Cladophora sp.					25.4			.765				
Closteriopsis longissima												
Closterium spp.												
Coelastrum cambricum												
C. microporum					330			1392				
Cosmaruim sp.												
C. crenatum								43				
C. depressum								218				
C. formosulum												
C. nitidulum					701							
Dictyosphaerium sp.												
D. ehrenbergianum												
D. pulchellum												
Dimorphococcus lunatus												
Echinosphaerella limnetica												
Eudorina elegans												
Franceia ovalis												
Gloeocystis sp.												
G. gigas												
G. planctonica												
G. vesiculosa												
Golenkinia sp.												
G. paucispina												
G. radiata												
Kirchneriella subsolitaria												
Lagerheimia sp.												
L. ciliata					41							
L. quadriseta												

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TABLE IV B-7 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE __ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
L. subsolsa												
Micractinium pusillum												
Microspora sp.												
Mougeotia sp.												
Nephrocytium lunatum												
Oedogonium sp.												
Oocystis sp.												
O. Borgei												
O. parva								174				
O. solitaria												
Pandorina morum												
Pediastrum sp.												
P. biradiatum												
P. Boryanum												
P. duplex					41							
P. simplex												
P. tetras												
Quadriqula Chodatii								261				
Scenedesmus sp.												
S. abundans												
S. acuminatus												
S. arcuatus												
S. bijuga					2267			1566				
S. denticulatus												
S. dimorphus												
S. opaliensis												
S. obliquis												
S. quadricauda					2184			1305				
Schroederia sp.												
S. setigera												
Staurastrum sp.												
S. gracile												
Stigeoclonium sp.												
S. tenue												
Tetraedron sp.												
T. caudatum												
T. minimum								43				

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TABLE IV E-7 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
T. muticum												
Tetrastrum staurogeniaeforme												
Treubaria sp.												
T. setigerum												
Ulothrix sp.												
UID desmid filamentous												
UID unicellular												
UID zygospore					3091			4525				
TOTAL GREENS					8680			9528				
% of TOTAL					19.5			6.4				
B. EUGLENOIDS												
Euglena sp.												
TOTAL EUGLENOIDS												
% of TOTAL												
C. DIATOMS												
Asterionella formosa												
Cocconeis sp.												
Coscinodiscus subtilis												
Cyclotella sp.												
Cymbella sp.												
Diatoma elongatum												
Fragilaria sp.												
F. capucina												
F. crotonensis												
Gyrosigma spp.					41							
Melosira sp.												
Navicula spp.					30743			40985				
N. tripunctata					701			1305				
Nitzschia sp.								69178				
N. vermicularis												
Rhoicosphenia curvata												
Stephanodiscus sp.												
S. Hantzschii								43				
Surirella sp.												

DATE 11/12/73

TABLE IV E-7 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: X YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE X

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
Synedra sp.												
Tabellaria fenestrata												
TOTAL DIATOMS					31485			111511				
% of TOTAL					70.7			74.9				
D. DINOFLAGELLATES												
Ceratium hirundinella												
Glenodinium Pulvisculus												
Peridinium aciculiferum												
P. cinctum												
P. Wisconsinensis												
TOTAL DINOFLAGELLATES												
% of TOTAL												
E. BLUE-GREENS												
Aphanizomenon flos-aquae												
Anabaena sp.												
Aphanocapsa sp.												
Chroococcus sp.					288			305				
C. limneticus												
Coelosphaeruim Kuetzingianum												
C. Naegelianum												
Gomphosphaeria lacustris												
Lyngbya Diguetii					4039			26888				
L. aeruginco-caerulea					41			566				
Merismopedia sp.												
M. elegans												
M. glauca												
M. tenussima												
Microcystis aeruginosa												
Oscillatoria sp.												
TOTAL BLUE-GREENS					4368			27759				
% of TOTAL					9.8			18.6				
TOTAL ALGAE					44533			148798				
					99.3			100				

DATE 11/12/73

TABLE IV E-7 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
P. PROTOZOANS												
Acineta sp.					41							
Anarma sp.												
Astrophrya sp.												
Carchesium sp.												
Cephalothamnion sp.												
Codonella sp.												
Codonocladium sp.												
Didinium sp.												
Epistylis sp.												
Paracineta sp.												
Periacineta sp.												
Podophrya sp.												
Rhabdostyla sp.												
Sphaerophrya sp.												
Staurophrya sp.												
Thecacineta sp.												
Tokophrya sp.												
Vorticella sp.												
Zoothamnium sp.												
UID Acinetidae												
UID Actinopoda												
UID Amphileptidae												
UID Ciliophora												
UID Ctenostomata												
UID Discophryidae												
UID Epalcidae												
UID Epistylidae												
UID Gymnostomina												
UID Metacystidae												
UID Oligotrichina												
UID Ophryidae												
UID Peritricha												
UID Podophryidae												
UID Protozoan												
UID Rhizopoda												
UID Sessilia												
UID Vorticellidae												
UID Zooflagellata												

DATE 11/12/73

TABLE IV E-7 (continued)
NINE MILE POINT BUOY PERIPHYTON (CELLS/dm^2)
(ALL DENSITY DATA TO BE MULTIPLIED BY 10^3: x YES __ NO)
GLASS SUBSTRATE ___ STYROFOAM SUBSTRATE x

GROUP	DEPTH 2' 1 NMPW	NMPP	NMPE	DEPTH 7' NMPW	NMPP	NMPE	DEPTH 12' NMPW	NMPP	NMPE	DEPTH 17' NMPW	NMPP	NMPE
TOTAL PROTOZOANS					82							
% OF TOTAL					24.8							
G. ROTIFERS												
Ascoonorpha sp.												
Asplanchna sp.												
Brachionus sp.												
Keratella cochlearis												
Lepadella sp.												
Lecane sp.												
UID Floscularlacea												
TOTAL ROTIFERS												
% of TOTAL												
H. DIPTERANS												
% of TOTAL												
I. NEMATODES					248							
% of TOTAL					75.2							
J. HYDROIDS												
% of TOTAL												
K. GASTROPODS												
% of TOTAL												
TOTAL FAUNA					330							
% OF GRAND TOTAL					0.7							
GRAND TOTAL					44863			148798				

APPENDIX IV-F

STATISTICAL RESULTS OF BUOY AND BOTTOM PERIPHYTON

TABLE IV F-1

THREE-WAY ANALYSIS OF VARIANCE OF *CLADOPHORA* DENSITIES ON STYROFOAM SUBSTRATES ON THE NMPW, NMPP, AND NMPE BUOY STATIONS

	df	SS	MS	F
DEPTH	2	0.033	0.017	0.036
TRANSECT	2	1.605	0.802	1.714
DATE	4	19.651	4.913	10.498*
DEPTH X TRANSECT	4	1.022	0.255	0.545
DATE X DEPTH	8	0.696	0.087	0.186
TRANSECT X DATE	8	1.050	0.131	0.280
TRANSECT X DATE X DEPTH	16	7.481	0.468	
TOTAL	44	31.538		

* Significant difference within source of variance at $\alpha = 0.05$

Critical F-values: $F_{2,\ 16} = 3.63$; $F_{4,\ 16} = 3.01$; $F_{8,\ 16} = 2.59$

TABLE IV F-2

THREE-WAY ANOVA FOR PRODUCTION RATES
OF BOTTOM PERIPHYTON
AT NINE MILE POINT 1973
(8/15 and 8/30/73)

SOURCE	d.f.	ss	ms	f-ratio
DEPTH	3	0.041	0.014	3.50
TRANSECT	3	0.133	0.044	11.00*
DATE	1	0.001	0.001	0.25
DEPTH X TRANSECT	9	0.031	0.003	0.75
DEPTH X DATE	3	0.017	0.006	1.50
TRANSECT X DATE	3	0.021	0.007	1.75
ERROR	9	0.037	0.004	
TOTAL	31	0.280		

*Significant differences within source of variance at $\alpha = 0.05$

Critical f-values: $F_{3,9} = 3.86$; $F_{9,9} = 3.18$

Least Significant Difference Test for
Differences in Production Rates Between
Transects

Transect:	NMPP	NMPW	NMPE	FITZ

TABLE IV. F-3

ANALYSIS OF VARIANCE FOR PRODUCTION RATES ($mg/dm^2/day$) FOR AUGUST 14, 1973 BUOY PERIPHYTON SUBSTRATES TRANSECTS AND DEPTH

S OF V	df	SS	MS	F
depth	3	.1541	.0514	13.892 $p < .01$
transect	2	.1003	.0502	13.568 $p < .01$
error	6	.0223	.0037	
total	11	.2768		

APPENDIX IV-G

STUDENT-NEWMAN-KUELS RESULTS FOR BUOY PERIPHYTON

TABLE IV G-1

STUDENT - NEWMAN - KUELS
TEST FOR TRANSECTS
BUOY PERIPHYTON, AUGUST 14

NMPW	NMPE	NMPP
$\overline{X}_1$	$\overline{X}_2$	$\overline{X}_3$
.1704	.3052	.3927

TABLE IV G-2

STUDENT - NEWMAN - KUELS
TEST FOR DEPTHS
BUOY PERIPHYTON, AUGUST 14

7'	12'	17'	2'
$\overline{X}_1$	$\overline{X}_2$	$\overline{X}_3$	$\overline{X}_4$
.1699	.2409	.2721	.4749

APPENDIX IV-H

SPECIAL STUDIES: COLLECTION TECHNIQUE EVALUATION

APPENDIX IV-H

SPECIAL STUDIES: COLLECTION TECHNIQUE EVALUATION

Several benthic collecting techniques have been utilized, each technique having varying degrees of applicability to substrate types and resident populations. Hudson (1970) compared the Ekman, Ponar and Orange-Peel grabs on different substrate types. He concluded that the Ekman grab was limited to soft, finely divided sediment types having little debris or coarser material to interfere with the jaw mechanism. Minimum weight also restricted the depth of penetration, enabling deep burrowing organisms to avoid the sampler. The Ponar grab was judged the most versatile due to its applicability to more diverse substrates and greater depth of penetration. The Orange-Peel was found to be of questionable value because of shock waves preceding the sampler during its decent and its variable area of sampling.

Howmiller (1971) compared the Ekman and Ponar grabs and found that in soft substrates the Ekman was significantly better than the Ponar. On harder substrates or those not finely divided, the Ponar was better but not significantly better. Considering dominant organisms (oligochaetes, dipterans), he also found the Ekman the better sampling device. These two studies show the relation of substrate variability to quantitative benthic sampling and indicate that various gears have different degrees of effectiveness in sampling.

Substrate type (Table H-1) in the Nine Mile study area varied between transects and between depths. To accurately sample all stations during 1973, samples were collected by a scuba diver using a pump. Evaluation

TABLE H-1

CALCULATED MEANS FOR ALL TECHNIQUES

	Pump	Ponar	Ekman	Petersen	Diver
Sand and Silt	5.467	4.831	4.919	4.983	
Rubble	4.097	2.021	1.000	1.777	2.494
Bedrock	4.710	2.252	3.177	1.000	2.926

SAND AND SILT

Source	Degrees of Freedom	Sum of Squares	Mean Squares (variance)	F-Ratio
Technique	3	0.973	0.324	4.629**
Error	12	0.841	0.070	
TOTAL	15	1.814		

RUBBLE

Source	Degrees of Freedom	Sum of Squares	Mean Squares (variance)	F-Ratio
Technique	4	2.221	5.305	10.866**
Error	15	7.324	0.488	
TOTAL	19	28.545		

BEDROCK

Source	Degrees of Freedom	Sum of Squares	Mean Squares (variance)	F-Ratio
Technique	4	29.391	7.348	13.762**
Error	15	8.009	0.534	
TOTAL	19	37.400		

* Critical F-values: $F_{3,12} = 3.49$; $F_{4,15} = 3.06$; $F_{4,15} = 3.06$.

** Significant difference at $\alpha = 0.05$.

of this technique to four more standard techniques (Ponar, Ekman and Petersen grab samplers and diver scraping collections) was conducted on 31 August 1973. Four replicate samples were collected by each method from three basic substrate types in the Nine Mile Point area: (a) sand and silt, (b) rubble (mixed gravel up to 6 inches in diameter and (c) bedrock. Diver scraping could not be accomplished on the silt and sand substrate. Appendix IV-A presents the results of the identification and enumeration of the organisms from the comparative study and the percentage composition each taxon represents of the total collection.

Statistical analysis consisted of comparing the means of the collections on each substrate using a one-way analysis of variance fixed model (Snedecor and Cochran, 1967; Elliott, 1971). This is a useful test which assesses the sources of variability in collection by means of the F-test. The data were log transformed; and means for each technique were then calculated. The means were tested for significance at the 95% confidence level. Test tables for the three substrate types are listed in Table H-1. For all these substrates a significant difference was found for the collection techniques.

A second step was to determine which technique or techniques caused the significant difference and which techniques were the most efficient on each substrate. A Student Newman-Kuels test (Sokal and Rohlf, 1969) was used for this evaluation. This test compares the means of the collections, resulting in a ranking of the techniques.

On the silt-sand substrate the pump method was found to collect significantly more organisms than the Ponar, Ekman and Petersen. The groupings

of techniques is given below:

Pump	Petersen	Ekman	Ponar

The efficiency decreases from left to right and the underscoring denotes the comparable techniques. On rubble bottom the pump was found to be significantly better than the other techniques. The other methods exhibited a different grouping as shown below:

Pump	Diver	Ponar	Petersen	Ekman

Least efficient on this substrate was the Ekman, and as shown in Table H-2. This was due to inefficiency of collection on this type of substrate. The diver scraping method and Ponar and Petersen were similar; however, the latter two were also similar to Ekman. On rubble substrate the mechanical methods were the least efficient. However, the pump was significantly better than the scraping technique, since the substrate presents very few niches to the invertebrate community. The unusually high collection by the Ekman which has been reported to be effective only on silt-sand type substrates (Hudson, 1970; Howmiller, 1971) points to the high degree of variability of this sampling device.

The anslysis of variance and Student Newman-Kuels tests indicate that for all three substrate types the pump technique is significantly better than the others. Other techniques showed a wide degree of variability: the diver scraping not applicable to silt and sand surfaces, the Ekman grab is inefficient on rubble and the Petersen is inefficient on bedrock.

TABLE IV H-2

NMPE 30' SAND & SILT	PONAR							
8.31.73	#	%	#	%	#	%	#	%
P[illegible]	1		2		3		4	
[illegible]da	342	5.1	437	6.2	1140	7.0		
Diptera	285	4.2	285	4.1	1026	6.3	152	5.6
Oligochaeta	4883	72.2	4503	64.3	8500	52.3	1824	66.7
Turbellaria					19	.1		
Acari			19	.3	19	.1		
Isopoda								
Crayfish								
Ostracoda	323	4.8	578	8.3	1178	7.2	190	6.9
Pelecypoda	570	8.4	836	11.9	3743	23.0	342	12.5
Gastropoda	304	4.5	152	2.2	551	3.4	95	3.5
Nema	57	.8	171	2.4	76	.5	133	4.9
Ephemeroptera								
Trichoptera			19	.3				
Total	6764	100.0	7000	100.0	16252	99.9	2736	100.1

OSWP 30' RUBBLE	PONAR							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda			19	33.3	EMPTY		EMPTY	
Diptera	57	27.3						
Oligochaeta	57	27.3	19	33.3				
Turbellaria								
Acari								
Isopoda								
Crayfish								
Ostracoda								
Pelecypoda								
Gastropoda	95	45.5	19	33.3				
Nema								
Ephemeroptera								
Trichoptera								
Total	209	100.1	57	99.9				

NMPP [illegible]	PONAR							
8.[illegible]	#	%	#	%	#	%	#	%
Pic[illegible]	1		2		3		4	
Amphipoda	1	47.6	19	25.0	EMPTY		EMPTY	
Diptera	627	26.0						
Oligochaeta	342	13.4						
Turbellaria	176							
Acari								
Isopoda								
Crayfish								
Ostracoda	152	11.6	57	75.0				
Pelecypoda	19	1.4						
Gastropoda								
Nema								
Ephemeroptera								
Total	1316	100.0	76	100.0				

TABLE IV H-2 Cont'd

NMPP 30' SAND & SILT	ECKMAN							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda	43	.7	387	2.9	645	7.9	430	5.8
Diptera	172	2.9	430	3.2	817	10.1	688	9.2
Oligochaeta	4257	72.8	6560	49.3	3483	42.9	2917	39.0
Turbellaria			43	.3				
Acari					43	.5	43	.6
Isopoda								
Crayfish								
Ostracoda	301	5.1	1806	13.6	559	6.9	903	12.1
Pelecypoda	903	15.4	2967	22.3	1763	21.7	1290	17.3
Gastropoda	174	3.0	860	6.5	430	5.3	688	9.2
Nema			258	1.9	387	4.8	516	6.9
Ephemeroptera								
Trichoptera								
Total	5850		13311	100.0	8127	100.1	7475	100.1

OSWP 30' RUBBLE	ECKMAN							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda								
Diptera					EMPTY EVERY TIME			
Oligochaeta								
Turbellaria								
Acari								
Isopoda								
Crayfish								
Ostracoda								
Pelecypoda								
Gastropoda								
Nema								
Ephemeroptera								
Trichoptera								
Total								

NMPP 30' BEDROCK	ECKMAN							
8.31.73	#	%	#	%	#	%	#	%
Pick #	1		2		3		4	
Amphipoda	129	50.0	129	25.0	86	100.0	43	100.0
Diptera	86	33.3	86	16.7				
Oligochaeta			86	16.7				
Turbellaria								
Acari								
Isopoda								
Crayfish								
Ostracoda	43	16.7	172	33.3				
Pelecypoda								
Gastropoda			43	8.3				
Nema								
Ephemeroptera								
Total	258	100.0	516	100.0	86	100.0	43	100.0

TABLE IV H-2 Cont'd

NMPE 30' SAND SILT 8.[illegible] P[illegible]	DIVERS # 1	%	# 2	%	# 3	%	# 4	%
Amphipoda								
Diptera								
Oligochaeta								
Turbellaria								
Acari								
Isopoda								
Crayfish								
Ostracoda								
Pelecypoda								
Gastropoda								
Nema								
Ephemeroptera								
Trichoptera								
Total								

TECHNIQUE NOT APPLICABLE

OSWP 30' RUBBLE 8.31.73	DIVERS # 1	%	# 2	%	# 3	%	# 4	%
Amphipoda							2	6.3
Diptera	8	12.7	1	5.9	8	33.3	1	3.1
Oligochaeta	2	3.1	4	23.5	6	25.0	1	3.1
Turbellaria	17	27.0	4	23.5	3	12.5	15	46.9
Acari								
Isopoda								
Crayfish								
Ostracoda								
Pelecypoda					1	4.2		
Gastropoda	36	57.1	8	47.1	5	20.8	11	34.4
Nema								
Ephemeroptera					1	4.2		
Trichoptera							2	6.3
Total	63	99.9	17	100.0	24	100.0	32	100.1

NMPE 30' BEDROCK 8.31.73	DIVERS # 1	%	# 2	%	# 3	%	# 4	%
Amphipoda	49	59.0	13	18.6	49	46.7	21	26.6
Diptera	10	12.0	19	27.1	22	21.0	19	24.0
Oligochaeta			3	4.3			15	19.0
Turbellaria			33	47.1	17	16.2	19	24.0
Acari	4	4.8						
Isopoda	3	3.6			2	1.9	1	1.3
Crayfish								
Ostracoda	1	1.2						
Pelecypoda								
Gastropoda	10	12.0	2	2.9	10	9.5	4	5.1
Nema	6	7.2			5	4.8		
Ephemeroptera								
Total	83	99.8	70	100.0	105	100.1	79	100.0

TABLE IV H-2 Cont'd

NMPE 30' SAND & SILT	PUMP							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda	1725	13.1	1683	8.7	1935	3.0	8744	19.6
Diptera	486	3.7	511	2.6	2270	3.5	1968	4.4
Oligochaeta	6633	50.2	11717	60.4	52788	82.2	28601	64.0
Turbellaria			17	.1				
Acari			59	.3	50	.1	42	.1
Isopoda								
Crayfish								
Ostracoda	1449	11.0	1901	9.8	2219	3.5	3074	6.9
Pelecypoda	2152	16.3	2186	11.3	3626	5.6	946	2.1
Gastropoda	603	4.6	1072	5.5	921	1.4	1189	2.7
Nema	159	1.2	251	1.3	385	.6	126	.3
Ephemeroptera								
Trichoptera								
Total	13207	100.1	19397	100.0	64194	99.9	44690	100.1

OSMP 30' RUBBLE	PUMP							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda	42	1.1	17	1.7	50	7.9	42	4.0
Diptera	477	12.6	260	26.5	184	29.3	168	16.0
Oligochaeta	2194	57.9	218	22.2	8	1.3	293	27.9
Turbellaria	268	7.1	92	9.4	25	3.9	92	8.8
Acari	486	12.8	209	21.3	310	49.4	260	24.8
Isopoda								
Crayfish							8	0.8
Ostracoda	25	0.7	17	1.7	8	1.3		
Pelecypoda	92	2.4	59	6.0	34	1.3	67	6.4
Gastropoda	159	4.2	67	6.8		5.4	109	10.4
Nema	8	0.2	8	0.8				
Ephemeroptera	25	0.7	8	0.8			8	0.8
Trichoptera	8	0.2	25	2.6				
Total	3784	99.9	980	99.8	627	99.8	1047	99.9

NMPP 30' BEDROCK	PUMP							
8.31.73	#	%	#	%	#	%	#	%
Pick #	1		2		3		4	
Amphipoda	42.2	66.2	8224	65.2	1374	41.6	771	29.4
Diptera	260	4.1	351	2.8			586	22.4
Oligochaeta	984	15.5	586	4.6	754	22.8	142	5.4
Turbellaria			33.5	0.3	8	.2		
Acari	151	2.4	377	3.0	235	7.1	17	.6
Isopoda			159	1.3				
Crayfish								
Ostracoda	428	11.4	2069	16.4	645	19.5	1047	39.9
Pelecypoda			159	1.3	8	.2	8	.3
Gastropoda	25	0.4	645	5.1	276	8.4	50	1.9
Nema								
Ephemeroptera								
Total	6360	100.0	126035	100.0	3300	99.8	2621	99.9

TABLE IV H-2 Cont'd

30' SAND & SILT	PETERSEN							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda	1441	10.0	1045	7.4	319	7.2	968	10.2
Diptera	154	1.1	517	3.7	374	8.4	462	4.8
Oligochaeta	7887	54.9	7920	55.9	561	12.7	4246	44.6
Turbellaria								
Acari	22	.2					11	.1
Isopoda								
Crayfish								
Ostracoda	1639	11.4	1650	11.7	1221	27.6	1155	12.1
Pelecypoda	1903	13.3	2200	15.5	1210	27.4	1397	14.7
Gastropoda	1045	7.3	715	5.0	473	10.7	649	6.8
Nema	264	1.8	110	.7	264	6.0	638	6.7
Ephemeroptera								
Trichoptera								
Total	14355	100.0	14157	99.9	4422	100.0	9526	100.0

OSWP 30' RUBBLE	PETERSEN							
8.31.73	#	%	#	%	#	%	#	%
Pick#	1		2		3		4	
Amphipoda			EMPTY				EMPTY	
Diptera					33	60.0		
Oligochaeta	11	50.0						
Turbellaria	11	50.0						
Acari								
Isopoda								
Crayfish								
Ostracoda								
Pelecypoda								
Gastropoda					22	40.0		
Nema								
Ephemeroptera								
Trichoptera								
Total	22	100.0			55	100.0		

HMPP 30' BEDROCK	PETERSEN							
8.31.73	#	%	#	%	#	%	#	%
Pick #	1		2		3		4	
Amphipoda								
Diptera			CAME UP					
Oligochaeta			EMPTY					
Turbellaria								
Acari								
Isopoda								
Crayfish								
Ostracoda								
Pelecypoda								
Gastropoda								
Nema								
Ephemeroptera								
Total								

A comparison of the standard deviations of the collections for each technique gives a relative measure of the precision of the techniques. Precision refers to the closeness of repeated measurements of the same quantity. In this instance, the smaller the standard deviation (s.d.), the smaller the variability of the collection and the greater the precision. To make the abundance numbers easier to compare, they were first transformed to logarithms before calculating the standard deviations.

On sand and silt the Ekman had the greater precision with the Petersen second, the Ponar and pump were similar ranking third and fourth, respectively. The standard deviation values ranged from 0.150 to 0.317, indicating that all techniques worked well on this substrate type. Of the techniques that collected on rubble, the diver had the smallest standard deviation (0.234), closely followed by the pump method with a standard deviation of 0.336. The Petersen ranked third and the Ponar fourth with standard deviations of 0.912 and 1.2, respectively. The precision of the diver was again greatest on bedrock followed by the pump and Ekman grab. The range of numbers for these three was from 0.073 to 0.481. The fourth collection method, Ponar grab, had a standard deviation of 1.53 on this substrate.

On all substrates the Ponar grab samples exhibited a consistently poor precision in its collections. Other methods failed to collect on different substrate types; diver, sand and silt; Ekman, rubble; Petersen, bedrock. Only the pump collected on all substrates with a high degree of precision.

This study was based on only four replicate samples from each substrate and on one associated substrate community in the Nine Mile Point area. The results do indicate, however, that the pump technique of collecting benthic samples is superior to the other techniques tested.

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APPENDIX V-A

MONTHLY CATCH BY GEAR AND TRANSECT-MARCH THROUGH DECEMBER

TABLE V A-1

MONTHLY CATCH BY TRAWL, MARCH-MAY 1973

	NMPW			NMPP			NMPE			
	Surface Trawl	Bottom Trawl	Total	Surface Trawl	Bottom Trawl	Total	Surface Trawl	Bottom Trawl	Trawl	Monthly Total
MONTH: MARCH										
Alewife	87	NO	87	508	NO	508	1625	NO	1625	2220
Rainbow Smelt	5		5	29		29	7		7	41
Spottail Shiner	1	TRAWL	1	1	TRAWL	1		TRAWL		2
Emerald Shiner										
Mottled Sculpin	3		3							3
Total	96		96	538		538	1632		1632	2266
MONTH: APRIL										
Alewife	3	177	180	39	810	849	10	165	175	1204
Rainbow Smelt		8	8	13	9	22	2	54	56	86
Spottail Shiner					10	10		44	44	54
Mottled Sculpin		4	4		1	1		2	2	7
Yellow Perch					3	3		5	5	8
Trout Perch					28	28		25	25	53
White Perch					2	2		5	5	7
White Sucker					2	2		4	4	6
Johnny Darter		1	1		1	1		7	7	9
Lake Chub								1	1	1
Total	3	190	193	52	866	918	12	312	324	1435
MONTH: MAY										
Alewife	74	112	186	45	131	176	21	35	56	418
Rainbow Smelt	11	22	33	13	18	31	5	10	15	79
Spottail Shiner	2	2	4		2	2		2	2	8
Mottled Sculpin		3	3							3
Trout Perch								1	1	1
White Perch								2	2	2
Johnny Darter		7	7							7
Emerald Shiner	6		6	2		2	1		1	9
Threspine Stickelback		1	1	18		18	32	3	35	54
Gizzard Shad	2		2							2
Total	95	147	242	78	151	229	59	53	112	583

TABLE V A-2

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: JUNE	NMPW								NMPP							
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife	43	1	45	46	21	251	272	361	104	1	459	460	17	2199	2216	2780
Rainbow Smelt	1		19	19	6	17	23	43	1		51	51	9	60	69	121
Spottail Shiner	63				1	23	24	87	38		1	1		13	13	52
Emerald Shiner	19							19								
Mottled Sculpin			7	7				7			12	12				12
Threespine Stickelback	1							1	2							2
Trout Perch			1	1		1	1	2						8	8	8
Yellow Perch	1				12	85	97	98	4				3	126	129	133
White Perch					3	36	39	39					1	32	33	33
White Sucker						16	16	16	2					11	11	13
White Bass																
Rock Bass																
Smallmouth Bass						3	3	3						1	1	1
Gizzard Shad																
Johnny Darter			6	6				6			9	9				9
Brown Bullhead																
Lake Chub					5	7	12	12						1	1	1
American Eel																
Lamprey Eel																
Pumpkinseed																
Carp	1					1	1	2	1							1
Black Crappie																
Banded Killifish																
Bluegill Sunfish																
Longnose Dace																
Brown Trout														1	1	1
Lake herring																
Black bullhead																
Unidentified																
Total	129	1	78	79	48	440	488	696	152	1	532	533	30	2452	2482	3167

A-2 (continued)

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: JUNE (continued)	FITZ					NMPE								
	Seine	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Monthly Total
Alewife	526	91	695	786	1322	19	8	130	138	60	1598	1658	1815	6278
Rainbow Smelt	5	15	45	60	65	1	5	29	34	17	76	93	128	357
Spottail Shiner	52	1	26	27	79			15	15	4	71	75	90	308
Emerald Shiner	3				3	1							1	23
Mottled Sculpin								16	16				16	35
Threespine Stickelback	10				10	10							10	23
Trout Perch			13	13	13		1	46	47		11	11	58	81
Yellow Perch	2	29	128	157	159			2	2	29	90	139	141	531
White Perch		3	65	68	68					3	77	80	80	220
White Sucker			20	20	20			3	3	5	28	33	36	85
White Bass														
Rock Bass			1	1	1			1	1		1	1	2	3
Smallmouth Bass	4		1	1	5						36	36	36	45
Gizzard Shad														
Johnny Darter								55	55				55	70
Brown Bullhead			1	1	1									1
Lake Chub														13
American Eel														
Lamprey Eel														
Pumpkinseed														
Carp			1	1	1						1	1	1	5
Black Crappie														
Banded Killifish														
Bluegill Sunfish														
Longnose Dace														
Brown Trout		1		1	1									2
Lake herring			2	2	2									2
Black bullhead											2	2	2	2
Unidentified										2		2	2	2
Total	612	140	998	1138	1750	31	14	297	311	140	1991	2131	2473	8086

TABLE V A-3

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: JULY	NMPW								NMPP							
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife	158		4	4	1388'	1476'	2864	3026	507	1	502	503	1318'	2244'	3562	4572
Rainbow Smelt					5'	8'	13	13			31	31	2'	5'	7	38
Spottail Shiner	1				11'	199'	210	211					25'	157'	182	182
Emerald Shiner																
Mottled Sculpin																
Threespine Stickelback																
Trout Perch					3'	5'	8	8						14'	14	14
Yellow Perch					55'	146'	201	201					62'	216'	278	278
White Perch					22'	71'	93	93					115'	168'	283	283
White Sucker					6'	26'	32	32					11'	13'	24	24
White Bass														1'	1	1
Rock Bass					4'	7'	11	11					3'	13'	16	16
Smallmouth Bass					5'	12'	17	17					7'	46'	53	53
Gizzard Shad													3'	4'	7	7
Johnny Darter																
Brown Bullhead																
Lake Chub					4'	5'	9	9								
American Eel			1	1	1'		1	2			1	1				1
Lamprey Eel																
Pumpkinseed						1'	1	1								
Carp						1'	1	1						1'	1	1
Black Crappie																
Banded Killifish									1							1
Bluegill Sunfish																
Longnose Dace																
Yellow Bass						1'	1	1						2'	2	2
Gar														1'	1	1
NP														1'	1	1
Brown Trout																
Black Bullhead																
Golden Shiner																
Walleye																
Unidentified																
Total	159		5	5	1504	1958	3462	3626	508	1	534	535	1546'	2886	4432	5475

TABLE V A-3 (continued)

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: JULY (continued)	FITZ					NMPW								
	Seine	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Monthly Total
Alewife	1508	1220'	2569'	3789	5297	314	1	6	7	2412'	2745'	5157	5478	18373
Rainbow Smelt	1	11'	16'	27	28			6	6	5'	31'	36	42	121
Spottail Shiner	127	55'	593'	648	775					21'	384'	405	405	1573
Emerald Shiner														
Mottled Sculpin								1	1				1	1
Threespine Stickelback														
Trout Perch		13'	34'	47	47			2	2	7'	27'	34	36	105
Yellow Perch		52'	402'	454	454					26'	178'	204	204	1137
White Perch		103'	344'	447	447					223'	677'	900	900	1723
White Sucker		23'	45'	68	68					14'	60'	74	74	198
White Bass														1
Rock Bass		3'	16'	19	19					2'	6'	8	8	54
Smallmouth Bass	4	9'	31'	40	44					9'	58'	67	67	181
Gizzard Shad	3		3'	3	6						4'	4	4	17
Johnny Darter														
Brown Bullhead		1'	8'	9	9						3'	3	3	12
Lake Chub		1'		1	1									10
American Eel		1'		1	1									4
Lamprey Eel														
Pumpkinseed			1'	1	1						1'	1	1	3
Carp											1'	1	1	3
Black Crappie														
Banded Killifish														1
Bluegill Sunfish														
Longnose Dace														
Yellow Bass											8'	8	8	11
Gar														1
NP														1
Brown Trout														
Black Bullhead		1'		1	1					1'		1	1	2
Golden Shiner			2'	2	2									2
Walleye			2'	2	2									2
Unidentified			1'	1	1									1
Total	1643	1493	4097'	5590	7233	314	1	15	16	2720'	4183'	6903	7233	23567

TABLE V A-4

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: AUGUST	NMPW									NMPP						
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife		40	120	160	564	710	1274	1434	1	388	1937	2325	525	814	1339	3665
Rainbow Smelt			18	18		3	3	21			6	6	2	9	11	17
Spottail Shiner	43				12	43	55	98					1	25	26	26
Emerald Shiner		1		1				1	8	2		2				10
Mottled Sculpin			1	1				1			3	3		1	1	4
Threespine Stickelback			1	1				1								
Trout Perch						2	2	2		1	6	7		3	3	10
Yellow Perch	1				27	81	108	109					17	168	185	185
White Perch	66				11	77	88	154	4				41	147	188	192
White Sucker					7	22	29	29					2	16	18	18
White Bass														1	1	1
Rock Bass			1	1	9	19	28	29			2	2	11	39	50	52
Smallmouth Bass	1				35	81	116	117	1				15	95	110	111
Gizzard Shad					1	19	20	20					1	30	31	31
Johnny Darter											1	1				1
Brown Bullhead													2	3	5	5
Lake Northern Chub					1	1	2	2								
American Eel																
Lamprey Eel																
Pumpkinseed													1	6	7	7
Carp						1	1	1					1	4	5	5
Black Crappie																
Banded Killifish	1							1								
Bluegill Sunfish									9							9
Longnose Dace									1							1
Chinook Salmon					1		1	1								
GR														1	1	1
Yellow Bass																
Golden Shiner																
Stone Cat																
Lake herring																
FWD																
Unidentified									1							1
Total	112	41	141	182	668	1059	1727	2021	25	391	1955	2346	619	1362	1981	4352

TABLE V A-4 (continued)

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH:. AUGUST (continued)	FITZ Seine	FITZ Surface Gill Net	FITZ Bottom Gill Net	FITZ Total Gill Net	FITZ Transect Total	NMPE Seine	NMPE Surface Trawl	NMPE Bottom Trawl	NMPE Total Trawl	NMPE Suface Gill Net	NMPE Bottom Gill Net	NMPE Total Gill Net	NMPE Transect Total	Monthly Total
Alewife	834	749	936	1685	2519		238	313	551	655	648	1303	1854	9472
Rainbow Smelt		2	6	8	8			5	5		3	3	8	54
Spottail Shiner	20	8	334	342	362	105				1	17	18	123	609
Emerald Shiner	3				3		8		8				8	22
Mottled Sculpin														5
Threespine Stickelback														1
Trout Perch			5	5	5						2	2	2	19
Yellow Perch		11	139	150	150	1				4	42	46	47	491
White Perch	148	72	269	341	489	1	1	1	2	377	813	1190	1193	2028
White Sucker		6	10	16	16					4	20	24	24	87
White Bass		1		1	1									2
Rock Bass		8	14	22	22		1		1	3	7	10	11	114
Smallmouth Bass	1	37	76	113	114			1	1	18	55	73	74	416
Gizzard Shad	1	6	47	53	54					2	32	34	34	139
Johnny Darter								1	1				1	2
Brown Bullhead			16	16	16					3	220	223	223	244
Lake Northern Chub														2
American Eel								1	1				1	1
Lamprey Eel														
Pumpkinseed														7
Carp														6
Black Crappie	1				1									1
Banded Killifish														1
Bluegill Sunfish														9
Longnose Dace														1
Chinook Salmon			2	2	2									3
GR														1
Yellow Bass		1	4	5	5									5
Golden Shiner			1	1	1					1		1	1	2
Stone Cat											1	1	1	1
Lake Herring											1	1	1	1
FWD											1	1	1	1
Unidentified														
Total	1008	901	1859	2760	3768	107	248	322	570	1068	1862	2930	3607	13748

TABLE V A-5

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: SEPTEMBER	NMPW								NMPP							
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife		2	63	65	98	115	213	278		11	11	22	292	377	669	691
Rainbow Smelt			121	121	12	26	38	159		1	1	2	4	2	6	8
Spottail Shiner			3	3		3	3	6					21	48	69	69
Emerald Shiner		1		1				1								
Mottled Sculpin																
Threespine Stickelback																
Trout Perch			7	7				7								
Yellow Perch						3	3	3			2	2	72	147	219	221
White Perch			1	1	2	6	8	9					13	45	58	58
White Sucker					2	6	8	8					7	12	19	19
White Bass																
Rock Bass					5	5	10	10					15	16	31	31
Smallmouth Bass						5	5	5	3		3	3	25	35	60	66
Gizzard Shad										1		1	6	26	32	36
Johnny Darter			3	3				3								
Brown Bullhead					1		1	1								
Lake Chub					1	1	2	2					1		1	1
American Eel																
Lamprey Eel																
Pumpkin Seed																
Carp									14				1	3	4	18
Black Crappie																
Banded killifish									1							1
Bluegill Sunfish																
Longnose Dace																
Chinook Salmon						1	1	1						1	1	1
NP														5	5	5
Stone Cat														1	1	1
Yellow Bass																
Total		3	198	201	121	171	292	493	18	13	17	30	457	718	1175	1223

TAB[illegible]-5 (continued)

MONTHLY CA[illegible] BY GEAR AND TRANSECT

MONTH: SEPTEMBER (continued)	FITZ					NMPE								
	Seine	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Monthly Total
Alewife	1099	231	145	376	1475	55	13	24	37	279	270	549	641	3085
Rainbow Smelt		3	8	11	11		1	3	4	21	15	36	40	218
Spottail Shiner		2	69	71	71		1	11	12	6	20	26	38	184
Emerald Shiner	1				1									2
Mottled Sculpin														
Threespine Stickelback														
Trout Perch			15	15	15			1	1		3	3	4	26
Yellow Perch		45	85	130	130					4	10	14	14	368
White Perch		25	56	81	81			15	15	38	99	137	152	300
White Sucker		5	9	14	14			1	1		3	3	4	45
White Bass			2	2	2						5	5	5	7
Rock Bass		7	6	13	13						16	16	16	70
Smallmouth Bass		22	31	53	53						20	20	20	144
Gizzard Shad		1	4	5	5						5	6	6	44
Johnny Darter										1				3
Brown Bullhead		2		2	2									3
Lake Chub														3
American Eel														
Lamprey Eel														
Pumpkin Seed														
Carp														18
Black Crappie														
Banded Killifish														1
Bluegill Sunfish														
Longnose Dace														
Chinook Salmon														2
NP														5
Stone Cat			1	1										1
Yellow Bass					1					5		5	5	6
Total	1100	343	431	774	1874	55	15	55	70	354	466	820	945	4535

TABLE V A-6

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: OCTOBER	NMPW									NMPP						
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife		4	18	22	201	105	306	328		30	89	119	284	202	486	605
Rainbow Smelt			1	1	2	2	4	5		1	2	3	7	30	37	40
Spottail Shiner					1	4	5	5	21		1	1		31	34	56
Emerald Shiner									1	5	1	6				7
Mottled Sculpin																
Threespine Stickelback																
Trout Perch											1	1				1
Yellow Perch					1	4	5	5					3	14	17	17
White Perch					1	1	2	2						12	12	12
White Sucker						10	10	10						13	13	13
White Bass														5	5	5
Rock Bass		1		1		4	4	5						6	6	6
Smallmouth Bass						5	5	5						26	26	26
Gizzard Shad			1	1	1		1	2		3	3	6	9	70	79	85
Johnny Darter																
Brown Bullhead																
Lake Chub						6	6	6						2	2	2
American Eel																
Lamprey Eel																
Pumpkinseed									1							1
Carp														1	1	1
Black Crappie																
Banded Killifish																
Bluegill Sunfish																
Longnose Dace																
Walleye														5	5	5
Yellow Bass														2	2	2
Brown Trout																
NP																1
Unidentified									1							
Total		5	20	25	207	141	348	373	24	39	97	136	303	422	725	885

TABLE V A-6 (continued)

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: OCTOBER (continued)	FITZ					NMPW								
	Seine	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Monthly Total
Alewife		57	360	417	417		2	65	67	467	321	788	855	2205
Rainbow Smelt		10	25	35	35		3	8	11	42	24	66	77	157
Spottail Shiner			28	28	28					9	18	27	27	116
Emerald Shiner							1		1	1		1	2	9
Mottled Sculpin														
Threespine Stickelback														
Trout Perch			3	3	3					1		1	1	5
Yellow Perch		1	27	28	28					9	19	28	28	78
White Perch			13	13	13					31	29	60	60	87
White Sucker			6	6	6					8	25	33	33	62
White Bass			1	1	1									6
Rock Bass			3	3	3					1		1	1	15
Smallmouth Bass			7	7	7						2	2	2	40
Gizzard Shad		2	15	17	17						11	11	11	115
Johnny Darter			12	12	12									12
Brown Bullhead														
Lake Chub			3	3	3									11
American Eel														
Lamprey Eel														
Pumpkinseed														1
Carp														1
Black Crappie														
Banded Killifish														
Bluegill Sunfish														
Longnose Dace														
Walleye			1	1	1									6
Yellow Bass			5	5	5						1	1	1	8
Brown Trout										1		1	1	1
NP											2	2	2	2
Unidentified														1
Total		70	509	579	579		6	73	79	570	452	1022	1101	2938

TABLE V A-7

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: NOVEMBER	NMPW								NMPP							
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife		1	23	24				24		8	99	107	50	153	203	310
Rainbow Smelt		1	13	14				14		3	19	22	2	7	9	31
Spottail Shiner														7	7	7
Emerald Shiner									13		1	1				14
Mottled Sculpin										1		1				1
Threesping Stickelback																
Trout Perch																
Yellow Perch														4	4	4
White Perch																
White Sucker															2	2
White Bass																
Rock Bass																
Smallmouth Bass																
Gizzard Shad			6	6				6		7		7	1	13	14	21
Johnny Darter																
Brown Bullhead																
Lake Northern Chub														1	1	1
American Eel																
Lamprey Eel																
Pumpkinseed																
Carp																
Black Crappie																
Banded Killifish																
Bluegill Sunfish																
Longnose Dace																
Brown Trout													4		4	4
Black Bullhead														1	1	1
ASHD																
Total		2	42	44				44	13	19	119	138	57	188	245	396

TABLE A-7 (continued)

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: NOVEMBER (continued)	FITZ Seine	FITZ Surface Gill Net	FITZ Bottom Gill Net	FITZ Total Gill Net	FITZ Transect Total	NMPE Seine	NMPE Surface Trawl	NMPE Bottom Trawl	NMPE Total Trawl	NMPE Surface Gill Net	NMPE Bottom Gill Net	NMPE Total Gill Net	NMPE Transect Total	Monthly Total
Alewife		9	90	99	99		1	23	24				24	457
Rainbow Smelt		4	17	21	21			43	43				43	109
Spottail Shiner			51	51	51			7	7				7	65
Emerald Shiner														14
Mottled Sculpin														1
Threespine Stickelback														
Trout Perch								1	1				1	1
Yellow Perch			5	5	5									9
White Perch			2	2	2			1	1				1	3
White Sucker			5	1	5									7
White Bass								1	1				1	1
Rock Bass														
Smallmouth Bass														
Gizzard Shad														27
Johnny Darter														
Brown Bullhead								1	1				1	1
Lake Northern Chub			1	1	1									2
American Eel														
Lamprey Eel														
Pumpkinseed														
Carp														
Black Crappie														
Banded Killifish														
Bluegill Sunfish														
Longnose Dace														
Brown Trout		2		2	2									6
Black Bullhead														1
ASHD			1											1
TOTAL		15	171	187	187		1	77	78				78	705

TABLE V A-8

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: DECEMBER	NMPW								NMPP							
	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total
Alewife		2	43	45	20	99	119	164		2	2	4	136	208	344	348
Rainbow Smelt					2	3	5	5		1		1	20	10	30	31
Spottail Shiner			1	1		2	2	3						34	34	34
Emerald Shiner																
Mottled Sculpin														1	1	1
Threespine Stickelback																
Trout Perch														1	1	1
Yellow Perch						2	2	2						15	15	15
White Perch																
White Sucker						7	7	7						20	20	20
White Bass						1	1	1		1		1				1
Rock Bass																
Smallmouth Bass						1	1	1						1	1	1
Gizzard Shad					1		1	1						34	34	34
Johnny Darter																
Brown Bullhead																
Lake Chub						9	9	9						3	3	3
American Eel																
Lamprey Eel													1		1	1
Pumpkinseed																
Carp																
Black Crappie																
Banded Killifish																
Bluegill Sunfish																
Longnose Dace																
Brown Trout					1		1	1					7	8	15	15
Yellow Bass						1	1	1								
Burbot														1	1	1
NP																
Total		2	44	46	24	125	149	195		4	2	6	164	336	500	506

TABLE V A-8 (continued)

MONTHLY CATCH BY GEAR AND TRANSECT

MONTH: DECEMBER (continued)	FITZ					NMPE								
	Seine	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Seine	Surface Trawl	Bottom Trawl	Total Trawl	Surface Gill Net	Bottom Gill Net	Total Gill Net	Transect Total	Monthly Total
Alewife		345	324	669	669					51	99	150	150	1331
Rainbow Smelt		23	13	36	36						7	7	7	79
Spottail Shiner		1	154	155	155						6	6	6	198
Emerald Shiner														1
Mottled Sculpin														
Threespine Stickelback														
Trout Perch			1	1	1									2
Yellow Perch		4	20	24	24						1	1	1	42
White Perch			1	1	1						1	1	1	2
White Sucker		5	35	40	40						4	4	4	71
White Bass		1	3	4	4									6
Rock Bass														
Smallmouth Bass														2
Gizzard Shad			3	3	3						1	1	1	39
Johnny Darter														
Brown Bullhead														
Lake Chub														12
American Eel														
Lamprey Eel														1
Pumpkinseed														
Carp		1			1									1
Black Crappie														
Banded Killifish														
Bluegill Sunfish														
Longnose Dace														
Brown Trout		2	1	3	3					1		1	1	20
Yellow Bass														1
Burbot														1
NP			1	1	1									1
Total		382	556	938	938					52	119	171	171	1810

APPENDIX V-B

SPECIES, NUMBERS OF FISHES, AND BIOMASS OF EACH SPECIES COLLECTED BY BEACH SEINING IN THE NINE MILE POINT AREA

Table VB-1- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Data are presented for each sampling date at each transect. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

Date: June 15	NMPW		NMPP		FITZ		NMPE	
	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)
Alewife	41	616.0	103/91	1946.7	535/122	12519.0	17	394.9
Rainbow Smelt	1	2.0	1	*17.5	5	32.6	1	21.8
Threespine Stickleback			2	2.7	10/8	22.0	10	24.9
Spottail Shiner	61	891.8	38/36	254.6	52	756.9		
Emerald Shiner	19	122.0			3	16.3	1	8.1
Smallmouth Bass					4	28.7		
Yellow Perch			4	75.1	2	19.7		
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp	1	8853.0	1	61.5				
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals	123	10484.8	151	2368.5	611	13395.2	29	449.7
Total Species	5	5	7	7	7	7	4	4
H	1.479		1.193		0.710		1.127	
J	0.636		0.427		0.257		0.610	
d	0.831		1.196		0.935		0.891	

Date: June 29								
Alewife	2	56.6	1	24.3	1	23.7	2	49.9
Rainbow Smelt								
Threespine Stickleback	1	2.3						
Spottail Shiner	2	4.4						
Emerald Shiner								
Smallmouth Bass								
Yellow Perch	1	14.1						
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals	6	77.4	1	24.3	1	23.7	2	49.9
Total Species	4	4	1	1	1	1	1	1
H	1.249		0.000		0.000		0.000	
J	0.789		1.000		1.000		1.000	
d	1.674							

* Calculated from length weight regression

Table VB-1(cont.)- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Data are presented for each sampling date at each transect. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

Date: July 13

	NMPW		NMPP		FITZ		NMPE	
	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)
Alewife			18/17	406.8	141/64	3158.4		
Rainbow Smelt					1	8.7		
Threespine Stickleback								
Spottail Shiner	1	11.2			6	78.7	NO	
Emerald Shiner							FISH	
Smallmouth Bass							CAUGHT	
Yellow Perch								
White Perch								
Gizzard Shad					3	146.2		
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish			1	1.5				
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals	1	11.2	19	408.3	151	3392.0		
Total Species	1	1	2	2	4	4		
H	0.000		0.224		0.396			
J	1.000		0.214		0.195			
d			0.340		0.598			

Date: July 27

Alewife	158/61	15.8	489/107	146.7	1367/276	273.4	314/98	31.4
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner					121/54	24.2		
Emerald Shiner								
Smallmouth Bass					4	5.9		
Yellow Perch								
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals	158	15.8	489	146.7	1492	303.5	314	31.4
Total Species	1	1	1	1	3	3	1	1
H	0.000		0.000		0.428		0.000	
J	1.000		1.000		0.271		1.000	
d					0.274			

Table VB-1 (cont.)- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Data are presented for each sampling date at each transect. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

Date: August 24

	NMPW		NMPP		FITZ		NMPE	
	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)
Alewife					761/147	989.3		
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner	43	84.4			18	22.2	3	3.2
Emerald Shiner			7	25.6	2	0.8		
Smallmouth Bass			1	2.0	1	7.1		
Yellow Perch	1	5.7					1	7.4
White Perch	65	132.5			65	92.2		
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish	1	3.0						
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals	110	225.6	8	27.6	847	1111.6	4	10.6
Total Species	4	4	2	2	5	5	2	2
H	1.042		0.375		0.560		0.500	
J	0.522		0.489		0.244		0.774	
d	0.638		0.481		0.593		0.721	

Date: August 31

Alewife			1	0.6	73/67	620.5	102/67	142.8
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner					2	10.3		
Emerald Shiner			1	0.8	1	1.0		
Smallmouth Bass	1	5.1						
Yellow Perch								
White Perch	1	1.0	4	19.7	83	374.4	1	1.1
Gizzard Shad					1	23.8		
Pumpkinseed								
Carp								
Black Crappie					1	3.5		
Banded killifish								
Bluegill Sunfish			9	5.5				
Longnose Dace			1	0.9				
White Sucker								
Unidentified			1	1.8				
Total Individuals	2	6.1	17	29.3	161	1033.5	103	143.9
Total Species	2	2	6	6	6	6	2	2
H	0.500		1.487		1.162		0.065	
J	1.000		0.597		0.443		0.064	
d	1.443		1.765		0.984		0.216	

Table VB-1 (cont.)- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Data are presented for each sampling date at each transect. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

Date: September 14

	NMPW		NMPP		FITZ		NMPE	
	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)
Alewife					2	0.4	55	13.9
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner	NO				1	0.3		
Smallmouth Bass	FISH		3	34.4				
Yellow Perch	CAUGHT							
White Perch								
Gizzard Shad								
Pumpkinseed			14	68.5				
Carp								
Black Crappie			1	5.7				
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals			18	108.6	3	0.7	55	13.9
Total Species			3	3	1	1	1	1
H			0.754		0.000		0.000	
J			0.565		1.000		1.000	
d			0.692					

Date: September 21

Alewife					1097/209	877.6		
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner	NO		NO				NO	
Smallmouth Bass	FISH		FISH				FISH	
Yellow Perch	CAUGHT		CAUGHT				CAUGHT	
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals					1097	877.6		
Total Species					1	1		
H					0.000			
J					1.000			
d								

Table VB-1(cont.)- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Data are presented for each sampling date at each transect. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

Date: October 1

	NMPW		NMPP		FITZ		NMPE	
	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)
Alewife								
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner	NO		21	61.0	NO		NO	
Emerald Shiner	FISH		1	5.9	FISH		FISH	
Smallmouth Bass	CAUGHT				CAUGHT		CAUGHT	
Yellow Perch								
White Perch								
Gizzard Shad								
Pumpkinseed			1	25.0				
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified			1	2.6				
Total Individuals			24	94.5				
Total Species			4	4				
H			0.565					
J			0.330					
d			0.944					

Date: October 22

Alewife								
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner								
Smallmouth Bass								
Yellow Perch								
White Perch								
Gizzard Shad		NO	FISH	COLLECTED	AT	ANY	SITE	
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals								
Total Species								
H								
J								
d								

Table VB-1 (cont.)- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Data are presented for each sampling date at each transect. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

Date: November 8

	NMPW		NMPP		FITZ		NMPE	
	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)	Collected # / Analyzed #	Wt. (g)
Alewife								
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner	NO		13/11	13.0	NO		NO	
Smallmouth Bass	FISH				FISH		FISH	
Yellow Perch	CAUGHT				CAUGHT		CAUGHT	
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals			13	13.0				
Total Species			1	1				
H			0.000					
J			1.000					
d								

Date: November 28

Alewife								
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner		NO	FISH	COLLECTED	AT ANY	SITE		
Smallmouth Bass								
Yellow Perch								
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals								
Total Species								
H								
J								
d								

Table VB-2 - Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Date from both dates within a month (see Table VB-1) are pooled. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

MONTH: June	NMPW		NMPP		FITZ		NMPE	
	#	Wt. (g)	#	Wt. (g)	#	Wt. (g)	#	Wt. (g)
Alewife	43	672.6	104	1976.0	536	12596.0	19	444.8
Rainbow Smelt	1	2.0	1	*17.5	5	32.6	1	21.8
Threespine Stickleback	1	2.3	2	2.7	10	21.9	10	24.9
Spottail Shiner	63	896.2	38	254.6	52	756.9		
Emerald Shiner	19	122.0			3	16.3	1	8.1
Smallmouth Bass					4	28.7		
Yellow Perch	1	14.1	4	75.1	2	19.7		
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp	1	3853.0	1	61.5				
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker			2	10.4				
Unidentified								
Total Individuals	129	10562.2	152	2397.8	612	13472.1	31	499.6
Total Species	7	7	7	7	7	7	4	4
H	1.559		1.189		0.709		1.101	
J	0.565		0.421		0.257		0.538	
d	1.235		1.194		0.935		0.874	

MONTH: July								
Alewife	158	15.8	507	1673.1	1508	6635.2	314	98.0
Rainbow Smelt					1	8.7		
Threespine Stickleback								
Spottail Shiner	1	11.2			127	190.5		
Emerald Shiner								
Smallmouth Bass					4	5.9		
Yellow Perch								
White Perch								
Gizzard Shad					3	146.2		
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish			1	1.5				
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals	159	27.0	508	1674.6	1643	6986.5	314	98.0
Total Species	2	2	2	2	5	5	1	1
H	0.046		0.018		0.437		0.000	
J	0.047		0.018		0.189		1.000	
d	0.197		0.161		0.540			

* Calculated from length-weight regression

Table VB-2 (cont.)- Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Date from both dates within a month (see Table VB-1) are pooled. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

MONTH: August	NMPW		NMPP		FITZ		NMPE	
	#	Wt. (g)	#	Wt. (g)	#	Wt. (g)	#	Wt. (g)
Alewife			1	0.6	834	3002.4		
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner	43	84.4			20	32.5	105	147.0
Emerald Shiner			8	26.4	3	1.8		
Smallmouth Bass	1	5.1	1	2.0	1	7.1		
Yellow Perch	1	5.7					1	7.4
White Perch	66	133.5	4	19.7	148	466.6	1	1.1
Gizzard Shad					1	23.8		
Pumpkinseed								
Carp								
Black Crappie					1	3.5		
Banded killifish	1	3.0						
Bluegill Sunfish			9	5.5				
Longnose Dace			1	0.9				
White Sucker								
Unidentified			1	1.8				
Total Individuals	112	231.7	25	56.9	1008	3537.7	107	155.5
Total Species	5	5	7	7	7	7	3	3
H	1.091		1.813		0.785		0.126	
J	0.477		0.691		0.282		0.078	
d	0.848		1.864		0.868		0.428	

MONTH: September								
Alewife					1099	879.2	55	13
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner	NO				1	0.3		
Smallmouth Bass	FISH		3	34.4				
Yellow Perch	CAUGHT							
White Perch								
Gizzard Shad								
Pumpkinseed			14	68.5				
Carp								
Black Crappie			1	5.7				
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals			18	108.6	1100	879.5	55	13.9
Total Species			3	3	2	2	1	1
H			0.754		0.009		0.000	
J			0.565		0.009		1.000	
d			0.692		0.143			

Table VB-2 (cont.) - Species, numbers of fishes, and biomass of each species collected by beach seining in the Nine Mile Point area. Date from both dates within a month (see Table VB-1) are pooled. Species diversity (H), evenness (J), and species richness (d) calculated for abundance data.

MONTH: October	NMPW		NMPP		FITZ		NMPE	
	#	Wt. (g)	#	Wt. (g)	#	Wt. (g)	#	Wt. (g)
Alewife								
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner	NO		21	61.0	NO		NO	
Emerald Shiner	FISH		1	5.9	FISH		FISH	
Smallmouth Bass	CAUGHT				CAUGHT		CAUGHT	
Yellow Perch								
White Perch								
Gizzard Shad								
Pumpkinseed			1	25.0				
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals			24	94.5				
Total Species			4	4				
H			0.565					
J			0.330					
d			0.944					

MONTH: November								
Alewife								
Rainbow Smelt								
Threespine Stickleback								
Spottail Shiner								
Emerald Shiner	NO		13	13.0	NO		NO	
Smallmouth Bass	FISH				FISH		FISH	
Yellow Perch	CAUGHT				CAUGHT		CAUGHT	
White Perch								
Gizzard Shad								
Pumpkinseed								
Carp								
Black Crappie								
Banded killifish								
Bluegill Sunfish								
Longnose Dace								
White Sucker								
Unidentified								
Total Individuals			13	13.0				
Total Species			1	1				
H			0.000					
J			1.000					
d								

APPENDIX V-C

NUMBER OF FISHES, NUMBER OF SPECIES, SPECIES DIVERSITY EVENNESS AND SPECIES RICHNESS FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA

TABLE V C-1

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 3-28-73	NIGHT 3-28-73	DAY 4-25-73	NIGHT 4-25-73	DAY 5-30-73	NIGHT 5-30-73	DAY 6-13-73	NIGHT 6-13-73	DAY 6-25-73	NIGHT 6-25-73
NMPW 20 SURFACE	d	N.T.	0.665				0.831	N.F.	N.T.	N.F.	N.F.
	J		0.261	1.000	1.000	1.000	0.418				
	H		0.533	0.000	0.000	0.000	0.747				
	S		4	1	1	1	4				
	N		91	1	2	4	37				
NMPW 20 BOTTOM	d	N.T.	N.F.	N.T.	N.T.		1.211				0.944
	J					1.000	0.504	1.000			0.983
	H					0.000	1.246	0.000			1.682
	S					1	6	1			4
	N					37	62	21			24
NMPW 40 SURFACE	d	N.F.		N.F.	N.F.	0.379	0.647	N.F.			
	J		1.000			0.324	0.668				1.000
	H		0.000			0.272	0.913				0.000
	S		1			2	3				1
	N		5			14	22				1
NMPW 40 BOTTOM	d	N.T.	N.F.	N.T.	0.803		0.279				0.721
	J				0.324	1.000	1.000	1.000			0.774
	H				0.586	0.000	0.919	0.000			0.500
	S				4	1	2	1			2
	N				42	4	36	7			4
NMPW 60 SURFACE	d	N.F.	N.F.	N.F.	N.F.		0.706	N.F.			N.F.
	J					1.000	0.780				
	H					0.000	1.033				
	S					1	3				
	N					1	17				
NMPW 60 BOTTOM	d	N.T.	N.F.	N.F.	0.621	N.F.					
	J				0.468		1.000	1.000			1.000
	H				0.648		0.000	0.000			0.000
	S				3		1	1			1
	N				25		8	3			1

*ND = NO DATA NT = NO TRAWL

NF = NO FISH

TABLE V C-1 Cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 7-13-73	NIGHT 7-13-73	DAY 7-22-73	NIGHT 7-22-73	DAY 8-2-73	NIGHT 8-2-73	DAY 8-14-73	NIGHT 8-14-73	DAY 8-27-73	NIGHT 8-27-73
NMPW 20 SURFACE	d	N.T.	N.T.	N.F.	N.F.	N.F.	N.T.	N.F.		N.F.	
	J								1.000		1.000
	H								0.000		0.000
	S								1		1
	N								2		22
NMPW 20 BOTTOM	d				1.443						
	J				1.000	1.000		1.000	1.000		1.000
	H				0.500	0.000		0.000	0.000		0.000
	S				2	1		1	1		1
	N				2	1		74	9		3
NMPW 40 SURFACE	d				N.F.	N.F.		N.F.	0.910		
	J								0.899		1.000
	H								0.528		0.000
	S								2		1
	N								3		2
NMPW 40 BOTTOM	d								0.434		0.402
	J								0.416	1.000	0.364
	H								0.332	0.000	0.299
	S								2	1	2
	N								10	7	12
NMPW 60 SURFACE	d									N.F.	
	J								1.000		1.000
	H								0.000		0.000
	S								1		1
	N								11		1
NMPW 60 BOTTOM	d								1.000		
	J			1.000	1.000				0.000		1.000
	H			0.000	0.000				1		0.000
	S			1	1				24		1
	N			1	2						1

*ND [illegible] DATA
NF = NO FISH

NT = NO TRAWL

TABLE V C-1 Cont'd

NUMBER OF FISHES (N), NUMBER OF SPE[illegible] (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.*

STATIONS	INDEX	DAY 9-10-73	NIGHT 9-10-73	DAY 9-20-73	NIGHT 9-20-73	DAY 10-02-73	NIGHT 10-02-73	DAY 10-18-73	NIGHT 10-18-73	DAY 11-13-73	NIGHT 11-13-73
NMPW 20 SURFACE	d	N.F.	N.F.	N.F.		N.F.	N.F.	N.F.		N.F.	N.F.
	J				1.000				1.000		
	H				0.000				0.000		
	S				1				1		
	N				2				1		
NMPW 20 BOTTOM	d		N.T.				0.910				1.443
	J				1.000		0.899		1.000		0.936
	H				0.000		0.528		0.000		0.896
	S				1		2		1		3
	N				1		3		5		4
NMPW 40 SURFACE	d		N.F.		N.F.		N.F.				
	J			1.000					1.000		1.000
	H			0.000					0.000		0.000
	S			1					1		1
	N			1					2		1
NMPW 40 BOTTOM	d		N.T.	N.F.	0.759				0.721		
	J				0.558				0.774		1.000
	H				1.253				0.500		0.000
	S				1				2		1
	N				195				4		5
NMPW 60 SURFACE	d		N.F.		N.F.						
	J								1.000		1.000
	H								0.000		0.000
	S								1		1
	N								2		1
NMPW 60 BOTTOM	d									0.558	
	J		1.000	1.000			1.000		1.000	0.598	1.000
	H		0.000	0.000			0.000		0.000	0.431	0.000
	S		1	1			1		1	2	1
	N		1	1			1		7	6	4

*ND = NO DATA
NF = NO FISH

NT = NO TRAWL

TABLE V C-1 Cont'd.

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 11-20-73	NIGHT 11-20-73	DAY 12-13-73	NIGHT 12-13-73	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
NMPW 20 SURFACE	d	N.F.	N.F.	N.F.							
	J				1.000						
	H				0.000						
	S				1						
	N				2						
NMPW 20 BOTTOM	d		0.417	N.T.	N.F.						
	J		0.993								
	H		0.805								
	S		2								
	N		11								
NMPW 40 SURFACE	d		N.F.	N.F.							
	J										
	H										
	S										
	N										
NMPW 40 BOTTOM	d		0.417	N.T.							
	J		0.939								
	H		0.761								
	S		2								
	N		11								
NMPW 60 SURFACE	d		N.F.	N.F.							
	J										
	H										
	S										
	N										
NMPW 60 BOTTOM	d			N.T.	0.264						
	J		1.000		0.133						
	H		0.000		0.124						
	S		1		2						
	N		1		44						

*ND = NO DATA NT = NO TRAWL

NF = NO FISH

TABLE V C-2

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 3-28-73	NIGHT 3-28-73	DAY 4-25-73	NIGHT 4-25-73	DAY 5-30-73	NIGHT 5-30-73	DAY 6-13-73	NIGHT 6-13-73	DAY 6-25-73	NIGHT 6-25-73
NMPP 20 SURFACE	d	N.F.	0.330	N.F.	0.434	N.F.	0.629	N.F.	N.T.	N.F.	
	J		0.134		0.967		0.534				1.000
	H		0.210		0.771		0.737				0.000
	S		3		2		3				1
	N		427		10		24				1
NMPP 20 BOTTOM	d	N.T.	N.F.	1.254	N.T.		0.291				0.942
	J			0.190		1.000	0.176	1.000		7.000	0.798
	H			0.605		0.000	0.160	0.000		0.000	1.718
	S			9		1	2	1		1	5
	N			591		2	31	25		398	70
NMPP 40 SURFACE	d	N.F.	0.223	N.F.	0.334		0.758	N.F.		N.F.	N.F.
	J		0.251		0.992	1.000	0.559				
	H		0.240		0.868	0.000	0.721				
	S		2		2	1	3				
	N		88		20	17	14				
NMPP 40 BOTTOM	d	N.T.	N.F.		0.558		0.472				0.638
	J			1.000	0.200	1.000	0.560	1.000		1.000	0.655
	H			0.000	0.286	0.000	0.836	0.000		0.000	0.900
	S			1	3	1	3	1		1	3
	N			239	36	19	69	12		1	23
NMPP 60 SURFACE	d	0.910	0.334	N.F.		N.F.	0.638	N.F.		N.F.	N.F.
	J	0.899	1.000		1.000		0.693				
	H	0.528	0.875		0.000		0.952				
	S	2	2		1		3				
	N	3	20		22		23				
NMPP 60 BOTTOM	d	N.T.	N.F.		0.211		0.294				
	J			1.000	0.194		0.441	1.000		1.000	1.000
	H			0.000	0.198		0.400	0.000		0.000	0.000
	S			1	2		2	1		1	1
	N			8	115		30	1		1	2

ND = NO DATA NT = NO TRAWL
NF = NO FISH

TABLE V C-2 Cont'd.

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 7-13-73	NIGHT 7-13-73	DAY 7-22-73	NIGHT 7-22-73	DAY 8-2-73	NIGHT 8-2-73	DAY 8-14-73	NIGHT 8-14-73	DAY 8-27-73	NIGHT 8-27-73
NMPP 20 SURFACE	d	N.T.	N.T.	N.F.	N.F.	N.F.	N.F.			N.F.	
	J							1.000	1.000		1.000
	H							0.000	0.000		0.000
	S							1	1		1
	N							111	33		34
NMPP 20 BOTTOM	d				1.443			0.133	N.T.		0.455
	J				1.000		1.000	0.006			0.450
	H				0.500		0.000	0.006			0.352
	S				2		1	2			2
	N				2		1	1845			9
NMPP 40 SURFACE	d						0.514				0.214
	J				1.000		0.583	1.000	1.000		0.066
	H				0.000		0.401	0.000	0.000		0.063
	S				1		2	1	1		2
	N				1		7	18	35		106
NMPP 40 BOTTOM	d				0.346				0.882		0.621
	J			1.000	0.268		1.000	1.000	0.348	1.000	0.688
	H			0.000	0.232		0.000	0.000	0.611	0.000	0.464
	S			1	2		1	1	4	1	2
	N			1	18		3	24	30	1	5
NMPP 60 SURFACE	d			N.F.	N.F.		0.558			N.F.	
	J						0.598	1.000	1.000		1.000
	H						0.431	0.000	0.000		0.000
	S						2	1	1		1
	N						6	4	20		17
NMPP 60 BOTTOM	d			0.286			0.455				1.365
	J			0.300			0.450	1.000	1.000		0.808
	H			0.274			0.352	0.000	0.000		1.174
	S			2			2	1	1		4
	N			33			9	7	12		9

ND [illegible] DATA NT = NO TRAWL
NF = NO FISH

TABLE V C-2 Cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.*

STATIONS	INDEX	DAY 9-10-73	NIGHT 9-10-73	DAY 9-20-73	NIGHT 9-20-73	DAY 10-02-73	NIGHT 10-02-73	DAY 10-18-73	NIGHT 10-18-73	DAY 11-13-73	NIGHT 11-13-73
NMPP 20 SURFACE	d	N.F.	N.T.	N.F.	0.910	N.F.	1.443	N.F.	0.434	N.F.	
	J				0.899		0.936		0.416		1.000
	H				0.528		0.896		0.332		0.000
	S				2		3		2		1
	N				3		4		10		3
NMPP 20 BOTTOM	d		N.F.	0.721				1.000	0.501		
	J			0.774	1.000		1.000	1.000	0.255		1.000
	H			0.500	0.000		0.000	0.000	0.375		0.000
	S			2	1		1	1	3		1
	N			4	5		1	1	54		54
NMPP 40 SURFACE	d		N.T.	N.F.	N.F.		N.F.	N.F.	0.629		0.758
	J								0.564		0.895
	H								0.779		1.153
	S								3		3
	N								24		14
NMPP 40 BOTTOM	d		N.F.		1.116		1.443	1.443			0.379
	J				0.756		0.936	1.000	1.000		0.324
	H				0.818		0.896	0.500	0.000		0.272
	S				3		3	2	1		2
	N				6		4	2	14		14
NMPP 60 SURFACE	d		0.434		N.F.			N.F.	N.F.		N.F.
	J		0.416				1.000				
	H		0.332				0.000				
	S		2				1				
	N		10				1				
NMPP 60 BOTTOM	d		N.F.				N.F.				0.434
	J				1.000			1.000	1.000	1.000	0.416
	H				0.000			0.000	0.000	0.000	0.332
	S				1			1	1	1	2
	N				2			1	20	1	10

*ND = NO DATA
NF = NO FISH

NT = NO TRAWL

TABLE V C-2 Cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.*

STATIONS	INDEX	DAY 11-20-73	NIGHT 11-20-73	DAY 12-13-73	NIGHT 12-13-73	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
NMPP 20 SURFACE	d	N.F.	1.443	N.F.							
	J		1.000		1.000						
	H		0.500		0.000						
	S		2		1						
	N		2		1						
NMPP 20 BOTTOM	d		0.455	N.T.	N.F.						
	J	1.000	0.733								
	H	0.000	0.574								
	S	1	2								
	N	1	9								
NMPP 40 SURFACE	d	N.F.	N.F.	N.F.	1.820						
	J				1.000						
	H				0.862						
	S				3						
	N				3						
NMPP 40 BOTTOM	d		0.346	N.T.	N.F.						
	J	1.000	0.911								
	H	0.000	0.788								
	S	1	2								
	N	2	18								
NMPP 60 SURFACE	d	N.F.	N.F.	N.F.							
	J										
	H										
	S										
	N										
NMPP 60 BOTTOM	d		0.434	N.T.							
	J		0.866		1.000						
	H		0.691		0.000						
	S		2		1						
	N		10		2						

*ND = [illegible]TA NT = NO TRAWL
NF = NO FISH

TABLE V C-3

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 3-28-73	NIGHT 3-28-73	DAY 4-25-73	NIGHT 4-25-73	DAY 5-30-73	NIGHT 5-30-73	DAY 6-13-73	NIGHT 6-13-73	DAY 6-25-73	NIGHT 6-25-73
NMPE 20 SURFACE	d	N.D	0.286	N.F.	N.F.		0.866	N.F.	N.F.	N.F.	
	J		0.508			1.000	0.703				1.000
	H		0.464			0.000	1.241				0.000
	S		2			1	4				1
	N		33			10	32				1
NMPE 20 BOTTOM	d	N.T.	N.F.	0.763	1.803	N.F.	1.595		0.910		1.549
	J			0.663	0.728		0.854	1.000	0.899	1.000	0.788
	H			1.215	2.414		1.822	0.000	0.528	0.000	2.459
	S			4	10		6	1	2	1	9
	N			51	147		23	1	3	2	175
NMPE 40 SURFACE	d	0.218	0.361	N.F.			0.481	N.F.		N.F.	N.F.
	J	0.121	0.293		1.000	1.000	0.489		1.000		
	H	0.124	0.250		0.000	0.000	0.375		0.000		
	S	2	2		1	1	2		1		
	N	99	16		2	2	8		3		
NMPE 40 BOTTOM	d	N.T.	N.F.			N.F.	0.319		0.340	0.261	1.108
	J			1.000	1.000		0.643	1.000	0.257	0.129	0.823
	H			0.000	0.000		0.570	0.000	0.224	0.120	1.319
	S			1	1		2	1	2	2	4
	N			98	11		23	1	19	46	15
NMPE 60 SURFACE	d				0.455			N.F.	0.910	N.F.	
	J	1.000		1.000	0.733		1.000		0.838		1.000
	H	0.000		0.000	0.574		0.000		0.997		0.000
	S	1		1	2		1		3		1
	N	1.484		1	9		7		9		1
NMPE 60 BOTTOM	d	N.T.		N.F.					0.6		N.F.
	J				1.000	1.000	1.000	1.000	0.675		
	H				0.000	0.000	0.000	0.000	0.464		
	S				1	1	1	1	2		
	N				5	2	5	4	5		

ND = NO DATA NT = NO TRAWL

NF = NO FISH

TABLE V C-3 Cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 7-13-73	NIGHT 7-13-73	DAY 7-22-73	NIGHT 7-22-73	DAY 8-2-73	NIGHT 8-2-73	DAY 8-14-73	NIGHT 8-14-73	DAY 8-27-73	NIGHT 8-27-73
NMPE 20 SURFACE	d	N.F.	N.T.	N.F.	N.F.		N.F.		0.271	N.F.	0.319
	J					1.000		1.000	0.260		0.222
	H					0.000		0.000	0.240		0.197
	S					1		1	2		2
	N					1		121	40		23
NMPE 20 BOTTOM	d					N.F.	N.F.	0.176		0.910	N.F.
	J			1.000	1.000			0.028	1.000	0.899	
	H			0.000	0.000			0.028	0.000	0.528	
	S			1	1			2	1	2	
	N			1	1			295	8	3	
NMPE 40 SURFACE	d	N.D.		N.F.	N.F.	N.F.	0.962		0.910	N.F.	
	J						0.625	1.000	0.899		1.000
	H						0.726	0.000	0.528		0.000
	S						3	1	2		1
	N						8	4	3		24
NMPE 40 BOTTOM	d							N.F.	1.443		N.F.
	J			1.000	1.000		1.000		1.000		
	H			0.000	0.000		0.000		0.500		
	S			1	1		1		2		
	N			1	2		1		2		
NMPE 60 SURFACE	d	N.F.		N.F.							
	J				1.000	1.000	1.000		1.000		1.000
	H				0.000	0.000	0.000		0.000		0.000
	S				1	1	1		1		1
	N				1	1	3		2		18
NMPE 60 BOTTOM	d			0.558	0.721	N.F.			0.558		0.514
	J			0.904	0.774		1.000		0.904		0.842
	H			0.651	0.500		0.000		0.651		0.627
	S			2	2		1		2		2
	N			6	4		1		6		7

'ND [illegible] DATA
NF = [illegible] FISH

NT = NO TRAWL

TABLE V C-3 Cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 9-10-73	NIGHT 9-10-73	DAY 9-20-73	NIGHT 9-20-73	DAY 10-02-73	NIGHT 10-02-73	DAY 10-18-73	NIGHT 10-18-73	DAY 11-13-73	NIGHT 11-13-73
NMPE 20 SURFACE	d	N.F.		N.F.	N.F.	1.443	N.F.	N.F.	N.F.	N.F.	N.F.
	J		1.000			1.000					
	H		0.000			0.500					
	S		1			2					
	N		7			2					
NMPE 20 BOTTOM	d		N.F.		0.798	N.F.					
	J				0.836		1.000		1.000		
	H				1.513		0.000		0.000		
	S				4		1		1		
	N				43		3		6		
NMPE 40 SURFACE	d				N.F.		N.F.				
	J		1.000						1.000		
	H		0.000						0.000		
	S		1						1		
	N		3						1		
NMPE 40 BOTTOM	d				0.910		0.621		0.281		0.390
	J		1.000		0.899		0.965		0.160		0.995
	H		0.000		0.528		0.664		0.147		0.827
	S		1		2		2		2		2
	N		1		3		5		35		13
NMPE 60 SURFACE	d		0.910		1.443		N.F.		0.910		
	J		0.899		1.000				0.899		1.000
	H		0.528		0.500				0.528		0.000
	S		2		2				2		1
	N		3		2				3		1
NMPE 60 BOTTOM	d		N.F.	1.243			0.910				0.340
	J			0.841	1.000		0.899		1.000		0.721
	H			0.864	0.000		0.528		0.000		0.627
	S			3	1		2		1		2
	N			5	3		3		21		19

ND = NO DATA NT = NO TRAWL
NF = NO FISH

TABLE V C-3 (Cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL TRAWL COLLECTIONS IN THE NINE MILE POINT AREA.

STATIONS	INDEX	DAY 11-20-73	NIGHT 11-20-73	DAY 12-13-73	NIGHT 12-13-73	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
NMPE 20 SURFACE	d	N.F.	N.F.	N.F.	N.F.						
	J										
	H										
	S										
	N										
NMPE 20 BOTTOM	d		1.443	N.T.							
	J		1.000								
	H		0.500								
	S		2								
	N		2								
NMPE 40 SURFACE	d		N.F.	N.F.							
	J										
	H										
	S										
	N										
NMPE 40 BOTTOM	d			N.T.							
	J										
	H										
	S										
	N										
NMPE 60 SURFACE	d			N.F.							
	J										
	H										
	S										
	N										
NMPE 60 BOTTOM	d		1.063	N.T.							
	J		0.451								
	H		0.938								
	S		5								
	N		43								

ND [illegible] DATA
NF = NO FISH

NT = NO TRAWL

APPENDIX V-D

TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSITION OF GILL NET COLLECTION AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH AND TRANSECT

TABLE V D-1

CATCH AND PERCENT COMPOSITION
TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSTION OF GILL NET COLLECTION
AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH, AND TRANSECT

GILL NETS

DATE: JUNE '73		NMPW		NMPP		FITZ		NMPE	
SPECIES:	TOTAL	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%
Alewife	4897	241/5.07	52.8	2212/55.54	91.3	786/17.35	69.1	1658/34.77	78.2
Yellow perch	521	97/2.04	21.3	129/3.24	5.3	157/3.47	13.8	138/2.89	6.5
White perch	214	39/0.82	8.5	27/.68	1.1	68/1.50	5.9	80/1.68	3.8
Smallmouth bass	41	3/0.06	0.6	1/.03	0.04	1/.02	0.08	36/0.76	1.7
Rainbow smelt	197	23/0.48	5.0	21/0.53	0.9	60/1.32	5.3	93/1.95	4.4
Spottail shiner	130	24/0.05	5.2	13/0.33	0.5	27/0.06	2.4	66/1.38	3.1
Lake chub	13	12/0.25	2.6	1/.03	0.05	0/0	-	0/0	-
White sucker	80	16/0.34	3.5	11/.28	0.5	20/0.44	1.8	33/0.69	1.6
Trout perch	33	1/0.02	2.0	8/.20	0.3	13/0.38	1.1	11/0.23	0.5
Carp	3	1/0.02	2.0	0/0	-	1/0.02	0.08	1/0.02	0.04
Shallow water cisco	2	0/0	-	0/0	-	2/0.04	0.2	0/0	-
Rock bass	1	0/0	-	0/0	-	1/0.02	0.08	0/0	-
Bluntnose trout	1	0/0	-	0/0	-	1/0.02	0.08	0/0	-
Brown bullhead	1	0/0	-	0/0	-	1/0.02	0.08	0/0	-
Black bullhead	2	0/0	-	0/0	-	0/0	-	2/0.04	0.09
UID	2	0/0	-	0/0	-	0/0	-	2/0.04	0.09
TOTAL	6138	457/9.60		2423/60.86		1138/25.11		2120/44.45	

TABLE V D-2

CATCH AND PERCENT COMPOSITION
TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSTION OF GILL NET COLLECTION
AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH, AND TRANSECT

GILL NETS

DATE: JULY '73		NMPW		NMPP		FITZ		NMPE	
SPECIES:	TOTAL	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%
Alewife	15731	3223/34.7	84.4	3562/75.72	80.4	3489/48.08	68.2	5157/83.12	74.7
Yellow perch	1137	201/2.16	5.3	278/5.91	6.3	454/5.76	8.2	204/3.29	2.9
White perch	1723	93/1.0	2.4	283/6.02	6.4	447/5.67	8.0	900/14.51	13.1
Smallmouth bass	177	17/0.18	0.4	53/1.13	1.2	40/0.51	0.7	67/1.08	1.0
Rainbow smelt	81	13/0.14	0.3	7/0.15	0.2	25/0.32	0.5	36/0.58	.5
Spottail shiner	1431	210/2.26	5.5	182/3.87	4.1	648/8.22	11.7	391/6.30	5.7
Lake chub	9	8/0.09	0.2	0/0	-	1/0.01	0.01	0/0	-
White sucker	194	32/0.34	0.8	20/0.43	0.5	68/0.86	1.2	74/1.19	1.1
Trout perch	103	8/0.09	0.2	14/0.29	0.3	47/0.59	0.8	34/0.55	0.5
Carp	4	1/.01	0.02	1/0.02	0.02	1/0.01	0.01	1/0.02	0.2
Shallow water cisco									
Rock bass	54	11/0.12	0.3	16/0.34	0.4	19/0.24	0.3	8/0.13	0.1
Bluntnose trout	2	0/0		0/0	-	1/0.01	0.01	1/0.02	0.02
Black bullhead	2	0/0		0/0	-	2/0.03	0.04	0/0	-
American eel	2	1/.01	0.02	0/0	-	1/0.01	0.01	0/0	-
Pumpkinseed	3	1/.01	0.02	0/0	-	1/0.01	0.01	1/0.02	0.02
Yellow bass	10	1/.01	0.02	2/.04	0.04	1/0.01	0.01	6/0.10	.1
White bass	1	0/0	-	1/.02	0.02	0/0	-	0/0	-
Northern pike	1	0/0	-	1/.02	0.02	0/0	-	0/0	-
Gizzard shad	13	0/0	-	7/.15	0.2	3/0.04	0.06	3/0.05	0.5
Brown bullhead	5	0/0	-	0/0	-	4/0.05	0.07	1/0.02	0.2
Gar	1	0/0	-	1/.02	0.02	0/0	-	0/0	-
Golden shiner	2	0/0	-	0/0	-	2/0.03	0.04	0/0	-
Walleye	1	0/0	-	0/0	-	1/0.01	0.01	1/0.01	0.05
UID	6	0/0	-	0/0	-	6/0.08	0.1		
TOTAL	20693	3820/41.12		4423/94.13		5561/70.55		6884/111.07	

TABLE V-D-3

CATCH AND PERCENT COMPOSITION
TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSTION OF GILL NET COLLECTION
AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH, AND TRANSECT

GILL NETS

DATE: AUG, '73		NMPW		NMPP		FITZ		NMPE	
SPECIES:	TOTAL	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%
Alewife	5298	1274/21.77	73.9	518/8.68	44.8	2203/41.73	65.3	1303/24.05	44.5
Yellow perch	479	98/1.67	5.7	185/3.10	16.0	150/2.84	4.4	46/.84	1.6
White perch	1807	88/1.50	5.1	188/3.15	16.3	341/6.46	10.1	1190/21.96	40.6
Smallmouth bass	422	126/2.15	7.3	110/1.84	9.5	113/2.14	3.4	73/1.35	2.5
Rainbow smelt	23	3/0.05	0.2	9/0.15	0.8	8/0.15	0.2	3/0.05	0.1
Spottail shiner	441	55/0.94	3.2	26/0.44	2.3	342/6.49	10.2	18/0.33	0.6
Lake chub	2	2/0.03	0.1	0/0	-	0/0	-	0/0	-
White sucker	87	1/0.02	0.7	18/0.30	1.5	16/0.30	0.5	24/0.44	0.8
Trout perch	9	0/1	-	2/0.04	-	5/0.09	0.1	2/.04	0.1
Carp	6	28/0.48	0.07	5/0.08	0.4	0/0	-	0/0	-
Shallow water cisco	1		-	0/0	-	0/0	-	1/.02	0.04
Rock bass	111	28/0.48	1.6	50/0.84	4.3	22/0.42	0.7	11/.20	0.4
Bluntnose trout									
Black bullhead									
American eel									
Pumpkinseed	7	0/0		7/0.12	0.6	0/0	-	0/0	
Yellow bass	5	0/0		0/0	-	5/0.09	0.1	0/0	
White bass	2	0/0		1/0.02	0.1	1/1.9	3.0	0/0	
Northern pike									
Gizzard shad	135	20/0.34	1.2	31/0.52	2.7	50/0.95	1.5	34/0.63	1.2
Brown bullhead	242	0/0		5/.08	0.4	16/0.30	.5	221/4.08	7.5
Golden shiner	2	0/0		1/.02	0.1	0/0	-	1/0.02	0.04
Mottled sculpin	1	0/0		1/.02	0.1	0/0	-	0/0	-
Stone cat	1	0/0		0/0	-	0/0	-	1/0.02	0.04
TOTAL	9081	1726/29.47		1155/19.36		3272/63.86		2928/54.05	

TABLE V D-4

CATCH AND PERCENT COMPOSITION
TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSTION OF GILL NET COLLECTION
AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH, AND TRANSECT

GILL NETS

DATE: SEPTEMBER		NMPW		NMPP		FITZ		NMPE	
SPECIES:	TOTAL	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%
Alewife	1738	213/19.51	72.9	669/23.74	56.9	376/18.62	48.6	480/39.80	63.9
Yellow perch	366	3/0.27	1.0	219/7.77	18.6	130/6.44	16.8	14/1.16	1.9
White perch	284	8/0.73	2.7	58/2.06	4.9	81/4.01	10.5	137/11.36	18.2
Smallmouth bass	138	5/0.46	1.7	60/2.13	5.1	53/2.63	6.9	20/1.67	2.7
Rainbow smelt	91	38/3.48	13.0	6/.21	0.5	11/0.54	1.4	36/2.99	4.8
Spottail shiner	169	3/0.27	1.0	69/2.45	5.9	71/3.52	9.2	26/2.16	3.5
Lake chub	3	2/0.18	0.7	1/0.04	0.1	0/0	-	0/0	-
White sucker	44	8/0.73	2.7	19/0.17	1.6	14/0.69	1.8	3/0.25	0.4
Trout perch	18	0/0	-	0/0	-	15/0.74	1.9	3/0.25	0.4
Rock bass	70	10/0.92	3.4	31/1.10	2.6	13/0.64	1.7	16/1.33	2.1
White bass	7	0/0	-	0/0	-	2/0.09	0.2	5/0.41	0.7
Yellow bass	6	0/0	-	0/0	-	1/0.05	0.1	5/0.41	0.7
Gizzard shad	43	0/0	-	32/1.14	2.7	5/0.23	0.6	6/0.49	0.8
Brown Bullhead	3	1/0.09	0.3	0/0	-	2/0.09	0.2	0/0	-
Chinnock salmon	2	1/0.09	0.3	1/0.04	0.1	0/0	-	0/0	-
Carp	4	0/0	-	4/0.14	0.3	0/0	-	0/0	-
Stonecat	1	0/0	-	1/0.04	0.1	0/0	-	0/0	-
Northern pike	5	0/0	-	5/0.18	0.4	0/0	-	0/0	-
TOTAL	2992	292/26.73		1175/41.71		774/38.29		751/62.28	

TABLE V D-5

CATCH AND PERCENT COMPOSITION
TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSTION OF GILL NET COLLECTION
AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH, AND TRANSECT

GILL NETS

DATE: OCTOBER '73		NMPW		NMPP		FITZ		NMPE	
SPECIES:	TOTAL	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%
Alewife	1997	306/12.80	86.2	486/13.20	67.9	417/16.26	73.6	788/18.17	77.2
Yellow perch	78	5/0.21	1.4	17/0.46	2.4	28/1.09	4.9	28/0.65	2.8
White perch	84	2/0.08	0.5	9/0.24	1.2	13/0.51	2.3	60/1.38	5.9
Smallmouth bass	40	5/0.21	1.4	26/0.71	3.7	7/0.27	1.2	2/0.05	0.2
Rainbow smelt	142	4/0.17	1.1	37/1.01	5.2	35/1.36	6.2	66/1.52	6.5
Spottail shiner	94	5/0.21	1.4	34/0.92	4.7	28/1.09	4.9	27/0.62	2.6
Lake chub	11	6/0.25	1.7	2/0.05	0.3	3/0.12	0.5	0/0	-
White sucker	62	10/0.42	2.8	13/0.35	1.8	6/0.23	1.0	33/0.76	3.2
Rock bass	13	4/0.17	1.1	6/0.16	0.8	3/0.12	0.5	0/0	-
Gizzard shad	108	1/0.04	0.3	79/2.15	11.1	17/0.66	2.9	11/0.25	1.1
Carp	1	1/0.04	0.3	0/0	-	0/0	-	0/0	-
Yellow bass	8	2/0.08	0.5	0/0	-	5/0.19	0.9	1/0.02	0.1
White bass	6	0/0	-	5/.14	0.7	1/0.04	0.2	0/0	-
Walleye	6	4/0.17	1.1	1/.03	0.2	1/0.04	0.2	0/0	-
Trout perch	4	0/0	-	0/0	-	3/0.12	0.5	1/0.02	0.1
Northern pike	2	0/0	-	0/0	-	0/0	-	2/0.05	0.2
Emerald shiner	1	0/0	-	0/0	-	0/0	-	1/0.02	0.1
Bluntnose trout	1	0/0	-	0/0	-	0/0	-	1/0.02	0.1
TOTAL	2658	455/14.85		715/19.42		567/22.10		1021/2353	

TABLE V D-6

CATCH AND PERCENT COMPOSITION
TOTAL CATCH PER UNIT EFFORT AND PERCENT COMPOSTION OF GILL NET COLLECTION
AT NINE MILE POINT AREA ACCORDING TO SPECIES, MONTH, AND TRANSECT

GILL NETS

DATE: DECEMBER '73		NMPW		NMPP		FITZ		NMPB	
SPECIES:	TOTAL	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%	CATCH/UNIT EFFORT	%
Alewife	1282	119/9.10	79.8	344/7.26	68.8	669/13.49	70.9	150/11.14	87.9
Yellow perch	42	2/0.25	1.3	15/0.32	3.0	24/0.48	2.5	1/0.07	0,6
White perch	2	0/0	-	0/0	-	1/0.02	0.1	1/0.07	0,6
Smallmouth bass	8	1/0.08	0.7	1/0.02	0.2	6/0.12	0.6	0/0	-
Rainbow smelt	78	5/0.38	3.3	30/0.63	5.9	36/0.73	3.8	7/0.52	4.1
Spottail shiner	197	2/0.15	1.3	34/0.72	6.8	155/3.13	16.4	6/0.45	3.5
Lake chub	12	9/0.69	6.0	3/0.06	0.7	0/0	-	0/0	-
White sucker	71	7/0.54	4.7	20/0.42	3.9	40/0.81	4.3	4/0.29	2,3
Yellow bass	1	1/0.08	0.7	0/0	-	0/0	-	0/0	-
White bass	5	1/0.08	0.7	0/0	-	4/0.08	0.4	0/0	-
Bluntnose trout	20	1/0.08	0.7	15/0.32	3.0	3/0.06	0.3	1/0.07	0.6
Gizzard shad	39	1/0.08	0.7	34/0.72	6.8	3/0.06	0.3	1/0.07	0.6
Northern pike	1	0/0	-	0/0	-	1/0.02	0.1	0/0	-
Carp	1	0/0	-	0/0	-	1/0.02	0.1	0/0	-
Trout perch	2	0/0	-	1/0.02	0.2	1/0.02	0.1	0/0	-
Lamprey	1	0/0	-	1/0.02	0.2	0/0	-	0/0	-
Mottled sculpin	1	0/0	-	1/0.02	0.2	0/0	-	0/0	-
Burbot	1	0/0	-	1/0.02	0.2	0/0	-	0/0	-
TOTAL	1764	149/11.41		500/10.55		944/19.04		171/12.68	

APPENDIX V-E

NUMBER OF FISHES, NUMBER OF SPECIES, SPECIES DIVERSITY, EVENNESS, AND SPECIES RICHNESS FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA

TABLE V E-1 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/4-7/73
NMPW 15 BGN	D	1.398	1.351	0.851	1.028	1.251		0.200	0.667
	J	0.723	0.769	0.842	0.979	0.930		0.131	0.276
	H	1.965	2.034	1.494	1.102	1.409	NF	0.127	0.629
	S	7	7	4	3	4		2	5
	N	73	85	34	7	11		150	402
NMPW 30 SGN	D	1.207	1.846	0.514					0.819
	J	0.938	0.857	0.842		1.000		1.000	0.252
	H	1.445	1.706	0.627	ND	0.000	NF	0.000	0.639
	S	4	6	2		1		1	6
	N	12	15	7		1		2	447
NMPW 30 BGN	D	2.265	1.108	0.692			1.443		1.193
	J	0.828	0.751	0.565			1.000		0.523
	H	1.987	1.203	0.754	ND	NF	0.500	NF	1.537
	S	8	4	3			2		8
	N	22	15	18			2		353
NMPW 40 SGN	D							1.443	1.460
	J		1.000	1.000			1.000	1.000	0.452
	H	NF	0.000	0.000	ND	NF	0.000	0.500	1.268
	S		1	1			1	2	7
	N		2	2			2	2	61
NMPW 40 BGN	D		1.116						1.530
	J	1.000	0.910	1.000		1.000			0.577
	H	0.000	0.984	0.000	ND	0.000	NF	NF	1.630
	S	1	3	1		1			8
	N	1	6	2		2			97
NMPW 60 SGN	D								0.819
	J	1.000							0.237
	H	0.000	NF	ND	ND	NF	NF	NF	0.543
	S	1							5
	N	3							132

* ND = No data
NF = No fish

TABLE V E-1 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	7/18-19/73	7/19-21/73	8/8-9/73	8/9-10/73	8/10-11/73	8/22-23/73	8/23/73	8/23-24/73	8/24/73
NMPW 15 BGN	D	1.258	0.377	1.207	1.218	1.267	1.300	1.259	1.914	1.559
	J	0.232	0.579	0.460	0.582	0.585	0.476	0.846	0.834	0.926
	H	0.664	0.895	1.284	1.642	1.588	1.305	1.655	1.909	1.644
	S	7	3	7	7	7	7	5	7	5
	N	118	202	144	138	114	101	24	23	13
NMPW 30 SGN	D	0.730	1.489	0.924	0.699	1.437	0.417	1.303	1.313	0.434
	J	0.139	0.206	0.230	0.325	0.427	0.388	0.917	0.647	0.866
	H	0.313	0.621	0.510	0.627	1.134	0.314	1.362	1.490	0.691
	S	5	8	5	4	7	2	4	6	2
	N	240	110	76	73	65	11	10	45	10
NMPW 30 BGN	D	1.145	1.395	0.861	0.985	1.778	1.737		1.801	0.558
	J	0.399	0.429	0.195	0.310	0.346	0.732		0.860	0.598
	H	1.075	1.307	0.462	0.716	1.012	1.230	NF	2.022	0.431
	S	7	8	5	5	9	5		7	2
	N	189	151	104	58	90	10		28	6
NMPW 40 SGN	D	0.910	0.443	0.685	0.462	0.514	0.621	0.721	0.784	1.189
	J	0,114	0.202	0.196	0.149	0.274	0.266	0.774	0.422	.360
	H	0.292	0.316	0.368	0.233	0.402	0.369	0.500	0.769	.875
	S	6	3	4	3	3	3	2	4	6
	N	243	91	80	76	49	25	4	46	67
NMPW 40 BGN	D	1.428	1.717	0.965	1.059	1.022	1.019	0.721		1.019
	J	0.456	0.592	0.314	0.702	0.580	0.583	1.000		0.491
	H	1.404	1.685	0.726	1.147	1.221	0.969	0.646	NO	0.816
	S	9	8	5	4	5	4	2	COLLECTION	4
	N	271	59	63	17	50	19	4		19
NMPW 60 SGN	D	0.204							0.346	0.434
	J	0.054	1.000				1.000		0.268	0.416
	H	0.052	0.000	NET	NET	NET	0.000	NO	0.232	0.332
	S	2	1	LOST	LOST	LOST	1	COLLECTION	2	2
	N	135	46				3		18	10

* ND = No data
NF = No fish

TABLE V E-1 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	9/26/73	9/26-27/73	10/8/73	10/31/73	10/31-11/1/73	10/31-11/2/73	12/2/73	12/2-3/73
NMPW 15 BGN	D		1.417		1.443		0.525		0.328
	J	1.000	0.504	NO	1.000		0.235		0.418
	H	0.000	1.439	SAMPLES	0.500	ND	0.342	NF	0.367
	S	1	7	TAKEN	2		3		2
	N	2	69		2		45		21
NMPW 30 SGN	D		0.921				.651		
	J	1.000	0.382				.105	NOT	1.000
	H	0.000	0.866		NF		.199	RETRIEVED	0.000
	S	1	5				4		1
	N	8	77				100		11
NMPW 30 BGN	D		1.454						0.554
	J	1.000	0.455				NET		0.195
	H	0.000	1.297				LOST		0.281
	S	1	7						3
	N	1	62						37
NMPW 40 SGN	D		2.164				.642		0.481
	J	NO	1.000				.093		0.784
	H	FISH	1.146				.189	NF	0.601
	S		4				4		2
	N		4				107		8
NMPW 40 BGN	D		0.874		0.621		1.559	0.721	0.647
	J	NET	0.684		0.675		0.704	0.774	0.294
	H	NOT	1.203		0.464		1.249	0.500	0.402
	S	PICKED	4		2		5	2	3
	N		31		5		13	4	22
NMPW 60 SGN	D		0.254						1.243
	J	1.000	0.375						0.841
	H	0.000	0.352	NO	NET	ND	NET	NF	0.864
	S	1	2	COLLECTION	LOST		LOST		3
	N	1	51						5

* ND = No data
NF = No fish

TABLE V E-1 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/4-7/73	
	D	0.558			0					
	J	1.000	1.000		1.000	1.000	1.000			
NMPW 60	H	0.720	0.000	NF	0.000	0.000	0.000	NF	NET	
BGN	S	2	1		1	1	1		LOST	
	N	6	3		2	2	1			
	D									
	J									
	H									
	S									
	N									
		7/18-19/73	7/19-21/73	8/8-9/73	8/9-10/73	8/10-11/73	8/22-23/73	8/23/73	8/23-24/73	8/24/73
	D	0.633	1.028	0.780	2.012	1.674				0.434
	J	0.214	0.685	0.440	0.803	0.954	1.000		1.000	1.000
NMPW 60	H	0.427	0.770	0.560	1.529	1.249	0.000	NOT	0.000	0.798
BGN	S	4	3	3	6	4	1	RETRIEVED	1	2
	N	114	7	13	12	6	1		2	10
	D									
	J									
	H									
	S									
	N									
		9/26/73	9/26-27/73	10/8/73	10/31/73	10/31-11/1	10/31-11/2	12/2/73	12/2-3/73	
	D		1.207			1.526	1.668	1.019	1.618	
NMPW 60	J	1.000	0.560		1.000	0.486	0.866	0.396	0.823	
BGN	H	0.000	0.864	NO	0.000	1.219	1.486	0.658	1.745	
	S	1	4	COLLECTION	1	7	5	4	6	
	N	3	12		14	51	11	19	22	
	D									
	J									
	H									
	S									
	N									

* ND = No data
NF = No fish

TABLE V E-2

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/4/73
NMPP 15 BGN	D	1.528		0.923		0.447	0.285	1.200	0.801
	J	0.583		0.421		0.081	0.090	0.518	0.446
	H	1.875	ND	1.083	ND	0.160	0.142	1.032	1.135
	S	9		6		4	3	5	6
	N	188		225		820	1104	28	513
NMPP 30 SGN	D			0.514					0.385
	J			0.538		1.000	1.000	1.000	0.118
	H	NF	ND	0.401	ND	0.000	0.000	0.000	0.182
	S			2		1	1	1	3
	N			7		2	1	3	180
NMPP 30 BGN	D		0.514	0.962		1.820	1.443		0.373
	J		0.983	0.983		0.784	0.936	1.000	0.303
	H	NF	0.733	1.141		1.285	0.896	0.000	0.469
	S		2	3		5	3	1	3
	N		7	8		9	4	1	213
NMPP 40 SGN	D					0.805			
	J	1.000		1.000	1.000	0.792			
	H	0.000	ND	0.000	0.000	0.996	NF	NF	ND
	S	1		1	1	3			
	N	1		3	1	12			
NMPP 40 BGN	D	1.038		1.243					0.232
	J	0.867		0.841	1.000				0.162
	H	1.429	ND	0.864	0.000	NF	NF	NF	0.154
	S	4		3	1				2
	N	18		5	1				74
NMPP 60 SGN	D								0.379
	J								0.554
	H	NF	ND	NF	ND	NF	NF	NF	0.465
	S								2
	N								14

* ND = No data
NF = No fish

TABLE V E-2 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	7/4-6/73	7/18-19/73	7/19-20/73	7/20/73	8/8-9/73	8/9-10/73	8/10-11/73	8/22-23/73	8/23/73	8/23-24/73
NMPP 15 BGN	D	0.887	1.897	1.692	1.101	1.369	1.358	2.015	1.592		1.443
	J	0.526	0.450	0.363	0.431	0.668	0.675	0.530	0.596	NET	0.619
	H	1.461	1.463	1.133	1.117	2.017	1.927	1.745	1.917	NOT	1.752
	S	7	10	9	6	8	7	10	9	RETRIEVED	8
	N	869	115	113	94	166	83	87	152		128
NMPP 30 SGN	D	0.923	1.121	0.424	0.742	1.169	1.340	0.958	1.028	1.116	1.747
	J	0.608	0.146	0.291	0.376	0.459	0.372	0.213	0.852	0.910	0.577
	H	1.564	0.398	0.457	0.720	1.095	1.033	0.559	0.959	0.984	1.374
	S	6	7	3	4	6	7	6	3	3	7
	N	225	211	112	57	72	88	185	7	6	31
NMPP 30 BGN	D		0.812	1.034	0.854	1.177	0.744	1.371	1.443	0.721	1.134
	J		0.223	0.269	0.356	0.440	0.194	0.280	0.743	0.774	0.534
	H	ND	0.518	0.660	0.828	1.138	0.446	0.839	1.049	0.500	1.087
	S		5	6	5	6	5	8	4	2	5
	N		138	126	108	70	217	165	8	4	34
NMPP 40 SGN	D	0.617	0.372	0.372	0.402	0.402					0.577
	J	0.783	0.174	0.141	0.063	0.364			1.000	1.000	0.219
	H	1.533	0.270	0.217	0.099	0.299	NET	NET	0.000	0.000	0.311
	S	4	3	3	3	2	LOST	LOST	1	1	3
	N	129	215	216	145	12			9	36	32
NMPP 40 BGN	D	1.079	0.391	0.955	1.242	1.412	1.559		0.739	1.116	1.801
	J	0.631	0.203	0.303	0.400	0.808	0.704		0.710	0.756	0.845
	H	1.561	0.327	0.768	0.986	1.503	1.249		0.925	0.818	1.986
	S	6	3	6	6	5	5		3	3	7
	N	103	167	152	56	17	13		15	6	28
NMPP 60 SGN	D				0.289		0.621	0.910	0.910		0.279
	J			1.000	0.171	1.000	0.675	0.899	0.899		0.156
	H	NET	NET	0.000	0.156	0.000	0.464	0.528	0.528	NF	0.144
	S	LOST	LOST	1	2	1	2	2	2		2
	N			38	32	16	5	3	3		36

* ND = No data
NF = No fish

TABLE V E-2 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	8/24/73	9/19-20/73	9/19-21/73	9/21/73	10/11-12/73	10/12/73	10/31/73	10/31-11/2/7	11/26-27/73
NMPP 15 BGN	D	1.057	1.559	1.274	1.176	1.723	0.679	0.497		0.258
	J	0.633	0.603	0.555	0.798	0.679	0.770	0.179	NET	0.727
	H	1.318	1.924	1.585	1.604	2.115	1.035	0.292	LOST	0.679
	S	5	9	7	5	9	3	3		2
	N	44	169	111	30	104	19	56		48
NMPP 30 SGN	D	1.243	1.377	0.837	0.910	0.529			0.187	
	J	0.841	0.520	0.454	0.899	0.658		1.000	0.038	1.000
	H	0.864	1.371	1.074	0.528	0.956	NF	0.000	0.037	0.000
	S	3	7	5	2	3		1	2	1
	N	5	78	119	3	44		1	209	28
NMPP 30 BGN	D	1.108		1.724	0.621	1.437	0.621		1.737	0.691
	J	0.843	NET	0.595	0.675	0.611	0.965		0.906	0.161
	H	1.351	NOT	1.952	0.464	1.623	0.664	NO FISH	1.521	0.311
	S	4	RETRIEVED	10	2	7	2		5	4
	N	15		185	5	65	5		10	77
NMPP 40 SGN	D	0.948		1.586	0.721	0.558			0.210	0.668
	J	0.272		0.561	0.774	0.598		1.000	0.061	0.600
	H	0.631		1.717	0.500	0.431	NF	0.000	0.059	0.812
	S	5		9	2	2		1	2	3
	N	68		155	4	6		22	116	20
NMPP 40 BGN	D	0.758		1.657	1.251	1.504	0.805		1.116	1.108
	J	0.663		0.631	0.990	0.636	0.467	1.000	0.910	0.524
	H	0.855		2.032	1.500	1.603	0.587	0.000	0.984	1.075
	S	3		9	4	7	3	1	3	5
	N	14		125	11	54	12	16	6	37
NMPP 60 SGN	D	0.621		1.611	1.864	0.721				0.455
	J	0.675	NET	0.573	0.779	1.000	1.000		NET	0.733
	H	0.464	NOT	1.697	1.804	0.646	0.000	NF	NOT	0.574
	S	2	RETRIEVED	8	7	2	1		RETRIEVED	2
	N	5		77	25	4	1			9

* ND = No data
NF = No fish

TABLE V E-2 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	12/3-4/73	12/4/73	12/15/73	12/15-19/73				
NMPP 15 BGN	D	0.639	0.277						
	J	0.285	0.379						
	H	0.556	0.349	NO	NO				
	S	4	2	FISH	FISH				
	N	109	37						
NMPP 30 SGN	D	0.469			1.443				
	J	0.422		1.000	0.936				
	H	0.684	NO	0.000	0.896				
	S	3	FISH	1	3				
	N	71		1	4				
NMPP 30 BGN	D	1.022			0.455				
	J	0.377	1.000		0.450				
	H	0.794	0.000	NO	0.352				
	S	5	1	FISH	2				
	N	50	4		9				
NMPP 40 SGN	D	0.803							
	J	0.430			1.000				
	H	0.777	NF		0.000				
	S	4			1				
	N	42			2				
NMPP 40 BGN	D	1.306							
	J	0.465	1.000		1.000				
	H	1.074	0.000		0.000				
	S	6	1		1				
	N	46	2		2				
NMPP 60 SGN	D	0.268							
	J	0.505			1.000				
	H	0.469	NF	NF	0.000				
	S	2			1				
	N	42			2				

* ND = No data
NF = No fish

TABLE V E-2 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/4/73		
	D					0.514	0.910				
	J	1.000	1.000	1.000		0.538	0.899	1.000			
NMPP 60	H	0.000	0.000	0.000	ND	0.401	0.528	0.000	NO		
BGN	S	1	1	1		2	2	1	SAMPLE		
	N	9	12	2		7	3	1			
	D										
	J										
	H										
	S										
	N										
		7/4-6/73	7/18-19/73	7/19-20/73	7/20/73	8/8-9/73	8/9-10/73	8/10-11/73	8/22-23/73	8/23/73	8/23-24/73
	D		0.514	0.379	0.319	1.082	1.443				0.706
NMPP 60	J		0.983	0.324	0.222	0.779	0.936	1.000			0.488
BGN	H	ND	0.733	0.272	0.197	1.262	0.896	0.000	NF	NO	0.647
	S		2	2	2	4	3	1		FISH	3
	N		7	14	23	16	4	1			17
	D										
	J										
	H										
	S										
	N										
		8/24/73	9/19-20/73	9/19-21/73	9/21/73	10/11-12/73	10/12/73	10/31/73	10/31-11/2/73		11/26-27/73
	D	0.493		1.443	1.526		0.910	0.303	2.003		1.228
NMPP 60	J	0.183		0.880	0.392	1.000	0.301	0.348	0.840		0.723
BGN	H	0.284	NOT	1.959	0.984	0.000	0.522	0.313	1.880		1.429
	S	3	RETRIEVED	6	7	1	4	2	7		5
	N	58		32	51	1	27	27	20		26
	D										
	J										
	H										
	S										
	N										

* ND = No data
NF = No fish

TABLE V E-2 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	12/3-4/73	12/4/73	12/15/73	12/15-19/73				
NMPP 60 BGN	D	1.272	1.116		1.559				
	J	0.754	0.910	1.000	0.869				
	H	1.755	0.984	0.000	1.542				
	S	6	3	1	5				
	N	51	6	1	13				
	D								
	J								
	H								
	S								
	N								
	D								
	J								
	H								
	S								
	N								
	D								
	J								
	H								
	S								
	N								
	D								
	J								
	H								
	S								
	N								
	D								
	J								
	H								
	S								
	N								

* ND = No data
NF = No fish

TABLE V E-3

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/3-4/73
FITZ 15 BGN	D	1.475		0.687	0.910	1.842	0.188	1.559	1.179
	J	0.638		0.319	0.745	0.799	0.102	0.800	0.647
	H	1.970	ND	0.726	0.886	1.861	0.100	1.420	1.912
	S	9		5	3	7	2	5	8
	N	227		338	9	26	204	13	378
FITZ 30 SGN	D	1.314		0.226		0.758		1.443	0.770
	J	0.895		0.700		0.559		1.000	0.463
	H	1.719	ND	0.715	NF	0.721	NF	0.500	1.037
	S	5		2		3		2	5
	N	21		83		14		2	180
FITZ 30 BGN	D	1.731		0.444	1.820	0.834			1.284
	J	0.928		0.302	1.000	0.658			0.452
	H	2.220	ND	0.455	0.862	0.814	NF	NF	1.317
	S	7		3	3	3			8
	N	32		90	3	11			233
FITZ 40 SGN	D	0.962						1.243	0.490
	J	0.625		1.000				0.841	0.355
	H	0.726	ND	0.000	NF	NF	NF	0.864	0.577
	S	3		1				3	3
	N	8		3				5	59
FITZ 40 BGN	D	0.758			1.243	1.028			0.749
	J	0.696		1.000	0.955	0.979			0.539
	H	0.897	ND	0.000	0.981	1.102	NF	NF	1.269
	S	3		1	3	3			5
	N	14		1	5	7			209
FITZ 60 SGN	D	0.910							
	J	0.899			1.000				1.000
	H	0.528	ND	NF	0.000	NF	NF	NF	0.000
	S	2			1				1
	N	3			1				15

* ND = No data
NF = No fish

TABLE V E-3 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	7/4-6/73	7/18-19/73	7/19-20/73	7/20/73	8/8-9/73	8/9/73	8/9-10/73	8/22-23/73	8/23/73	8/23-24/73
FITZ 15 BGN	D	1.551	1.481	2.189	1.710	1.233	0.713	1.214	1.731	1.553	1.369
	J	0.642	0.575	0.705	0.567	0.422	0.369	0.646	0.718	0.788	0.787
	H	2.210	1.637	2.118	1.642	1.259	0.755	1.725	1.967	1.702	2.144
	S	11	8	10	8	8	4	7	8	6	7
	N	632	113	61	60	292	67	140	57	25	80
FITZ 30 SGN	D	1.074	0.983	1.365	0.838	1.173		0.410	1.649	0.455	1.135
	J	0.462	0.461	0.315	0.179	0.513		0.424	0.855	0.733	0.673
	H	1.267	1.142	0.873	0.416	1.353	NET	0.649	2.086	0.574	1.744
	S	7	6	7	5	6	LOST	3	7	2	6
	N	267	162	81	118	71		132	38	9	82
FITZ 30 BGN	D	1.118	0.984	1.355	0.704	0.836	1.026	1.419	1.747	0.297	1.429
	J	0.561	0.395	0.288	0.246	0.685	0.352	0.681	0.896	0.185	0.705
	H	1.670	1.036	0.877	0.503	1.515	0.924	1.995	2.134	0.168	2.129
	S	8	6	8	4	5	6	8	7	2	8
	N	523	161	175	71	120	131	139	31	29	134
FITZ 40 SGN	D	1.490	0.584	0.836	0.834	1.029	0.558	0.803	1.820	0.417	1.558
	J	0.479	0.101	0.126	0.418	0.158	0.904	0.268	1.000	0.388	0.526
	H	1.539	0.202	0.278	0.939	0.405	0.651	0.485	0.862	0.314	1.310
	S	9	4	5	5	6	2	4	3	2	7
	N	215	170	120	121	129	6	42	3	11	47
FITZ 40 BGN	D	1.237	0.643	0.819	0.449	0.971	1.019	1.445			1.637
	J	0.575	0.456	0.335	0.131	0.562	0.654	.590	1.000	1.000	.648
	H	1.745	0.910	0.768	0.212	1.459	1.086	1.800	0.000	0.000	1.774
	S	8	4	5	3	6	4	8	1	1	8
	N	287	106	132	86	172	19	127	1	31	72
FITZ 60 SGN	D		0.948					.231			1.059
	J		0.363			1.000	1.000	.086		NET	0.630
	H	NET	0.842	NO	ND	0.000	0.000	.082	NET	NOT	1.030
	S	LOST	5	COLLECTION		1	1	2	LOST	RETRIEVED	4
	N		68			217	3	76			17

* ND = No data
NF = No fish

TABLE V E-3 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	8/24/73	9/21-22/73	10/12-13/73	10/13/73	10/31/73	10/31-11/2/73	11/27-28/73	11/28/73	12/4-5/73	12/5-8/73
FITZ 15 BGN	D	1.303	1.386	1.603	0.721	0.244	0.390				0.582
	J	0.828	0.648	0.526	0.774	0.333	0.343	1.000			0.313
	H	1.230	1.920	1.622	0.500	0.315	0.285	0.000	NO	NO	0.443
	S	4	8	9	2	2	2	1	FISH	COLLECTION	3
	N	10	156	147	4	60	13	1			31
FITZ 30 SGN	D	1.028	1.600	0.614		0.379				0.238	0.596
	J	0.685	0.500	0.701		0.324		1.000		0.088	0.171
	H	0.770	1.665	0.976	NO	0.272	NET	0.000	NF	0.091	0.343
	S	3	10	3	FISH	2	LOST	1		2	4
	N	7	277	26		14		1		67	154
FITZ 30 BGN	D	0.962	1.680	.730			1.782	1.138		0.973	0.910
	J	0.875	0.760	.622	1.000	1.000	.337	0.675		0.414	0.733
	H	1.016	2.255	1.193	0.000	0.000	1.083	1.717	NF	0.909	1.271
	S	3	9	4	1	1	9	6		5	4
	N	8	117	61	1	87	89	81		61	27
FITZ 40 SGN	D		1.100	0.668				0.390			1.081
	J	1.000	0.562	0.434				0.878			0.332
	H	0.000	1.156	0.587	NO	NET NOT	NET	0.729	NF	NO	0.808
	S	1	5	3	FISH	RETRIEVED	LOST	2		COLLECTION	6
	N	8	38	20				13			102
FITZ 40 BGN	D	0.379	1.730	1.108	0.721	0.647		0.938			1.001
	J	0.324	0.699	0.814	0.774	0.294		0.636			0.439
	H	0.272	2.132	1.670	0.500	0.402	NET	1.405	NF		1.139
	S	2	9	5	2	3	LOST	5			6
	N	14	102	37	4	22		71			148
FITZ 60 SGN	D		0.600	0.417						0.390	0.261
	J	1.000	0.482	0.649				1.000		0.957	0.598
	H	0.000	0.675	0.526	NO	NO	NET	0.000	NO	0.795	0.558
	S	1	3	2	FISH	FISH	LOST	1	FISH	2	2
	N	15	28	11				1		13	46

* ND = No data
NF = No fish

TABLE V E-3 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/3-4/73		
FITZ 60 BGN	D	0.379			1.443				0.621		
	J	0.324			1.000			1.000	0.965		
	H	0.272	ND	ND	0.500	NF	NF	0.000	0.664		
	S	2			2			1	2		
	N	14			2			2	5		
	D										
	J										
	H										
	S										
	N										
		7/4-6/73	7/18-19/73	7/19-20/73	7/20/73	8/8-9/73	8/9/73	8/9-10/73	8/22-23/73	8/23/73	8/23-24/73
FITZ 60 BGN	D	0.925	0.905	0.397	0.511	0.567	0.511	0.752	1.443		0.758
	J	0.445	0.206	0.165	0.270	0.836	0.687	0.771	1.000		0.663
	H	1.231	0.478	0.266	0.396	1.192	1.007	1.419	0.500	NO	0.855
	S	7	5	3	3	3	3	4	2	FISH	3
	N	656	83	155	50	34	50	54	2		14
	D										
	J										
	H										
	S										
	N										
		8/24/73	9/21-22/73	10/12-13/73	10/13/73	10/31/73	10/31-11/2/73	11/27-28/73	11/28/73	12/4-5/73	12/5-8/73
FITZ 60 BGN	D	0.910	1.242	1.914	0.819	0.390		1.358		0.853	0.966
	J	0.576	0.839	0.827	0.475	0.957		0.540		0.535	0.577
	H	0.686	1.968	1.891	0.853	0.795	NET	1.022	NO	1.264	1.482
	S	3	6	7	4	2	LOST	5	FISH	5	6
	N	9	56	23	39	13		19		109	177
		12/16-19/73									
FITZ 60 BGN	D										
	J										
	H	NO									
	S	COLLECTIONS									
	N										

* ND = No data
NF = No fish

TABLE V E-3 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	12/15-19/73							
FITZ 15 BGN	D	0.910							
	J	0.899							
	H	0.528							
	S	2							
	N	3							
FITZ 30 SGN	D								
	J								
	H	NO							
	S	COLLECTION							
	N								
FITZ 30 BGN	D								
	J								
	H								
	S								
	N								
FITZ 40 SGN	D								
	J								
	H								
	S								
	N								
FITZ 40 BGN	D								
	J								
	H								
	S								
	N								
FITZ 60 SGN	D								
	J	NO							
	H	SAMPLES							
	S	TAKEN							
	N								

* ND = No data
NF = No fish

TABLE V E-4

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/3-4/73
NMPE 15 BGN	D	1.530	1.421	1.092	0.838	0.835	0.774	0.722	1.210
	J	0.707	0.737	0.600	0.478	0.199	0.062	0.264	0.558
	H	1.997	2.136	1.236	1.112	0.504	0.159	0.621	1.675
	S	8	8	5	5	6	6	5	8
	N	97	138	39	118	399	639	254	325
NMPE 30 SGN	D	1.138	1.294	0.334			0.962		0.796
	J	0.541	0.658	0.247	1.000		0.938	NET	0.160
	H	1.376	1.273	0.216	0.000	NF	1.089	LOST	0.407
	S	6	5	2	1		3		6
	N	81	22	20	1		8		536
NMPE 30 BGN	D	0.903	1.321	0.402		1.443	0.721	0.896	1.019
	J	0.553	0.893	0.364	1.000	1.000	1.000	0.428	0.396
	H	1.311	2.053	0.299	0.000	0.500	0.646	0.973	1.105
	S	5	6	2	1	2	2	5	7
	N	84	44	12	1	2	4	87	360
NMPE 40 SGN	D	1.443		0.910					0.455
	J	1.000		0.899		1.000		1.000	0.990
	H	0.500	NF	0.528	NF	0.000	NF	0.000	0.775
	S	2		2		1		1	2
	N	2		3		1		2	9
NMPE 40 BGN	D	0.567	1.384	1.443			1.443	1.443	1.171
	J	0.500	0.561	0.936			1.000	1.000	0.263
	H	0.714	1.054	0.896	NF	NF	0.500	0.500	0.779
	S	3	5	3			2	2	8
	N	34	18	4			2	2	394
NMPE 60 SGN	D								0.554
	J								0.195
	H	NET	NET	NET	NF	NF	NET	NET	0.281
	S	LOST	LOST	LOST			LOST	LOST	3
	N								37

* ND = No data
NF = No fish

TABLE V E-4 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	7/4-6/73	7/18-19/73	7/19/73	7/19-20/73	7/20/73	8/8-9/73	8/9/73	8/9-10/73	8/22-23/73
NMPE 15 BGN	D	0.460	1.497		0.963	1.164	1.254	0.594	0.882	1.231
	J	0.880	0.453	NOT	0.600	0.438	0.481	0.146	0.425	0.725
	H	1.427	1.396	RETRIEVED	1.491	1.237	1.415	0.281	1.088	1.870
	S	3	9		6	7	8	4	6	6
	N	77	209		180	173	266	156	290	58
NMPE 30 SGN	D	1.014	0.990	0.820	0.214	0.411	0.755			0.841
	J	0.207	0.412	0.495	0.963	0.127	0.419	NET	NO	0.468
	H	0.571	1.019	1.116	0.930	0.200	0.943	LOST	FISH	1.051
	S	7	6	5	2	3	5			5
	N	372	156	131	108	130	200			116
NMPE 30 BGN	D	0.882	1.043	0.848	0.622	0.198	1.120	0.793	0.752	1.633
	J	0.577	0.682	0.667	0.705	0.048	0.536	0.533	0.524	0.486
	H	1.602	1.695	1.525	1.352	0.047	1.365	0.966	0.964	1.564
	S	7	6	5	4	2	6	4	4	9
	N	899	121	112	124	155	87	44	54	134
NMPE 40 SGN	D	0.784					0.704	0.706	0.241	0.519
	J	0.125	NET	NET	NET	NET	0.589	0.876	0.883	0.488
	H	0.319	LOST	LOST	LOST	LOST	1.204	1.161	0.907	0.713
	S	6					4	3	2	3
	N	589					71	17	63	47
NMPE 40 BGN	D		1.188		0.993	1.365	0.756	0.542	0.506	0.281
	J	NET	0.356		0.549	0.808	0.601	0.721	0.648	0.287
	H	LOST	0.973		1.426	1.174	1.105	1.041	0.953	0.263
	S		7		6	4	4	3	3	2
	N		156		154	9	53	40	52	35
NMPE 60 SGN	D	0.629					0.446		0.340	1.443
	J	0.058	NET		NET	NET	0.246	NET	0.817	0.936
	H	0.134	LOST		LOST	LOST	0.399	LOST	0.711	0.896
	S	5					3		2	3
	N	575					89		19	4

* ND = No data
NF = No fish

TABLE V E-4 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	8/23/73	8/23-24/73	8/24/73	9/25/73	9/25-26/73	10/13-15/73	10/31/73	10/31-11/2/73	12/2-3/73	12/3/73
NMPE 15 BGN	D	1.365	0.935	1.365	0.361	1.493	2.002	0.204	1.335	0.539	
	J	0.881	0.647	0.808	0.293	0.616	0.638	0.054	0.825	0.180	NO
	H	2.001	1.464	1.174	0.250	1.941	1.620	0.053	1.574	0.260	FISH
	S	6	5	4	2	9	8	2	5	3	
	N	39	72	9	16	212	33	134	20	41	
NMPE 30 SGN	D	0.629	1.050		0.675	1.054				0.315	
	J	0.226	0.491	1.000	0.289	0.545	NET	1.000	NET	0.215	
	H	0.452	1.256	0.000	0.560	1.354	LOST	0.000	LOST	0.191	
	S	4	6	1	4	6		1		2	
	N	118	117	4	85	115		25		24	
NMPE 30 BGN	D	1.294	1.218		0.279	1.517	0.782	0.369		0.971	1.443
	J	0.811	0.550	1.000	0.156	0.574	0.304	0.308		0.441	1.000
	H	1.569	1.552	0.000	0.144	1.708	0.689	0.260		0.746	0.500
	S	5	7	1	2	8	5	2		4	2
	N	22	138	2	36	101	166	15		22	2
NMPE 40 SGN	D	0.279	0.426			0.455	0.739		1.103		
	J	0.156	0.650	1.000	1.000	0.570	0.488	NOT	.325	1.000	
	H	0.144	1.019	0.000	0.000	0.857	1.010	PULLED	.830	0.000	NF
	S	2	3	1	1	3	5		6	1	
	N	36	109	1	17	81	225		93	16	
NMPE 40 BGN	D	0.402	0.497		0.607	0.977	0.481				
	J	0.614	0.691	1.000	0.251	0.520	0.784	NOT	NO		1.000
	H	0.504	1.124	0.000	0.350	1.109	0.601	RETRIEVED	COLLECTION		0.000
	S	2	3	1	3	5	2				1
	N	12	56	12	27	60	8				1
NMPE 60 SGN	D		0.745			0.248	1.475				
	J	NO	0.625	1.000	NET	0.414	0.310	NET	NO		
	H	FISH	1.152	0.000	LOST	0.390	0.957	LOST	COLLECTION		NF
	S		4	1		2	9				
	N		56	1		56	227				

* ND = No data
NF = No fish

TABLE V E-4 cont'd

NUMBER OF FISHES (N), NUMBER OF SPECIES (S), SPECIES DIVERSITY (H), EVENNESS (J), AND SPECIES RICHNESS (D) FOR ALL GILL NET COLLECTIONS IN THE NINE MILE POINT AREA*

STATIONS	INDEX	6/4-5/73	6/5-6/73	6/6/73	6/18/73	6/18-19/73	6/19/73	6/19-20/73	7/3-4/73		
NMPE 60 BGN	D	0.481		0.910					0.230		
	J	0.784	1.000	0.899	1.000				0.669		
	H	0.601	0.000	0.528	0.000	NF	NF	NF	0.639		
	S	2	1	2	1				2		
	N	8	5	3	1				78		
	D										
	J										
	H										
	S										
	N										
		7/4-6/73	7/18-19/73	7/19/73	7/19-20/73	7/20/73	8/8-9/73	8/9/73	8/9-10/73	8/22-23/73	
NMPE 60 BGN	D	0.826	0.749		0.817	0.824	0.819	0.532	0.679	1.443	
	J	0.209	0.630	NET	0.604	0.591	0.418	0.173	0.752	0.936	
	H	0.529	1.160	LOST	1.427	1.374	0.750	0.252	1.011	0.896	
	S	6	4		5	5	4	3	3	3	
	N	426	55		134	128	39	43	19	4	
	D										
	J										
	H										
	S										
	N										
		8/23/73	8/23-24/73	8/24/73	9/25/73	9/25-26/73	10/13-15/73	10/31/73	10/31-11/2/7	12/2-3/73	12/3/73
NMPE 60 BGN	D		1.535			0.434			1.385	0.328	
	J	NO	0.669	NO	1.000	0.416	ND		.776	0.418	1.000
	H	FISH	1.452	FISH	0.000	0.332			2.188	0.367	0.000
	S		6		1	2			7	2	1
	N		26		9	10			76	21	2
	D										
	J										
	H										
	S										
	N										

* ND = No data
NF = No fish

APPENDIX V-F

STOMACH CONTENT ANALYSIS-SMALLMOUTH BASS, WHITE PERCH, YELLOW PERCH

STOMACH CONTENT ANALYSIS

SMALLMOUTH BASS

	Total	% Occurrence	Aver. No. In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
NMPE-15' 9/5/73 Group I 0600-0800						
Unidentified Matter	0.87ml			100.00	1	
			No. Fish Examined:		1	
NMPE-15' 9/15/73 Group II 0600-0800						
Unidentified Matter	0.25ml			100.00		
			No. Fish Examined:		1	
NMPP-15' 8/28/73 Group IV 2000-0000						
Decapods	1			54.5	1	
Unidentified Matter	1.25ml			45.5	2	
			No. Fish Examined:		1	
FITZ-15' 8/29/73 Group VI 0400-0800						
Unidentified Matter	0.25ml			100.00		
			No. Fish Examined:		1	

STOMACH CONTENT ANALYSIS

SMALLMOUTH BASS

NMPE-15' 10/8/73 Group VI 0600-0800

	Total	% Occurrence	Aver. No. In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
Unidentified Matter	0.31ml			100.0	1	
			No. Fish Examined:		1	

NMPP-15' 10/8/73 Group VI 1700-2100

Unidentified Matter	0.70ml			100.0		
			No. Fish Examined:		1	

NMPW-15 8/28/73 GROUP VIII/VII 0530-0815

Decapods	1/1 (VIII)	50.0/-		54.9/73.7	1/1	50.0/100.0
Alewife	1			29.5	2	50
Unidentified Matter	.95 ml/1.0 ml					15.5/26.3
Total Organisms	2/1					
			No. Fish Examined 4/1			

NMPE-15 9/5/73 0600-0800 GROUP IV/V/VI/VIII

DECAPODS	(VI) (VIII) 1/1	33.3/16.6		66.6/23.3	1/1	100/100
Unidentified Fish	(VII) 2	50.0	2	69.1	1	100.0
Unidentified Matter	0.67/1.36/0.45/10.58/3.29 ml.			100.0/100.0/33.3/30.9/76.7		
Total Organisms	VI VII VIII 1/ 2 /1		No. Fish Examined 2/4/3/4/7			

STOMACH CONTENT ANALYSIS

SMALLMOUTH BASS

	Total	% Occurrence	Aver. No. In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ.
NMPP-15' 10/8/73 Group VIII 1700-2100						
Decapods		1			65.2	1
Sphaeridae		1			0.1	2
Unidentified Matter		1.15ml			34.8	
No. Fish Examined:						1
NMPP-30' 10/8/73 Group VIII 1700-2100						
Decapods		3			95.9	1
Unidentified Matter		0.32ml			4.1	2
No. Fish Examined:						1
NMPP-15' 10/8/73 Group VIII 1700-2100						
Unidentified Matter		1.2ml			100.00	1
No. Fish Examined:						2

STOMACH CONTENT ANALYSIS

SMALLMOUTH BASS

	Total	% Occurrence	Aver. No. In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
NMPP-15 8/28/73 Group VIII 0430-0830						
Decapods	1	33.3		11.8	2	50.0
Unidentified Fish	1	33.3		8.8	3	50.0
Unidentified Matter	2.6 ml.			79.4	1	
Total Organisms	2		No. Fish Examined 3			
NMPE 8/28/73 Group VIII 0530-0815						
Unidentified Matter	0.32ml			100.00		
			No. Fish Examined:		1	
FITZ-15 8/29/73 GROUP VIII 0400-0800						
Unidentified Matter	0.55 ml.			100.0	1	
			No. Fish Examined 2			

STOMACH CONTENT ANALYSIS

YELLOW PERCH

	Total	% Occurrence	Aver. No. In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
FITZ- 15' 8/29/73 Group I 0400-0800						
Gammarus fasciatus	101	66.6	50.5	44.1	2	69.6
Pontoporeia sp.	2	33.3	-	0.7	5	1.3
Total Amphipods	103	66.6	51.5	44.8	1	71.0
Diptera	36	33.3	-	12.8	4	24.8
Total Insects	36	33.3	-	12.8	4	24.8
Unidentified Matter	0.45 ml			42.3	3	
Total Organisms:	145		Number of Fish Examined:		3	
NMPP-15' 8/28/73 Group II 0430-0830						
Gammarus fasciatus	40	40.0	20	36.2	2	95.2
Total Amphipods	40	40.0	20	36.2	2	95.2
Diptera	2	25.0	-	1.1	3	4.8
Total Insects	2	25.0	-	1.1	3	4.8
Unidentified Matter	1.1 ml			62.7	1	
Total Organisms:	42		Number of Fish Examined:		5	
NMPP-15' 8/29/73 Group III 0430-0830						
Gammarus fasciatus	540	50.0	45	-	-	98.5
Total Amphipods	540	50.0	45	-	-	98.5
Alewife	2	8.3	1	6.6	4	0.3
Unidentified Fish	5	12.5	1.6	14.5	3	0.9
Total Fish	7	20.8	1.4	21.2	2	1.3
Unidentified Matter	5.93 ml			78.7	1	
Total Organisms	548		Number of Fish Examined:		24	

STOMACH CONTENT ANALYSIS

YELLOW PERCH

	Total	% Occurrence	Aver. No In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
FITZ-15' 8/29/73 Group III 0400-0800						
Gammarus fasciatus	135	16.6	45.0	8.3	3	97.8
Total Amphipods	135	16.6	45.0	8.3	3	97.8
Physa sp.	1	5.5	-	76.6	1	0.7
Total Gastropods	1	5.5	-	76.6	1	0.7
Unidentified Fish	2	11.1	1	4.2	4	1.4
Total Fish	2	11.1	1	4.2	4	1.4
Unidentified Matter	2.8 ml			10.8	2	
Total Organisms:	138		Number of Fish Examined:		24	
NMPE-15' 9/5/73 Group III/V 0600-0800						
Gammarus fasciatus	1	-	-	-	-	106.0
Unidentified Matter	0.18 ml/1.04					
			Number of Fish Examined:		1/4	
NMPP-15' 8/29/73 Group IV 0430-0830						
Gammarus fasciatus	378	91.3	37.8	-	-	98.7
Alewife	1	8.3	-	3.6	3	0.2
Unidentified Fish	3	12.5	1.0	9.6	2	0.7
Total Fish	3	12.5	1.0	9.6	2	0.7
Unidentified Matter	6.5 ml			90.3	1	
Total Organisms:	383		Number of Fish Examined:		24	
NMPP-15' 10/25/73 Group IV 0600-0800						
Unidentified Fish	1	50.0	-	52.8	1	16.6
Unidentified Matter	0.95 ml			45.6	2	
Total Organisms:	1		Number of Fish Examined:		2	
NMPP-15' 10/25/73 Group IV 1815-2115						
Unidentified Matter	3.1 ml			100%	1	

STOMACH CONTENT ANALYSIS

YELLOW PERCH

	Total	% Occurrence	Aver. No In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
FITZ-15' 8/29/73 Group IV 0400-0800						
Gammarus fasciatus	12	50.0	-	-	-	92.3
Total Amphipods	12	50.0	-	-	-	92.3
Unidentified Fish	1	-	-	8.0	2	7.7
Unidentified Matter	3.43 ml			91.9	1	
Total Organisms:	13		Number of Fish Examined:		11	
NMPE-15' 10/25/73 Group IV 0600-0800						
Unidentified Matter	.12 ml			100%	1	
NMPP-30' 11/26-28/73 Group IV/V 1730-0725						
Unidentified Matter	.21/.4 ml			100/100	1	
NMPW-15' 10/24/73 Group V 0600-0900						
Unidentified Fish	1	33.3	-	41.3	2	100.0
Total Fish	1	33.3	-	41.3	2	100.0
Unidentified Matter	0.78 ml			58.6	1	
Total Organisms:	1		Number of Fish Examined:		2	
NMPP-15' 8/29/73 Group V 0430-0830						
Valvata sp.	1	-	-	38.7	3	16.6
Amnicola sp.	2	-	-	15.5	4	33.3
Unidentified Matter	0.59 ml			45.7	2	
Total Organisms:	3		Number of Fish Examined:		1	
NMPP-30' 10/24/73 Group V 1700-2100						
Unidentified Fish	1	50.0	-	24.6	2	100.0
Unidentified Matter	3.42 ml			75.3	1	
Total Organisms	1		Number of Fish Examined:		2	

STOMACH CONTENT ANALYSIS

YELLOW PERCH

	Total	% Occurrence	Aver. No. In Stomach	% Total Volume	Rank Based % of Total Volume	% Total No. Organ
	FITZ-15' 8/29/73 Group V 0400-0800					
Total Amphipods	210	33.3	105	52.7	1	99.1
Diptera	2	16.6	-	-	3	0.9
Total Insects	2	16.6	-	-	3	0.9
Unidentified Matter	0.75 ml			36.6	2	
Total Organisms:	212		Number of Fish Examined		7	

STOMACH CONTENT ANALYSIS
NMPW-15 8/27/73
White Perch
2000-0000 GROUP II

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN
Gammarus fasciatus	733	100	244	64.6	1	96.7
Total Amphipods	733	100	244	64.6	1	96.7
Physa sp.	2	66.6	1.0	0.1	5	0.3
Gyraulus Sp.	1	33.3		0.1	6	0.1
Total Gastropods	3.	66.6	1.5	9.1	4	0.4
Diptera	1	33.3		0.1	6	0.1
Total Insects	1	33.3		0.1	6	0.1
Unidentified Fish	18	66.6	9	19.1	2	2.4
Total Fish	18	66.6	9	19.1	2	2.4
Unidentified Matter	1.77 ml.			16.1	3	
Total Organisms	758		No. Fish Examined 3			

GROUP III

Gammarus fasciatus	3677	100.0	230	63.8	1	98.0
Total Amphipods	3677	100.0	230	63.8	1	98.0
Decapods	4	10.5	2	0.4	5	1.0
Physa sp.	5	26.3	21.1	0.1	6	0.1
Total Gastropods	7	36.8	1.4	0.4	5	0.2
Diptera	1	6.2		0.1	6	0.1
Total Insects	1	6.2		0.1	6	0.1
Alewife	3	6.2		0.1		0.1
Unidentified Fish	59	57.9	3.1	19.0	4	1.6
Total Fish	62	63.1	3.2	20.9	2	1.6
Unidentified Matter	11.36ml.			20.1	3	
Total Organisms	3753		No. Fish Examined 15			

STOMACH CONTENT ANALYSIS
NMPE 8/27/73
White Perch
2000-0000 GROUP III

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED % OF TOT.VOL.	% TOT.NO.ORGAN
Gammarus fasciatus	300			72.0	1	100.0
Unidentified Matter	0.7 ml.			28.0	2	
Total Organisms	300		No. Fish Examined 1			

STOMACH CONTENT ANALYSIS
NMPW-15 8/27/73
White Perch
2000-0000 GROUP IV

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Gammarus fasciatus	4132	100.0	590.0	92.6	1	99.3
Total Amphipods	4132	100.0	590.0	92.6	1	99.3
Decapods	1					0.1
Physa sp.	12	25.0	4.0	0.1	5	0.3
Amnicola sp.	3	28.6	1.5	0.1	6	0.1
Gioniobasis lievescens	1	14.2		0.1	6	0.1
Total Gastropods	17	57.1	4.3	0.5	4	0.4
Unidentified Fish	11	28.5	5.5	1.2	3	0.3
Unidentified Matter	2.1 ml.			5.9	2	
Total Organisms	4160		No. Fish Examined 7			

GROUP V

[illegible]arus fasciatus	783	100.0	392	100	1	100
Total Organisms	783		No. Fish Examined 2			

GROUP VI

Gammarus fasciatus	807	100.0		67.6	1	98.0
Total Amphipods	807	100.0		67.6	1	98.0
Valvata sp.	1	50.0		0.1	6	0.1
Physa sp.	6	100.0		0.2	5	0.7
Gioniobasis lievescens	1	50.0		0.1	6	0.1
Total Gastropods	8	100.0		0.3	4	0.9
Unidentified Fish	11			21.4	2	1.3
Unidentified Matter	1.31 ml.			10.7	3	
Total Organisms	823		No. Fish Examined 2			

STOMACH CONTENT ANALYSIS
NMPE-15 9/5/73
White Perch
2110-2250 GROUP V

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.
Gammarus fasciatus	1698	80.0	212.3	65.9	1	96.6
Pontoporeia sp.	4	20.0	2.0	0.1	7	0.2
Total Amphipods	1702	80.0	170.2	65.9	1	96.8
Valvata sp.	4	20.0	2.0	0.1	7	0.2
Physa sp.	16	50.0	3.2	0.5	5	0.9
Amnicola sp.	5	20.0	2.5	0.1	7	0.3
Gioniobasis lievescens	5	30.0	1.6	0.3	6	0.3
Total Gastropods	29	70.0	4.1	0.9	4	1.6
Sphaeridae	5	20.0	2.5	0.1	7	0.3
Diptera	8	10.0		0.1	7	0.4
Total Insects	8	10.0		0.1	7	0.4
Unidentified Fish	7	40.0	1.75	10.4	3	0.4
Total Fish	7	40.0	1.75	10.4	3	0.4
Unidentified Matter	4.66 ml.			26.1	2	
Total Organisms	1758		No. Fish Examined 10			

GROUP VI/VII

Gammarus fasciatus	1250/770	100/100.0	416.6/38.5	82.7/83.3	2.2	96.6/89.4
Pontoporeia sp.	4/4	33.3/50.0		0.1/0.2	18	0.3/0.5
Total Amphipods	1256/774	100.0/100.0	418.6/387	82.8/83.8	1/1	97.1/89.9
Valvata sp.	16.38	66.6/50.0	8.0/-	0.6/2.2	5/4	1.2/4.4
Physa sp.	6	66.6	3	0.2	6/8	0.5

GROUP VI/VIII CONTINUED
NMPE-15/White Perch
2110-2250

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Amnicola sp.	16/25	100.0/50.0	5.3/-	0.6/1.5	5/5	1.2/2.9
Total Gastropods	38	100.0	12.6	1.3	4/6	2.9
Sphaeridae (III)	2/18	33.3/50.0		0.1/0.8	7/7	0.1/2.1
Diptera (III)	2	50.0		0.1	9	0.2
Trichoptera	4	50.0		0.2	8	0.5
Unidentified Matter	1.9 ml./0.83			15.9/11.7	3/3	
Total Organisms	1294/861		No. Fish Examined 3/2			

GROUP IX

Gammarus fasciatus	1157	100.0	385.6	78.7	1	97.8
Amphipods	1157	100.0	385.6	78.7	1	97.8
Valvata sp.	9	100.0	3	0.4	5	0.7
Physa sp.	11	33.3		0.4	5	0.9
Gioniobasis lievescens	4	33.3		0.5	4	0.3
Total Gastropods	24	100.0	8	1.3	3	2.0
Sphaeridae	2	33.3		0.1	6	0.2
Unidentified Matter	1.45			15.9	2	
Total Organisms	1183		No. Fish Examined 3			

STOMACH CONTENT ANALYSIS
NMPP 8/27/73
White Perch
2000-0000 GROUP IV

	TOTAL	%OCCURRENCE	AVER. NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN
Gammarus fasciatus	182			77.9	1	100.0
Unidentified Matter	0.40 ml.			22.1	2	
Total Organisms	182		No. Fish Examined 2			

GROUP VIII

Gammarus fasciatus	358			74.4	1	98.6
Valvata Sp.	1			0.1	6	0.2
Physa sp.	2			0.2	5	0.6
Total Gastropods	3			0.3	4	0.8
Diptera	1			0.1	6	0.2
Total Insects	1			0.1	6	0.2
Alewife	1			10.6	3	0.2
Total Fish	1			10.6	3	0.2
Unidentified Matter	0.55 ml.			14.6	2	
Total Organisms	363		No. Fish Examined 1			

STOMACH CONTENT ANALYSIS
NMPP-15 8/28/73
White Perch I
0430-0830 GROUP I

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED % OF TOT.VOL.	%TOT.NO.ORGAN
Gammarus fasciatus	66	100	33	52.3	2	73.3
Pontoporeia sp.	9	100	5	3.4	6	10.0
Total Amphipods	75	100	38	55.6	1	83.3
Sphaeridae	1	50.0		0.3	8	1.1
Diptera	13	50.0		3.9	4	14.4
Total Insects	14	50.0		4.2	3	15.5
Unidentified Fish	1	50.0		1.0	7	1.1
Unidentified Matter	1.01ml			18.7	5	
Total Organisms	90		No. Fish Examined 2			

STOMACH CONTENT ANALYSIS
NMPW-15 8/28/73
White Perch
2000-0000 GROUP III

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.O
Gammarus Fasciatus	1648	100.0	183.1	82.6	1	99.7
Total Amphipods	1648	100.0	183.1	82.6	1	99.7
Physasp.	1	11.1		0.1	4	0.1
Total Gastropods	1	11.1		0.1	4	0.1
Unidentified Fish	3	22.2	1.5	9.5	3	0.2
Total Fish	3	22.2	1.5	9.5	3	0.2
Unidentified Matter	3.41 ml.			16.3	2	
Total Organisms	1652		No. Fish Examined 9			

GROUP IV

Gammarus Fasciatus	1389	100.0	278	91.0	1	100.0
Unidentified Matter	1.1 ml.			8.2	2	
Total Organisms	1389		No. Fish Examined 5			

GROUP V

Gammarus Fasciatus	328	100.0	162	67.4	1	100.0
Unidentified Matter	1.5 ml.			32.6	2	
Total Organisms	328		No. Fish Examined 2			

STOMACH CONTENT ANALYSIS
Fitz 8/29/73
White Perch
0400-0800 GROUP I

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN
Gammarus fasciatus	101	66.6	50.5	44.1	2	71.1
Pontoporeia sp.	2	33.3		0.6	5	0.1
Total Amphipods	103	100.0		44.8	1	72.5
Diptera	39	66.6		12.8	4	27.4
Total Insects	39	66.6		12.8	4	27.4
Unidentified Matter	.45 ml.			42.3	3	
Total Organisms	142		No. Fish Examined 3			

GROUP II

Gammarus fasciatus	63			30.4	2	95.4
Alewife	3			39.1	1	4.6
Unidentified Matter	.16 ml.			30.4	2	
Total Organisms	66		No. Fish Examined 2			

STOMACH CONTENT ANALYSIS
NMPE-15 9/5/73
White Perch
0600-0800 GROUP II

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOTAL VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Gammarus fasciatus	807	83.3	161.4	38.7	1	93.1
Total Amphipods	807	83.3	161.4	38.7	1	93.1
Valvata sp.	9	33.3	4.5	0.2	8	1.0
Amnicola sp.	1	16.6		0.1	10	0.1
Gyraulus sp.	3	16.6		0.1	9	0.3
Total Gastropods	13	50.0	4.3	0.3	5	1.5
Sphaeridae	8	33.3	4	0.2	8	0.9
Diptera	14	33.3	7	0.4	6	1.6
Total Insects	14	33.3	7	0.4	6	1.6
Alewife	17	16.6		37.5	2	2.0
Unidentified Fish	12	50.0	4	9.5	3	1.4
Total Fish	29	50.0	4	47.0	3	3.4
Unidentified Matter	2.15 ml.			9.3	4	
Total Organisms	866		No. Fish Examined 6			

GROUP III

Gammarus fasciatus	1283	100.0	641.5	68.8	2	91.6
Pontoporeia sp.	12	100.0	6.0	0.9	7	0.9
Total Amphipods	1295	100.0	647.5	69.7	1	92.5
Valvata sp.	17	50.0		0.7	8	1.2
Amnicola sp.	7	50.0		0.3	10	0.5
Total Gastropods	24	50.0		6.7	4	1.7
Sphaeridae	17	100.0	8.5	0.5	9	1.2

GROUP III CONTINUED
NMPE-15/0600-0800
White Perch

	TOTAL	%OCCURRENCE	AVER.NO. STOMACH	%TOTAL VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Diptera	64	100.0	32.0	1.7	6	4.6
Total Insects	81	100.0	40.5	2.2	5	5.8
Unidentified Matter	1.85 ml.			17.6	3	
Total Organisms	1400		No. Fish Examined 2			

GROUP V

G[illegible]rus Fasciatus	1106	100.0	368.6	60.3	2	90.4
Pontoporeia sp.	9	33.3		0.4	9	0.7
Total Amphipods	1115	100.0	371.6	60.7	1	91.2
Valvata sp.	43	100.0	14.3	1.4	6	3.5
Amnicola sp.	15	66.6	7.5	0.5	8	1.2
Gyraulus sp.	15	33.3	7.5	0.5	8	1.2
Total Gastropods	73	100.0	24.3	2.5	5	5.9
Sphaeridae	2	33.3		0.1	10	0.2
Diptera	27	100.0	9.0	0.9	7	2.2
Total Insects	29	100.0	9.6	0.9	7	2.3
Unidentified Fish	6	66.6	3	17.2	4	0.5
Total Fish	6	66.6	3	17.2	4	0.5
Unidentified Matter	2.27 ml.			18.6	3	
To[illegible] Organisms	1223		No. Fish Examined 3			

STOMACH CONTENT ANALYSIS
NMPE-15 9/5/73
White Perch
2110-2250 GROUP II/III

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Gammarus fasciatus (II)	290/468	100/100	96.6/234	60.4/84.9	1	99.3/97.5
Total Amphipods (III)	290	100.0	96.6	60.8/84.9	1	99.3
Physa sp. (III)	6	100.0	3	0.4	5	1.2
Amnicola sp. (III)	4	50.0		0.4	5	0.8
Gioniobasis lievescens (III)	2	50.0		0.4	5	0.4
Total Gastropods (III)	12	100.0	6	1.2	4	2.5
Unidentified Fish (III)	2	33.3		9.9	3	0.7
Total Fish	2	33.3		9.9	3	0.7
Unidentified Matter	1.18 ml./0.67 ml.			29.3/13.9	2	
Total Organisms	480		No. Fish Examined 3/2			

GROUP IV

Gammarus fasciatus	978	100.0	195.6	81.5	1	99.5
Pontoporeia sp.	1	20.0				0.1
Total Amphipods	979	100.0	195.8	81.5	1	98.7
Valvata sp.	2	20.0		0.1	4	0.2
Physa sp.	3	40.0	1.5	0.1	4	0.3
Amnicola sp.	4	60.0	1.3	0.1	4	0.4
Gioniobasis lievescens	1					
Total Gastropods	9	100.0	1.8	0.3	3	0.9
Sphaeridae	3	20.0		0.1	3	0.3
Unidentified Matter	1.80 ml.			21.8	2	
Total Organisms	992		No. Fish Examined 5			

STOMACH CONTENT ANALYSIS
NMPE-15 9/5/73
White Perch
0600-0800 GROUP VI

	TOTAL	%OCCURRENCE	AVER.NO. STOMACH	%TOTAL VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Gammarus fasciatus	788	100.0		63.5	2	95.5
Pontoporeia sp.	21	100.0		0.7	4	2.5
Total Amphipods	802	100.0		64.3	1	98.1
Valvata	9	100.0		0.4	6	1.1
Amnicola	5	100.0		0.2	7	0.6
Total Gastropods	14	100.0		0.6	5	1.7
S[illegible]eridae	2	100.0		0.1	8	0.2
Unidentified Matter	3.60 ml.			35.1	3	
Total Organisms	825		No. Fish Examined 1			

STOMACH CONTENT ANALYSIS
NMPP-15 10-8-73
White Perch
1700-2100 GROUP III

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGA
Gammarus fasciatus	43	50.0		5.5	3	97.7
Alewife	1	50.0		58.1	1	2.3
Unidentified Matter	2.0 ml.			48.4	2	
Total Organisms	44		No. Fish Examined 2			

GROUP V

Gammarus fasciatus	99			28.7	3	75.0
Pontoporeia sp.	9			1.5	5	6.8
Total Amphipods	108			30.2	2	81.8
Isopods	21			11.9	4	15.9
Sphaeridae	3			0.4	6	2.2
Unidentified Matter	1.2 ml.			57.4	1	
Total Organisms	132		No. Fish Examined 1			

GROUP IX

Unidentified Matter	0.35 ml.			100.0	1	
			No. Fish Examined 2			

STOMACH CONTENT ANALYSIS
NMPP-15 10/8/73
White Perch
1700-2000 GROUP VII

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Gammarus fasciatus	704			72.9	1	90.3
Isopods	57			12.5	3	7.3
Sphaeridae	12					15.4
Diptera	6					0.8
Unidentified Matter	0.7			14.6	2	
[illegible] Organisms	779		No. Fish Examined 1			

STOMACH CONTENT ANALYSIS
NMPP-15 10/25/73
White Perch
1815-2115 GROUPS I/II
III/IV/V

	TOTAL	%OCCURRENCE	AVER.NO. IN STOMACH	%TOT.VOL.	RANK BASED %OF TOT.VOL.	%TOT.NO.ORGAN.
Gammarus fasciatus	27/15/44/106/-			100/100/100	1	100/100/100/85.4
Total Gastropods	(IV) 16			48.3	2	12.9
Sphaeridae	(IV) 2			0.2	3	1.6
Unidentified Matter	(V) 2.15/	(IV) .8		(V) 100/	(IV) 66.9	
Total Organisms	210			No. Fish Examined 5		

APPENDIX VI-A

EXPERIMENTAL SAMPLING DESIGN

EXPERIMENTAL SAMPLING DESIGN

In the estimation of the total number of fish impinged over a one year period a substantial saving in number of required sampling dates can be achieved by taking into account two factors: amount of water drawn into the plant, and time of year. The former factor is accounted for by using a ratio estimator (i.e. number fish per million gallons) and the latter is accounted for by stratification on season (i.e. separate estimation for each season).

If the year is divided into K seasons, we wish to estimate K ratios. R_i ($i = 1, \ldots K$) where R_i is the number of fish impinged per million gallons for season i. If we have N_i, 24 hour sampling periods for season i, then let: Y_{ij} = # fish impinged in the jth sampling period of season i

K_{ij} = total water flow (in M Gal) in the jth sampling period of season i.

Then the estimator of R_i is:

$$\hat{R}_i = \sum_{j=1}^{n_i} Y_{ij} \Big/ \sum_{j=1}^{n_i} X_{ij}$$

If we let Y_i be the total number of fish impinged in season i and W_i be the <u>actual</u> amount of water flow for the ith season, then the estimator of Y_i is:

$$\hat{Y}_i = W_i \hat{R}_i$$

Letting Y be the total number of fish impinged in the year, its estimator is:

$$\hat{Y} = \sum_{i=1}^{K} \hat{Y}_i = \sum_{i=1}^{K} W_i \hat{R}_i$$

We have assumed that the W_i's are known and thus are not random variables.

The variance of $\hat{R}_i$ can be estimated from prior data as:

$$V(\hat{R}_i) = \left(\frac{1}{n_i} - \frac{1}{N_i}\right) \frac{S_i^2}{\overline{X}_i^2}$$

where S_i^2 and $\overline{X}_i$ are obtained from a sample size n_o by:

$$\overline{X}_i = \frac{1}{n_o} \sum_{j=1}^{n_o} X_{ij} \quad \text{and} \quad S_i^2 = \frac{1}{n_o - 1} \sum_{j=1}^{n_o} (Y_{ij} - \hat{R}_i X_{ij})^2$$

where $\hat{R}_i$ is based on this sample.

The sample size is derived as follows:

We wish to estimate R_i within $\pm 25\%$ with 95% certainty, or:

$$\Pr \left\{ | R_i - \hat{R}_i | \leq .25 R_i \right\} = .95$$

Looking at the interior of the braces,

$$| R_i - \hat{R}_i | \leq .25 R_i$$

$$\frac{| R_i - \hat{R}_i |}{\sqrt{V(\hat{R}_i)}} \leq \frac{.25 R_i}{\sqrt{V(\hat{R}_i)}}$$

The left hand side of the above inequality represents the absolute value of a random variable which is asymptotical distributed as standardized normal, so, in order to satisfy the probability statement, we need:

$$\frac{.25 R_i}{\sqrt{V(\hat{R}_i)}} \leq 2$$

or

$$\frac{.25\ R_i}{\sqrt{\left(\frac{1}{n_o} - \frac{1}{N_i}\right) \frac{S_i^2}{\overline{X}_i^2}}} \leq 2$$

With some algebra, this yields:

$$n_i = \frac{16\ N_i\ S_i^2}{16\ S_i^2 + N_i\ \hat{R}_i^2\ \overline{X}_i^2}$$

This formula can easily be inferred from information given in Sampling Techniques, by Snedecor and Cochran (1967).*

Examination of 1973 data from Nine Mile Point suggested the division of the year into the following "seasons":

Season	Dates
1	11/1 - 3/20
2	3/21 - 5/20
3	5/21 - 7/31
4	8/1 - 10/31

Using the 1973 data, the following sample sizes were found:

Season	# 24 hour samples needed
1	15
2	10
3	11
4	20
TOTAL	56

*Snedecor, H.W., and W.G. Cochran, 1967. Statistical Methods 6th Ed. Iowa State Univ. Press., Ames. 593 p.