Composition & Dominance, Growth Rates and Microcystin estimates

Town Beach

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)	Measured MC (ug L-1)
6/1/2022	ISO						
6/10/2022	ISO	4.92					
6/21/2022	ISO	6.52					
6/28/2022	ISO	3.53					
7/5/2022	ISO	2.88					
7/12/2022	ISO	1.92					

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/15/2022	WLW	18.11		1.2584	1.08368	0.012		
6/21/2022	WLW	9.15		0.7386	0.27354	0.002		
6/28/2022	WLW	8.15		0.9116	2.38701	0.244	0.316	0.04
7/5/2022	WLW	5.15		0.7181	2.11831	0.144	**0.302**	**0.06**
7/12/2022	WLW	1.46		0.16455	1.52988	0.034		

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/15/2022	Dolichospermum (100%)	BFC	1554		3.19149	2.1166	0.117		
6/21/2022	Dolichospermum (100%)	BFC	75		1.8451	4.39859	0.022		
6/28/2022	Microcystis (95%)	BFC	140.15		2.14659	3.80529	6.387	1.17	0.01
7/5/2022	Microcystis (50%)	BFC	20.69		1.31576	2.85149	0.716	0.836	0.01
7/12/2022	Microcystis (95%)	BFC	41.86	0.10067	1.62218	3.20283	1.599		
		BFC							
		BFC							
		BFC							

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/15/2022	Grab	1788		3.25257	3.15224	0.142	N/D	
6/21/2022								
6/28/2022	Grab	1630		3.26007	5.08354	121.22	**69.19**	0.04
7/5/2022	Grab	1416		3.15064	4.11535	1326.23	**232.38**	0.02
7/12/2022								

Deep 1

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	ISO					
6/15/2022	ISO	2.39				
6/28/2022	ISO	2.38				
7/5/2022	ISO	6.53				
7/12/2022	ISO	1.88				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/1/2022	WLW							
6/15/2022	WLW	5.81		0.76418	0.81883	0.007		
6/28/2022	WLW	1.69		0.22789	1.60261	0.040	0.277	0.16
7/5/2022	WLW	3.53		0.54777	1.66085	0.053		
7/12/2022	WLW	1		0	1.341	0.022		

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/1/2022	Dolichospermum (100%)	BFC	30.44						
6/15/2022	Dolichospermum (100%)	BFC	585.7	0.11342	2.76768	1.8825	0.078		
6/21/2022	Dolichospermum (100%)	BFC	28.13						
6/28/2022	Microcystis (95%)	BFC	61.16		1.78647	3.39186	2.461	0.969	0.02
7/5/2022	Microcystis (95%)	BFC	12.23		1.09861	3.56922	0.392		
7/12/2022	Microcystis (95%)	BFC	22.84	0.08818	1.3587	2.90078	0.796		
		BFC							
		BFC							
		BFC							
		BFC							

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)

Deep 2

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	ISO					
6/15/2022	ISO	1.44				
6/28/2022	ISO	1.46				
7/5/2022	ISO	4.24				
7/12/2022	ISO	1.22				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	WLW					
6/15/2022	WLW	9.68		0.98588	0.93763	0.009
6/28/2022	WLW	1.23		0.08991	1.44421	0.028
7/5/2022	WLW	1.69		0.22789	1.60261	0.040
7/12/2022	WLW	1.23		0.08991	1.44421	0.028

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	Dolichospermum (100%)	BFC	167.3				
6/15/2022	Dolichospermum (100%)	BFC	1682	0.1669	3.22581	2.13802	0.137
6/28/2022	Microcystis (95%)	BFC	26.97		1.43088	2.98365	0.963
7/5/2022	Microcystis (50%)	BFC	22.22		1.59947	3.07287	1.185
7/12/2022	Microcystis (95%)	BFC	49.75	0.06162	1.69679	3.28892	1.945
		BFC					
		BFC					
		BFC					

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)

Thoreau's Cove

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	ISO	1.88				
6/10/2022	ISO					
6/28/2022	ISO	1.69				
7/5/2022	ISO	3				
7/12/2022	ISO	1.23				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	WLW	1.23				
6/15/2022	WLW					
6/28/2022	WLW	2.86		0.45532	1.86161	0.073
7/5/2022	WLW	1.23		0.08991	1.44421	0.028
7/12/2022	WLW	1.23		0.08991	1.44421	0.028

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	Dolichospermum (100%)	BFC	169.2				
6/15/2022	Dolichospermum (100%)	BFC	1064	0.12221	3.02894	2.03143	0.103
6/28/2022	Microcystis (95%)	BFC	49.76		1.69688	3.28902	1.945
7/5/2022	Microcystis (50%)	BFC	6.76		0.82996	2.29278	0.197
7/12/2022	Microcystis (95%)	BFC	55.13	0.29975	1.74123	3.33963	2.187
		BFC					
		BFC					
		BFC					

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)

Sachems Cove

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	ISO					
6/15/2022	ISO	1.55				
7/5/2022	ISO	1.69				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	WLW					
6/15/2022	WLW	14.14		1.15065	1.02583	0.011
7/5/2022	WLW	1.69				

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
6/1/2022	Dolichospermum (100%)	BFC					
6/15/2022	Dolichospermum (100%)	BFC	2223		3.34694	2.20292	0.160
7/5/2022	Microcystis (50%)	BFC	7				
		BFC					
		BFC					
		BFC					
		BFC					

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)