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)

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)	Estimated Doubling Time
	WLW								
	WLW								
	WLW								
6/13/2023	WLW	0.1		-1	0.1266	0.001			
6/27/2023	WLW	**0**		#NUM!	#NUM!	#NUM!	0		
7/11/2023	WLW	1.37		0.13672	1.49796	0.031		0.00	
7/18/2023	WLW	1.18		0.07188	1.42352	0.027		**0.00**	
8/1/2023	WLW	**0.55**		-0.2596	1.04294	0.011			
8/14/2023	WLW	**0.77**		-0.1135	1.21069	0.016			
	WLW								
	WLW								

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)	Doubling Time
05/16/2023	95 % Microcystis	BFC	1.75				0.04			
5/23/2023	95% Microcystis	BFC	2.5	0.05			0.06			**13.38 Days**
6/6/2023	95% Dolichispermum	BFC	3090.27				TNTC			
6/13/2023	90 % Dolichispermum	BFC	79.56		1.90069	1.42788	0.027			
6/27/2023	50:50 Mix	BFC	11.31	-4.89	1.05346	0.97385	0.009			
7/11/2023	90 %Microcystis	BFC	39.25		1.59384	3.17073	1.482		0.00	
7/18/2023	90% microcystis	BFC	11.5		1.0607	2.55868	0.362		0.00	
8/1/2023	90% microcystis	BFC	12.43	0.01111	1.09447	2.59745	0.396			
8/14/2023	90% microcystis	BFC	79.37		1.89966	3.52181	3.325			
		BFC			#NUM!	#NUM!	#NUM!			
		BFC		#DIV/0!	#NUM!	#NUM!	#NUM!			

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 L-1)	Measured MC (ug L-1). ATX (ug L-1 as needed)	PST (ug ug-1)
	Grab									
	Grab									
	Grab			#NUM!	#NUM!	#NUM!			N/D	
	Grab			#NUM!	#NUM!	#NUM!				#DIV/0!
	Grab			#NUM!	#NUM!	#NUM!				#DIV/0!
	Grab									
	Grab									
	Grab									

Deep 1

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 L-1)

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 L-1)
	WLW							
	WLW							
	WLW							#DIV/0!
	WLW			#NUM!	#NUM!	#NUM!		
	WLW							
	WLW			#NUM!	#NUM!	#NUM!		#DIV/0!
	WLW			#NUM!	#NUM!	#NUM!		
	WLW			#NUM!	#NUM!	#NUM!		
	WLW			#NUM!	#NUM!	#NUM!		

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)	Doubling Time

Deep 2

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
5/16/2023						

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)	Estimated Doubling Time
5/16/2023	WLW	**0.55**				0.02			
5/23/2023	WLW	**0.32**	-0.08			0.02			minus 8.81 Days
6/6/2023	WLW	1.93	0.13			0.050			5.31 Days
6/13/2023	WLW	0		#NUM!	#NUM!	#NUM!			
6/27/2023	WLW	0.1							
7/11/2023	WLW	**0.55**		-0.2596	1.04294	0.011			
7/18/2023	WLW	**0.55**		-0.2596	1.04294	0.011			
8/1/2023	WLW	**0.1**		-1	0.193	0.002			
8/14/2023	WLW	**4**		0.60206	2.03216	0.108			
	WLW								
	WLW								

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)	Doubling Time
5/16/2023	95 % Microcystis	BFC	**1**				0.02			
5/23/2023	95% Microcystis	BFC	**3.25**	0.17			0.09			**4.05 Days**
6/6/2023	95% Microcystis	BFC	65.5	0.21453			2.68			3.18 Days
6/13/2023	90% Microcystis	BFC	0.5	-0.3482	-0.301	0.24798	0.002			
6/27/2023	50% mix	BFC	5.87	0.18			0.010			
7/11/2023	90% Microcystis	BFC	9.06		0.95713	2.43978	0.275			
7/18/2023	90% Microcystis	BFC	8.31		0.9196	2.3967	0.249			
8/1/2023	90% microcystis	BFC	39.25	0.22178	1.59384	3.17073	1.482			
058/14/2023	90% microcystis	BFC	27.43		1.43823	2.99208	0.982			
		BFC			#NUM!	#NUM!	#NUM!			
		BFC			#DIV/0!	#NUM!	#NUM!			

Thoreau's Cove

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

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)
5/16/2023	WLW	**0.1**				0.02		
5/23/2023	WLW	**0.55**	0.24			0.02		
6/6/2023	WLW	**2.68**	0.11			0.070		
6/13/2023	WLW	**0**						
6/27/2023	WLW	**0**						
7/11/2023	WLW	**1.18**		0.07188	1.42352	0.027		
7/18/2023	WLW	**0.77**		-0.1135	1.21069	0.016		
8/1/2023	WLW	**0.77**		-0.1135	1.21069	0.016		
8/14/2023	WLW	**1**		0	1.341	0.022		
	WLW							
	WLW							

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)	Doubling Time
5/16/2023	95% Microcystis	BFC	**0.77**				0.02			
5/23/2023	95% microcystis	BFC	6.81	0.31			0.2			**2.19 Days**
6/6/2023	70% Microcystis	BFC	45.43	0.14			1.8			5.03 Days
6/13/2023	90% microcystis	BFC	25.93	-0.0401	1.4138	1.16696	0.015			
6/27/2023	50% mix	BFC	42.06	0.03			19.740			
7/11/2023	90 %Microcystis	BFC	22.18		1.34596	2.88616	0.769			
7/18/2023	90% microcystis	BFC	19.18		1.28285	2.81371	0.651			
8/1/2023	90% microcystis	BFC	42.81	0.1147	1.63155	3.21401	1.637			
8/14/2023	90% microcystis	BFC	46		1.66276	3.24985	1.778			
		BFC		#NUM!	#NUM!	#NUM!	#NUM!			
		BFC								

Sachems Cove

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	Log MC	MC (ug L-1)
	<50					
	<50					
	<50					
	<50					
	<50					
	<50					
	<50					
	<50					
	<50					
	<50					

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)
	WLW							
	WLW							
	WLW							
	WLW			#NUM!	#NUM!	#NUM!		
	WLW							
	WLW							
	WLW							
	WLW							
	WLW							

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)	Doubling Time
		BFC								
		BFC								
		BFC								
		BFC			#NUM!	#NUM!	#NUM!			
		BFC								
		BFC								
		BFC								
		BFC								
		BFC								

Bold RED text denotes values less than 3 µg/L (Limit of Detection)