

APPENDIX 1a Number of phytoplankton sampled at ST1 during high tide and low tide in 12 sampling months.

SPECIES	STATION 1																								
	APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		JAN		FEB		MARCH		
	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	
Division: Bacillariophyta																									
<i>Amphiphora alata</i> Kut		17			4						3	3						13							7
<i>Amphora quadrata</i> Breb		14		5	4										21		9								
<i>Asterionellopsis glacialis</i>			8		15						7		19		27						17				29
<i>Bacillaria paradoxa</i> Gmelin		6				4				3															4
<i>Bacteriastrum comosum</i>																									
<i>Bacteriastrum delicatulum</i>																									7
<i>Bacteriastrum varians</i> Lauder	6		3																	7					13
<i>Bellerochea horologicalis</i>									52					39			43								
<i>Biddulphia longicruris</i>		2	3		4		1	3	5	3		2	2		1				2		6	3			
<i>Biddulphia mobilensis</i>		1	1		2		3	2	8	2	2	1	5		3	2			5			1			
<i>Campylodiscus daemilianus</i>		72		42	3	21		3	5	19		13	5	63				21		59		47		9	
<i>Chaetoceros constrictum</i> Gran	37		26																31		19				
<i>Chaetoceros constrictus</i>																						21			27
<i>Chaetoceros curvisetus</i>	105		168		7														98		78	15	194	18	
<i>Chaetoceros debilis</i>																									
<i>Chaetoceros decipiens</i>	37		14																28		26			15	
<i>Chaetoceros delicatulum</i>																									
<i>Chaetoceros distans</i>																			12		14				18
<i>Chaetoceros laciniosum</i>																				3	7				9

<i>Chaetoceros Lauderii</i> Ralfs	36	1	12														27	5			23	2		
<i>Chaetoceros lorenzianus</i>					4												5		9		19			
<i>Chaetoceros neglectus</i>																								
<i>Chaetoceros socialis</i>			14															14	12	9	13			
<i>Chaetoceros</i> sp.2	12		0																		6			
<i>Chaetoceros</i> sp.3																								
<i>Chaetoceros</i> sp.4																								
<i>Chaetoceros subtilis</i> Cleve						1															5			
<i>Chaetoceros tenuissimus</i>		3	9																		11	21		
<i>Corethron criophilum</i>	5		3		4		1			4		3		2		3					5	6		
<i>Coscinodiscus asteromphalus</i>			1		6	3					5	2			1		2				4	2		
<i>Coscinodiscus centralis</i>		2			4	2	4		5		1		2		2		3	4						
<i>Coscinodiscus concinnus</i>	13	13	8		3	9			3	4	2	3			4	3		4	9	7		2	5	8
<i>Coscinodiscus gigas</i>				5					2												4	8		
<i>Coscinodiscus lineatus</i> Ehr			2		2	4	5	7	4	2	4	2	3	2				6					6	
<i>Coscinodiscus rothii</i> Grunow		2			3	1								3	5		1							
<i>Coscinodiscus</i> sp.		2			3	3					2	1				4								
<i>Coscinodiscus subtilis</i> Ehrenberg									3		2		2				2				4	12		
<i>Cyclotella meneghiana</i>																								
<i>Cymbella tumida</i>			3			4						7		5										
<i>Diatoma elongatum</i>				3		4																		
<i>Ditylum Brightwelli</i>	2		4		3				7		2		2	1							4	3	5	4
<i>Fragilaria</i> sp.				3																			3	
<i>Fragillaria pinnata</i> var trigona				4	4							2	5	4	3									
<i>Frustulia vulgaris</i>						2					6		3	2										
<i>Guinardia flaccida</i>	3		5		2					2	3			3	2						3		4	
<i>Gyrosigma spencerii</i>					4												5							

<i>Gyrosigma scalproides</i>						3																
<i>Gyrosigma spencerii</i>					2		7				6											
<i>Lauderia borealis</i> Gran			5		25						47				43		17		37			63
<i>Leptocylindrus danicus</i> Cleve	23		19		15	3					59				28		17		37			69
<i>Mastogloia smithii</i> Ehr																						
<i>Melosira moniliformis</i> Agardh		62		110	6											41						45
<i>Melosira nummuloides</i>																						
<i>Navicula peticolasii</i>	2								2		1		2		2					4		
<i>Navicula radiosa</i> Kutz								37														
<i>Nitzschia acicularis</i>									5		8											
<i>Nitzschia longissima</i>		1	2				2															
<i>Pseudo-nitzschia pungens</i>	52		45	4	22			23	3	27	7	27		36		24	23	26	7	37	11	71
<i>Pinnularia acuminata</i>							1075			11						11						13
<i>Pinnularia</i> sp.		169			5																	13
<i>Pinnularia tabellaria</i>							143					11		13		15						24
<i>Planktoniella sol</i>			2		1				2	1	2	3		5	2	3		4		3		5
<i>Pleurosigma angulatum</i>								3		2											3	
<i>Pleurosigma directum</i> Grunow		2			4	4		4				2				2	2			3		
<i>Pleurosigma elongatum</i>	4		1		2			2	2			5		10				5				2 2
<i>Pleurosigma</i> sp.2						2							2			5						
<i>Pseudo-Nitzschia cuspidata</i>					5							6		5		4						5
<i>Rhizosolenia alata</i> Brightwell	3		4		2			3	2	1		11		6		5		2	2	3		
<i>Rhizosolenia hebetata</i>	3		5					5	3			4						4	5	4		7 5
<i>Rhizosolenia imbricata</i>	5	1			7				2	3		4			1					6		6
<i>Rhizosolenia setigera</i>			3		3			13	1				2			7						2
<i>Rhizosolenia striata</i>			3							3				3		6		3		6		4
<i>Skletonema costatum</i>	382		572		153	15		69	1585	57	376	23	598	21	278	21	173		397	41	238	39 678

<i>Stauroneis obtusa</i> Lagerst		8				13																	4	
<i>Stauroneis pusilla</i> Cleve				4																				
<i>Thalassionema nitzschoides</i> Grunow																								
<i>Thalassiothrix frauenfeldii</i>	9		12		6			11		7		21	9	42	10	17		7		15	4	15		
<i>Triceratium favus</i> Ehr f quadrata	2		1		1			3			1	3			2	3				2				
<i>Triceratium</i> sp. Ehrenberg Grun		3	5	2	2	3		1		2		2		2	3			1				2		
Division Chlorophyta																								
<i>Mougeotia</i> sp.	35		29																			26		
<i>Cosmarium humile</i> Breb				8						4														
<i>Rhizoclonium</i> sp.										124		238			197			243				219		
Division Pyrrophyta																								
<i>Peridinium cinctum</i> Ehrenberg																								
Division: Cyanobacteria																								
<i>Oscillatoria tenuis</i> Roth		301		364		179												298						
TOTAL	776	682	992	554	340	279	1237	92	1786	119	591	72	###	114	470	250	409	406	960	145	627	162	###	119
No of species	21	19	32	12	35	20	9	7	22	17	23	14	34	11	21	11	21	9	21	10	30	13	37	13

<i>Chaetoceros laciniosum</i>	9		2																			
<i>Chaetoceros Lauderii</i> Ralfs	24		13																			31
<i>Chaetoceros lorenzianus</i>	10							22								13	17			7	9	
<i>Chaetoceros neglectus</i>	10																					
<i>Chaetoceros socialis</i>	38		21														25			17	21	
<i>Chaetoceros</i> sp.2	18		15													14	13			2	9	
<i>Chaetoceros</i> sp.3																						
<i>Chaetoceros</i> sp.4																						
<i>Chaetoceros subtilis</i> Cleve			12													17			15		11	
<i>Chaetoceros tenuissimus</i>	3																					6
<i>Corethron criophilum</i>	5		1		3			2		3		2		2		1		1				
<i>Coscinodiscus asteromphalus</i>	2			12	1	3			2		3			2		3				2		
<i>Coscinodiscus centralis</i>		3		3	2		8	4	5					2					3			3
<i>Coscinodiscus concinnus</i>	3			7	4				6	3	5		5	2	4	4						
<i>Coscinodiscus gigas</i>					3					2	1		3				3					2
<i>Coscinodiscus lineatus</i> Ehr	3	5	1		6	3	6		3	3				6	4			4		7		
<i>Coscinodiscus rothii</i> Grunow			2		1					5	2	3				2		2			2	
<i>Coscinodiscus</i> sp.	4	1	2		6			2			2			5					4			1
<i>Coscinodiscus subtilis</i> Her.									5		3	1	2	1	2		1			3	2	3
<i>Cyclotella meneghiana</i>		5													6							
<i>Cymbella tumida</i>			5		6		243						8							11		
<i>Diatoma elongatum</i>			4		5	2		3			5		3		3							
<i>Ditylum Brightwelli</i>	2		3		4			3		3	4		3	2				3		1		1 3
<i>Fragilaria</i> sp.			2		3			2	2		3				3							
<i>Fragillaria pinnata</i> var <i>trigona</i>				2	3												2					
<i>Frustulia vulgaris</i>				2																		
<i>Guinardia flaccida</i>	4		5		2						2						3		6		3	5

<i>Gyrosigma spencerii</i>				2	4	4							5										
<i>Gyrosigma scalproides</i>		2		1	2	4		2	3	4				3									
<i>Gyrosigma spencerii</i>				2							1				4								
<i>Lauderia borealis</i> Gran				31		24				11			28		55		23		59				
<i>Leptocylindrus danicus</i> Cleve	30		52	21				16		25					25		28		32			17	
<i>Mastogloia smithii</i> Ehr				4		23																	13
<i>Melosira moniliformis</i> Agardh				66	52			20								49	49	72	36	59			
<i>Melosira nummuloides</i>																							
<i>Navicula peticolasii</i>				3									6										
<i>Navicula radiosa</i> Kutz										3		1				3							
<i>Nitzschia acicularis</i>				4				2							4		3						
<i>Nitzschia longissima</i>					2	3																6	
<i>Pseudo-nitzschia pungens</i> Cleve	305		204	5	43			26	11	29		19	12	31		25	36	29	49	26	237	11	
<i>Pinnularia acuminata</i>										4				13									
<i>Pinnularia</i> sp.						13	22																
<i>Pinnularia tabellaria</i>																							
<i>Planktoniella sol</i>	1		1		3				2			2	2		2		2					2	2
<i>Pleurosigma angulatum</i>				4				2				2			2							3	5
<i>Pleurosigma directum</i> Grunow	2	2	1		2	3		1						6			2					4	
<i>Pleurosigma elongatum</i>	2		1	1	1			3	3		4		1								3		3
<i>Pleurosigma</i> sp.2				4	4							3			1								
<i>Pseudo-Nitzschia cuspidata</i>				3	2							4											
<i>Rhizosolenia alata</i> Brightwell	5		2		3				2	1	3	6				6							3
<i>Rhizosolenia hebetata</i>			3		7				1	4	2	4	2			2							
<i>Rhizosolenia imbricata</i>	3		2		5			3	2		2			4		5		3	4			3	4
<i>Rhizosolenia setigera</i>	5	2	1		2			6		3			2			2					4	4	6
<i>Rhizosolenia striata</i>			2		5			2	2		4			6				6				3	

<i>Skeletonema costatum</i>	1764	11	1934		186	16			1082	64	639	13	273	36	648	33	216		438	56	513	71	613	23
<i>Stauroneis obtusa</i> Lagerst						4	4	3	4															
<i>Stauroneis pusilla</i> Cleve					5		17																	
<i>Thalassionema nitzschooides</i> Grunow									17	2		3	5				4							
<i>Thalassiothrix frauenfeldii</i>	29		21		9	7			13		17		5		24		24		7	17	15	14	36	5
<i>Triceratium favus</i> Ehr f quadrata						3			2	3	3		2		3	2			3		6			
<i>Triceratium</i> sp. Ehrenberg Grun			1	5	5			1			3	2	2	3	8						3			
Division Chlorophyta																								
<i>Mougeotia</i> sp.																								
<i>Cosmarium humile</i> Breb																	5							
<i>Rhizoclonium</i> sp.											138	357	146		201	197								
Division pyrrrophyta																								
<i>Peridinium cinctum</i> Ehrenberg									1												2			
Division: Cyanobacteria																								
<i>Oscillatoria tenuis</i> Roth		396				416								342				316						
TOTAL	2669	435	2555	154	485	476	355	78	1340	112	933	399	527	427	1059	266	423	439	877	260	960	252	1235	105
No of species	33	11	38	14	44	16	12	12	31	17	29	14	24	11	25	9	20	9	28	11	26	13	26	16

APPENDIX 1c Number of phytoplankton sampled at ST3 during high tide and low tide in 12 sampling months.

SPECIES	STATIONS																								
	ST3																								
	APRIL		MAY		JUN		JULY		AUG		SEPT		OCT		NOV		DEC		JAN		FEB		MAR		
	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	HT	LT	
Division: Bacillariophyta																									
<i>Amphiphora alata</i> Kut			5		9																				
<i>Amphora quadrata</i> Breb				3	6	4							5			7			5						
<i>Asterionellopsis glacialis</i>	10		12		13						7		21		39				11		5			6	
<i>Bacillaria paradoxa</i> Gmelin					2	2			3	3															
<i>Bacteriastrum comosum</i>	45		47																					18	
<i>Bacteriastrum delicatulum</i>	26		14																					23	
<i>Bacteriastrum varians</i> Lauder	45		18																	19					
<i>Bellerochea horologicalis</i>					31				52						17		59								
<i>Biddulphia longicruris</i>	1			2	3				1	2	1	1	1		8		2							3	
<i>Biddulphia mobiliensis</i>	3		2	4	2				2	4	3	4	4		6		3							31	5
<i>Campylodiscus daemilianus</i>				26	11									11					25		17				
<i>Chaetoceros constrictum</i> Gran	24								24										29		17			15	
<i>Chaetoceros constrictus</i>	20																		21					19	
<i>Chaetoceros curvisetus</i>	91		139																132	39	119	41	78		
<i>Chaetoceros debilis</i>			6						3											11				29	
<i>Chaetoceros decipiens</i>			12						15										16		16				
<i>Chaetoceros delicatulum</i>	6																			12					
<i>Chaetoceros distans</i>																			6			28			

<i>Chaetoceros laciniosum</i>	26		13															29				13		
<i>Chaetoceros Lauderii</i> Ralfs	32		15					12										17				27		
<i>Chaetoceros lorenzianus</i>	16		5					12										17	17	11		17		
<i>Chaetoceros neglectus</i>			9																					
<i>Chaetoceros socialis</i>	50		26																		15	21	25	
<i>Chaetoceros</i> sp.2			3																		6			
<i>Chaetoceros</i> sp.3																								
<i>Chaetoceros</i> sp.4																								
<i>Chaetoceros subtilis</i> Cleve			4																			33	27	
<i>Chaetoceros tenuissimus</i>			9																		7			
<i>Corethron criophilum</i>																								
<i>Coscinodiscus asteromphalus</i>	2		1		1	2				2		2	2		4	2	4						3	
<i>Coscinodiscus centralis</i>			2	2	3	2	6	2				1	3			3		2			5		3	
<i>Coscinodiscus concinnus</i>	5		7	2	3	5		5	4		4				5		6		4	4	3	3	5	
<i>Coscinodiscus gigas</i>					1	2									3		2							
<i>Coscinodiscus lineatus</i> Ehr		11	3		5	3	5					3	1			3		4	5	13				
<i>Coscinodiscus rothii</i> Grunow		3			2					3				1							2		3	
<i>Coscinodiscus</i> sp.	1	2			3					3		6			3				2					
<i>Coscinodiscus subtilis</i> Her.								6						4		4					2	3		
<i>Cyclotella meneghiana</i>					8					6		5												
<i>Cymbella tumida</i>			5		7	4		29		5				6	8						6			
<i>Diatoma elongatum</i>			3		3				5		2				5		2							
<i>Ditylum Brightwelli</i>	4		6		7				2		2		3	2					3			3	3	3
<i>Fragilaria</i> sp.		2		1	3	2			3															
<i>Fragillaria pinnata</i> var <i>trigona</i>				2	4					2					2									
<i>Frustulia vulgaris</i>					2				2		5													
<i>Guinardia flaccida</i>	2				1					3		2		4		2					2			

<i>Gyrosigma spencerii</i>					2															3				
<i>Gyrosigma scalproides</i>					4	2			4															
<i>Gyrosigma spencerii</i>					7								3		1									
<i>Lauderia borealis</i> Gran	36		15		21				53			32		25	63	27	37		13			23		
<i>Leptoclindrus danicus</i> Cleve	17		9		15	52									38		19		11					
<i>Mastogloia smithii</i> Ehr	12		5							3														
<i>Melosira moniliformis</i> Agardh																56								
<i>Melosira nummuloides</i>									732															
<i>Navicula peticolasii</i>	3				3	2						4	2	3		3	7				6	4		
<i>Navicula radiosa</i> Kutz									115															
<i>Nitzschia acicularis</i>					2							11		1										
<i>Nitzschia longissima</i>	1											2		1										
<i>Pseudo-nitzschia pungens</i> Cleve	295		196	6	98				23	13	21	9	31	13	29	13		4	26	43	37	26	136	21
<i>Pinnularia acuminata</i>					4				1624						7									
<i>Pinnularia</i> sp.		13			8																17			
<i>Pinnularia tabellaria</i>									1531				1									11		
<i>Planktoniella sol</i>			2		1				2	2	1			2	2		3				2	2		
<i>Pleurosigma angulatum</i>			1		8				4		3		3		1						3			
<i>Pleurosigma directum</i> Grunow	2		0		2				2	4	1													2
<i>Pleurosigma elongatum</i>	2		0	3	3				4		2		5			5						3	3	4
<i>Pleurosigma</i> sp.2		4			3																			
<i>Pseudo-Nitzschia cuspidata</i>			2		3																			
<i>Rhizosolenia alata</i> Brightwell	4		2		3				2		3										4	2	3	1
<i>Rhizosolenia hebetata</i>	5				5						2		6		4	4								
<i>Rhizosolenia imbricata</i>	5		1		2				3		2	2	4		3		3	4						3
<i>Rhizosolenia setigera</i>			3		5			2	4		3										3			2
<i>Rhizosolenia striata</i>					5				3		2		2		3		4							3

<i>Skletonema costatum</i>	2800		2913		201			12	1710	63	701	11	296	41	708	43	271		637	58	551	62	738	32
<i>Stauroneis obtusa</i> Lagerst					6			6																
<i>Stauroneis pusilla</i> Cleve		6																	6					
<i>Thalassionema nitzschoides</i> Grunow																					5			
<i>Thalassiothrix frauenfeldii</i>	14		19		12				11		11	5	27	7	34	7	34	11	9		8	9	17	11
<i>Triceratium favus</i> Ehr f quadrata	2		5		6					3	2		3						6				3	3
<i>Triceratium</i> sp. Ehrenberg Grun			1	2	2	2				2					2			3	2					
Division Chlorophyta																								
<i>Cosmarium humile</i> Breb							20																	
<i>Mougeotia</i> sp.	23				18																			
<i>Rhizoclonium</i> sp.				154							125		158			174		203						
Division Pyrrophyta																								
<i>Peridinium cinctum</i> Ehrenberg						1				2		3				2	2							3
Division: Cyanobacteria																								
<i>Oscillatoria tenuis</i> Roth		453												157										
TOTAL	3630	494	3540	207	579	85	4033	56	1969	113	912	52	627	249	929	251	515	320	1065	239	869	255	1257	113
No of species	34	8	38	12	50	14	7	6	27	14	24	12	24	11	26	9	20	10	24	11	24	16	23	18

Appendix 2 : The average values for all the physiochemical parameters for all the stations at the study site during high tide. Value with different superscript alphabet showed significant different ($p<0.01$) between months using Tukey HSD.

Parameters	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Nitrate (mg/L)	1.17± 0.11 ^a	0.98± 0.10 ^b	0.15± 0.15 ^c	0.45± 0.15 ^d	0.72± 0.20 ^e	0.21± 0.14 ^f	0.36± 0.20 ^g	0.21± 0.09 ^f	0.32± 0.16 ^h	0.40± 0.08 ⁱ	0.27± 0.13 ^j	0.73± 0.10 ^k
Phosphate (mg/L)	0.83± 0.23 ^a	0.79± 0.51 ^b	0.47± 0.16 ^c	0.82± 0.19 ^d	0.79± 0.49 ^b	1.50± 0.76 ^c	0.48± 0.19 ^f	0.49± 0.09 ^g	0.66± 0.31 ^h	0.98± 0.19 ⁱ	1.52± 0.45 ^j	1.97± 0.48 ^k
Silicate (mg/L)	2.89± 0.96 ^a	3.22± 0.71 ^b	1.49± 0.39 ^c	4.32± 0.95 ^d	3.49± 1.61 ^e	2.03± 0.89 ^f	2.51± 1.39 ^g	1.98± 0.63 ^h	0.93± 0.38 ⁱ	2.66± 0.91 ^j	2.16± 0.69 ^k	2.62± 0.67 ^l
Sulfate (mg/L)	54.50± 2.78 ^a	89.83± 27.36 ^b	69.50± 18.52 ^c	55.17± 16.33 ^d	43.50± 14.81 ^e	50.33± 21.83 ^f	57.67± 33.18 ^g	66.67± 21.13 ^h	52.50± 5.68 ⁱ	35.17± 15.14 ^j	52.33± 5.35 ^k	38.17± 4.80 ^l
Temperature (°C)	31.17± 0.76 ^a	31.16± 0.19 ^b	31.44± 0.26 ^c	30.90± 1.39 ^d	31.51± 0.31 ^e	30.17± 0.65 ^f	30.13± 1.05 ^g	28.87± 0.98 ^h	28.25± 0.37 ⁱ	29.44± 0.88 ^j	29.08± 0.67 ^k	30.94± 0.84 ^l
Conductivity (µs/cm)	41457.00± 760.18 ^a	44528.00± 138.48 ^b	44788.00± 338.86 ^c	43318.00± 1959.24 ^d	43510.00± 911.52 ^e	37929.00± 5728.49 ^f	37964.00± 3513.87 ^g	37586.00± 1913.75 ^h	43257.00± 925.78 ⁱ	45754.00± 1456.44 ^j	42650.00± 551.88 ^k	44023.00± 526.99 ^l
Total dissolved solid (mg/L)	26.57± 0.53 ^a	27.40± 0.07 ^b	29.17± 0.22 ^c	25.95± 1.33 ^d	25.38± 0.48 ^e	25.94± 0.04 ^f	24.59± 0.37 ^g	24.05± 0.22 ^h	26.48± 0.15 ⁱ	27.78± 0.57 ^j	24.92± 1.37 ^k	24.19± 0.71 ^l
Salinity (ppt)	25.85± 0.88 ^a	28.62± 0.10 ^b	28.77± 0.24 ^c	25.29± 1.29 ^d	24.63± 0.45 ^e	20.59± 0.44 ^f	21.33± 2.15 ^g	22.66± 1.03 ^h	25.97± 0.17 ⁱ	25.24± 3.24 ^j	24.52± 1.88 ^k	24.60± 1.47 ^l
Dissolved oxygen (mg/L)	1.84± 0.69 ^a	2.11± 0.76 ^b	5.37± 2.62 ^c	3.53± 2.56 ^d	2.55± 0.60 ^e	3.96± 1.58 ^f	4.04± 1.51 ^g	2.75± 0.75 ^h	4.26± 2.63 ⁱ	3.76± 1.40 ^j	3.43± 0.27 ^k	2.42± 0.75 ^l
pH	7.92± 0.11 ^a	7.86± 0.03 ^b	7.64± 0.33 ^c	7.47± 0.34 ^d	7.86± 0.01 ^e	7.46± 0.28 ^f	7.20± 0.30 ^g	7.82± 0.04 ^h	6.90± 0.27 ⁱ	7.27± 0.54 ^j	6.92± 0.13 ^k	6.89± 0.14 ^l

Appendix 3 The average values for all the physiochemical parameters for all the stations at the study site during low tide. Value with different superscript alphabet showed significant different ($p<0.01$) between month using Tukey HSD.

Parameters	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Nitrate (mg/L)	1.06± 0.13 ^a	0.49± 0.22 ^b	0.45± 0.26 ^c	0.22± 0.16 ^d	0.45± 0.10 ^e	0.48± 0.19 ^f	0.21± 0.19 ^g	0.59± 0.64 ^h	0.62± 0.58 ⁱ	0.13± 0.03 ^j	0.12± 0.03 ^k	0.42± 0.08 ^l
Phosphate (mg/L)	2.78± 0.77 ^a	1.74± 0.36 ^b	1.38± 0.68 ^c	0.54± 0.94 ^d	1.01± 0.31 ^e	0.84± 0.58 ^f	1.03± 0.32 ^g	1.12± 0.43 ^h	1.84± 0.62 ⁱ	0.67± 0.38 ^j	0.93± 0.16 ^k	0.96± 0.08 ^l
Silicate (mg/L)	25.84± 6.37 ^a	14.68± 3.04 ^b	14.08± 7.16 ^c	10.36± 4.99 ^d	10.59± 5.23 ^e	12.75± 5.92 ^f	13.02± 7.48 ^g	14.67± 7.39 ^h	23.14± 6.89 ⁱ	16.37± 3.48 ^j	14.71± 6.51 ^k	15.94± 0.53 ^l
Sulfate (mg/L)	303.33± 90.64 ^a	406.33± 309.52 ^b	158.67± 80.77 ^c	82.83± 12.22 ^d	55.5± 3.97 ^e	198.5± 231.75 ^f	89.5± 44.53 ^g	118.33± 21.00 ^h	66.00 ± 3.46 ⁱ	67.33± 27.54 ^j	128.5± 11.91 ^k	115.33± 36.43 ^l
Temperature (°C)	34.46± 0.59	34.04± 0.86	31.86± 1.45	31.69± 0.31	30.78± 0.07	29.98± 1.02	32.77± 0.68	31.06± 0.75	30.25± 0.81	26.27± 0.33	26.51± 0.46	30.11± 0.74
Conductivity (µs/cm)	22702.00± 3720.74	21971.67± 3011.79	21231.00± 4364.93	17396.33± 7302.89	14077.67± 5322.44	25246.67± 15591.74	16329.00± 8901.89	5589.67± 2103.72	20297.67± 14371.50	3028.00± 934.42	4483.67± 347.24	5740.00± 266.86
Total dissolved solid (mg/L)	14.75 ±2.43	26.43 ±7.25	18.09 ±10.13	9.97 ±4.25	8.17 ±9.09	14.97 ±3.09	9.28 ±4.94	3.25 ±1.20	12.05 ±8.45	1.92 ±0.59	2.27 ±0.29	2.90 ±0.51
Salinity (ppt)	13.59 ±2.47	13.12 ±2.08	12.87 ±3.22	8.89 ±2.99	7.16 ±2.91	14.06 ±9.01	8.33 ±4.65	2.67 ±1.03	8.01 ±5.89	1.53 ±0.49	2.34 ±0.17	2.46 ±0.18
Dissolved oxygen (mg/L)	1.99 ±1.62	4.51 ±1.93	2.83 ±2.00	8.71 ±2.07	5.38 ±3.25	5.41 ±1.57	6.77 ±1.53	5.17 ±2.29	6.25 ±1.45	5.59 ±0.64	6.18 ±0.29	6.68 ±0.32
pH	7.61 ±0.53	7.38 ±0.17	7.20 ±0.14	7.17 ±0.31	7.24 ±0.45	7.18 ±0.35	6.36 ±0.32	5.73 ±0.39	5.97 ±0.31	5.88 ±0.13	6.08 ±0.22	5.32 ±0.30

