AVAL déversoir ST MATHURIN	15/05/2023	30/05/2023	12/06/2023	26/06/2023	11/07/2023	24/07/2023	08/08/2023	21/08/2023		
	E230525458	E230541046	E230609156	E230630568	E230709395	E230722441	E230802334	E230814152		
Chlorophylle a (µg/l)	77,5									
Fluorescence Phycocyanine (µg/l)										
CYANOTOXINES PAR CHROMATOGRAPHIE										
Microcystines LR (µg/l)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystines YR (µg/l)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystines RR (µg/l)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystine LF (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystine LW (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystine LY (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystine LA (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystine LR desmethyl (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Microcystine RR desmethyl (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Anatoxine A (µg/L)		< 0,1 (non détcté)	< 0,1 (non détcté)	< 0,1 (non détcté)			< 0,1 (non détcté)	< 0,1 (non détcté)		
Saxitoxine (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Cylindrospermopsine (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
Nodularine (µg/L)		< 0,3	< 0,3	< 0,3			< 0,3	< 0,3		
CYANOTOXINES PAR ELISA										
Microcystines et Nodularines (µg/L)										
Anatoxine A (µg/L)										
Cylindrospermopsine (µg/L)										
Saxitoxine (µg/L)										
Autres micro algues par mL	70 760	28 720	22 600	61 280	600	1 120	2 560	1 120	0	0
Nbre total de cellules par mL	72 660	433 720	232 200	1 739 280	1 560	8 620	87 960	184 420	0	0
Répartition en %										
CHLOROPHYCEES	97,1	5,7	9,3	2,8	35,9	12,5	1,4	0,2	#DIV/0!	#DIV/0!
ZYGOPHYCEES	0,1	0,0	0,1	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
DIATOMOPHYCEES	0,2	0,5	0,3	0,7	2,6	0,5	1,5	0,4	#DIV/0!	#DIV/0!
CHRYSOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
DINOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
CRYPTOPHYCEES	0,0	0,4	0,1	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
XANTOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
EUGLENOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
CYANOBACTERIES	2,6	93,4	90,3	96,5	61,5	87,0	97,1	99,4	#DIV/0!	#DIV/0!
total en %	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	#DIV/0!	#DIV/0!
Nbre de cellules/mL										
CYANOBACTERIES										
Aphanocapsa sp.										
Aphanocapsa sp.en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Aphanocapsa sp.en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanothece sp.										
Aphanothece sp.en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Aphanothece sp.en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Coelomoron sp.			6 400							
Coelomoron sp. en biovolume µm3/ml	0	0	51 840	0	0	0	0	0	0	0
Coelomoron sp. en biovolume mm3/L	0,0000	0,0000	0,0518	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Coelosphaerium sp.										
Coelosphaerium sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Coelosphaerium sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanodictyon sp		12000	11000	630000						
Cyanodictyon sp en biovolume µm3/ml	0	24000	22000	1260000	0	0	0	0	0	0
Cyanodictyon sp en biovolume mm3/L	0,0000	0,0240	0,0220	1,2600	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanogranis sp			2400			2400	6400			
Cyanogranis sp en biovolume µm3/ml	0	0	2400	0	0	2400	6400	0	0	0
Cyanogranis sp en biovolume mm3/L	0,0000	0,0000	0,0024	0,0000	0,0000	0,0024	0,0064	0,0000	0,0000	0,0000
Cyanonephron sp.										
Cyanonephron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanonephron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Limnococcus sp			1800	480000	320					
Limnococcus sp en biovolume µm3/ml	*0*	*0*	*219 600*	*58 560 000*	*39 040*	*0*	*0*	*0*	*0*	*0*
Limnococcus sp en biovolumemm3/L	*0,0000*	*0,0000*	*0,2196*	*58,5600*	*0,0390*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Merismopedia glauca										
Merismopedia tenuissima										
Merismopedia sp.	1 900	64 000	120 000	510 000	640	5 100	79 000	170 000		
Somme des Merismopedia en Nombre cellules/ml	1 900	64 000	120 000	510 000	640	5 100	79 000	170 000	0	0
Somme des Merismopedia en biovolume µm3/ml	*24 700*	*832 000*	*1 560 000*	*6 630 000*	*8 320*	*66 300*	*1 027 000*	*2 210 000*	*0*	*0*
Somme des Merismopedia en biovolume mm3/L	***0,0247***	***0,8320***	***1,5600***	***6,6300***	***0,0083***	***0,0663***	***1,0270***	***2,2100***	***0,0000***	***0,0000***
Microcystis aeruginosa										
Microcystis botrys										
Microcystis flos aquae										
Microcystis viridis										
Microcystis wesenbergii										
Microcystis sp.										
Somme des Microcystis en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Microcystis en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Microcystis en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Radiocystis sp.										
Radiocystis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Radiocystis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhabdoderma sp.										
Rhabdoderma sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdoderma sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Snowella sp.										
Snowella sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Snowella sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechococcus sp.										
Synechococcus sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechococcus sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Woronichinia sp.										
Woronichinia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Woronichinia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Dolichospermum(Anabaena circinalis)										
Dolichospermum (Anabaena crassa)										
Dolichospermum(Anabaena flos aquae)										
Dolichospermum (Anabaena heterospora)										
Dolichospermum (Anabaena mendotae)										
Dolichospermum (Anabaena planctonica)										
Dolichospermum (Anabaena spiroides)										
Dolichospermum (Anabaena viguieri)										
Dolichospermum (Anabaena sp.)								5 600		
Somme Dolichospermum en Nombre cellules/ml	0	0	0	0	0	0	0	5 600	0	0
Somme Dolichospermum en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1 624 000*	*0*	*0*
Somme Dolichospermum en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***1,6240***	***0,0000***	***0,0000***
Anabaenopsis sp										
Anabaenopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

Anabaenopsis sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanizomenon aphanizomenoides										
Aphanizomenon flos aquae										
Aphanizomenon gracile										
Aphanizomenon issatschenkoi (Cuspidothrix)										
Aphanizomenon sp.										
Somme Aphanizomenon en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme Aphanizomenon en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme Aphanizomenon en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cuspidothrix sp										
Cuspidothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cuspidothrix sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermopsis sp.										
Cylindrospermopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermum sp.										
Cylindrospermum sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermum sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhaphidiopsis sp.										
Rhaphidiopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhaphidiopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Komvophoron sp.										
Komvophoron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Komvophoron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Geitlerinema sp										
Geitlerinema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Geitlerinema sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Limnothrix sp		8 600	68 000	58 000						
Limnothrix sp en biovolume µm3/ml	*0*	*266 600*	*2 108 000*	*1 798 000*	*0*	*0*	*0*	*0*	*0*	*0*
Limnothrix sp en biovolume mm3/L	***0,0000***	***0,2666***	***2,1080***	***1,7980***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Oscillatoria limosa										
Oscillatoria princeps										
Oscillatoria sp.										
Somme des Oscillatoria en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Oscillatoria en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Oscillatoria en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktolyngbia sp.										
Planktolyngbia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Planktolyngbia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktothrix agardhii										
Planktothrix sp.										
Planktothrix isothrix										
Somme des Planktothrix en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Planktothrix en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Planktothrix en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Pseudanabaena catenata										
Pseudanabaena limnetica										
Pseudanabaena mucicola										
Pseudanabaena sp.		400						7 700		
Somme des Pseudanabaena en Nombre cellules/ml	0	400	0	0	0	0	0	7 700	0	0
Somme des Pseudanabaena en biovolume µm3/ml	*0*	*17 200*	*0*	*0*	*0*	*0*	*0*	*331 100*	*0*	*0*
Somme des Pseudanabaena en biovolume mm3/L	***0,0000***	***0,0172***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,3311***	***0,0000***	***0,0000***
Romeria sp.										
Romeria sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Romeria sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres										
Cyanobactéries toxinogènes en nombre de cellules /mL	1 900	73 000	188 000	568 000	640	5 100	79 000	183 300	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	0	12 000	21 600	1 110 000	320	2 400	6 400	0	0	0
Cyanobactéries totales en nombre de cellules /ml	1 900	85 000	209 600	1 678 000	960	7 500	85 400	183 300	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	24 700	1 115 800	3 668 000	8 428 000	8 320	66 300	1 027 000	4 165 100	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	**0,02470**	**1,11580**	**3,66800**	**8,42800**	**0,00832**	**0,06630**	**1,02700**	**4,16510**	**0,00000**	**0,00000**
Cyanobactéries biovolume total en µm3//ml	0	24 000	295 840	59 820 000	39 040	2 400	6 400	0	0	0
Cyanobactéries biovolume total en mm^3/L	0,00000	0,02400	0,29584	59,82000	0,03904	0,00240	0,00640	0,00000	0,00000	0,00000
Cyanobactéries totales biovolume total en µm3//ml	24 700,0	1 139 800,0	3 963 840,0	68 248 000,0	47 360,0	68 700,0	1 033 400,0	4 165 100,0	0,0	0,0
Cyanobactéries totales biovolume total en mm^3/L	0,02470	1,13980	3,96384	68,24800	0,04736	0,06870	1,03340	4,16510	0,00000	0,00000
Arthrospira sp										
Arthrospira sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Arthrospira sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Calothrix sp										
Calothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Calothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Chrysosporum sp										
Chrysosporum sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Chrysosporum sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Cyanobium sp										
Cyanobium sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanobium sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanocatena sp										
Cyanocatena sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanocatena sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Eucapsis sp										
Eucapsis sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Eucapsis sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Fischerella sp										
Fischerella sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Fischerella sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Glaucospira sp										
Glaucospira spen biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Glaucospira spen biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeocapsa sp										
Gloeocapsa sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeocapsa sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeotrichia sp										
Gloeotrichia sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeotrichia sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gomphosphaeria sp										
Gomphosphaeria sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gomphosphaeria sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Hapalosiphon sp										
Hapalosiphon sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Hapalosiphon sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Homoeothrix sp (Tapinothrix)										
Homoeothrix sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Homoeothrix sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Jaaginema sp		320000								
Jaaginema sp en biovolume µm3/ml	0	6016000	0	0	0	0	0	0	0	0
Jaaginema sp en biovolume mm3/L	0,0000	6,0160	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Lemmermaniella sp.										
Lemmermaniella sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0

Lemmermaniella sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Leptolyngbya sp.										
Leptolyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Leptolyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Lyngbya sp.										
Lyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Lyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Microcoleus sp										
Microcoleus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Microcoleus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nodularia sp										
Nodularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nodularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nostoc sp										
Nostoc sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nostoc sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Pannus sp										
Pannus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Pannus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Phormidium sp.										
Phormidium sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Phormidium sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rhabdogloea sp										
Rhabdogloea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdogloea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rivularia sp										
Rivularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rivularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Schizothrix sp										
Schizothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Schizothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Scytonema sp										
Scytonema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Scytonema sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Sphaerospermopsis sp										
Sphaerospermopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Sphaerospermopsis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Spirulina sp.										
Spirulina sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Spirulina sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Symplocea sp										
Symplocea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Symplocea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechosystis sp										
Synechosystis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechosystis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Tapinothrix sp										
Tapinothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Tapinothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Trichodesmium sp										
Trichodesmium sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Trichodesmium sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Umezakia sp										
Umezakia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Umezakia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres cyanobactéries picoplanctoniques										
Cyanobactéries toxinogènes en nombre de cellules /mL	1 900	73 000	188 000	568 000	640	5 100	79 000	183 300	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	0	332 000	21 600	1 110 000	320	2 400	6 400	0	0	0
Cyanobactéries totales en nombre de cellules /ml	1 900	405 000	209 600	1 678 000	960	7 500	85 400	183 300	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	24 700	1 115 800	3 668 000	8 428 000	8 320	66 300	1 027 000	4 165 100	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	0,02470	1,11580	3,66800	8,42800	0,00832	0,06630	1,0270	4,1651	0,0000	0,0000
Cyanobactéries biovolume total en µm3//ml	0	6 040 000	295 840	59 820 000	39 040	2 400	6 400	0	0	0
Cyanobactéries biovolume total en mm^3/L	0,0000	6,0400	0,2958	59,8200	0,0390	0,0024	0,0064	0,0000	0,0000	0,0000
Cyanobactéries totales biovolume total en µm3//ml	24 700	7 155 800	3 963 840	68 248 000	47 360	68 700	1 033 400	4 165 100	0	0
Cyanobactéries totales biovolume total en mm^3/L	0,0247	7,1558	3,9638	68,2480	0,0474	0,0687	1,0334	4,1651	0,0000	0,0000
CHLOROPHYCEES										
Actinastrum sp.										
Acutodesmus sp										
Ankistrodesmus falcatus										
Ankyra sp.										
Botryococcus braunii										
Chlamydomonas sp.										
Chlorella sp.										
Chlorococcum sp.										
Closteriopsis sp.										
Coelastrum sp.		320	960							
Coronastrum sp										
Crucigenia sp.	880	320	320							
Crucigeniella sp.										
Desmodesmus sp										
Diacanthos sp										
Dichotomococcus sp										
Dictyosphaerium sp.			960							
Didymogenes sp										
Elakatothrix sp										
Eudorina sp.										
Franceia sp.										
Golenkinia sp										
Golenkiniopsis sp										
Gonium sp.										
Haematococcus sp										
Kirchneriella sp.	80	440	80							
Lagerheimia sp.										
Micractinium sp.										
Micractinium bornhemiense										
Microspora sp										
Monoraphidium sp.	760	6400	1600	11000				40		
Nephrocytium sp										
Oedogonium sp.										
Oocystis sp.										
Pandorina sp.										
Paulschulzia sp										
Pediastrum sp.			320	560		320				
Planctonema sp										
Polyedriopsis sp										
Pteromonas sp										
Quadrigula sp.							80			
Radiococcus sp.										
Rhizoclonium sp										

Scenedesmus sp.	800	16 000	11 000	35 000	160	160	320			
Schroederia sp.										
Selenastrum sp.										
Sphaerellopsis sp										
Sphaerocystis sp.										
Tetraedron sp.		80		120		120	200			
Tetrastrum sp.										
Treubaria sp.										
Trochiscia sp										
Volvox sp.										
Ulothrix sp										
Autres	68 000	1 000	6 400	1 400	400	480	600	400		
ZYGOPHYCEES										
Closterium sp.		40								
Cosmarium sp.										
Euastrum sp										
Mougeotia sp										
Spirogyra sp.										
Spondylosium sp.										
Staurastrum sp.		80	80	160						
Staurodesmus sp.	80		120							
Zygnema sp										
Autres										
DIATOMEES										
Aulacoseira granulata										
Aulacoseira sp.		80	200			40	200	40		
Cyclotella sp.										
Gyrosigma sp.										
Melosira varians										
Pseudostephanodiscus sp.										
Stephanodiscus sp.							880	560		
Centriques autres										
Achnanthes sp.										
Amphora sp.										
Asterionella sp.		560								
Attheya sp										
Bacillaria sp.							200			
Cocconeis sp.										
Craticula sp.										
Cymbella sp.										
Diatoma sp.										
Eunotia sp.										
Fragilaria sp.	40	1 600	160	13 000	40			80		
Gomphoneis sp.										
Gomphonema sp.										
Gyrosygma sp										
Meridion circulare										
Navicula sp.	120	120	200							
Nitzschia sp.										
Pinnularia sp.										
Pleurosigma sp.			80							
Urosolenia sp										
Surirella sp.										
Tabellaria sp.										
Pennées autres							80			
CHRYSOPHYCEES										
Dinobryon sp.										
Kephyrion sp.										
Mallomonas sp.										
Synura sp.										
Uroglena sp.										
Autres										
XANTHOPHYCEES										
Centritractus sp										
Goniochloris sp.										
Ophiocytium sp										
Pseudostaurastrum sp.										
Tetraedriella sp										
Tribonema sp.										
Autres										
DINOPHYCEES										
Ceratium sp.										
Gymnodinium sp.										
Peridinium sp.		80								
Autres										
CRYPTOPHYCEES										
Cryptomonas sp.		1600	120	40						
Autres										
EUGLENOPHYCEES										
Euglena sp.										
Lepocinclis sp										
Phacus sp.										
Strombomonas sp.										
Trachelomonas sp.										
Autres										

Validation:	S.PIRIO	S.PIRIO	S.PIRIO	S.PIRIO	S.PIRIO	M.GIBIER	M.GIBIER	M,MAUGUEN		
Date:	16/05/2023	31/05/2023	13/06/2023	27/06/2023	12/07/2023	24/07/2023	08/08/2023	22/08/2023		

Résultat de l'observation du prélèvement de l' efflorescence:										
Genre dominant:										

ST MATHURIN	15/05/2023	30/05/2023	12/06/2023	26/06/2023	11/07/2023	24/07/2023	08/08/2023	21/08/2023		
	E230525457	E230541045	E230609155	E230630567	E230709394	E230722440	E230802333	E230814151		
Chlorophylle a (µg/l)	85,7									
Fluorescence Phycocyanine (µg/l)										
CYANOTOXINES PAR CHROMATOGRAPHIE										
Microcystines LR (µg/l)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystines YR (µg/l)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystines RR (µg/l)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystine LF (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystine LW (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystine LY (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystine LA (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystine LR desmethyl (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Microcystine RR desmethyl (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Anatoxine A (µg/L)			< 0,1 (non détcté)	< 0,1 (non détcté)	< 0,1 (non détcté)		< 0,1 (non détcté)	< 0,1 (non détcté)		
Saxitoxine (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Cylindrospermopsine (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
Nodularine (µg/L)			< 0,3	< 0,3	< 0,3		< 0,3	< 0,3		
CYANOTOXINES PAR ELISA										
Microcystines et Nodularines (µg/L)										
Anatoxine A (µg/L)										
Cylindrospermopsine (µg/L)										
Saxitoxine (µg/L)										
Autres micro algues par mL	122 260	29 600	33 260	42 320	26 600	920	2 720	1 660	0	0
Nbre total de cellules par mL	124 020	363 540	648 660	2 296 320	2 391 080	28 780	379 400	152 560	0	0
Répartition en %										
CHLOROPHYCEES	98,2	7,7	4,6	1,3	0,9	2,8	0,2	0,1	#DIV/0!	#DIV/0!
ZYGOPHYCEES	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,1	#DIV/0!	#DIV/0!
DIATOMOPHYCEES	0,1	0,4	0,5	0,5	0,3	0,4	0,5	0,9	#DIV/0!	#DIV/0!
CHRYSOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
DINOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
CRYPTOPHYCEES	0,2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
XANTOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
EUGLENOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
CYANOBACTERIES	1,4	91,9	94,9	98,2	98,9	96,8	99,3	98,9	#DIV/0!	#DIV/0!
total en %	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	#DIV/0!	#DIV/0!
Nbre de cellules/mL										
CYANOBACTERIES										
Aphanocapsa sp.				4 000	18 000	3 200				
Aphanocapsa sp.en biovolume µm3/ml	*0*	*0*	*0*	*8 000*	*36 000*	*6 400*	*0*	*0*	*0*	*0*
Aphanocapsa sp.en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0080***	***0,0360***	***0,0064***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanothece sp.								1 200		
Aphanothece sp.en biovolume µm3/ml	0	0	0	0	0	0	0	12 000	0	0
Aphanothece sp.en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0120*	*0,0000*	*0,0000*
Coelomoron sp.		640	2 600				8 200			
Coelomoron sp. en biovolume µm3/ml	0	5 184	21 060	0	0	0	66 420	0	0	0
Coelomoron sp. en biovolume mm3/L	0,0000	0,0052	0,0211	0,0000	0,0000	0,0000	0,0664	0,0000	0,0000	0,0000
Coelosphaerium sp.										
Coelosphaerium sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Coelosphaerium sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanodictyon sp		28000	10000	570000	300000	17000	6000			
Cyanodictyon sp en biovolume µm3/ml	0	56000	20000	1140000	600000	34000	12000	0	0	0
Cyanodictyon sp en biovolume mm3/L	0,0000	0,0560	0,0200	1,1400	0,6000	0,0340	0,0120	0,0000	0,0000	0,0000
Cyanogranis sp			800			5600	2400			
Cyanogranis sp en biovolume µm3/ml	0	0	800	0	0	5600	2400	0	0	0
Cyanogranis sp en biovolume mm3/L	0,0000	0,0000	0,0008	0,0000	0,0000	0,0056	0,0024	0,0000	0,0000	0,0000
Cyanonephron sp.										
Cyanonephron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanonephron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Limnococcus sp			2000	640000	96000	160	80			
Limnococcus sp en biovolume µm3/ml	*0*	*0*	*244 000*	*78 080 000*	*11 712 000*	*19 520*	*9 760*	*0*	*0*	*0*
Limnococcus sp en biovolumemm3/L	*0,0000*	*0,0000*	*0,2440*	*78,0800*	*11,7120*	*0,0195*	*0,0098*	*0,0000*	*0,0000*	*0,0000*
Merismopedia glauca										
Merismopedia tenuissima										
Merismopedia sp.	1 600	60 000	440 000	900 000	1 800 000	1 300	360 000	145 000		
Somme des Merismopedia en Nombre cellules/ml	1 600	60 000	440 000	900 000	1 800 000	1 300	360 000	145 000	0	0
Somme des Merismopedia en biovolume µm3/ml	*20 800*	*780 000*	*5 720 000*	*11 700 000*	*23 400 000*	*16 900*	*4 680 000*	*1 885 000*	*0*	*0*
Somme des Merismopedia en biovolume mm3/L	***0,0208***	***0,7800***	***5,7200***	***11,7000***	***23,4000***	***0,0169***	***4,6800***	***1,8850***	***0,0000***	***0,0000***
Microcystis aeruginosa										
Microcystis botrys										
Microcystis flos aquae										
Microcystis viridis										
Microcystis wesenbergii										
Microcystis sp.										
Somme des Microcystis en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Microcystis en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Microcystis en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Radiocystis sp.										
Radiocystis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Radiocystis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhabdoderma sp.										
Rhabdoderma sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdoderma sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Snowella sp.										
Snowella sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Snowella sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechococcus sp.										
Synechococcus sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechococcus sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Woronichinia sp.										
Woronichinia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Woronichinia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Dolichospermum(Anabaena circinalis)										
Dolichospermum (Anabaena crassa)										
Dolichospermum(Anabaena flos aquae)										
Dolichospermum (Anabaena heterospora)										
Dolichospermum (Anabaena mendotae)										
Dolichospermum (Anabaena planctonica)										
Dolichospermum (Anabaena spiroides)										
Dolichospermum (Anabaena viguieri)										
Dolichospermum (Anabaena sp.)					480					
Somme Dolichospermum en Nombre cellules/ml	0	0	0	0	480	0	0	0	0	0
Somme Dolichospermum en biovolume µm3/ml	*0*	*0*	*0*	*0*	*139 200*	*0*	*0*	*0*	*0*	*0*
Somme Dolichospermum en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,1392***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Anabaenopsis sp										
Anabaenopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*

Anabaenopsis sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanizomenon aphanizomenoides										
Aphanizomenon flos aquae										
Aphanizomenon gracile										
Aphanizomenon issatschenkoi (Cuspidothrix)										
Aphanizomenon sp.										
Somme Aphanizomenon en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme Aphanizomenon en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme Aphanizomenon en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cuspidothrix sp										
Cuspidothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cuspidothrix sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermopsis sp.										
Cylindrospermopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermum sp.										
Cylindrospermum sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermum sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhaphidiopsis sp.										
Rhaphidiopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhaphidiopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Komvophoron sp.										
Komvophoron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Komvophoron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Geitlerinema sp										
Geitlerinema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Geitlerinema sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Limnothrix sp		5 300	160 000	140 000	150 000	600				
Limnothrix sp en biovolume µm3/ml	*0*	*164 300*	*4 960 000*	*4 340 000*	*4 650 000*	*18 600*	*0*	*0*	*0*	*0*
Limnothrix sp en biovolume mm3/L	***0,0000***	***0,1643***	***4,9600***	***4,3400***	***4,6500***	***0,0186***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Oscillatoria limosa										
Oscillatoria princeps										
Oscillatoria sp.										
Somme des Oscillatoria en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Oscillatoria en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Oscillatoria en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktolyngbia sp.										
Planktolyngbia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Planktolyngbia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktothrix agardhii										
Planktothrix sp.										
Planktothrix isothrix										
Somme des Planktothrix en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Planktothrix en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Planktothrix en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Pseudanabaena catenata										
Pseudanabaena limnetica										
Pseudanabaena mucicola										
Pseudanabaena sp.	160							4 700		
Somme des Pseudanabaena en Nombre cellules/ml	160	0	0	0	0	0	0	4 700	0	0
Somme des Pseudanabaena en biovolume µm3/ml	*6 880*	*0*	*0*	*0*	*0*	*0*	*0*	*202 100*	*0*	*0*
Somme des Pseudanabaena en biovolume mm3/L	***0,0069***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,2021***	***0,0000***	***0,0000***
Romeria sp.										
Romeria sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Romeria sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres										
Cyanobactéries toxinogènes en nombre de cellules /mL	1 760	65 300	600 000	1 044 000	1 968 480	5 100	360 000	149 700	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	0	28 640	15 400	1 210 000	396 000	22 760	16 680	1 200	0	0
Cyanobactéries totales en nombre de cellules /ml	1 760	93 940	615 400	2 254 000	2 364 480	27 860	376 680	150 900	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	27 680	944 300	10 680 000	16 048 000	28 225 200	41 900	4 680 000	2 087 100	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	**0,02768**	**0,94430**	**10,68000**	**16,04800**	**28,22520**	**0,04190**	**4,68000**	**2,08710**	**0,00000**	**0,00000**
Cyanobactéries biovolume total en µm3//ml	0	61 184	285 860	79 220 000	12 312 000	59 120	90 580	12 000	0	0
Cyanobactéries biovolume total en mm^3/L	0,00000	0,06118	0,28586	79,22000	12,31200	0,05912	0,09058	0,01200	0,00000	0,00000
Cyanobactéries totales biovolume total en µm3//ml	27 680,0	1 005 484,0	10 965 860,0	95 268 000,0	40 537 200,0	101 020,0	4 770 580,0	2 099 100,0	0,0	0,0
Cyanobactéries totales biovolume total en mm^3/L	0,02768	1,00548	10,96586	95,26800	40,53720	0,10102	4,77058	2,09910	0,00000	0,00000
Arthrospira sp										
Arthrospira sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Arthrospira sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Calothrix sp										
Calothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Calothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Chrysosporum sp										
Chrysosporum sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Chrysosporum sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Cyanobium sp										
Cyanobium sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanobium sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanocatena sp										
Cyanocatena sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanocatena sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Eucapsis sp										
Eucapsis sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Eucapsis sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Fischerella sp										
Fischerella sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Fischerella sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Glaucospira sp										
Glaucospira spen biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Glaucospira spen biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeocapsa sp										
Gloeocapsa sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeocapsa sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeotrichia sp										
Gloeotrichia sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeotrichia sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gomphosphaeria sp										
Gomphosphaeria sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gomphosphaeria sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Hapalosiphon sp										
Hapalosiphon sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Hapalosiphon sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Homoeothrix sp (Tapinothrix)										
Homoeothrix sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Homoeothrix sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Jaaginema sp		240000								
Jaaginema sp en biovolume µm3/ml	0	4512000	0	0	0	0	0	0	0	0
Jaaginema sp en biovolume mm3/L	0,0000	4,5120	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Lemmermaniella sp.										
Lemmermaniella sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0

Lemmermaniella sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Leptolyngbya sp.										
Leptolyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Leptolyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Lyngbya sp.										
Lyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Lyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Microcoleus sp										
Microcoleus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Microcoleus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nodularia sp										
Nodularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nodularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nostoc sp										
Nostoc sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nostoc sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Pannus sp										
Pannus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Pannus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Phormidium sp.										
Phormidium sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Phormidium sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rhabdogloea sp										
Rhabdogloea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdogloea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rivularia sp										
Rivularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rivularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Schizothrix sp										
Schizothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Schizothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Scytonema sp										
Scytonema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Scytonema sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Sphaerospermopsis sp										
Sphaerospermopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Sphaerospermopsis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Spirulina sp.										
Spirulina sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Spirulina sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Symplocea sp										
Symplocea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Symplocea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechosystis sp										
Synechosystis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechosystis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Tapinothrix sp										
Tapinothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Tapinothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Trichodesmium sp										
Trichodesmium sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Trichodesmium sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Umezakia sp										
Umezakia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Umezakia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres cyanobactéries picoplanctoniques										
Cyanobactéries toxinogènes en nombre de cellules /mL	1 760	65 300	600 000	1 044 000	1 968 480	5 100	360 000	149 700	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	0	268 640	15 400	1 210 000	396 000	22 760	16 680	1 200	0	0
Cyanobactéries totales en nombre de cellules /ml	1 760	333 940	615 400	2 254 000	2 364 480	27 860	376 680	150 900	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	27 680	944 300	10 680 000	16 048 000	28 225 200	41 900	4 680 000	2 087 100	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	0,02768	0,94430	10,68000	16,04800	28,22520	0,04190	4,6800	2,0871	0,0000	0,0000
Cyanobactéries biovolume total en µm3//ml	0	4 573 184	285 860	79 220 000	12 312 000	59 120	90 580	12 000	0	0
Cyanobactéries biovolume total en mm^3/L	0,0000	4,5732	0,2859	79,2200	12,3120	0,0591	0,0906	0,0120	0,0000	0,0000
Cyanobactéries totales biovolume total en µm3//ml	27 680	5 517 484	10 965 860	95 268 000	40 537 200	101 020	4 770 580	2 099 100	0	0
Cyanobactéries totales biovolume total en mm^3/L	0,0277	5,5175	10,9659	95,2680	40,5372	0,1010	4,7706	2,0991	0,0000	0,0000
CHLOROPHYCEES										
Actinastrum sp.										
Acutodesmus sp										
Ankistrodesmus falcatus										
Ankyra sp.										
Botryococcus braunii										
Chlamydomonas sp.										
Chlorella sp.										
Chlorococcum sp.										
Closteriopsis sp.										
Coelastrum sp.			320	320						
Coronastrum sp										
Crucigenia sp.	320	800	160					40		
Crucigeniella sp.										
Desmodesmus sp										
Diacanthos sp										
Dichotomococcus sp										
Dictyosphaerium sp.		560	1300							
Didymogenes sp										
Elakatothrix sp										
Eudorina sp.										
Franceia sp.										
Golenkinia sp										
Golenkiniopsis sp										
Gonium sp.										
Haematococcus sp										
Kirchneriella sp.	40		80							
Lagerheimia sp.										
Micractinium sp.										
Micractinium bornhemiense										
Microspora sp										
Monoraphidium sp.	1100	4800	6000	9600	6000		160			
Nephrocytium sp										
Oedogonium sp.										
Oocystis sp.										
Pandorina sp.										
Paulschulzia sp										
Pediastrum sp.			960							
Planctonema sp										
Polyedriopsis sp										
Pteromonas sp										
Quadrigula sp.										
Radiococcus sp.										
Rhizoclonium sp										

Scenedesmus sp.	320	21 000	13 000	19 000	14 000	320	160	160		
Schroederia sp.										
Selenastrum sp.										
Sphaerellopsis sp										
Sphaerocystis sp.										
Tetraedron sp.	40	40	80	40						
Tetrastrum sp.										
Treubaria sp.										
Trochiscia sp										
Volvox sp.										
Ulothrix sp										
Autres	120 000	800	8 000	1 200	600	480	600			
ZYGOPHYCEES										
Closterium sp.										
Cosmarium sp.								160		
Euastrum sp										
Mougeotia sp										
Spirogyra sp.										
Spondylosium sp.										
Staurastrum sp.			80							
Staurodesmus sp.	80	80	80							
Zygnema sp										
Autres										
DIATOMEES										
Aulacoseira granulata										
Aulacoseira sp.								80		
Cyclotella sp.										
Gyrosigma sp.										
Melosira varians										
Pseudostephanodiscus sp.										
Stephanodiscus sp.							1400	1100		
Centriques autres						40	400			
Achnanthes sp.										
Amphora sp.										
Asterionella sp.		320								
Attheya sp										
Bacillaria sp.										
Cocconeis sp.										
Craticula sp.										
Cymbella sp.										
Diatoma sp.										
Eunotia sp.										
Fragilaria sp.	80	1 000	2 800	12 000	6 000	80				
Gomphoneis sp.										
Gomphonema sp.										
Gyrosygma sp										
Meridion circulare										
Navicula sp.		40	80	80				120		
Nitzschia sp.										
Pinnularia sp.										
Pleurosigma sp.			40							
Urosolenia sp										
Surirella sp.										
Tabellaria sp.										
Pennées autres										
CHRYSOPHYCEES										
Dinobryon sp.										
Kephyrion sp.										
Mallomonas sp.										
Synura sp.										
Uroglena sp.										
Autres										
XANTHOPHYCEES										
Centritractus sp										
Goniochloris sp.										
Ophiocytium sp										
Pseudostaurastrum sp.										
Tetraedriella sp										
Tribonema sp.										
Autres										
DINOPHYCEES										
Ceratium sp.										
Gymnodinium sp.										
Peridinium sp.	40									
Autres										
CRYPTOPHYCEES										
Cryptomonas sp.	240	160	280							
Autres										
EUGLENOPHYCEES										
Euglena sp.										
Lepocinclis sp										
Phacus sp.				40						
Strombomonas sp.										
Trachelomonas sp.				40						
Autres										

Validation:	S.PIRIO	S.PIRIO	S.PIRIO	S.PIRIO	S.PIRIO	M.GIBIER	M.GIBIER	M,MAUGUEN		
Date:	16/05/2023	31/05/2023	13/06/2023	27/06/2023	12/07/2023	25/07/2023	08/08/2023	22/08/2023		

Résultat de l'observation du prélèvement de l' efflorescence:										
Genre dominant:										

Base nautique	15/05/2023	30/05/2023	12/06/2023	26/06/2023	11/07/2023	24/07/2023	08/08/2023	21-août		
	E230525459	E230541047	E230609157	E230630569	E230709393	E230722439	E230802332	**E2308114150**		
Chlorophylle a (µg/l)	13,9									
Fluorescence Phycocyanine (µg/l)										
CYANOTOXINES PAR CHROMATOGRAPHIE										
Microcystines LR (µg/l)										
Microcystines YR (µg/l)										
Microcystines RR (µg/l)										
Microcystine LF (µg/L)										
Microcystine LW (µg/L)										
Microcystine LY (µg/L)										
Microcystine LA (µg/L)										
Microcystine LR desmethyl (µg/L)										
Microcystine RR desmethyl (µg/L)										
Anatoxine A (µg/L)										
Saxitoxine (µg/L)										
Cylindrospermopsine (µg/L)										
Nodularine (µg/L)										
CYANOTOXINES PAR ELISA										
Microcystines et Nodularines (µg/L)										
Anatoxine A (µg/L)										
Cylindrospermopsine (µg/L)										
Saxitoxine (µg/L)										
Autres micro algues par mL	6 720	4 850	164 140	2 800	1 880	920	2 440	96	0	0
Nbre total de cellules par mL	36 520	42 250	188 560	72 200	12 280	12 240	14 440	216	0	0
Répartition en %										
CHLOROPHYCEES	18,2	9,3	85,8	3,4	11,4	6,2	11,9	18,5	#DIV/0!	#DIV/0!
ZYGOPHYCEES	0,0	0,4	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
DIATOMOPHYCEES	0,2	1,7	0,1	0,4	3,9	1,3	5,0	22,2	#DIV/0!	#DIV/0!
CHRYSOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
DINOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	3,7	#DIV/0!	#DIV/0!
CRYPTOPHYCEES	0,0	0,1	1,1	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
XANTOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
EUGLENOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!
CYANOBACTERIES	81,6	88,5	13,0	96,1	84,7	92,5	83,1	55,6	#DIV/0!	#DIV/0!
total en %	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	#DIV/0!	#DIV/0!
Nbre de cellules/mL										
CYANOBACTERIES										
Aphanocapsa sp.		4 000								
Aphanocapsa sp.en biovolume µm3/ml	*0*	*8 000*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Aphanocapsa sp.en biovolume mm3/L	***0,0000***	***0,0080***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanothece sp.	800					7 200	7 200			
Aphanothece sp.en biovolume µm3/ml	8 000	0	0	0	0	72 000	72 000	0	0	0
Aphanothece sp.en biovolume mm3/L	*0,0080*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0720*	*0,0720*	*0,0000*	*0,0000*	*0,0000*
Coelomoron sp.										
Coelomoron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Coelomoron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Coelosphaerium sp.										
Coelosphaerium sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Coelosphaerium sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanodictyon sp		2400		24000	7200	3600				
Cyanodictyon sp en biovolume µm3/ml	0	4800	0	48000	14400	7200	0	0	0	0
Cyanodictyon sp en biovolume mm3/L	0,0000	0,0048	0,0000	0,0480	0,0144	0,0072	0,0000	0,0000	0,0000	0,0000
Cyanogranis sp							2000			
Cyanogranis sp en biovolume µm3/ml	0	0	0	0	0	0	2000	0	0	0
Cyanogranis sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0020	0,0000	0,0000	0,0000
Cyanonephron sp.										
Cyanonephron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanonephron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Limnococcus sp			720	1600						
Limnococcus sp en biovolume µm3/ml	*0*	*0*	*87 840*	*195 200*	*0*	*0*	*0*	*0*	*0*	*0*
Limnococcus sp en biovolumemm3/L	*0,0000*	*0,0000*	*0,0878*	*0,1952*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Merismopedia glauca										
Merismopedia tenuissima										
Merismopedia sp.			14 000	36 000	3 200		2 200			
Somme des Merismopedia en Nombre cellules/ml	0	0	14 000	36 000	3 200	0	2 200	0	0	0
Somme des Merismopedia en biovolume µm3/ml	*0*	*0*	*182 000*	*468 000*	*41 600*	*0*	*28 600*	*0*	*0*	*0*
Somme des Merismopedia en biovolume mm3/L	***0,0000***	***0,0000***	***0,1820***	***0,4680***	***0,0416***	***0,0000***	***0,0286***	***0,0000***	***0,0000***	***0,0000***
Microcystis aeruginosa										
Microcystis botrys										
Microcystis flos aquae										
Microcystis viridis										
Microcystis wesenbergii										
Microcystis sp.										
Somme des Microcystis en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Microcystis en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Microcystis en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Radiocystis sp.										
Radiocystis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Radiocystis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhabdoderma sp.										
Rhabdoderma sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdoderma sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Snowella sp.										
Snowella sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Snowella sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechococcus sp.										
Synechococcus sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechococcus sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Woronichinia sp.										
Woronichinia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Woronichinia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Dolichospermum(Anabaena circinalis)										
Dolichospermum (Anabaena crassa)										
Dolichospermum(Anabaena flos aquae)										
Dolichospermum (Anabaena heterospora)										
Dolichospermum (Anabaena mendotae)										
Dolichospermum (Anabaena planctonica)										

Dolichospermum (Anabaena spiroides)										
Dolichospermum (Anabaena viguieri)										
Dolichospermum (Anabaena sp.)										
Somme Dolichospermum en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme Dolichospermum en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme Dolichospermum en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Anabaenopsis sp										
Anabaenopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Anabaenopsis sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanizomenon aphanizomenoides										
Aphanizomenon flos aquae										
Aphanizomenon gracile										
Aphanizomenon issatschenkoi (Cuspidothrix)										
Aphanizomenon sp.										
Somme Aphanizomenon en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme Aphanizomenon en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme Aphanizomenon en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cuspidothrix sp										
Cuspidothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cuspidothrix sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermopsis sp.										
Cylindrospermopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermum sp.										
Cylindrospermum sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermum sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhaphidiopsis sp.										
Rhaphidiopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhaphidiopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Komvophoron sp.										
Komvophoron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Komvophoron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Geitlerinema sp										
Geitlerinema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Geitlerinema sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Limnothrix sp	29 000	31 000	5 700	7 800		520				
Limnothrix sp en biovolume µm3/ml	*899 000*	*961 000*	*176 700*	*241 800*	*0*	*16 120*	*0*	*0*	*0*	*0*
Limnothrix sp en biovolume mm3/L	***0,8990***	***0,9610***	***0,1767***	***0,2418***	***0,0000***	***0,0161***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Oscillatoria limosa										
Oscillatoria princeps										
Oscillatoria sp.										
Somme des Oscillatoria en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Oscillatoria en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Oscillatoria en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktolyngbia sp.										
Planktolyngbia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Planktolyngbia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktothrix agardhii										
Planktothrix sp.										
Planktothrix isothrix										
Somme des Planktothrix en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Planktothrix en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Planktothrix en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Pseudanabaena catenata										
Pseudanabaena limnetica										
Pseudanabaena mucicola										
Pseudanabaena sp.							600			
Somme des Pseudanabaena en Nombre cellules/ml	0	0	0	0	0	0	600	0	0	0
Somme des Pseudanabaena en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*25 800*	*0*	*0*	*0*
Somme des Pseudanabaena en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0258***	***0,0000***	***0,0000***	***0,0000***
Romeria sp.										
Romeria sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Romeria sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres								120		
Cyanobactéries toxinogènes en nombre de cellules /mL	29 000	35 000	19 700	43 800	3 200	520	2 800	0	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	800	2 400	720	25 600	7 200	10 800	9 200	120	0	0
Cyanobactéries totales en nombre de cellules /ml	29 800	37 400	20 420	69 400	10 400	11 320	12 000	120	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	899 000	969 000	358 700	709 800	41 600	16 120	54 400	0	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	**0,89900**	**0,96900**	**0,35870**	**0,70980**	**0,04160**	**0,01612**	**0,05440**	**0,00000**	**0,00000**	**0,00000**
Cyanobactéries biovolume total en µm3//ml	8 000	4 800	87 840	243 200	14 400	79 200	74 000	0	0	0
Cyanobactéries biovolume total en mm^3/L	0,00800	0,00480	0,08784	0,24320	0,01440	0,07920	0,07400	0,00000	0,00000	0,00000
Cyanobactéries totales biovolume total en µm3//ml	907 000,0	973 800,0	446 540,0	953 000,0	56 000,0	95 320,0	128 400,0	0,0	0,0	0,0
Cyanobactéries totales biovolume total en mm^3/L	0,90700	0,97380	0,44654	0,95300	0,05600	0,09532	0,12840	0,00000	0,00000	0,00000
Arthrospira sp										
Arthrospira sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Arthrospira sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Calothrix sp										
Calothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Calothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Chrysosporum sp										
Chrysosporum sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Chrysosporum sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Cyanobium sp										
Cyanobium sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanobium sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanocatena sp										
Cyanocatena sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanocatena sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Eucapsis sp										
Eucapsis sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Eucapsis sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Fischerella sp										
Fischerella sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Fischerella sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Glaucospira sp										
Glaucospira spen biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Glaucospira spen biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeocapsa sp										
Gloeocapsa sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeocapsa sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeotrichia sp										

Gloeotrichia sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeotrichia sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gomphosphaeria sp										
Gomphosphaeria sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gomphosphaeria sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Hapalosiphon sp										
Hapalosiphon sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Hapalosiphon sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Homoeothrix sp (Tapinothrix)										
Homoeothrix sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Homoeothrix sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Jaaginema sp			4000							
Jaaginema sp en biovolume µm3/ml	0	0	75200	0	0	0	0	0	0	0
Jaaginema sp en biovolume mm3/L	0,0000	0,0000	0,0752	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Lemmermaniella sp.										
Lemmermaniella sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Lemmermaniella sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Leptolyngbya sp.										
Leptolyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Leptolyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Lyngbya sp.										
Lyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Lyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Microcoleus sp										
Microcoleus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Microcoleus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nodularia sp										
Nodularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nodularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nostoc sp										
Nostoc sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nostoc sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Pannus sp										
Pannus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Pannus sp										
Pannus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Pannus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Phormidium sp.										
Phormidium sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Phormidium sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rhabdogloea sp										
Rhabdogloea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdogloea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rivularia sp										
Rivularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rivularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Schizothrix sp										
Schizothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Schizothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Scytonema sp										
Scytonema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Scytonema sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Sphaerospermopsis sp										
Sphaerospermopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Sphaerospermopsis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Spirulina sp.										
Spirulina sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Spirulina sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Symplocea sp										
Symplocea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Symplocea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechosystis sp										
Synechosystis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechosystis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Tapinothrix sp										
Tapinothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Tapinothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Trichodesmium sp										
Trichodesmium sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Trichodesmium sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Umezakia sp										
Umezakia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Umezakia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres cyanobactéries picoplanctoniques										
Cyanobactéries toxinogènes en nombre de cellules /mL	29 000	35 000	19 700	43 800	3 200	520	2 800	0	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	800	2 400	4 720	25 600	7 200	10 800	9 200	120	0	0
Cyanobactéries totales en nombre de cellules /ml	29 800	37 400	24 420	69 400	10 400	11 320	12 000	120	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	899 000	969 000	358 700	709 800	41 600	16 120	54 400	0	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	0,89900	0,96900	0,35870	0,70980	0,04160	0,01612	0,0544	0,0000	0,0000	0,0000
Cyanobactéries biovolume total en µm3//ml	8 000	4 800	163 040	243 200	14 400	79 200	74 000	0	0	0
Cyanobactéries biovolume total en mm^3/L	0,0080	0,0048	0,1630	0,2432	0,0144	0,0792	0,0740	0,0000	0,0000	0,0000
Cyanobactéries totales biovolume total en µm3//ml	907 000	973 800	521 740	953 000	56 000	95 320	128 400	0	0	0
Cyanobactéries totales biovolume total en mm^3/L	0,9070	0,9738	0,5217	0,9530	0,0560	0,0953	0,1284	0,0000	0,0000	0,0000
CHLOROPHYCEES										
Actinastrum sp.										
Acutodesmus sp										
Ankistrodesmus falcatus										
Ankyra sp.										
Botryococcus braunii										
Chlamydomonas sp.										
Chlorella sp.										
Chlorococcum sp.										
Closteriopsis sp.										
Coelastrum sp.		320								
Coronastrum sp										
Crucigenia sp.							320	40		
Crucigeniella sp.										
Desmodesmus sp										
Diacanthos sp										
Dichotomococcus sp										
Dictyosphaerium sp.										
Didymogenes sp										
Elakatothrix sp										

Eudorina sp.										
Franceia sp.										
Golenkinia sp										
Golenkiniopsis sp										
Gonium sp.										
Haematococcus sp										
Kirchneriella sp.										
Lagerheimia sp.										
Micractinium sp.										
Micractinium bornhemiense										
Microspora sp										
Monoraphidium sp.	5200	1200	800	600	120	120	80			
Nephrocytium sp										
Oedogonium sp.										
Oocystis sp.										
Pandorina sp.										
Paulschulzia sp										
Pediastrum sp.			160							
Planctonema sp										
Polyedriopsis sp										
Pteromonas sp										
Quadrigula sp.										
Radiococcus sp.										
Rhizoclonium sp										
Scenedesmus sp.	640	880	800	880	800	160	160			
Schroederia sp.										
Selenastrum sp.										
Sphaerellopsis sp										
Sphaerocystis sp.										
Tetraedron sp.		320					280			
Tetrastrum sp.										
Treubaria sp.										
Trochiscia sp										
Volvox sp.										
Ulothrix sp										
Autres	800	1 200	160 000	1 000	480	480	880			
ZYGOPHYCEES										
Closterium sp.										
Cosmarium sp.		160								
Euastrum sp										
Mougeotia sp										
Spirogyra sp.										
Spondylosium sp.										
Staurastrum sp.										
Staurodesmus sp.										
Zygnema sp										
Autres										
DIATOMEES										
Aulacoseira granulata										
Aulacoseira sp.					160		200			
Cyclotella sp.										
Gyrosigma sp.										
Melosira varians										
Pseudostephanodiscus sp.										
Stephanodiscus sp.					80		160	8		
Centriques autres							280			
Achnanthes sp.										
Amphora sp.										
Asterionella sp.										
Attheya sp										
Bacillaria sp.										
Cocconeis sp.										
Craticula sp.										
Cymbella sp.										
Diatoma sp.										
Eunotia sp.										
Fragilaria sp.	80	730	240	120		80		40		
Gomphoneis sp.										
Gomphonema sp.										
Gyrosygma sp										
Meridion circulare										
Navicula sp.			40		240	80	80			
Nitzschia sp.										
Pinnularia sp.										
Pleurosigma sp.										
Urosolenia sp										
Surirella sp.										
Tabellaria sp.										
Pennées autres				200						
CHRYSOPHYCEES										
Dinobryon sp.										
Kephyrion sp.										
Mallomonas sp.										
Synura sp.										
Uroglena sp.										
Autres										
XANTHOPHYCEES										
Centritractus sp										
Goniochloris sp.										
Ophiocytium sp										
Pseudostaurastrum sp.										
Tetraedriella sp										
Tribonema sp.										
Autres										
DINOPHYCEES										
Ceratium sp.										
Gymnodinium sp.								8		
Peridinium sp.										
Autres										
CRYPTOPHYCEES										
Cryptomonas sp.		40	2100							
Autres										
EUGLENOPHYCEES										
Euglena sp.										

Lepocinclis sp										
Phacus sp.										
Strombomonas sp.										
Trachelomonas sp.										
Autres										

Validation:	S.PIRIO	S.PIRIO	S.PIRIO	S.PIRIO	M.GIBIER	M.GIBIER	M.GIBIER	M,MAUGUEN		
Date:	16/05/2023	31/05/2023	13/06/2023	26/06/2023	11/07/2023	24/07/2023	08/08/2023	21/08/2023		

Résultat de l'observation du prélèvement de l' efflorescence:										
Genre dominant:										

Kermelo	15/05/2023	30/05/2023	11/07/2023	24/07/2024	08/08/2023	21/08/2023				
	E230525460	E230541048	E230709391	E230722435	E230802331	E230814146				
Chlorophylle a (µg/l)	13									
Fluorescence Phycocyanine (µg/l)										
CYANOTOXINES PAR CHROMATOGRAPHIE										
Microcystines LR (µg/l)										
Microcystines YR (µg/l)										
Microcystines RR (µg/l)										
Microcystine LF (µg/L)										
Microcystine LW (µg/L)										
Microcystine LY (µg/L)										
Microcystine LA (µg/L)										
Microcystine LR desmethyl (µg/L)										
Microcystine RR desmethyl (µg/L)										
Anatoxine A (µg/L)										
Saxitoxine (µg/L)										
Cylindrospermopsine (µg/L)										
Nodularine (µg/L)										
CYANOTOXINES PAR ELISA										
Microcystines et Nodularines (µg/L)										
Anatoxine A (µg/L)										
Cylindrospermopsine (µg/L)										
Saxitoxine (µg/L)										
Autres micro algues par mL	2 680	3 360	1 200	1 400	1 780	324	0	0	0	0
Nbre total de cellules par mL	17 780	27 640	8 720	22 320	3 380	4 184	0	0	0	0
Répartition en %										
CHLOROPHYCEES	11,7	10,0	9,6	3,2	42,0	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
ZYGOPHYCEES	0,0	0,0	0,0	0,0	0,0	1,9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
DIATOMOPHYCEES	3,4	2,2	4,1	3,0	10,7	5,8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
CHRYSOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
DINOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
CRYPTOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
XANTOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
EUGLENOPHYCEES	0,0	0,0	0,0	0,0	0,0	0,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
CYANOBACTERIES	84,9	87,8	86,2	93,7	47,3	92,3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
total en %	100,0	100,0	100,0	100,0	100,0	100,0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Nbre de cellules/mL										
CYANOBACTERIES										
Aphanocapsa sp.		3 200		2 400	1 600	1 200				
Aphanocapsa sp.en biovolume µm3/ml	*0*	*6 400*	*0*	*4 800*	*3 200*	*2 400*	*0*	*0*	*0*	*0*
Aphanocapsa sp.en biovolume mm3/L	***0,0000***	***0,0064***	***0,0000***	***0,0048***	***0,0032***	***0,0024***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanothece sp.										
Aphanothece sp.en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Aphanothece sp.en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Coelomoron sp.										
Coelomoron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Coelomoron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Coelosphaerium sp.										
Coelosphaerium sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Coelosphaerium sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanodictyon sp		800	1600	12000						
Cyanodictyon sp en biovolume µm3/ml	0	1600	3200	24000	0	0	0	0	0	0
Cyanodictyon sp en biovolume mm3/L	0,0000	0,0016	0,0032	0,0240	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanogranis sp		800	5600	5600						
Cyanogranis sp en biovolume µm3/ml	0	800	5600	5600	0	0	0	0	0	0
Cyanogranis sp en biovolume mm3/L	0,0000	0,0008	0,0056	0,0056	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanonephron sp.										
Cyanonephron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanonephron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Limnococcus sp										
Limnococcus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Limnococcus sp en biovolumemm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Merismopedia glauca										
Merismopedia tenuissima										
Merismopedia sp.	7 700					160				
Somme des Merismopedia en Nombre cellules/ml	7 700	0	0	0	0	160	0	0	0	0
Somme des Merismopedia en biovolume µm3/ml	*100 100*	*0*	*0*	*0*	*0*	*2 080*	*0*	*0*	*0*	*0*
Somme des Merismopedia en biovolume mm3/L	***0,1001***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0021***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Microcystis aeruginosa										
Microcystis botrys										
Microcystis flos aquae										
Microcystis viridis										
Microcystis wesenbergii										
Microcystis sp.										
Somme des Microcystis en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Microcystis en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Microcystis en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Radiocystis sp.										
Radiocystis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Radiocystis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhabdoderma sp.										
Rhabdoderma sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdoderma sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Snowella sp.										
Snowella sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Snowella sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechococcus sp.										
Synechococcus sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechococcus sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Woronichinia sp.										
Woronichinia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Woronichinia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Dolichospermum(Anabaena circinalis)										
Dolichospermum (Anabaena crassa)										
Dolichospermum(Anabaena flos aquae)										
Dolichospermum (Anabaena heterospora)										
Dolichospermum (Anabaena mendotae)										
Dolichospermum (Anabaena planctonica)										

Dolichospermum (Anabaena spiroides)										
Dolichospermum (Anabaena viguieri)										
Dolichospermum (Anabaena sp.)										
Somme Dolichospermum en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme Dolichospermum en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme Dolichospermum en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Anabaenopsis sp										
Anabaenopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Anabaenopsis sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Aphanizomenon aphanizomenoides										
Aphanizomenon flos aquae										
Aphanizomenon gracile										
Aphanizomenon issatschenkoi (Cuspidothrix)										
Aphanizomenon sp.										
Somme Aphanizomenon en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme Aphanizomenon en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme Aphanizomenon en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cuspidothrix sp										
Cuspidothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cuspidothrix sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermopsis sp.										
Cylindrospermopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Cylindrospermum sp.										
Cylindrospermum sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Cylindrospermum sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Rhaphidiopsis sp.										
Rhaphidiopsis sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhaphidiopsis sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Komvophoron sp.										
Komvophoron sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Komvophoron sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Geitlerinema sp										
Geitlerinema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Geitlerinema sp										
Geitlerinema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Geitlerinema sp en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Limnothrix sp	7 400	19 000								
Limnothrix sp en biovolume µm3/ml	*229 400*	*589 000*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Limnothrix sp en biovolume mm3/L	***0,2294***	***0,5890***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Oscillatoria limosa										
Oscillatoria princeps										
Oscillatoria sp.										
Somme des Oscillatoria en Nombre cellules/ml	0	0	0	0	0	0	0	0	0	0
Somme des Oscillatoria en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Oscillatoria en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktolyngbia sp.										
Planktolyngbia sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Planktolyngbia sp. en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Planktothrix agardhii										
Planktothrix sp.						2 500				
Planktothrix isothrix										
Somme des Planktothrix en Nombre cellules/ml	0	0	0	0	0	2 500	0	0	0	0
Somme des Planktothrix en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*130 000*	*0*	*0*	*0*	*0*
Somme des Planktothrix en biovolume mm3/L	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,1300***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Pseudanabaena catenata										
Pseudanabaena limnetica										
Pseudanabaena mucicola										
Pseudanabaena sp.		480	320	920						
Somme des Pseudanabaena en Nombre cellules/ml	0	480	320	920	0	0	0	0	0	0
Somme des Pseudanabaena en biovolume µm3/ml	*0*	*20 640*	*13 760*	*39 560*	*0*	*0*	*0*	*0*	*0*	*0*
Somme des Pseudanabaena en biovolume mm3/L	***0,0000***	***0,0206***	***0,0138***	***0,0396***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***	***0,0000***
Romeria sp.										
Romeria sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Romeria sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres										
Cyanobactéries toxinogènes en nombre de cellules /mL	15 100	22 680	320	3 320	1 600	3 860	0	0	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	0	1 600	7 200	17 600	0	0	0	0	0	0
Cyanobactéries totales en nombre de cellules /ml	15 100	24 280	7 520	20 920	1 600	3 860	0	0	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	329 500	616 040	13 760	44 360	3 200	134 480	0	0	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	**0,32950**	**0,61604**	**0,01376**	**0,04436**	**0,00320**	**0,13448**	**0,00000**	**0,00000**	**0,00000**	**0,00000**
Cyanobactéries biovolume total en µm3//ml	0	2 400	8 800	29 600	0	0	0	0	0	0
Cyanobactéries biovolume total en mm^3/L	0,00000	0,00240	0,00880	0,02960	0,00000	0,00000	0,00000	0,00000	0,00000	0,00000
Cyanobactéries totales biovolume total en µm3//ml	329 500,0	618 440,0	22 560,0	73 960,0	3 200,0	134 480,0	0,0	0,0	0,0	0,0
Cyanobactéries totales biovolume total en mm^3/L	0,32950	0,61844	0,02256	0,07396	0,00320	0,13448	0,00000	0,00000	0,00000	0,00000
Arthrospira sp										
Arthrospira sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Arthrospira sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Calothrix sp										
Calothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Calothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Chrysosporum sp										
Chrysosporum sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Chrysosporum sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Cyanobium sp										
Cyanobium sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanobium sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanocatena sp										
Cyanocatena sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Cyanocatena sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Eucapsis sp										
Eucapsis sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Eucapsis sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Fischerella sp										
Fischerella sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Fischerella sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Glaucospira sp										
Glaucospira spen biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Glaucospira spen biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeocapsa sp										
Gloeocapsa sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeocapsa sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gloeotrichia sp										

Gloeotrichia sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gloeotrichia sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Gomphosphaeria sp										
Gomphosphaeria sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Gomphosphaeria sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Hapalosiphon sp										
Hapalosiphon sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Hapalosiphon sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Homoeothrix sp (Tapinothrix)										
Homoeothrix sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Homoeothrix sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Jaaginema sp										
Jaaginema sp en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Jaaginema sp en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Lemmermaniella sp.										
Lemmermaniella sp. en biovolume µm3/ml	0	0	0	0	0	0	0	0	0	0
Lemmermaniella sp. en biovolume mm3/L	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Leptolyngbya sp.										
Leptolyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Leptolyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Lyngbya sp.										
Lyngbya sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Lyngbya sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Microcoleus sp										
Microcoleus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Microcoleus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nodularia sp										
Nodularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nodularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Nostoc sp										
Nostoc sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Nostoc sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Pannus sp										
Pannus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Pannus sp										
Pannus sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Pannus sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Phormidium sp.										
Phormidium sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Phormidium sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rhabdogloea sp										
Rhabdogloea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rhabdogloea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Rivularia sp										
Rivularia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Rivularia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Schizothrix sp										
Schizothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Schizothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Scytonema sp										
Scytonema sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Scytonema sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Sphaerospermopsis sp										
Sphaerospermopsis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Sphaerospermopsis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Spirulina sp.										
Spirulina sp. en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Spirulina sp. en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Symplocea sp										
Symplocea sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Symplocea sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Synechosystis sp										
Synechosystis sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Synechosystis sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Tapinothrix sp										
Tapinothrix sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Tapinothrix sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Trichodesmium sp										
Trichodesmium sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Trichodesmium sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Umezakia sp										
Umezakia sp en biovolume µm3/ml	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Umezakia sp en biovolume mm3/L	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*	*0,0000*
Autres cyanobactéries picoplanctoniques										
Cyanobactéries toxinogènes en nombre de cellules /mL	15 100	22 680	320	3 320	1 600	3 860	0	0	0	0
Cyanobactéries toxinogènes en nombre de colonies / mL										
Cyanobactéries en nombre de cellules / mL	0	1 600	7 200	17 600	0	0	0	0	0	0
Cyanobactéries totales en nombre de cellules /ml	15 100	24 280	7 520	20 920	1 600	3 860	0	0	0	0
Cyanobactéries total en nombre de colonies / mL										
Cyanobactéries toxinogènes biovolume en µm3/ml	329 500	616 040	13 760	44 360	3 200	134 480	0	0	0	0
Cyanobactéries toxinogènes biovolume en mm3/L	0,3295	0,6160	0,0138	0,0444	0,0032	0,1345	0,0000	0,0000	0,0000	0,0000
Cyanobactéries biovolume total en µm3//ml	0	2 400	8 800	29 600	0	0	0	0	0	0
Cyanobactéries biovolume total en mm^3/L	0,0000	0,0024	0,0088	0,0296	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
Cyanobactéries totales biovolume total en µm3//ml	329 500	618 440	22 560	73 960	3 200	134 480	0	0	0	0
Cyanobactéries totales biovolume total en mm^3/L	0,3295	0,6184	0,0226	0,0740	0,0032	0,1345	0,0000	0,0000	0,0000	0,0000
CHLOROPHYCEES										
Actinastrum sp.										
Acutodesmus sp										
Ankistrodesmus falcatus										
Ankyra sp.										
Botryococcus braunii										
Chlamydomonas sp.										
Chlorella sp.										
Chlorococcum sp.										
Closteriopsis sp.										
Coelastrum sp.										
Coronastrum sp										
Crucigenia sp.		320								
Crucigeniella sp.										
Desmodesmus sp										
Diacanthos sp										
Dichotomococcus sp										
Dictyosphaerium sp.										
Didymogenes sp										
Elakatothrix sp										

Eudorina sp.										
Franceia sp.										
Golenkinia sp										
Golenkiniopsis sp										
Gonium sp.										
Haematococcus sp										
Kirchneriella sp.										
Lagerheimia sp.										
Micractinium sp.										
Micractinium bornhemiense										
Microspora sp										
Monoraphidium sp.	1200	600	120							
Nephrocytium sp										
Oedogonium sp.										
Oocystis sp.		160								
Pandorina sp.										
Paulschulzia sp										
Pediastrum sp.										
Planctonema sp										
Polyedriopsis sp										
Pteromonas sp										
Quadrigula sp.										
Radiococcus sp.										
Rhizoclonium sp										
Scenedesmus sp.	480	320								
Schroederia sp.										
Selenastrum sp.										
Sphaerellopsis sp										
Sphaerocystis sp.										
Tetraedron sp.		160		160	320					
Tetrastrum sp.										
Treubaria sp.										
Trochiscia sp										
Volvox sp.										
Ulothrix sp										
Autres	400	1 200	720	560	1 100					
ZYGOPHYCEES										
Closterium sp.						80				
Cosmarium sp.										
Euastrum sp										
Mougeotia sp										
Spirogyra sp.										
Spondylosium sp.										
Staurastrum sp.										
Staurodesmus sp.										
Zygnema sp										
Autres										
DIATOMEES										
Aulacoseira granulata										
Aulacoseira sp.				160		120				
Cyclotella sp.										
Gyrosigma sp.						40				
Melosira varians										
Pseudostephanodiscus sp.										
Stephanodiscus sp.			160	80		80				
Centriques autres	160				120					
Achnanthes sp.										
Amphora sp.										
Asterionella sp.										
Attheya sp										
Bacillaria sp.										
Cocconeis sp.										
Craticula sp.										
Cymbella sp.										
Diatoma sp.										
Eunotia sp.										
Fragilaria sp.	240	600	80	120						
Gomphoneis sp.										
Gomphonema sp.										
Gyrosygma sp										
Meridion circulare										
Navicula sp.	200		120	320	240	4				
Nitzschia sp.										
Pinnularia sp.										
Pleurosigma sp.										
Urosolenia sp										
Surirella sp.										
Tabellaria sp.										
Pennées autres										
CHRYSOPHYCEES										
Dinobryon sp.										
Kephyrion sp.										
Mallomonas sp.										
Synura sp.										
Uroglena sp.										
Autres										
XANTHOPHYCEES										
Centritractus sp										
Goniochloris sp.										
Ophiocytium sp										
Pseudostaurastrum sp.										
Tetraedriella sp										
Tribonema sp.										
Autres										
DINOPHYCEES										
Ceratium sp.										
Gymnodinium sp.										
Peridinium sp.										
Autres										
CRYPTOPHYCEES										
Cryptomonas sp.										
Autres										
EUGLENOPHYCEES										
Euglena sp.										

Lepocinclis sp										
Phacus sp.										
Strombomonas sp.										
Trachelomonas sp.										
Autres										

Validation:	S.PIRIO	S.PIRIO	M.GIBIER	M.GIBIER	M.GIBIER	M,MAUGUEN				
Date:	16/05/2023	31/05/2023	11/07/2023	24/07/2023	09/08/2023	22/08/2023				

Résultat de l'observation du prélèvement de l' efflorescence:										
Genre dominant:										