

REPORT

Report no: 282168

Depth : N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 1/04/2023

Lims No: L23028268

Date Sampled: 30/03/2023

Analyst:

Client ID: 232066

Address:

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

Issued By : Sydney Water

Laboratory Services

Issued On : 03/04/2023

Disclaimer: Samples analysed as received.
TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolume mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Aphanizomenonaceae</i>	486	Potentially toxic, taste & odour	32.56	0.050
<i>Arthrospira</i>	2081		83.24	0.080
<i>Cocoid Blue Green Picoplankton</i>	47122	Filter clogging?	89.53	0.021
<i>Cuspidothrix issatschenkoi</i>	1388		70.78	0.075
<i>Microcystis</i>	332	Potentially toxic, taste & odour	9.32	0.009
<i>Planktolyngbya</i>	4148	Filter clogging	41.48	0.331
<i>Planktothrix</i>	1457	Potentially toxic	100.53	0.276
<i>Pseudanabaena</i>	3318		26.54	0.033
<i>Pseudanabaena galeata</i>	3318		122.43	0.101
<i>Synechococcus cf</i>	2489		30.61	0.016
Subtotal	66139		607.02	0.992
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	1110	Filter clogging	451.77	0.667
<i>Cyclotella</i>	2212	Filter clogging	150.41	0.172
<i>Cyclotella species 4</i>	69	Filter clogging	107.71	0.971
<i>Navicula</i>	277		372.56	0.467
<i>Nitzschia</i>	1383		298.72	0.139
<i>Urosolenia</i>	277	Filter clogging	195.28	0.257
Subtotal	5328		1,576.45	2.673
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	69	Discolouration of water	121.99	0.159
Subtotal	69		121.99	0.159
<u>Chlorophyta (Green)</u>				

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<i>Actinastrum</i>	1106		69.67	0.023
<i>Ankistrodesmus</i>	1106		415.85	0.149
<i>Chlamydomonas</i>	553	Taste & Odour	44.24	0.047
<i>Crucigenia</i>	1106		8.84	0.021
<i>Monoraphidium cf</i>	1383		37.06	0.027
<i>Mougeotia</i>	69	Filter clogging	246.26	0.564
<i>Pediastrum</i>	278		33.36	0.013
<i>Planctonema</i>	902		74.86	0.101
<i>Scenedesmus species 1</i>	4203		327.83	0.230
<i>Spondylosium</i>	277		77.28	0.081
Subtotal	10983		1,335.25	1.256
Cryptophyta (Monad)				
<i>Cryptomonas</i>	830	Common after flood, Taste & Odour	448.20	0.788
Subtotal	830		448.20	0.788

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	66140	607.00	0.992
* Potentially Toxic Blue Green	2280	142.40	0.335
* Potentially Toxic Algae	2280	142.40	0.335
Total Algae	83350	4089.00	5.870

Comment:

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals $400\mu\text{m}^2$ of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Cocoid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeotheca* ; *Cyanodictyon*

Sydney Water Approved Signatory:



Where a result is required to meet a compliance limit or specification the associated uncertainty must be considered.

Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing

Accredited for compliance with ISO/IEC 17025

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 Microcystin equivalents: NA
 Date analysed: 3/04/2023
 Analyst: [REDACTED]

Lims No: L23028269

Date Sampled: 30/03/2023

Client ID: 232067

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA70CENTI

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 Issued On : 03/04/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Aphanizomenonaceae</i>	399	Potentially toxic, taste & odour	26.73	0.041
<i>Cocoid Blue Green Picoplankton</i>	118136	Filter clogging?	224.45	0.053
<i>Cuspidothrix issatschenkoi</i>	713		36.36	0.038
<i>Dolichospermum affine</i>	971		39.51	0.045
<i>Limnothrix</i>	728		7.28	0.009
<i>Merismopedia</i>	8849		8.84	0.074
<i>Microcystis</i>	2606	Potentially toxic, taste & odour	73.22	0.072
<i>Planktolyngbya</i>	9955	Filter clogging	99.55	0.796
<i>Pseudanabaena</i>	13827		110.61	0.138
<i>Raphidiopsis</i>	744		44.86	0.050
<i>Raphidiopsis raciborskii</i>	1124	Potentially toxic, taste & odour	42.48	0.032
<i>Sphaerospermopsis aphanizomenoides</i>	1943		58.29	0.073
<i>Sphaerospermopsis reniformis</i>	1405	Taste & Odour	56.34	0.065
Subtotal	161400		828.52	1.486
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	1873	Filter clogging	762.31	1.125
<i>Cyclotella</i>	4563	Filter clogging	310.28	0.355
<i>Cyclotella/Stephanodiscus</i>	553	Filter clogging	29.58	0.043
<i>Gyrosigma</i>	69		248.40	0.312
<i>Nitzschia</i>	1318		284.68	0.133
<i>Skeletonema</i>	553	Filter clogging	414.75	0.036
<i>Synedra</i>	69		40.98	0.037
Subtotal	8998		2,090.98	2.041
<u>Euglenophyta (Euglenoid)</u>				

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	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<i>Trachelomonas</i>	69	Common after flood	193.61	0.156
Subtotal	69		193.61	0.156
<u>Chlorophyta (Green)</u>				
<i>Actinastrum</i>	2489		156.80	0.052
<i>Coelastrum</i>	2212		72.99	0.150
<i>Dictyosphaerium</i>	2765		199.08	0.041
<i>Kirchneriella</i>	553		27.65	0.010
<i>Koliella</i>	830	Filter clogging	12.45	0.001
<i>Monoraphidium arcuatum</i>	139		37.72	0.029
<i>Monoraphidium cf</i>	1383		37.06	0.027
<i>Mougeotia</i>	139	Filter clogging	496.09	1.137
<i>Oocystis</i>	4563		433.48	0.465
<i>Planctonema</i>	624		51.79	0.070
<i>Scenedesmus species 1</i>	2765		215.67	0.151
<i>Sphaerocystis</i>	1106		124.97	0.032
<i>Tetraedron</i>	1106		470.05	0.110
<i>Tetrastrum</i>	1936		265.23	0.332
Subtotal	22610		2,601.03	2.607
<u>Cryptophyta (Monad)</u>				
<i>Chroomonas</i>	553	Common after flood	132.72	0.137
<i>Cryptomonas</i>	830	Common after flood, Taste & Odour	448.20	0.788
Subtotal	1383		580.92	0.925

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	161400	828.50	1.490
* Potentially Toxic Blue Green	4130	142.40	0.145
* Potentially Toxic Algae	4130	142.40	0.145
Total Algae	194500	6295.00	7.220

Comment:

Debris present in the sample.

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