

REPORT

Report no: 282739 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/04/2023
 Analyst: [REDACTED]

Lims No: L23029760 Date Sampled: 4/04/2023

Client ID: 232155 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA70CENTI Issued By : Sydney Water
 Laboratory Services
 Issued On : 13/04/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaenopsis</i>	1383	Potentially toxic	95.42	0.164
<i>Cocoid Blue Green Picoplankton</i>	39275	Filter clogging?	74.62	0.017
<i>Cuspidothrix issatschenkoi</i>	1734		88.43	0.094
<i>Merismopedia</i>	4708		4.70	0.039
<i>Microcystis</i>	3422	Potentially toxic, taste & odour	96.15	0.095
<i>Myxobaktron</i>	1307		23.00	0.006
<i>Non toxic Aphanizomenonaceae</i>	1936	Taste & Odour	79.37	0.086
<i>Planktolyngbya</i>	19938	Filter clogging	199.38	1.595
<i>Pseudanabaena</i>	22565		180.52	0.225
<i>Raphidiopsis raciborskii</i>	1383	Potentially toxic, taste & odour	52.27	0.040
<i>Sphaerospermopsis reniformis</i>	1106	Taste & Odour	44.35	0.051
Subtotal	98757		938.21	2.412
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	415	Filter clogging	168.90	0.249
<i>Cyclotella</i>	1293	Filter clogging	87.92	0.100
<i>Cylindrotheca closterium</i>	17		5.60	0.004
<i>Gyrosigma</i>	17		61.20	0.076
<i>Nitzschia</i>	1217		262.87	0.122
<i>Urosolenia</i>	207	Filter clogging	145.93	0.192
Subtotal	3166		732.42	0.743
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	138	Discolouration of water	243.98	0.319
Subtotal	138		243.98	0.319

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<u>Chlorophyta (Green)</u>				
<i>Ankistrodesmus</i>	691		259.81	0.093
<i>Coelastrum</i>	415		13.69	0.028
<i>Crucigenia</i>	684		5.47	0.012
<i>Dictyosphaerium</i>	12340		888.48	0.185
<i>Golenkinia</i>	69		4.83	0.012
<i>Koliella</i>	760	Filter clogging	11.40	0.001
<i>Monoraphidium arcuatum</i>	17		4.61	0.003
<i>Monoraphidium cf</i>	3595		96.34	0.070
<i>Oocystis</i>	2323		220.68	0.236
<i>Planctonema</i>	138		11.45	0.015
<i>Scenedesmus species 1</i>	4148		323.54	0.227
<i>Schroederia</i>	69		14.00	0.009
<i>Sphaerocystis</i>	622		70.28	0.018
<i>Tetraedron</i>	622		264.35	0.062
<i>Tetrastrum</i>	553		75.76	0.095
Subtotal	27046		2,264.69	1.066
<u>Cryptophyta (Monad)</u>				
<i>Chroomonas</i>	207	Common after flood	49.68	0.051
<i>Cryptomonas</i>	69	Common after flood, Taste & Odour	37.26	0.065
Subtotal	276		86.94	0.116

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	98760	938.20	2.410
* Potentially Toxic Blue Green	6190	243.80	0.299
* Potentially Toxic Algae	6190	243.80	0.299
Total Algae	129400	4266.00	4.660

Comment:

Sample received unpreserved/ partially preserved, results may be compromised. Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm² of algal cells (as cross sectional area)

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

Coccolid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeothece*; *Cyanodictyon*

Phycology

Sydney Water Approved Signatory:

██████████, Analysis ██████████, Analyst



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

REPORT

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 Date analysed: 13/04/2023
 Lims No: L23029761 Date Sampled: 4/04/2023 Analyst: [REDACTED]

Client ID: 232159
 Site:

Address: [REDACTED]

Client: Department of Planning and Environment

Method: MA70CENTI

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 Laboratory Services
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TAXA

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<u>Cyanophyta (Blue green)</u>				
<i>Cocoid Blue Green Picoplankton</i>	8980	Filter clogging?	17.06	0.004
<i>Microcystis</i>	207	Potentially toxic, taste & odour	5.81	0.005
<i>Myxobaktron</i>	2012		35.41	0.010
<i>Non toxic Aphanizomenonaceae</i>	382	Taste & Odour	15.66	0.016
<i>Planktolyngbya</i>	5116	Filter clogging	51.16	0.409
<i>Pseudanabaena</i>	2434		19.47	0.024
<i>Raphidiopsis raciborskii</i>	553	Potentially toxic, taste & odour	20.90	0.016
Subtotal	19684		165.47	0.484
<u>Bacillariophyta (Diatom)</u>				
<i>Aulacoseira</i>	553	Filter clogging	225.07	0.332
<i>Cyclotella</i>	346	Filter clogging	23.52	0.026
<i>Cyclotella species 4</i>	69	Filter clogging	107.71	0.971
<i>Gyrosigma</i>	17		61.20	0.076
<i>Nitzschia</i>	968		209.08	0.097
Subtotal	1953		626.58	1.502
<u>Euglenophyta (Euglenoid)</u>				
<i>Euglena</i>	69	Discolouration of water	121.99	0.159
<i>Trachelomonas</i>	17	Common after flood	47.70	0.038
Subtotal	86		169.69	0.197
<u>Chlorophyta (Green)</u>				
<i>Chlamydomonas</i>	69	Taste & Odour	5.52	0.005
<i>Crucigenia</i>	553		4.42	0.010
<i>Dictyosphaerium</i>	138		9.93	0.002

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<i>Koliella</i>	207	Filter clogging	3.10	0.000
<i>Monoraphidium cf</i>	1217		32.61	0.023
<i>Oocystis</i>	2987		283.76	0.304
<i>Pediastrum</i>	207		24.84	0.009
<i>Planctonema</i>	975		80.92	0.110
<i>Scenedesmus species 1</i>	3775		294.45	0.207
<i>Sphaerocystis</i>	69		7.79	0.002
<i>Tetraedron</i>	138		58.65	0.013
<i>Tetrastrum</i>	277		37.94	0.047
Subtotal	10612		843.93	0.732

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	19680	165.50	0.484
* Potentially Toxic Blue Green	760	26.70	0.021
* Potentially Toxic Algae	760	26.70	0.021
Total Algae	32340	1806.00	2.920

Comment:

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ASU : One ASU (Area Standard Unit) equals 400µm² of algal cells (as cross sectional area)

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