

PHYTOPLANKTON ANALYSIS

REPORT Report no:

288488

15/06/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a:

Microcystin equivalents: NA

Date analysed:

Analyst:

3/07/2023

NA

Page 1 of 2

L23051617 Date Sampled:

Client ID: 235396

Address:

Site:

Lims No:

Client:

Department of Planning and Environment

Method: MA71CENT

Issued By:
Commercial Client Representative

Disclaimer: Samples analysed as

ASU/

Biovolume

received.

Issued On: 26/07/2023

TAXA

 $\begin{array}{cccc} Cells/ & Significance & ASU/ & Biovolum \\ mL & mL & mm3/L \end{array}$

Cyanophyta (Blue green)

Anabaenopsis	624	Potentially toxic	43.05	0.074
Anagnostidinema	4093		123.60	0.072
Aphanizomenonaceae	14805	Potentially toxic, taste & odour	991.93	1.539
Coccoid Blue Green Picoplankton	251252	Filter clogging?	477.37	0.113
Cuspidothrix issatschenkoi	10545		537.79	0.572
Dolichospermum affine	1388		56.49	0.064
Microcystis	2212	Potentially toxic, taste & odour	62.15	0.061
Planktolyngbya	10429	Filter clogging	104.29	0.834
Pseudanabaena	67633		541.06	0.676
Raphidiopsis	833	Potentially toxic	50.22	0.056
Raphidiopsis raciborskii	10281	Potentially toxic, taste & odour	388.62	0.301
Sphaerospermopsis aphanizomenoides	5682		170.46	0.214
Spirulina	1580		23.70	0.005
Synechococcus cf	1612		19.82	0.010
Subtotal	382969		3,590.55	4.591

	mL	mL	mm3/L
Total Blue Green	383000	3591.00	4.590
* Potentially Toxic Blue Green	27920	1486.00	1.980

Cells/

Comment:

Debris present in the sample.



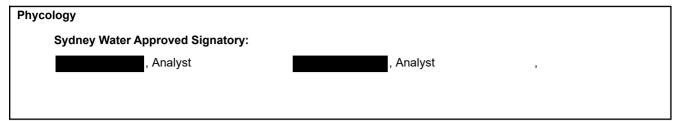
*Taxa with potential to produce toxins.

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

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

 $Coccoid\ Blue\ Green\ Picoplankton:\ Aphanocapsa;\ Aphanothece;\ Cyanogranis;\ Cyanonephron;\ Cyanocatena;\ Gloeocapsa;\ Gloeothece$

; Cyanodictyon





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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Page 1 of 2

Lims No: L23051618

051618 Date Sampled:

Analyst:

Date analysed:

Client ID: 235397 Site:

Client:

Department of Planning and Environment

Method: MA71CENT Issued By:

Disclaimer: Samples analysed as

received.

Issued On: 26/07/2023

Commercial Client Representative

TAXA

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Cyanophyta (Blue green)

Aphanizomenonaceae	416	Potentially toxic, taste & odour	27.87	0.043
Coccoid Blue Green Picoplankton	192690	Filter clogging?	366.11	0.087
Cuspidothrix issatschenkoi	347		17.69	0.018
Merismopedia	3318		3.31	0.027
Non toxic Aphanizomenonaceae	399	Taste & Odour	16.35	0.017
Planktolyngbya	902	Filter clogging	9.02	0.072
Pseudanabaena	2435		19.48	0.024
Raphidiopsis raciborskii	121	Potentially toxic, taste & odour	4.57	0.003
Romeria	553		8.84	0.003
Subtotal	201181		473.24	0.294

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	201200	473.20	0.294
* Potentially Toxic Blue Green	537	32.40	0.046

Commont

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Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

; Cyanodictyon

^{*}Taxa with potential to produce toxins.

Sydney Water Approved Signatory: , Analyst , Analyst , Analyst ,



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L23051619

PHYTOPLANKTON ANALYSIS

REPORT

288488

Depth: N/A

Page 1 of 2

Supercedes Report No:

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Microcystin equivalents: NA

15/06/2023 *Analyst:*

Client ID: 235398

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Client: Department of Planning and Environment

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 $\begin{array}{cccc} Cells/ & Significance & ASU/ & Biovolum \\ mL & mL & mm3/L \end{array}$

Cyanophyta (Blue green)

Aphanizomenonaceae	1936	Potentially toxic, taste & odour	129.71	0.201
Coccoid Blue Green Picoplankton	573460	Filter clogging?	1,089.57	0.258
Cuspidothrix issatschenkoi	6369		324.81	0.345
Merismopedia	2950		2.95	0.024
Microcystis	830	Potentially toxic, taste & odour	23.32	0.023
Planktolyngbya	3830	Filter clogging	38.30	0.306
Pseudanabaena	2435		19.48	0.024
Raphidiopsis raciborskii	694	Potentially toxic, taste & odour	26.23	0.020
Romeria	1106		17.69	0.007
Subtotal	593610		1,672.06	1.208

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	593600	1672.00	1.210
* Potentially Toxic Blue Green	3460	179.30	0.244

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