

REPORT Report no:

Supercedes Report No:

293491

Depth:

N/A

Chl

Chlorophyll a:

NA

NA

Microcystin equivalents:

Disclaimer: Samples analysed as

Date analysed:

30/10/2023

Lims No:

Date Sampled:

Address:

11/10/2023

Analyst:

Site:

Client:

Method: MA71CENT

Issued By: Sydney Water Laboratory Services

Laboratory Services rece Issued On : 31/10/2023

received.

TAXA

Cells/ mL Significance

ASU/ mL Biovolum mm3/L

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1041154	Filter clogging?	1,978.19	0.470
Non toxic Aphanizomenonaceae	937	Taste & Odour	38.41	0.041
Planktolyngbya	1475	Filter clogging	14.75	0.118
Pseudanabaena	973		7.78	0.009
Subtotal	1044539		2,039.13	0.638

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1045000	2039.00	0.638
* Potentially Toxic Blue Green	0	0.00	0.000

Comment

Debris present in the sample.

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

^{*}Taxa with potential to produce toxins.

Sydney Water Approved Signatory:



, Analyst



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Cyanophyta (Blue green)

Aphanizomenonaceae	139	Potentially toxic, taste & odour	9.31	0.014
Coccoid Blue Green Picoplankton	1311440	Filter clogging?	2,491.73	0.592
Dolichospermum	87	Potentially toxic, taste & odour	7.95	0.014
Dolichospermum cf planctonicum/smithii	2029	Taste & Odour	231.91	0.514
Dolichospermum circinale	6660	Potentially toxic, taste & odour	578.75	1.157
Merismopedia	5899		5.89	0.049
Non toxic Aphanizomenonaceae	3608	Taste & Odour	147.92	0.160
Pseudanabaena	1127		9.01	0.011
Subtotal	1330989		3,482.47	2.511

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1331000	3482.00	2.510
* Potentially Toxic Blue Green	6890	596.00	1.190

Comment:

Debris present in the sample.

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

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ASU/ mL

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	6477279	Filter clogging?	12,306.83	2.924
Dolichospermum cf planctonicum/smithii	3247	Taste & Odour	371.13	0.822
Dolichospermum circinale	2463	Potentially toxic, taste & odour	214.03	0.428
Merismopedia	1475		1.47	0.012
Non toxic Aphanizomenonaceae	765	Taste & Odour	31.36	0.034
Pseudanabaena	520		4.16	0.005
Spirulina	369		5.53	0.001
Subtotal	6486118		12,934.51	4.226

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	6486000	12930.00	4.230
* Potentially Toxic Blue Green	2460	214.00	0.428

Comment:

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

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Cells/ mL

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ASU/ mL

Biovolum mm3/L

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1297779	Filter clogging?	2,465.78	0.585
Dolichospermum cf planctonicum/smithii	624	Taste & Odour	71.32	0.158
Dolichospermum circinale	659	Potentially toxic, taste & odour	57.26	0.114
Merismopedia	1475		1.47	0.012
Non toxic Aphanizomenonaceae	520	Taste & Odour	21.32	0.023
Planktolyngbya	2212	Filter clogging	22.12	0.176
Pseudanabaena	173		1.38	0.001
Spirulina	553		8.29	0.002
Subtotal	1303995		2,648.94	1.071

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1304000	2649.00	1.070
* Potentially Toxic Blue Green	659	57.30	0.114

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

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Microcystin equivalents:

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

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1183017	Filter clogging?	2,247.73	0.534
Dolichospermum cf planctonicum/smithii	451	Taste & Odour	51.54	0.114
Dolichospermum circinale	1686	Potentially toxic, taste & odour	146.51	0.293
Merismopedia	737		0.73	0.006
Non toxic Aphanizomenonaceae	156	Taste & Odour	6.39	0.006
Pseudanabaena	1106		8.84	0.011
Subtotal	1187153		2,461.74	0.964

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1187000	2462.00	0.964
* Potentially Toxic Blue Green	1690	146.50	0.293

Comment:

Debris present in the sample.

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

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Microcystin equivalents: NA

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Cells/ mL

Significance

ASU/ mL

Biovolum mm3/L

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	798191	Filter clogging?	1,516.56	0.360
Dolichospermum	245	Potentially toxic, taste & odour	22.39	0.039
Dolichospermum circinale	1332	Potentially toxic, taste & odour	115.75	0.231
Merismopedia	49334		49.33	0.415
Non toxic Aphanizomenonaceae	4986	Taste & Odour	204.42	0.221
Pseudanabaena	3200		25.60	0.032
Spirulina	553		8.29	0.002
Subtotal	857841		1,942.34	1.300

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	857800	1942.00	1.300
* Potentially Toxic Blue Green	1580	138.10	0.270

Comment:

Debris present in the sample.

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ASU/ mL Biovolum mm3/L

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1249385	Filter clogging?	2,373.83	0.564
Merismopedia	4425		4.42	0.037
Non toxic Aphanizomenonaceae	1162	Taste & Odour	47.64	0.051
Pseudanabaena	156		1.24	0.001
Sphaerospermopsis aphanizomenoides	624		18.72	0.023
Subtotal	1255752		2,445.85	0.676

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1256000	2446.00	0.676
* Potentially Toxic Blue Green	0	0.00	0.000

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	586531	Filter clogging?	1,114.40	0.264
Dolichospermum	676	Potentially toxic, taste & odour	61.78	0.109
Dolichospermum circinale	5973	Potentially toxic, taste & odour	519.05	1.038
Non toxic Aphanizomenonaceae	208	Taste & Odour	8.52	0.009
Subtotal	593388		1,703.75	1.420

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	593400	1704.00	1.420
* Potentially Toxic Blue Green	6650	580.80	1.150

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