

REPORT

Report no: 289922 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 22/08/2023

Lims No: L23064343 Date Sampled: 26/07/2023 Analyst: [REDACTED]

Client ID: 236880 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as received.
 Laboratory Services
 Issued On : 24/08/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Coccooid Blue Green Picoplankton</i>	1273720	Filter clogging?	2,420.06	0.575
<i>Non toxic Aphanizomenonaceae</i>	347	Taste & Odour	14.22	0.015
<i>Pseudanabaena</i>	4978		39.82	0.049
Subtotal	1279045		2,474.10	0.639

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1279000	2474.00	0.639
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

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.

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

Phycology

Sydney Water Approved Signatory:

[REDACTED] Analyst

[REDACTED] Analyst

[REDACTED] 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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 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 22/08/2023

Lims No: L23064344 Date Sampled: 26/07/2023 Analyst: [REDACTED]

Client ID: 236881 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Laboratory Services
 Issued On : 24/08/2023 Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	1063222	Filter clogging?	2,020.12	0.480
<i>Merismopedia</i>	6637		6.63	0.055
Subtotal	1069859		2,026.75	0.535

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1070000	2027.00	0.535
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

Debris present in the sample.

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

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

Phycology

Sydney Water Approved Signatory:

[REDACTED] Analyst

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 Microcystin equivalents: NA
 Date analysed: 22/08/2023
 Analyst: [REDACTED]

Lims No: L23064345 Date Sampled: 26/07/2023

Client ID: 236882 Address: [REDACTED]
 Site: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 24/08/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Aphanizomenonaceae</i>	208	Potentially toxic, taste & odour	13.93	0.021
<i>Cocoid Blue Green Picoplankton</i>	900896	Filter clogging?	1,711.70	0.406
<i>Dolichospermum cf planctonicum/smithii</i>	2028	Taste & Odour	231.80	0.513
<i>Merismopedia</i>	2212		2.21	0.018
<i>Non toxic Aphanizomenonaceae</i>	278	Taste & Odour	11.39	0.012
<i>Pseudanabaena</i>	2950		23.60	0.029
<i>Sphaerospermopsis aphanizomenoides</i>	1681		50.43	0.063
<i>Spirulina</i>	922		13.83	0.003
Subtotal	911175		2,058.89	1.065

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	911200	2059.00	1.070
* Potentially Toxic Blue Green	208	13.90	0.021

Comment:

Debris present in the sample.

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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.

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

Phycology

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Report no: 289922 Depth : N/A
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 Microcystin equivalents: NA
 Date analysed: 18/08/2023

Lims No: L23064346 Date Sampled: 26/07/2023 Analyst: ██████████

Client ID: 236883 Address: ██████████
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 24/08/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Aphanizomenonaceae</i>	208	Potentially toxic, taste & odour	13.93	0.021
<i>Coccolid Blue Green Picoplankton</i>	205742	Filter clogging?	390.90	0.092
<i>Dolichospermum affine</i>	364		14.81	0.016
<i>Dolichospermum cf planctonicum/smithii</i>	382	Taste & Odour	43.66	0.096
<i>Merismopedia</i>	35396		35.39	0.298
<i>Pseudanabaena</i>	382		3.05	0.003
<i>Spirulina</i>	1475		22.12	0.005
Subtotal	243949		523.86	0.531

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	243900	523.90	0.531
* Potentially Toxic Blue Green	208	13.90	0.021

Comment:

Debris present in the sample.

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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:

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Report no: 289922 Depth : N/A
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 Microcystin equivalents: NA
 Date analysed: 18/08/2023

Lims No: L23064347 Date Sampled: 26/07/2023 Analyst: [REDACTED]

Client ID: 236884 Address: [REDACTED]

Site:
 Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as
 Laboratory Services received.
 Issued On : 24/08/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	793766	Filter clogging?	1,508.15	0.358
<i>Dolichospermum cf planctonicum/smithii</i>	173	Taste & Odour	19.77	0.043
Subtotal	793939		1,527.92	0.401

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	793900	1528.00	0.401
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

Debris present in the sample.

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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.

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

Phycology

Sydney Water Approved Signatory:

[REDACTED] Analyst

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 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 22/08/2023

Lims No: L23064348 Date Sampled: 26/07/2023 Analyst: [REDACTED]

Client ID: 236885 Address: [REDACTED]

Site:
 Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as
 Laboratory Services received.
 Issued On : 24/08/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Cocoid Blue Green Picoplankton</i>	1275158	Filter clogging?	2,422.80	0.575
<i>Dolichospermum cf planctonicum/smithii</i>	104	Taste & Odour	11.88	0.026
<i>Merismopedia</i>	1475		1.47	0.012
<i>Non toxic Aphanizomenonaceae</i>	1977	Taste & Odour	81.05	0.087
<i>Pseudanabaena</i>	1982		15.85	0.019
Subtotal	1280696		2,533.05	0.719

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1281000	2533.00	0.719
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

Debris present in the sample.

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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.

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

Phycology

Sydney Water Approved Signatory:

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Report no: 289922 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 18/08/2023

Lims No: L23064349 Date Sampled: 26/07/2023 Analyst: [REDACTED]

Client ID: 236886 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 24/08/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	1144855	Filter clogging?	2,175.22	0.516
Subtotal	1144855		2,175.22	0.516

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1145000	2175.00	0.516
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

Debris present in the sample.

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

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

Phycology

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[REDACTED] Analyst

[REDACTED] Analyst

[REDACTED] Analyst



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Report no: 289922 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 18/08/2023

Lims No: L23064350 Date Sampled: 26/07/2023 Analyst: [REDACTED]

Client ID: 236887 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 24/08/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Coccooid Blue Green Picoplankton</i>	1160120	Filter clogging?	2,204.22	0.523
Subtotal	1160120		2,204.22	0.523
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	1160000		2204.00	0.523
* Potentially Toxic Blue Green	0		0.00	0.000

Comment:

Debris present in the sample.

*Taxa with potential to produce toxins.

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

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

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