

Phycology

Sydney Water Approved Signatory:

██████████, Analyst

██████████, Supervisor



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

Report no: 287892

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 13/07/2023

Lims No: L23053900

Date Sampled: 27/06/2023

Analyst: [REDACTED]

Client ID: 235801

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
Laboratory Services
Issued On : 14/07/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Anabaenopsis</i>	760	Potentially toxic	52.44	0.090
<i>Cocoid Blue Green Picoplankton</i>	826176	Filter clogging?	1,569.73	0.373
<i>Merismopedia</i>	24335		24.33	0.204
<i>Microcystis</i>	277	Potentially toxic, taste & odour	7.78	0.007
<i>Planktolyngbya</i>	12887	Filter clogging	128.87	1.030
<i>Pseudanabaena</i>	2950		23.60	0.029
<i>Spirulina</i>	369		5.53	0.001
Subtotal	867754		1,812.28	1.734

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	867800	1812.00	1.730
* Potentially Toxic Blue Green	1040	60.20	0.097

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.

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

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REPORT

Report no: 287892 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/07/2023
 Analyst: [REDACTED]

Lims No: L23053901 Date Sampled: 27/06/2023

Client ID: 235802 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 14/07/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	2068039	Filter clogging?	3,929.27	0.933
Subtotal	2068039		3,929.27	0.933

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	2068000	3929.00	0.933
* 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.

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

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Sydney Water Approved Signatory:

[REDACTED], Analyst [REDACTED], Supervisor



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REPORT

Report no:

287892

Depth :

N/A

Supersedes Report No:

Chlorophyll a:

NA

Microcystin equivalents:

NA

Date analysed:

13/07/2023

Lims No: L23053902

Date Sampled:

27/06/2023

Analyst:

Client ID: 235803

Address:

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water

Laboratory Services

Issued On : 14/07/2023

Disclaimer: Samples analysed as received.
TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	737353	Filter clogging?	1,400.97	0.332
<i>Merismopedia</i>	5162		5.16	0.043
<i>Microcystis</i>	1141	Potentially toxic, taste & odour	32.06	0.031
<i>Pseudanabaena</i>	833		6.66	0.008
<i>Spirulina</i>	2452		36.78	0.009
<i>Synechococcus cf</i>	553		6.80	0.003
Subtotal	747494		1,488.43	0.426

	Cells/ mL	ASU/ mL	Biovolum mm3/L
Total Blue Green	747500	1488.00	0.426
* Potentially Toxic Blue Green	1140	32.10	0.031

Comment:
Debris present in the sample.

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

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REPORT

Report no: 287892

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 13/07/2023

Lims No: L23053903

Date Sampled: 27/06/2023

Analyst: [REDACTED]

Client ID: 235804

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
Laboratory Services
Issued On : 14/07/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	620434	Filter clogging?	1,178.82	0.280
<i>Planktolyngbya</i>	2212	Filter clogging	22.12	0.176
<i>Spirulina</i>	2065		30.97	0.007
Subtotal	624711		1,231.91	0.463

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	624700	1232.00	0.463
* 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.

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

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REPORT

Report no: 287892 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/07/2023
 Lims No: L23053904 Date Sampled: 27/06/2023 Analyst: [REDACTED]

Client ID: 235805 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as received.
 Laboratory Services
 Issued On : 14/07/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Cocoid Blue Green Picoplankton</i>	554729	Filter clogging?	1,053.98	0.250
<i>Merismopedia</i>	6637		6.63	0.055
Subtotal	561366		1,060.61	0.305
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	561400		1061.00	0.305
* 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*

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REPORT

Report no: 287892 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/07/2023
 Analyst: [REDACTED]

Lims No: L23053905 Date Sampled: 27/06/2023

Client ID: 235806 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 14/07/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Anabaenopsis</i>	208	Potentially toxic	14.35	0.024
<i>Cocoid Blue Green Picoplankton</i>	811354	Filter clogging?	1,541.57	0.366
<i>Merismopedia</i>	1475		1.47	0.012
<i>Spirulina</i>	1493		22.39	0.005
Subtotal	814530		1,579.78	0.407

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	814500	1580.00	0.407
* Potentially Toxic Blue Green	208	14.40	0.024

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.

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

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REPORT

Report no: 287892 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 13/07/2023
 Lims No: L23053906 Date Sampled: 27/06/2023 Analyst: [REDACTED]

Client ID: 235807 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as received.
 Laboratory Services
 Issued On : 14/07/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Coccoid Blue Green Picoplankton</i>	784622	Filter clogging?	1,490.78	0.354
<i>Spirulina</i>	737		11.05	0.002
Subtotal	785359		1,501.83	0.356
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	785400		1502.00	0.356
* 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.
 Coccoid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeothece*
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