

**REPORT**

Report no: 289923      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 14/08/2023  
 Lims No: L23064352      Date Sampled: 1/08/2023      Analyst: [REDACTED]

Client ID: 237170      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
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	1252372	Filter clogging?	2,379.50	0.565
<i>Pseudanabaena</i>	8849		70.79	0.088
<b>Subtotal</b>	1261221		2,450.29	0.653
	Cells/ mL		ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1261000		2450.00	0.653
* 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 400µm<sup>2</sup> 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:**



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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Report no: 289923      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 14/08/2023  
 Lims No: L23064354      Date Sampled: 1/08/2023      Analyst: [REDACTED]

Client ID: 237174      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	Biovolume mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	616065	Filter clogging?	1,170.52	0.278
<i>Merismopedia</i>	1475		1.47	0.012
<i>Planktolyngbya</i>	1106	Filter clogging	11.06	0.088
<i>Pseudanabaena</i>	1023		8.18	0.010
<i>Spirulina</i>	922		13.83	0.003
<b>Subtotal</b>	620591		1,205.06	0.391

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	620600	1205.00	0.391
* 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 400µm<sup>2</sup> 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 no: 289923      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 14/08/2023  
 Lims No: L23064356      Date Sampled: 1/08/2023      Analyst: [REDACTED]

Client ID: 237178      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	Biovolume mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	854825	Filter clogging?	1,624.16	0.385
<b>Subtotal</b>	854825		1,624.16	0.385
	Cells/ mL		ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	854800		1624.00	0.385
* 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*; *Gloeotheca* ; *Cyanodictyon*

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**REPORT**

Report no: 289923 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 14/08/2023  
 Analyst: [REDACTED]

Lims No: L23064358 Date Sampled: 1/08/2023

Client ID: 237182 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	Biovolume mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Coccoid Blue Green Picoplankton</i>	1728233	Filter clogging?	3,283.64	0.780
<i>Merismopedia</i>	4425		4.42	0.037
<i>Pseudanabaena</i>	9587		76.69	0.095
<b>Subtotal</b>	1742245		3,364.75	0.912

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1742000	3365.00	0.912
* 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.

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

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**REPORT**

Report no: 289923 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 22/08/2023  
 Analyst: [REDACTED]

Lims No: L23064360 Date Sampled: 1/08/2023

Client ID: 237186

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
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	1171513	Filter clogging?	2,225.87	0.528
<i>Non toxic Aphanizomenonaceae</i>	69	Taste & Odour	2.82	0.003
<i>Spirulina</i>	553		8.29	0.002
<b>Subtotal</b>	1172135		2,236.98	0.533

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1172000	2237.00	0.533
* 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 400µm<sup>2</sup> 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**

Report no: 289923 Depth : N/A  
 Supercedes Report No: Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 22/08/2023  
 Analyst: [REDACTED]

Lims No: L23064362 Date Sampled: 1/08/2023

Client ID: 237190 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
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	864614	Filter clogging?	1,642.76	0.390
<i>Dolichospermum cf planctonicum/smithii</i>	798	Taste & Odour	91.21	0.202
<i>Merismopedia</i>	2950		2.95	0.024
<i>Non toxic Aphanizomenonaceae</i>	208	Taste & Odour	8.52	0.009
<i>Pseudanabaena</i>	1475		11.80	0.014
<i>Spirulina</i>	1327		19.90	0.004
<b>Subtotal</b>	871372		1,777.14	0.643

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	871400	1777.00	0.643
* 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 400µm<sup>2</sup> 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**

*Report no:* 289923 *Depth :* N/A  
*Supercedes Report No:* *Chlorophyll a:* NA  
*Microcystin equivalents:* NA  
*Date analysed:* 22/08/2023  
*Analyst:* [REDACTED]

*Lims No:* L23064364 *Date Sampled:* 1/08/2023

*Client ID:* 237194

*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
<u><b>Cyanophyta (Blue green)</b></u>				
<i>Aphanizomenonaceae</i>	139	Potentially toxic, taste & odour	9.31	0.014
<i>Coccooid Blue Green Picoplankton</i>	761799	Filter clogging?	1,447.41	0.343
<i>Dolichospermum</i>	798	Potentially toxic, taste & odour	72.93	0.129
<i>Dolichospermum affine</i>	451		18.35	0.020
<i>Pseudanabaena</i>	1106		8.84	0.011
<i>Spirulina</i>	885		13.27	0.003
<b>Subtotal</b>	765178		1,570.11	0.520

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	765200	1570.00	0.520
* Potentially Toxic Blue Green	937	82.20	0.143

**Comment:**

Debris present in the sample.

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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*

**Phycology**

**Sydney Water Approved Signatory:**

[Redacted]

[Redacted]

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[Redacted]

**REPORT**

Report no: 289923      Depth : N/A  
 Supercedes Report No:      Chlorophyll a: NA  
    Microcystin equivalents: NA  
    Date analysed: 22/08/2023  
 Lims No: L23064366      Date Sampled: 1/08/2023      Analyst: [REDACTED]

Client ID: 237198      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	Biovolume mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Aphanizomenonaceae</i>	139	Potentially toxic, taste & odour	9.31	0.014
<i>Cocoid Blue Green Picoplankton</i>	1091428	Filter clogging?	2,073.71	0.492
<i>Non toxic Aphanizomenonaceae</i>	451	Taste & Odour	18.49	0.020
<i>Pseudanabaena</i>	6268		50.14	0.062
<i>Spirulina</i>	1106		16.59	0.004
<b>Subtotal</b>	1099392		2,168.24	0.592

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1099000	2168.00	0.592
* Potentially Toxic Blue Green	139	9.31	0.014

**Comment:**

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

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