

**REPORT**

Report no: 285314 Depth : N/A  
 Supercedes Report No: 285253 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038822 Date Sampled: 6/05/2023

Client ID: 232978 Address: [REDACTED]  
 Site: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED] Disclaimer: Samples analysed as received.  
 Commercial Client Representative  
 Issued On : 29/05/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	2944987	Filter clogging?	5,595.47	1.329
<i>Myxobaktron</i>	369		6.49	0.001
<i>Planktolynngbya</i>	10342	Filter clogging	103.42	0.827
<i>Sphaerospermopsis reniformis</i>	520	Taste & Odour	20.85	0.024
<i>Spirulina</i>	369		5.53	0.001
<i>Synechococcus cf</i>	940		11.56	0.006
<b>Subtotal</b>	2957527		5,743.32	2.188

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	2958000	5743.00	2.190
* 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:**

██████████, Supervisor



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**Accreditation No.:** 610 Biological testing  
Accredited for compliance with ISO/IEC 17025

**REPORT**

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 Microcystin equivalents: NA  
 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038823

Date Sampled: 6/05/2023

Client ID: 232980

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

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**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Anabaenopsis</i>	121	Potentially toxic	8.34	0.014
<i>Cocoid Blue Green Picoplankton</i>	3110908	Filter clogging?	5,910.72	1.404
<i>Merismopedia</i>	5899		5.89	0.049
<i>Myxobaktron</i>	737		12.97	0.003
<i>Planktolyngbya</i>	8849	Filter clogging	88.49	0.707
<i>Pseudanabaena</i>	486		3.88	0.004
<i>Spirulina</i>	737		11.05	0.002
<b>Subtotal</b>	3127737		6,041.34	2.183

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	3128000	6041.00	2.180
* Potentially Toxic Blue Green	121	8.34	0.014

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

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 Microcystin equivalents: NA  
 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038824 Date Sampled: 6/05/2023

Client ID: 232982 Address: [REDACTED]  
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**Disclaimer: Samples analysed as received.**

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Aphanizomenonaceae</i>	208	Potentially toxic, taste & odour	13.93	0.021
<i>Cocoid Blue Green Picoplankton</i>	2703849	Filter clogging?	5,137.31	1.220
<i>Dolichospermum affine</i>	364		14.81	0.016
<i>Planktolyngbya</i>	35396	Filter clogging	353.96	2.831
<i>Pseudanabaena</i>	416		3.32	0.004
<i>Spirulina</i>	737		11.05	0.002
<i>Synechococcus cf</i>	737		9.06	0.004
<b>Subtotal</b>	2741707		5,543.44	4.098

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	2742000	5543.00	4.100
<b>* Potentially Toxic Blue Green</b>	208	13.90	0.021

**Comment:**

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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: 285314      Depth : N/A  
 Supercedes Report No: 285253      Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 26/05/2023  
 Analyst: [REDACTED]

Lims No: L23038825      Date Sampled: 6/05/2023

Client ID: 232984

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

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**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Cocoid Blue Green Picoplankton</i>	2044810	Filter clogging?	3,885.13	0.923
<i>Pseudanabaena</i>	588		4.70	0.005
<i>Raphidiopsis raciborskii</i>	173	Potentially toxic, taste & odour	6.53	0.005
<i>Spirulina</i>	1475		22.12	0.005
<i>Synechococcus cf</i>	2212		27.20	0.014
<b>Subtotal</b>	2049258		3,945.68	0.952

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	2049000	3946.00	0.952
<b>* Potentially Toxic Blue Green</b>	173	6.53	0.005

**Comment:**

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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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 Microcystin equivalents: NA  
 Date analysed: 26/05/2023  
 Analyst: [REDACTED]

Lims No: L23038826

Date Sampled: 6/05/2023

Client ID: 232986

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

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**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b>Cyanophyta (Blue green)</b>				
<i>Cocoid Blue Green Picoplankton</i>	793379	Filter clogging?	1,507.42	0.358
<i>Planktolyngbya</i>	5531	Filter clogging	55.31	0.442
<i>Sphaerospermopsis reniformis</i>	486	Taste & Odour	19.48	0.022
<b>Subtotal</b>	799396		1,582.21	0.822

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	799400	1582.00	0.822
* Potentially Toxic Blue Green	0	0.00	0.000

**Comment:**

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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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 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038827 Date Sampled: 6/05/2023

Client ID: 232988 Address: [REDACTED]  
 Site: [REDACTED]

Client: Department of Planning and Environment

Method: MA71CENT Issued By: [REDACTED] Disclaimer: Samples analysed as received.  
 Commercial Client Representative  
 Issued On : 29/05/2023

**TAXA**

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<b><u>Cyanophyta (Blue green)</u></b>				
<i>Anagnostidinema</i>	624		18.84	0.011
<i>Cocoid Blue Green Picoplankton</i>	1817609	Filter clogging?	3,453.45	0.820
<i>Dolichospermum affine</i>	87		3.54	0.004
<i>Planktolyngbya</i>	35396	Filter clogging	353.96	2.831
<i>Pseudanabaena</i>	16223		129.78	0.162
<i>Sphaerospermopsis reniformis</i>	416	Taste & Odour	16.68	0.019
<i>Spirulina</i>	2212		33.18	0.008
<i>Synechococcus cf</i>	2876		35.37	0.019
<b>Subtotal</b>	<b>1875443</b>		<b>4,044.80</b>	<b>3.874</b>

	Cells/ mL	ASU/ mL	Biovolum mm3/L
<b>Total Blue Green</b>	<b>1875000</b>	<b>4045.00</b>	<b>3.870</b>
<b>* Potentially Toxic Blue Green</b>	<b>0</b>	<b>0.00</b>	<b>0.000</b>

**Comment:**  
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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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 Supercedes Report No: 285253 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038828

Date Sampled: 6/05/2023

Client ID: 232990

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

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>	2381298	Filter clogging?	4,524.46	1.075
<i>Merismopedia</i>	5899		5.89	0.049
<i>Myxobaktron</i>	737		12.97	0.003
<i>Planktolyngbya</i>	18436	Filter clogging	184.36	1.474
<i>Pseudanabaena</i>	486		3.88	0.004
<i>Romeria</i>	1475		23.60	0.009
<i>Synechococcus cf</i>	1475		18.14	0.009
<b>Subtotal</b>	2409806		4,773.30	2.623

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	2410000	4773.00	2.620
* Potentially Toxic Blue Green	0	0.00	0.000

**Comment:**

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

**Phycology**

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**REPORT**

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 Supercedes Report No: 285253 Chlorophyll a: NA  
 Microcystin equivalents: NA  
 Date analysed: 25/05/2023  
 Analyst: [REDACTED]

Lims No: L23038829

Date Sampled: 6/05/2023

Client ID: 232992

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : [REDACTED]  
 Commercial Client Representative  
 Issued On : 29/05/2023

**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>	1039550	Filter clogging?	1,975.14	0.469
<b>Subtotal</b>	1039550		1,975.14	0.469

	Cells/ mL	ASU/ mL	Biovolume mm3/L
<b>Total Blue Green</b>	1040000	1975.00	0.469
* Potentially Toxic Blue Green	0	0.00	0.000

**Comment:**

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

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