

REPORT NO.

Address:

292001

Depth: N/A

Supercedes Report No:

Chlorophyll a:

Microcystin equivalents: NA

Date analysed:

3/10/2023

NA

Page 1 of 2

Lims No:

L23075526 Date Sampled: 13/09/2023 Analyst:

Client ID: 238533 Site:

**Department of Planning and Environment** Client:

Method: **MA71CENT** Issued By: Sydney Water

Laboratory Services

Issued On: 04/10/2023

received.

**TAXA** 

Cells/ **Significance** ASU/ Biovolum mL mLmm3/L

Disclaimer: Samples analysed as

ASU/

Biovolume

### Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1251044	Filter clogging?	2,376.98	0.564
Dolichospermum circinale	4960	Potentially toxic, taste & odour	431.02	0.862
Merismopedia	1659		1.65	0.013
Non toxic Aphanizomenonaceae	13875	Taste & Odour	568.87	0.617
Planktolyngbya	7024	Filter clogging	70.24	0.561
Pseudanabaena	6803		54.42	0.068
Subtotal	1285365		3,503.18	2.685

	mL	mL	mm3/L
Total Blue Green	1285000	3503.00	2.690
* Potentially Toxic Blue Green	4960	431.00	0.862

### **Comment:**

# Debris present in the sample.

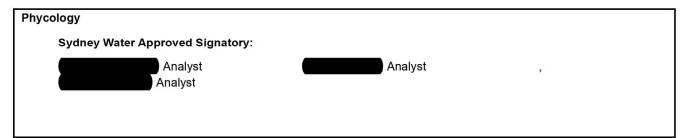
ASU: One ASU (Area Standard Unit) equals 400 µm² of algal cells (as cross sectional area)

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

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

Cells/

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



L23075528

# PHYTOPLANKTON ANALYSIS

REPORT Report no.

Date Sampled:

292001

13/09/2023

Depth: N/A

Page 1 of 2

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Analyst:

Date analysed:

Client ID: 238535

Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services

Issued On: 04/10/2023

Disclaimer: Samples analysed as

ACTI

3/10/2023

received.

**TAXA** 

Cells/ Significance ASU/ Biovolum mL mm3/L

# Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1443513	Filter clogging?	2,742.67	0.651
Merismopedia	4425		4.42	0.037
Non toxic Aphanizomenonaceae	520	Taste & Odour	21.32	0.023
Planktolyngbya	2950	Filter clogging	29.50	0.236
Subtotal	1451408		2,797.91	0.947

	cells/ mL	ASU/ mL	mm3/L
Total Blue Green	1451000	2798.00	0.947
* Potentially Toxic Blue Green	0	0.00	0.000

#### **Comment:**

# Debris present in the sample.

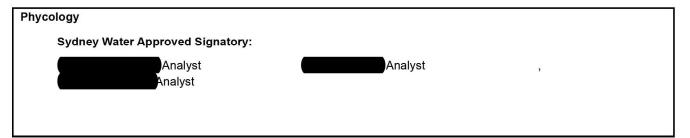
ASU : One ASU (Area Standard Unit) equals  $400\mu m^2$  of algal cells (as cross sectional area)

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

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

C-11-/

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



REPORT NO.

292001

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Disclaimer: Samples analysed as

Analyst: Lims No: L23075530 Date Sampled: 13/09/2023

**Client ID: 238537** 

Address:

Site:

**Department of Planning and Environment** Client:

Method: **MA71CENT** Issued By: Sydney Water

> Laboratory Services Issued On: 04/10/2023

received.

Date analysed:

**TAXA** 

Cells/ mL

**Significance** 

ASU/ mL

30/09/2023

Biovolum mm3/L

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	219320	Filter clogging?	416.70	0.099
Dolichospermum	572	Potentially toxic, taste & odour	52.28	0.092
Subtotal	219892		468.98	0.191

	Cells/ mL	ASU/ mL	mm3/L
Total Blue Green	219900	469.00	0.191
* Potentially Toxic Blue Green	572	52.30	0.092

# **Comment:**

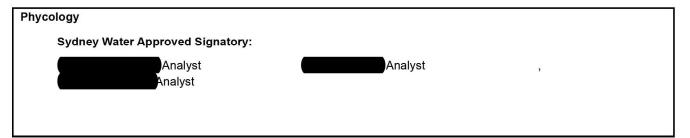
# Debris present in the sample.

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

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



REPORT Report no.

Address:

292001

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Disclaimer: Samples analysed as

0.00

Date analysed:

3/10/2023

Client ID: 238539

**L23075532** *Date Sampled:* 

**13/09/2023** *Analyst:* 

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services received.

Issued On: 04/10/2023

**TAXA** 

Cells/ mL **Significance** 

ASU/ mL

Biovolum mm3/L

0.000

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1610540	Filter clogging?	3,060.02	0.727
Merismopedia	1475		1.47	0.012
Non toxic Aphanizomenonaceae	1493	Taste & Odour	61.21	0.066
Subtotal	1613508		3,122.70	0.805

	Cells/	ASU/	Biovolume
	mL	mL	mm3/L
Total Blue Green	1614000	3123.00	0.805

#### **Comment:**

# Debris present in the sample.

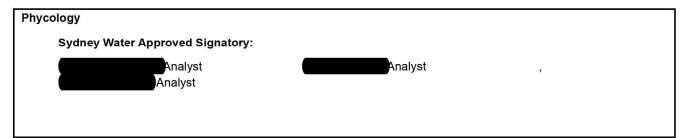
\* Potentially Toxic Blue Green

 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$ 

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

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

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



REPORT

292001

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Disclaimer: Samples analysed as

Date analysed:

Lims No: L23075534 Date Sampled: 13/09/2023 Analyst:

Client ID: 238541

Address:

Site:

Client: **Department of Planning and Environment** 

Method: **MA71CENT** Issued By: Sydney Water

> Laboratory Services Issued On: 04/10/2023

received.

**TAXA** 

Cells/ mL

**Significance** 

ASU/ mL

3/10/2023

Biovolum mm3/L

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1299936	Filter clogging?	2,469.87	0.586
Merismopedia	5715		5.71	0.048
Non toxic Aphanizomenonaceae	2341	Taste & Odour	95.98	0.104
Planktolyngbya	4425	Filter clogging	44.25	0.354
Pseudanabaena	1700		13.60	0.017
Spirulina	737		11.05	0.002
Synechococcus cf	369		4.53	0.002
Subtotal	1315223		2,644.99	1.113

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1315000	2645.00	1.110
* Potentially Toxic Blue Green	0	0.00	0.000

#### **Comment:**

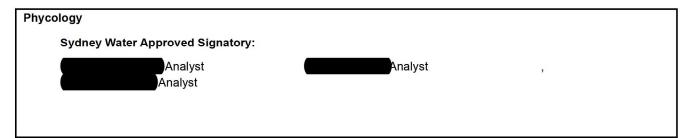
# Debris present in the sample.

ASU: One ASU (Area Standard Unit) equals 400 µm<sup>2</sup> 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

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



L23075536

# PHYTOPLANKTON ANALYSIS

REPORT

Date Sampled:

292001

13/09/2023

Depth: N/A

Page 1 of 2

Biovolum

mm3/L

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Disclaimer: Samples analysed as

30/09/2023

Analyst:

Date analysed:

Client ID: 238543

3 Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services received.

Issued On: 04/10/2023

**TAXA** 

Cells/ Significance ASU/ mL mL

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1963467	Filter clogging?	3,730.58	0.886
Dolichospermum affine	1077		43.83	0.050
Non toxic Aphanizomenonaceae	642	Taste & Odour	26.32	0.028
Subtotal	1965186		3,800.73	0.964

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1965000	3801.00	0.964
* Potentially Toxic Blue Green	0	0.00	0.000

#### **Comment:**

# Debris present in the sample.

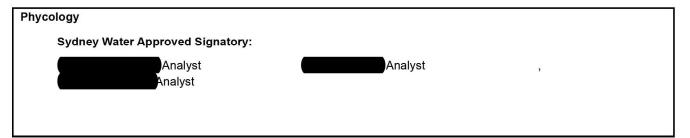
 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$ 

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

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

(PO Box 73) West Rvde NSW 2114

<sup>\*</sup>Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



REPORT

Address:

292001

13/09/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a:

Microcystin equivalents: NA

Date analysed:

3/10/2023

NA

Page 1 of 2

Lims No: L230

L23075538 Date Sampled:

Analyst:

Client ID: 238545 *Site:* 

Client:

Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Issued By: Sydney Water Disclaimer: Samples analysed as Laboratory Services received

ratory Services received.

Issued On : 04/10/2023

**TAXA** 

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

### Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1225327	Filter clogging?		2,328.12	0.553
Non toxic Aphanizomenonaceae	1582	Taste & Odour		64.86	0.070
Pseudanabaena	4425			35.40	0.044
Subtotal	1231334			2,428.38	0.667
	Cells/		ASU/	Biov	olume

	mL	mL	mm3/L
Total Blue Green	1231000	2428.00	0.667
* Potentially Toxic Blue Green	0	0.00	0.000

#### **Comment:**

#### Debris present in the sample.

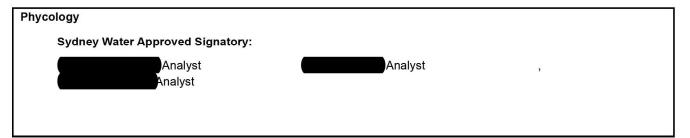
 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$ 

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

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

(PO Box 73) West Ryde NSW 2114

<sup>\*</sup>Taxa with potential to produce toxins.





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Accreditation No.: 610 Biological testing



L23075540

# PHYTOPLANKTON ANALYSIS

REPORT

Date Sampled:

292001

13/09/2023

Depth: N/A

Page 1 of 2

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

3/10/2023

Analyst:

Date analysed:

Client ID: 238547

7 Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services re

Issued On: 04/10/2023

received.

**TAXA** 

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

Disclaimer: Samples analysed as

### Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1257847	Filter clogging?	2,389.90	0.567
Dolichospermum cf planctonicum/smithii	156	Taste & Odour	17.83	0.039
Non toxic Aphanizomenonaceae	364	Taste & Odour	14.92	0.016
Planktolyngbya	4978	Filter clogging	49.78	0.398
Pseudanabaena	3503		28.02	0.035
Subtotal	1266848		2,500.45	1.055

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1267000	2500.00	1.060
* Potentially Toxic Blue Green	0	0.00	0.000

#### **Comment:**

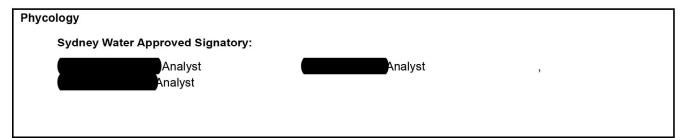
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Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

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

<sup>\*</sup>Taxa with potential to produce toxins.





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