

REPORT

289922

Depth: N/A

Page 1 of 2

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

Lims No: L23064343 Date Sampled: 26/07/2023 Analyst:

Client ID: 236880

Address:

Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services

Issued On : 24/08/2023

Disclaimer: Samples analysed as

22/08/2023

ASU/

mL

Biovolum

mm3/L

received.

TAXA

Cells/ Significance mL

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1273720	Filter clogging?	2,420.06	0.575
Non toxic Aphanizomenonaceae	347	Taste & Odour	14.22	0.015
Pseudanabaena	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.

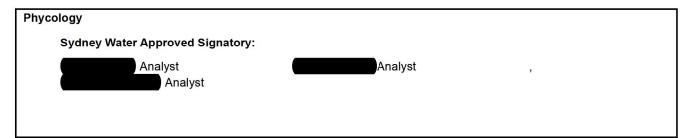
 $ASU: One\ ASU\ (Area\ Standard\ Unit)\ equals\ 400\mu m^2\ of\ algal\ cells\ (as\ cross\ sectional\ area)$

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

^{*}Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



L23064344

PHYTOPLANKTON ANALYSIS

REPORT

Date Sampled:

289922

26/07/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Analyst:

Date analysed:

Client ID: 236881

Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Laboratory Services

Issued On: 24/08/2023

Disclaimer: Samples analysed as

ASU/

22/08/2023

received.

TAXA

Cells/ mL

Cells/

Significance

ASU/ mL

Biovolum mm3/L

Biovolume

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1063222	Filter clogging?	2,020.12	0.480
Merismopedia	6637		6.63	0.055

Subtotal 2,026.75 0.535

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

Comment:

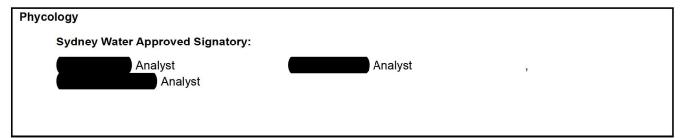
Debris present in the sample.

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

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

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

^{*}Taxa with potential to produce toxins.





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L23064345

PHYTOPLANKTON ANALYSIS

REPORT

Date Sampled:

289922

26/07/2023

Depth: N/A

Page 1 of 2

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

22/08/2023

Analyst:

Date analysed:

received.

Client ID: 236882

32 Address:

Site:

Lims No:

Client: Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water Disclaimer: Samples analysed as

Laboratory Services

Issued On: 24/08/2023

TAXA

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

Cyanophyta (Blue green)

Aphanizomenonaceae	208	Potentially toxic, taste & odour	13.93	0.021
Coccoid Blue Green Picoplankton	900896	Filter clogging?	1,711.70	0.406
Dolichospermum cf planctonicum/smithii	2028	Taste & Odour	231.80	0.513
Merismopedia	2212		2.21	0.018
Non toxic Aphanizomenonaceae	278	Taste & Odour	11.39	0.012
Pseudanabaena	2950		23.60	0.029
Sphaerospermopsis aphanizomenoides	1681		50.43	0.063
Spirulina	922		13.83	0.003
Subtotal	911175		2,058.89	1.065

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

Comment:

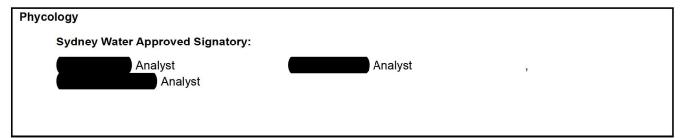
Debris present in the sample.

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

^{*}Taxa with potential to produce toxins.





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REPORT

289922

26/07/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

18/08/2023

Page 1 of 2

Lims No:

L23064346 Date Sampled: Analyst:

Client ID: 236883 Site:

Address:

Client: **Department of Planning and Environment** Method:

MA71CENT

Issued By: Sydney Water

Disclaimer: Samples analysed as

received.

Issued On: 24/08/2023

Laboratory Services

TAXA

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

Cyanophyta (Blue green)

Aphanizomenonaceae	208	Potentially toxic, taste & odour	13.93	0.021
Coccoid Blue Green Picoplankton	205742	Filter clogging?	390.90	0.092
Dolichospermum affine	364		14.81	0.016
Dolichospermum cf planctonicum/smithii	382	Taste & Odour	43.66	0.096
Merismopedia	35396		35.39	0.298
Pseudanabaena	382		3.05	0.003
Spirulina	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:

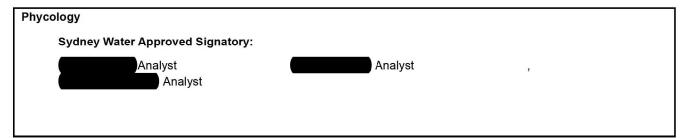
Debris present in the sample.

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

^{*}Taxa with potential to produce toxins.





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REPORT

Address:

289922

26/07/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a:

NA

Microcystin equivalents: NA

Date analysed:

18/08/2023

Lims No:

L23064347 Date Sampled: Analyst:

Client ID: 236884 Site:

Client:

Department of Planning and Environment

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

Disclaimer: Samples analysed as

received.

Issued On: 24/08/2023

Laboratory Services

TAXA

Cells/ mL

Significance

ASU/ mL

Biovolum mm3/L

0.358

0.043

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Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton Dolichospermum cf planctonicum/smithii

793766 Filter clogging? **Taste & Odour** 173

1,508.15

1,527.92 0.401

19.77

Cells/

793939

ASU/

Biovolume mm3/L

mL

0

mL

Total Blue Green 793900

1528.00

0.401

* Potentially Toxic Blue Green

0.00

0.000

Comment:

Subtotal

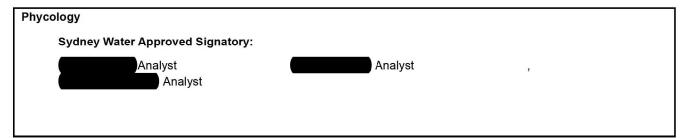
Debris present in the sample.

*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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REPORT

289922

26/07/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed:

Analyst:

22/08/2023

Page 1 of 2

L23064348 Date Sampled:

Client ID: 236885

Address:

Site:

Lims No:

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/ Significance ASU/ Biovolum mL mm3/L

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	1275158	Filter clogging?	2,422.80	0.575
Dolichospermum cf planctonicum/smithii	104	Taste & Odour	11.88	0.026
Merismopedia	1475		1.47	0.012
Non toxic Aphanizomenonaceae	1977	Taste & Odour	81.05	0.087
Pseudanabaena	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:

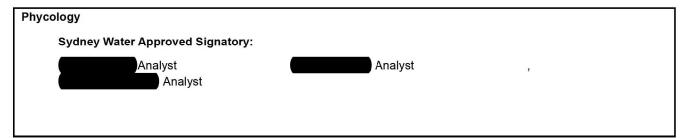
Debris present in the sample.

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

^{*}Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



REPORT NO.

289922

26/07/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a:

Microcystin equivalents: NA

Date analysed:

18/08/2023

NA

Lims No:

L23064349 Date Sampled: Analyst:

Site:

Client: Method:

Client ID: 236886

Address:

Department of Planning and Environment

MA71CENT

Issued By: Sydney Water

Disclaimer: Samples analysed as

received.

Issued On: 24/08/2023

Laboratory Services

TAXA

Cells/ mL

Significance

ASU/ mL

Biovolum mm3/L

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	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:

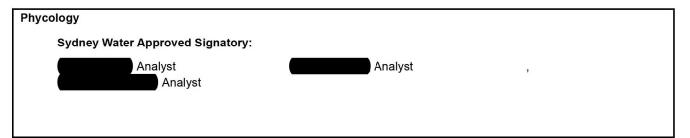
Debris present in the sample.

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

^{*}Taxa with potential to produce toxins.





Uncertainty estimates are available for all accredited test results.

Accreditation No.: 610 Biological testing



REPORT

Address:

289922

26/07/2023

Depth: N/A

Supercedes Report No:

Chlorophyll a:

Microcystin equivalents:

NA NA

Date analysed:

18/08/2023

Lims No: L230

L23064350 Date Sampled:

Analyst:

Client ID: 236887 Site:

Client:

Department of Planning and Environment

Method: MA71CENT Issued By: Sydney Water

Disclaimer: Samples analysed as

received.

Issued On: 24/08/2023

Laboratory Services

TAXA

Cells/ mL **Significance**

ASU/ mL

Biovolum mm3/L

Page 1 of 2

Cyanophyta (Blue green)

Coccoid Blue Green Picoplankton	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:

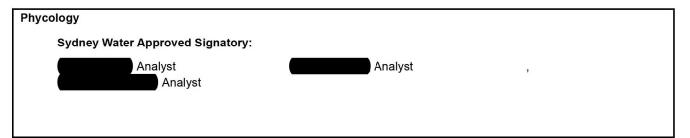
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