PHYTOPLANKTON ANALYSIS REPORT

Sydney WATER

Report no:	*288488*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**3/07/2023**
Lims No: **L23051617**	***Date Sampled:***	**15/06/2023**	*Analyst:* [redacted]
Client ID: 235396	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : [redacted]
Commercial Client Representative
Issued On : 26/07/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Anabaenopsis	**624**	**Potentially toxic**	**43.05**	**0.074**
Anagnostidinema	**4093**		**123.60**	**0.072**
Aphanizomenonaceae	**14805**	**Potentially toxic, taste & odour**	**991.93**	**1.539**
Coccoid Blue Green Picoplankton	**251252**	**Filter clogging?**	**477.37**	**0.113**
Cuspidothrix issatschenkoi	**10545**		**537.79**	**0.572**
Dolichospermum affine	**1388**		**56.49**	**0.064**
Microcystis	**2212**	**Potentially toxic, taste & odour**	**62.15**	**0.061**
Planktolyngbya	**10429**	**Filter clogging**	**104.29**	**0.834**
Pseudanabaena	**67633**		**541.06**	**0.676**
Raphidiopsis	**833**	**Potentially toxic**	**50.22**	**0.056**
Raphidiopsis raciborskii	**10281**	**Potentially toxic, taste & odour**	**388.62**	**0.301**
Sphaerospermopsis aphanizomenoides	**5682**		**170.46**	**0.214**
Spirulina	**1580**		**23.70**	**0.005**
Synechococcus cf	**1612**		**19.82**	**0.010**
Subtotal	**382969**		**3,590.55**	**4.591**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**383000**	**3591.00**	**4.590**
*** Potentially Toxic Blue Green**	**27920**	**1486.00**	**1.980**

Comment:
Debris present in the sample.

SWC, [redacted]
(PO Box 73) West Ryde NSW 2114

*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 ; Cyanodictyon*

Phycology

Sydney Water Approved Signatory:

[redacted], Analyst [redacted], Analyst ,

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

PHYTOPLANKTON ANALYSIS REPORT

Sydney WATER

Report no:	*288488*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**3/07/2023**
Lims No: **L23051618**	***Date Sampled:***	**15/06/2023**	*Analyst:* [redacted]
Client ID: 235397	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : [redacted]
Commercial Client Representative
Issued On : 26/07/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Aphanizomenonaceae	**416**	**Potentially toxic, taste & odour**	**27.87**	**0.043**
Coccoid Blue Green Picoplankton	**192690**	**Filter clogging?**	**366.11**	**0.087**
Cuspidothrix issatschenkoi	**347**		**17.69**	**0.018**
Merismopedia	**3318**		**3.31**	**0.027**
Non toxic Aphanizomenonaceae	**399**	**Taste & Odour**	**16.35**	**0.017**
Planktolyngbya	**902**	**Filter clogging**	**9.02**	**0.072**
Pseudanabaena	**2435**		**19.48**	**0.024**
Raphidiopsis raciborskii	**121**	**Potentially toxic, taste & odour**	**4.57**	**0.003**
Romeria	**553**		**8.84**	**0.003**
Subtotal	**201181**		**473.24**	**0.294**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**201200**	**473.20**	**0.294**
*** Potentially Toxic Blue Green**	**537**	**32.40**	**0.046**

Comment:
Debris present in the sample.

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

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Phycology

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PHYTOPLANKTON ANALYSIS REPORT

Sydney WATER

Report no:	*288488*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**3/07/2023**
Lims No: **L23051619**	***Date Sampled:***	**15/06/2023**	*Analyst:* [redacted]
Client ID: 235398	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : [redacted]
Commercial Client Representative
Issued On : 26/07/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Aphanizomenonaceae	**1936**	**Potentially toxic, taste & odour**	**129.71**	**0.201**
Coccoid Blue Green Picoplankton	**573460**	**Filter clogging?**	**1,089.57**	**0.258**
Cuspidothrix issatschenkoi	**6369**		**324.81**	**0.345**
Merismopedia	**2950**		**2.95**	**0.024**
Microcystis	**830**	**Potentially toxic, taste & odour**	**23.32**	**0.023**
Planktolyngbya	**3830**	**Filter clogging**	**38.30**	**0.306**
Pseudanabaena	**2435**		**19.48**	**0.024**
Raphidiopsis raciborskii	**694**	**Potentially toxic, taste & odour**	**26.23**	**0.020**
Romeria	**1106**		**17.69**	**0.007**
Subtotal	**593610**		**1,672.06**	**1.208**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**593600**	**1672.00**	**1.210**
*** Potentially Toxic Blue Green**	**3460**	**179.30**	**0.244**

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

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