PHYTOPLANKTON ANALYSIS REPORT

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046327**	***Date Sampled:***	**30/05/2023**	*Analyst:*	[redacted]**dy**
Client ID: 234388	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Anabaenopsis	**1811**	**Potentially toxic**	**124.95**	**0.214**
Coccoid Blue Green Picoplankton	**259169**	**Filter clogging?**	**492.42**	**0.117**
Planktolyngbya	**4793**	**Filter clogging**	**47.93**	**0.383**
Radiocystis	**1700**	**Potentially toxic**	**52.36**	**0.052**
Spirulina	**1844**		**27.66**	**0.006**
Synechococcus cf	**369**		**4.53**	**0.002**
Subtotal	**269686**		**749.85**	**0.774**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**269700**	**749.90**	**0.774**
*** Potentially Toxic Blue Green**	**3510**	**177.30**	**0.266**

Comment:
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 ; Cyanodictyon*

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

Phycology

Sydney Water Approved Signatory:

[redacted], Analyst [redacted], Analyst ,
[redacted], Analyst

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

PHYTOPLANKTON ANALYSIS REPORT

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046328**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234389	***Address:***	**Building 1, 480 WEEROONA RD**	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

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TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Anabaena	**260**	**Taste & Odour**	**38.22**	**0.027**
Coccoid Blue Green Picoplankton	**1765399**	**Filter clogging?**	**3,354.25**	**0.797**
Microcystis	**830**	**Potentially toxic, taste & odour**	**23.32**	**0.023**
Subtotal	**1766489**		**3,415.79**	**0.847**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**1766000**	**3416.00**	**0.847**
*** Potentially Toxic Blue Green**	**830**	**23.30**	**0.023**

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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Phycology

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[redacted], Analyst [redacted], Analyst ,
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PHYTOPLANKTON ANALYSIS REPORT

Sydney WATER

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046329**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234390	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Anabaenopsis	**208**	**Potentially toxic**	**14.35**	**0.024**
Coccoid Blue Green Picoplankton	**3310456**	**Filter clogging?**	**6,289.86**	**1.494**
Merismopedia	**5899**		**5.89**	**0.049**
Synechococcus cf	**5899**		**72.55**	**0.039**
Subtotal	**3322462**		**6,382.65**	**1.606**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**3322000**	**6383.00**	**1.610**
*** Potentially Toxic Blue Green**	**208**	**14.40**	**0.024**

Comment:
Debris present in the sample.

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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*

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PHYTOPLANKTON ANALYSIS REPORT

Sydney WATER

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046330**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234391	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Anabaenopsis	**104**	**Potentially toxic**	**7.17**	**0.012**
Coccoid Blue Green Picoplankton	**231386**	**Filter clogging?**	**439.63**	**0.104**
Merismopedia	**2212**		**2.21**	**0.018**
Synechococcus cf	**369**		**4.53**	**0.002**
Subtotal	**234071**		**453.54**	**0.136**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**234100**	**453.50**	**0.136**
*** Potentially Toxic Blue Green**	**104**	**7.17**	**0.012**

Comment:

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 ; Cyanodictyon*

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(PO Box 73) West Ryde NSW 2114

Phycology

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PHYTOPLANKTON ANALYSIS REPORT

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046331**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234392	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Coccoid Blue Green Picoplankton	**1287989**	**Filter clogging?**	**2,447.17**	**0.581**
Merismopedia	**20574**		**20.57**	**0.173**
Subtotal	**1308563**		**2,467.74**	**0.754**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**1309000**	**2468.00**	**0.754**
*** 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 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*

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Phycology

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PHYTOPLANKTON ANALYSIS REPORT

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046332**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234393	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Coccoid Blue Green Picoplankton	**1915392**	**Filter clogging?**	**3,639.24**	**0.864**
Subtotal	**1915392**		**3,639.24**	**0.864**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**1915000**	**3639.00**	**0.864**
*** 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 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:

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Accredited for compliance with ISO/IEC 17025

PHYTOPLANKTON ANALYSIS REPORT

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046333**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234394	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Coccoid Blue Green Picoplankton	**392311**	**Filter clogging?**	**745.39**	**0.177**
Merismopedia	**11799**		**11.79**	**0.099**
Subtotal	**404110**		**757.18**	**0.276**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**404100**	**757.20**	**0.276**
*** 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 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*

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PHYTOPLANKTON ANALYSIS REPORT

Report no:	*286496*	*Depth :*	**N/A**
Supercedes Report No:		*Chlorophyll a:*	**NA**
		Microcystin equivalents:	**NA**
		Date analysed:	**19/06/2023**
Lims No: **L23046334**	***Date Sampled:***	**30/05/2023**	*Analyst:* [redacted]
Client ID: 234395	***Address:***	[redacted]	
Site:			

Client: **Department of Planning and Environment**

Method: **MA71CENT**

Issued By : Sydney Water Laboratory Services
Issued On : 20/06/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
Coccoid Blue Green Picoplankton	**1019419**	**Filter clogging?**	**1,936.89**	**0.460**
Merismopedia	**14822**		**14.82**	**0.124**
Subtotal	**1034241**		**1,951.71**	**0.584**

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	**1034000**	**1952.00**	**0.584**
*** 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 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*

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