

REPORT

Report no: 290781 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/09/2023

Lims No: L23069433 Date Sampled: 22/08/2023 Analyst: [REDACTED]

Client ID: 237644 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 08/09/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Aphanizomenonaceae</i>	763	Potentially toxic, taste & odour	51.12	0.079
<i>Cocoid Blue Green Picoplankton</i>	689678	Filter clogging?	1,310.38	0.311
<i>Merismopedia</i>	1475		1.47	0.012
<i>Myxobaktron</i>	369		6.49	0.001
Subtotal	692285		1,369.46	0.403
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	692300		1369.00	0.403
* Potentially Toxic Blue Green	763		51.10	0.079

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.

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

Phycology

Sydney Water Approved Signatory:

██████████ Analyst

██████████ 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

REPORT

Report no: 290781 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/09/2023
 Analyst: [REDACTED]

Lims No: L23069434 Date Sampled: 22/08/2023
 Client ID: 237645 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 08/09/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Coccooid Blue Green Picoplankton</i>	836408	Filter clogging?	1,589.17	0.377
Subtotal	836408		1,589.17	0.377

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	836400	1589.00	0.377
* 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.

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

Phycology

Sydney Water Approved Signatory:

Jane Whitten, Analyst

Brad Castelnuovo, 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

REPORT

Report no: 290781 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/09/2023
 Analyst: [REDACTED]

Lims No: L23069435 Date Sampled: 22/08/2023
 Client ID: 237646 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Disclaimer: Samples analysed as received.
 Laboratory Services
 Issued On : 08/09/2023

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Coccooid Blue Green Picoplankton</i>	500418	Filter clogging?	950.79	0.225
Subtotal	500418		950.79	0.225

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	500400	950.80	0.225
* 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.

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

Phycology

Sydney Water Approved Signatory:

Jane Whitten, Analyst

Brad Castelnuovo, 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

REPORT

Report no: 290781 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 5/09/2023
 Analyst: [REDACTED]

Lims No: L23069436

Date Sampled: 22/08/2023

Client ID: 237647

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
 Laboratory Services
 Issued On : 08/09/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Anabaena</i>	624	Taste & Odour	91.72	0.066
<i>Cocoid Blue Green Picoplankton</i>	1013556	Filter clogging?	1,925.75	0.457
<i>Pseudanabaena</i>	7743		61.94	0.077
Subtotal	1021923		2,079.41	0.600

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	1022000	2079.00	0.600
* 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.

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

Phycology

Sydney Water Approved Signatory:

██████████ Analyst

██████████ 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

REPORT

Report no: 290781

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 5/09/2023

Lims No: L23069437

Date Sampled: 22/08/2023

Analyst: [REDACTED]

Client ID: 237648

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
Laboratory Services
Issued On : 08/09/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Coccooid Blue Green Picoplankton</i>	734975	Filter clogging?	1,396.45	0.331
<i>Pseudanabaena</i>	5715		45.72	0.057
Subtotal	740690		1,442.17	0.388
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	740700		1442.00	0.388
* 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.

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

Phycology

Sydney Water Approved Signatory:

██████████ Analyst

██████████ 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

REPORT

Report no: 290781 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 1/09/2023

Lims No: L23069438 Date Sampled: 22/08/2023 Analyst: [REDACTED]

Client ID: 237649 Address: [REDACTED]

Site:
 Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water Laboratory Services
 Issued On : 08/09/2023 Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>				
<i>Anabaena</i>	347	Taste & Odour	51.00	0.036
<i>Cocoid Blue Green Picoplankton</i>	805270	Filter clogging?	1,530.01	0.363
<i>Merismopedia</i>	737		0.73	0.006
<i>Non toxic Aphanizomenonaceae</i>	555	Taste & Odour	22.75	0.024
<i>Pseudanabaena</i>	3134		25.07	0.031
<i>Romeria</i>	369		5.90	0.002
Subtotal	810412		1,635.46	0.462
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	810400		1635.00	0.462
* 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.

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

Phycology

Sydney Water Approved Signatory:

██████████ Analyst

██████████ 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

REPORT

Report no: 290781

Depth : N/A

Supersedes Report No:

Chlorophyll a: NA

Microcystin equivalents: NA

Date analysed: 6/09/2023

Lims No: L23069439

Date Sampled: 22/08/2023

Analyst: [REDACTED]

Client ID: 237650

Address: [REDACTED]

Site:

Client: Department of Planning and Environment

Method: MA71CENT

Issued By : Sydney Water
Laboratory Services
Issued On : 08/09/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Coccooid Blue Green Picoplankton</i>	452632	Filter clogging?	860.00	0.204
<i>Planktolyngbya</i>	2581	Filter clogging	25.81	0.206
<i>Pseudanabaena</i>	4978		39.82	0.049
Subtotal	460191		925.63	0.459

	Cells/ mL	ASU/ mL	Biovolume mm3/L
Total Blue Green	460200	925.60	0.459
* Potentially Toxic Blue Green	0	0.00	0.000

Comment:

Debris and cells resembling bacteria 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.

Coccooid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeotheca*; *Cyanodictyon*

Phycology

Sydney Water Approved Signatory:

██████████ Analyst

██████████ 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

REPORT

Report no: 290781 Depth : N/A
 Supercedes Report No: Chlorophyll a: NA
 Microcystin equivalents: NA
 Date analysed: 6/09/2023
 Lims No: L23069440 Date Sampled: 22/08/2023 Analyst: [REDACTED]

Client ID: 237651 Address: [REDACTED]
 Site:

Client: Department of Planning and Environment

Method: MA71CENT Issued By : Sydney Water
 Laboratory Services
 Issued On : 08/09/2023

Disclaimer: Samples analysed as received.

TAXA

	Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
Cyanophyta (Blue green)				
<i>Coccooid Blue Green Picoplankton</i>	638022	Filter clogging?	1,212.24	0.288
<i>Merismopedia</i>	12555		12.55	0.105
Subtotal	650577		1,224.79	0.393
	Cells/ mL		ASU/ mL	Biovolume mm3/L
Total Blue Green	650600		1225.00	0.393
* 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.
 Coccooid Blue Green Picoplankton: *Aphanocapsa*; *Aphanothece*; *Cyanogranis*; *Cyanonephron*; *Cyanocatena*; *Gloeocapsa*; *Gloeothece*
 ; *Cyanodictyon*

Phycology

Sydney Water Approved Signatory:

██████████ Analyst

██████████ 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