Sydney	PHYTOPLANKI	TON ANALYSI	S		Page 1 of 2
Sydney WATER	REPORT Report no:	285353	Depth :	N/A	
VVAITN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents	: NA	
			Date analysed:	29/05/2023	
Lims No: L23040731	Date Sampled:	10/05/2023	Analyst:		
Client ID: 233225 <i>Site:</i>	Address:				
Client: Department of Planni	ng and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydne Laboratory Servic Issued On : 30/05	ces	Disclaimer: Sam received.	ples analysed as	
ТАХА					
		Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis		36 Pote	ntially toxic	33.5	<b>0.05</b> 7
Coccoid Blue Green Picoplankton	61833	32 Filte	r clogging?	1,174.8	0.279
Cuspidothrix issatschenkoi	138	38		70.7	78 0.075
Planktolyngbya	368	87 Filte	r clogging	36.8	0.294
Pseudanabaena	73*	74		58.9	9 0.073
Raphidiopsis raciborskii	124	19 Pote	ntially toxic, taste & odour	47.2	0.036
Sphaerospermopsis reniformis	17	17 Taste	e & Odour	68.8	35 0.079
Spirulina	442	25		66.3	0.016
Subtotal	6386:	58		1,557.4	3 0.909
	Cel ml			ASU/ mL	Biovolume mm3/L
Total Blue Green	638700	)		1557.00	0.909
* Potentially Toxic Blue Green	1740	)		80.70	0.093

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> of algal cells (as cross sectional area)

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

Phycology

Sydney Water Approved Signatory:





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

, Supervisor

Sydney	PHYTOPLANKTON	ANALYSIS			Page 1 of 1
Sydney WATER	REPORT Report no:	285353	Depth :	N/A	
VVATEN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents.	NA	
			Date analysed:	29/05/2023	
Lims No: L23040733	Date Sampled:	10/05/2023	Analyst:		
Client ID: 233232 <i>Site:</i>	Address:				
Client: Department of P	lanning and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wa Laboratory Services Issued On : 30/05/2023		Disclaimer: Samp received.	oles analysed as	5
TAXA					
	Cells/ mL		Significance		SU/ Biovolum nL mm3/L
<u>Cvanophyta (Blue green)</u>					
Coccoid Blue Green Picoplan	akton 84067	Filter clo	ogging?		159.72 0.037
Subtotal	84067				0.037 0.037
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	84070			159.70	0.037
* Potentially Toxic Blue Gre	en O			0.00	0.000

### Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<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 ; Cyanodictyon

## Phycology

## Sydney Water Approved Signatory:

, Supervisor



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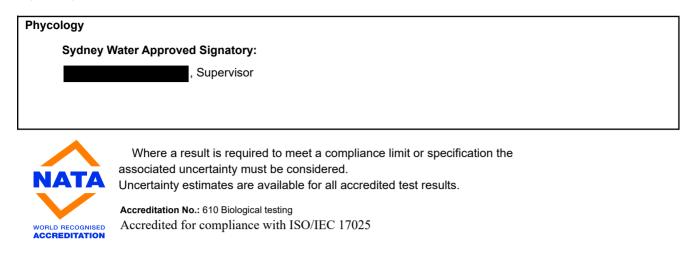
Sudnov	PHYTOPLANKTON	ANALYSIS			Page 1 of 2
Sydney WATER	REPORT Report no:	285353	Depth :	N/A	
VVAITN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents.	: NA	
			Date analysed:	29/05/2023	
Lims No: L23040735	Date Sampled:	10/05/2023	Analyst:		
Client ID: 233239 <i>Site:</i>	Address:				
Client: Department of Planning	and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wat Laboratory Services Issued On : 30/05/2023		Disclaimer: Samp received.	ples analysed as	
ТАХА					
	Cells/ mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis	555	Potentially	y toxic	38.2	9 0.065
Coccoid Blue Green Picoplankton	2607393	Filter clog	ging?	4,954.0	4 1.177
Cuspidothrix issatschenkoi	347			17.6	<sup>i9</sup> 0.018
Dolichospermum affine	1804			73.4	0.083
Merismopedia	14749			14.7	0.124
Myxobaktron	3761			66.1	9 0.018
Planktolyngbya	30972	Filter clog	ging	309.7	2 2.477
Pseudanabaena	13274			106.1	9 0.132
Raphidiopsis raciborskii	520	Potentially	y toxic, taste & odour	19.6	65 0.015
Sphaerospermopsis reniformis	104	Taste & O	dour	4.1	7 0.004
Spirulina	3687			55.3	0 0.013
Synechococcus cf	1475			18.1	4 0.009
Subtotal	2678641			5,677.5	4.135
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	2679000			5678.00	4.140
* Potentially Toxic Blue Green	1080			57.90	0.080

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> of algal cells (as cross sectional area)

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



Sydney	PHYTO	PLANKTON	ANALYSIS			P	Page 1 of 2
Sydney WATER	REPOR	Τ	285353	Depth :	N/A		
VVAIEn	Supercedes	Report No:		Chlorophyll a:	NA		
				Microcystin equivalen	ts: NA		
				Date analysed:	29/05/	2023	
Lims No: L23040737	Date Sampl	ed:	10/05/2023	Analyst:			
Client ID: 233246 Site:	Address:						
Client: Department of Plannin	g and Environ	ment					
<i>Method:</i> MA71CENT	Labo	d By : Sydney Wate ratory Services d On : 30/05/2023	er	Disclaimer: San received.	mples analys	ed as	
ТАХА							
		Cells/ mL		Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>							
Coccoid Blue Green Picoplankton		782705	Filter clog	gging?		1,487.13	0.353
Planktolyngbya		11799	Filter clog	gging		117.99	0.943
Subtotal		794504				1,605.12	1.296
		Cells/ mL			ASU/ mL	l	Biovolume mm3/L
Total Blue Green		794500			1605.00		1.300
* Potentially Toxic Blue Green		0			0.00		0.000

Debris present in the sample.

\*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm<sup>2</sup> of algal cells (as cross sectional area)

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

Phycology

## Sydney Water Approved Signatory:



WORLD RECOGNISED

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

, Supervisor

Sydney	PHYTOPLANK	TON ANALYSIS	5		Page 1 of 2
Sydney WATER	REPORT Report no:	285353	Depth :	N/A	
VAIEN	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents	: NA	
			Date analysed:	29/05/2023	
Lims No: L23040739	Date Sampled:	10/05/2023	Analyst:		
Client ID: 233253 <i>Site:</i>	Address:				
Client: Department of Pl	lanning and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydna Laboratory Servi Issued On : 30/03	ces	Disclaimer: Sam received.	ples analysed as	
ТАХА					
		Cells/ mL	Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>	1				
Anabaenopsis	22	12 Poten	tially toxic	152.6	0.262
Coccoid Blue Green Picoplan	1216 nkton	75 Filter	clogging?	231.1	8 0.054
Cuspidothrix issatschenkoi	11	10		56.0	0.060
Planktolyngbya	44	25 Filter	clogging	44.2	.5 0.354
Pseudanabaena	80	47		64.3	0.080
Raphidiopsis raciborskii	23	59 Poten	tially toxic, taste & odour	89.1	7 0.069
Sphaerospermopsis aphanizor	menoides 27	75		83.2	.104
Subtotal	1426	03		721.4	5 0.983
	Ce m			ASU/ mL	Biovolume mm3/L
Total Blue Green	14260	0		721.50	0.983

## Debris present in the sample.

\*Taxa with potential to produce toxins.

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.

Phycology

## Sydney Water Approved Signatory:



WORLD RECOGNISED

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, Supervisor

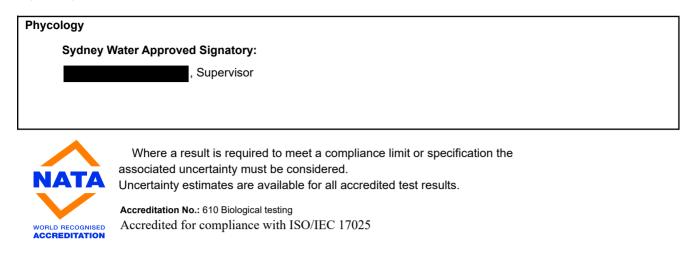
Sudnov	PHYTOPLANKTON	N ANALYSIS		1	Page 1 of 2
Sydney WATER	REPORT Report no:	285353	Depth :	N/A	
VV A I ~K	Supercedes Report No:		Chlorophyll a:	NA	
			Microcystin equivalents:	NA	
			Date analysed:	29/05/2023	
Lims No: L23040741	Date Sampled:	10/05/2023	Analyst:		1
Client ID: 233260 <i>Site:</i>	Address:				
Client: Department of Planning	and Environment				
<i>Method:</i> MA71CENT	Issued By : Sydney Wa Laboratory Services Issued On : 30/05/2023		Disclaimer: Samp received.	les analysed as	
ТАХА					
	Cells/ mL		Significance	ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>					
Anabaenopsis	902	Potentially	y toxic	62.23	0.106
Anagnostidinema	74333			2,244.85	1.310
Aphanizomenonaceae	1665	Potentially	y toxic, taste & odour	111.55	0.173
Coccoid Blue Green Picoplankton	1248611	Filter clog	ging?	2,372.36	0.563
Cuspidothrix issatschenkoi	4787			244.13	0.259
Dolichospermum affine	16223			660.27	0.753
Limnothrix	5030	Potentially	y toxic	50.30	0.063
Planktolyngbya	38346	Filter clog	ging	383.46	3.067
Pseudanabaena	54643			437.14	0.546
Raphidiopsis	2144			129.28	0.144
Raphidiopsis raciborskii	10392	Potentially	y toxic, taste & odour	392.81	0.304
Snowella	5689			70.54	0.044
Sphaerospermopsis aphanizomenoide	es 22290			668.70	0.839
Sphaerospermopsis reniformis	2081	Taste & O	dour	83.44	0.096
Subtotal	1487136			7,911.06	8.267
	Cells/ mL			ASU/ mL	Biovolume mm3/L
Total Blue Green	1487000			7911.00	8.270
* Potentially Toxic Blue Green	17990			616.90	0.646

Debris present in the sample.

\*Taxa with potential to produce toxins.

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



Sydney	PHYTOPLANKTON	ANALYSIS			I	Page 1 of 1
Sydney WATER	REPORT Report no:	285353	Depth :	N/A		
VVATEN	Supercedes Report No:		Chlorophyll a:	NA		
			Microcystin equivalents	: NA		
			Date analysed:	29/05/202	23	
Lims No: L23040743	Date Sampled:	10/05/2023	Analyst:			
Client ID: 233267 Site:	Address:					
Client: Department of Plan	nning and Environment					
<i>Method:</i> MA71CENT	Issued By : Sydney Wat Laboratory Services Issued On : 30/05/2023		Disclaimer: Sam received.	ples analysed	l as	
ТАХА						
	Cells/ mL		Significance		ASU/ mL	Biovolum mm3/L
<u>Cyanophyta (Blue green)</u>						
Coccoid Blue Green Picoplankt	on 1265977	Filter cl	ogging?		2,405.35	0.571
Subtotal	1265977				2,405.35	0.571
	Cells/ mL			ASU/ mL		Biovolume mm3/L
Total Blue Green	1266000			2405.00		0.571
* Potentially Toxic Blue Green	0			0.00		0.000

### Debris present in the sample.

\*Taxa with potential to produce toxins.

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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

## Phycology

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, Supervisor



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