

22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





## **ALGAL REPORT**

CLIENT:	Australian Laboratory Services Pty Ltd SA			
LABORATORY NO./BATCH NO.:	6781617 20-54272			
LOCALITY:	EM2020558_008			
SITE:	McGrath Flat North			
SAMPLE:	Surface			
DATE SAMPLED :	18/11/2020			
DATE ANALYSED :	23/11/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small Synechococcales dominated the sample. Current levels will impair water quality.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0333 1 : 1	Toxigenic (T) or Potentially toxic (P)	- 200x 20	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE							
Chaetoceros			13	0	629	200	0.12581
Nitzschia			2	0	97	400	0.03871
Pennales			1	0	48	300	0.01452
Pennales (small <20um)			3	0	145	251	0.03644
Pleurosigma			0	1	2	2000	0.00387
CHLOROPHYCEAE							
Ankistrodesmoideae			54	0	2613	132	0.34491
Chlamydomonads			1	0	48	250	0.01210
Chlorococcoids (<10um)			730	0	35324	60	2.11942
Planctonema			0	8	15	800	0.01239
CRYPTOPHYCEAE							
Cryptomonads			1	0	48	320	0.01548
CYANOPHYCEAE							
Planktolyngbya			27	0	1306	3.8	0.00496
Synechococcales small (iauv <20)			18880	0	913578	5.25	4.79628
DINOPHYCEAE							
Gymnodiniales			1	0	48	2000	0.09678
Gymnodiniales (small)			6	0	290	500	0.14517
Peridiniales			1	0	48	5000	0.24194
OTHER PHYTOPLANKTON		1					
Other small flagellates			14	0	677	80	0.05420

ANALYST: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

innis REVIEWED: Airsten Mudie (s ogist Biologist

REVIEWED: Kirsten Mudie (signatory) DATE: 24/11/2020

Page 1 of 2



22 Dalmore Drive Scoresby 3179 Tel. 03 8756 8183 Fax. 03 9763 1862





## ALGAL REPORT

CLIENT:	Australian Laboratory Services Pty Ltd SA			
LABORATORY NO./BATCH NO.:	6781617 20-54272			
LOCALITY:	EM2020558_008			
SITE:	McGrath Flat North			
SAMPLE:	Surface			
DATE SAMPLED :	18/11/2020			
DATE ANALYSED :	23/11/2020			
SAMPLED BY:	Sample analysed as received			

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small Synechococcales dominated the sample. Current levels will impair water

Sedgewick-Rafter Vol.(ml) Concentration	1.0333 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(cells/iliL)	(um3)	(111113/2)

TOTAL BGA	914884	4.80125
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	954916	8.06298

<sup>+</sup> The comments are discretionary and are for the purpose of helping to understand WQ implications. The comments are not accredited by NATA.

The biovolume values reported are those derived from documented information, including scientific literature. These are average values and not those measured on individual samples.

A Certificate of analysis will follow, linked by the above batch number. Independent algal reports are forwarded to clients expeditiously to facilitate operational decision making.

ANALYST: Adam Deliyiannis **Biologist** 

REVIEWED: Kirsten Mudie (signatory) **Biologist** 

Page 2 of 2

DATE: **24/11/2020** 

METHOD NO.: MB010/MW024VCA

<sup>\*</sup> P's and T's denote those cyanobacteria/blue-green algae (BGA) associated with toxin production in Australian waters. Overseas studies have shown other cyanobacteria to produce toxins. All contain lipopolysaccharides (LPS) in their cell wall and many have been found to produce β-N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.