

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. :	7171294 21-46438				
LOCALITY:	EM2119079-008				
SITE:	McGrath Flat North				
SAMPLE:	Surface				
DATE SAMPLED :	22/09/2021				
DATE ANALYSED :	28/09/2021				
SAMPLED BY:	Sample analysed as received				

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

	1.036 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	BACILLARIOPHYCEAE						
Pennales		1	0	48	300	0.01448	
Pennales (small <20um)		1	0	48	251	0.01211	
Pleurosigma		0	1	2	2000	0.00386	
CHLOROPHYCEAE							
Ankistrodesmoideae		52	0	2510	132	0.33127	
Chlorococcoids (<10um)		30	0	1448	60	0.08687	
CRYPTOPHYCEAE							
Cryptomonads		5	0	241	320	0.07722	
CYANOPHYCEAE							
Synechococcales small (iauv <20)		13920	0	671815	5.25	3.52703	
DINOPHYCEAE							
Gymnodiniales		1	0	48	2000	0.09653	
OTHER PHYTOPLANKTON	OTHER PHYTOPLANKTON						
Other small flagellates		17	0	820	80	0.06564	
Prasinophytes		5	0	241	100	0.02413	
Raphidophytes		3	0	145	7000	1.01351	
TOTAL BGA		671815				3.52703	
TOTAL TOXIGENIC BGA		0				0.00000	
TOTAL POTENTIALLY TOXIC BGA		0				0.00000	
TOTAL ALGAE				677366		5.25265	

ANALYST: Adam Deliyiannis
Biologist

METHOD NO.: MB010/MW024VCA

logist

REVIEWED: Louise Ungemach (signatory) DATE: 29/09/2021
Biologist

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Sedgewick-Rafter Vol.(ml) Concentration	1.036 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume (um3)	Biovolume (mm3/L)
Fields		*	20	500	(00110711112)	(uiiis)	(

⁺ 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: Louise Ungemach (signatory)
Biologist

DATE: 29/09/2021

METHOD NO.: MB010/MW024VCA Page 2 of 2

^{*} 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.