

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.:	7281147 21-59669				
LOCALITY:	EM2125413-006				
SITE:	McGrath Flat North				
SAMPLE:	Surface				
DATE SAMPLED :	13/12/2021				
DATE ANALYSED :	21/12/2021				
SAMPLED BY:	Sample analysed as received				

**COMMENTS: +** Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0046 Toxige (T) o Potenti toxic (	r ally	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)	
BACILLARIOPHYCEAE							
Naviculales		4	0	199	1400	0.27872	
Nitzschia		10	0	498	400	0.19908	
Pennales		1	0	50	300	0.01493	
Pennales (small <20um)		70	0	3484	251	0.87448	
CHLOROPHYCEAE							
Ankistrodesmoideae		1840	0	91579	132	12.08839	
Chlorococcoids (<10um)		2160	0	107505	60	6.45033	
CRYPTOPHYCEAE							
Cryptomonads		13	0	647	320	0.20705	
CYANOPHYCEAE							
Synechococcales small (iauv <20)		42000	0	2090384	5.25	10.97452	
DINOPHYCEAE	DINOPHYCEAE						
Gymnodiniales		22	0	1095	2000	2.18993	
Gymnodiniales (small)		34	0	1692	500	0.84611	
OTHER PHYTOPLANKTON							
Other algae		0	12	24	60	0.00143	
Other small flagellates		20	0	995	80	0.07963	
TOTAL BGA		SA .	2090384				
TOTAL TOXIGENIC BGA		<b>SA</b>	0				
TOTAL POTENTIALLY TOXIC BGA		SA .	0				
TOTAL ALGAE		Æ	2298152				

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 22/12/2021
Biologist Biologist

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Sedgewick-Rafter Vol.(ml) Concentration	1.0046 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)

<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: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis (signatory) DATE: 22/12/2021
Biologist Biologist

METHOD NO.: MB010/MW024VCA Page 2 of 2

<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.