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. :	7484451 22-53362
LOCALITY :	EM2212385-004
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	29/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0169 **Concentration** 1 : 1 **Magnification** **Fields**	**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						
Naviculales		1	0	49	1400	0.06884
Pennales		2	0	98	300	0.02950
Pennales (small <20um)		15	0	738	251	0.18512
CHLOROPHYCEAE						
Ankistrodesmoideae		6	0	295	132	0.03894
Chlamydomonads		1	0	49	250	0.01229
Chlorococcoids (<10um)		2	0	98	60	0.00590
Monoraphidium (small)		2	0	98	16	0.00157
CRYPTOPHYCEAE						
Cryptomonads		32	0	1573	320	0.50349
CYANOPHYCEAE						
Pseudanabaena		0	24	47	12.5	0.00059
Synechococcales small (iauv <20)		5	0	246	5.25	0.00129
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09834
EUGLENOPHYCEAE						
Euglena		0	1	2	7000	0.01377
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	443	80	0.03540

TOTAL BGA	**293**	**0.00188**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3785**	**0.99505**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Thao Nguyen (signatory)*** DATE: **07/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0169	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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.

**** 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.***

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Thao Nguyen (signatory)* DATE: **07/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA