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. :	6956320 21-18638
LOCALITY :	EM2106129_017
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	14/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA most numerous. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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						
Amphora		2	0	98	500	0.04902
Nitzschia		155	0	7599	400	3.03951
Pennales		1	0	49	300	0.01471
Pennales (small <20um)		2	0	98	251	0.02461
CHLOROPHYCEAE						
Ankistrodesmoideae		680	0	33337	132	4.40043
Carteria		2	0	98	300	0.02941
Chlamydomonads		8	0	392	250	0.09805
Chlorococcoids (<10um)		199	0	9756	60	0.58535
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01569
CYANOPHYCEAE						
Spirulina		0	650	1275	5.73	0.00730
Synechococcales small (iauv <20)		6760	0	331405	5.25	1.73988
DINOPHYCEAE						
Dinoflagellates		20	0	980	20000	19.60977
OTHER PHYTOPLANKTON						
Other small flagellates		120	0	5883	80	0.47063

TOTAL BGA	**332680**	**1.74718**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**391019**	**30.08437**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Karen Simonsen (signatory)*** DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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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: *Karen Simonsen (signatory)* DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA