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. :	7136730 21-41798
LOCALITY :	EM2116912-008
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	25/08/2021
DATE ANALYSED :	27/08/2021
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 impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0407 **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						
Nitzschia		7	0	336	400	0.13452
Pennales		1	0	48	300	0.01441
Pennales (small <20um)		3	0	144	251	0.03618
CHLOROPHYCEAE						
Ankistrodesmoideae		156	0	7495	132	0.98933
Chlamydomonads		0	3	6	250	0.00144
Chlorococcoids (<10um)		31	0	1489	60	0.08936
CHRYSOPHYCEAE						
Other Chrysophytes		2	0	96	200	0.01922
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01537
CYANOPHYCEAE						
Synechococcales small (iauv <20)		12580	0	604401	5.25	3.17310
DINOPHYCEAE						
Gymnodiniales (small)		2	0	96	500	0.04804
OTHER PHYTOPLANKTON						
Other small flagellates		120	0	5765	80	0.46123

TOTAL BGA	**604401**	**3.17310**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**619924**	**4.98222**

ANALYST: ***Adam Deliyiannis*** **Biologist**

REVIEWED: ***Karen Simonsen (signatory)*** **Biologist**

DATE: **27/08/2021**

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: ***Adam Deliyiannis*** REVIEWED: ***Karen Simonsen (signatory)*** DATE: **27/08/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA