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. :	7116659 21-39298
LOCALITY :	EM2115770-015
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0722 **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						
Chaetoceros		1	0	47	200	0.00933
Naviculales		1	0	47	1400	0.06529
Pennales		0	2	4	300	0.00112
CHLOROPHYCEAE						
Ankistrodesmoideae		10	0	466	132	0.06156
Chlamydomonads		1	0	47	250	0.01166
Chlorococcoids		1	0	47	500	0.02332
Chlorococcoids (<10um)		5	0	233	60	0.01399
Oocystis		7	0	326	300	0.09793
CYANOPHYCEAE						
Planktolyngbya		25	0	1166	3.8	0.00443
Synechococcales small (iauv <20)		145	0	6762	5.25	0.03550
DINOPHYCEAE						
Gymnodiniales		1	0	47	2000	0.09327
Gymnodiniales (small)		4	0	187	500	0.09327
Peridiniales		8	0	373	5000	1.86532
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	420	80	0.03358
Prasinophytes		5	0	233	100	0.02332
Raphidophytes		1	0	47	7000	0.32643

TOTAL BGA	**7928**	**0.03993**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**10452**	**2.75929**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **13/08/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0722	**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: *Adam Deliyiannis* **Biologist**

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

DATE: **13/08/2021**

METHOD NO.: MB010/MW024VCA