ALS Water
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. :	239335 22-48115
LOCALITY :	EM2210354-008
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	2/06/2022
DATE ANALYSED :	14/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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						
Centrales		1	0	49	200	0.00976
Naviculales		1	0	49	1400	0.06835
Pennales		3	0	146	300	0.04394
CHLOROPHYCEAE						
Chlorococcoids (<10um)		2	0	98	60	0.00586
Monoraphidium		1	0	49	900	0.04394
CYANOPHYCEAE						
Chroococcus (small cells)		2	0	98	12	0.00117
Synechococcales small (iauv <20)		27	0	1318	5.25	0.00692
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
Gymnodiniales (small)		3	0	146	500	0.07323
Peridiniales		0	2	4	5000	0.01953
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00391
Prasinophytes		2	0	98	100	0.00976

TOTAL BGA	**1416**	**0.00809**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2153**	**1.26273**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **14/06/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **14/06/2022**

Biologist **Biologist**

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