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. :	6933869 21-15798
LOCALITY :	EM2104707_006
SITE :	Morella Basin @ gauge
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	23/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A range of algae were present with current levels unlikely to inlfuence 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		2	0	98	1400	0.13767
Nitzschia		0	1	2	400	0.00079
Pennales		1	0	49	300	0.01475
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01229
Chlorococcoids (<10um)		17	0	836	60	0.05015
Crucigenia		4	0	197	30	0.00590
Oocystis		4	0	197	300	0.05900
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01573
CYANOPHYCEAE						
Planktolyngbya		11	0	541	3.8	0.00206
Pseudanabaena		0	6	12	12.5	0.00015
Synechococcales small (iauv <20)		45	0	2213	5.25	0.01162
DINOPHYCEAE						
Dinoflagellates		11	0	541	20000	10.81719
Gymnodiniales (small)		2	0	98	500	0.04917
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00393

TOTAL BGA	**2766**	**0.01382**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**4931**	**11.18040**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/03/2021**
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: *Adam Deliyiannis* DATE: **23/03/2021**

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