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. :	7366809 22-11365
LOCALITY :	EM2203091-015
SITE :	Morella Basin @ O/L
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0046 **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		644	0	32053	200	6.41051
Pennales		13	0	647	300	0.19411
CHLOROPHYCEAE						
Chlorococcoids (<10um)		4	0	199	60	0.01195
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01593
CYANOPHYCEAE						
Synechococcales small (iauv <20)		10	0	498	5.25	0.00261
DINOPHYCEAE						
Dinoflagellates		1	0	50	20000	0.99542
Gymnodiniales		1	0	50	2000	0.09954
Peridiniales		0	1	2	5000	0.00995
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	249	80	0.01991
Raphidophytes		1	0	50	7000	0.34840

TOTAL BGA	**498**	**0.00261**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**33848**	**8.10833**

+ 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: *Kirsten Mudie (signatory)* DATE: **28/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA