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. :	7171302 21-46438
LOCALITY :	EM2119079-016
SITE :	Morella Basin @Gauge
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0578 **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	47	200	0.00945
Naviculales		1	0	47	1400	0.06618
Pennales		5	0	236	300	0.07090
CHLOROPHYCEAE						
Ankistrodesmoideae		30	0	1418	132	0.18718
Chlorococcoids (<10um)		23	0	1087	60	0.06523
Oocystis		4	0	189	300	0.05672
Scenedesmus		4	0	189	250	0.04727
CYANOPHYCEAE						
Chroococcus (small cells)		2	0	95	12	0.00113
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	142	80	0.01134
Raphidophytes		1	0	47	7000	0.33088

TOTAL BGA	**95**	**0.00113**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3497**	**0.84628**

+ 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: *Louise Ungemach (signatory)* **Biologist**

DATE: **29/09/2021**

METHOD NO.: MB010/MW024VCA