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. :	7484456 22-53362
LOCALITY :	EM2212385-009
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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						
Pennales		2	0	97	300	0.02912
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01213
Chlorococcoids (<10um)		6	0	291	60	0.01747
Monoraphidium (small)		21	0	1019	16	0.01631
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01699
CYANOPHYCEAE						
Pseudanabaena		0	2	4	12.5	0.00005
Synechococcales small (iauv <20)		21	0	1019	5.25	0.00535
DINOPHYCEAE						
Gymnodiniales		46	0	2232	2000	4.46472
Peridiniales		1	0	49	5000	0.24265
OTHER PHYTOPLANKTON						
Other small flagellates		11	0	534	80	0.04271

TOTAL BGA	**1023**	**0.00540**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5343**	**4.84748**

+ 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: ***Louise Ungemach (signatory)*** DATE: **07/07/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA