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. :	7545136 22-57032
LOCALITY :	EM2213883-009
SITE :	Morella Creek @Gauge
SAMPLE :	Surface
DATE SAMPLED :	21/07/2022
DATE ANALYSED :	25/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence 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						
Centrales		1	0	49	200	0.00983
Chaetoceros		11	0	541	200	0.10817
Pennales		2	0	98	300	0.02950
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	49	132	0.00649
Chlorococcoids (<10um)		26	0	1278	60	0.07670
Monoraphidium (small)		4	0	197	16	0.00315
CHRYSOPHYCEAE						
Other Chrysophyceae		5	0	246	350	0.08605
CYANOPHYCEAE						
Planktolyngbya		20	0	983	3.8	0.00374
Synechococcales small (iauv <20)		99	0	4868	5.25	0.02556
DINOPHYCEAE						
Dinoflagellates		2	0	98	20000	1.96676
Gymnodiniales		1	0	49	2000	0.09834
Gymnodiniales (small)		12	0	590	500	0.29501
Peridiniales		2	0	98	5000	0.49169
OTHER PHYTOPLANKTON						
Other small flagellates		8	0	393	80	0.03147
Prasinophytes		2	0	98	100	0.00983

TOTAL BGA	**5851**	**0.02929**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**9635**	**3.24229**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **26/07/2022**
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: **26/07/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA