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. :	7136738 21-41798
LOCALITY :	EM2116912-016
SITE :	Morella Basin @Gauge
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current combined levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0018 **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						
Amphora		1	0	50	500	0.02496
Cocconeis		0	2	4	450	0.00180
Entomoneis		0	2	4	1000	0.00399
Naviculales		3	0	150	1400	0.20962
Pennales		2	0	100	300	0.02995
Pennales (small <20um)		7	0	349	251	0.08769
CHLOROPHYCEAE						
Ankistrodesmoideae		15	0	749	132	0.09882
Chlamydomonads		1	0	50	250	0.01248
Chlorococcoids (<10um)		35	0	1747	60	0.10481
Filamentous Green		6	0	299	386	0.11559
Oocystis		17	0	848	300	0.25454
Scenedesmus		0	4	8	250	0.00200
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01597
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	83	166	67	0.01110
Limnothrix/Geitlerinema/Anagnostidinema	P	14	0	699	17.5	0.01223
Planktolyngbya		165	0	8235	3.8	0.03129
Pseudanabaena		4	0	200	12.5	0.00250
Synechococcales small (iauv <20)		15	0	749	5.25	0.00393
DINOPHYCEAE						
Gymnodiniales		0	4	8	2000	0.01597
Peridiniales		12	0	599	5000	2.99461
OTHER PHYTOPLANKTON						

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **30/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Other small flagellates		5	0	250	80	0.01996
Prasinophytes		7	0	349	100	0.03494
Raphidophytes		1	0	50	7000	0.34937

TOTAL BGA	**10049**	**0.06105**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**865**	**0.02333**
TOTAL ALGAE	**15713**	**4.43812**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **30/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA