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. :	6781624 20-54272
LOCALITY :	EM2020558_015
SITE :	Morella Creek @ gauge
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA most numerous. Water quality is unlikely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0145 **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						
Cocconeis		1	0	49	450	0.02218
Entomoneis		0	1	2	1000	0.00197
Naviculales		2	0	99	1400	0.13800
Nitzschia		3	0	148	400	0.05914
Pennales		3	0	148	300	0.04436
Pennales (small <20um)		5	0	246	251	0.06185
CHLOROPHYCEAE						
Ankistrodesmoideae		32	0	1577	132	0.20818
Ankistrodesmus		1	0	49	132	0.00651
Chlorococcoids (<10um)		60	0	2957	60	0.17743
Colonial green (cells)		56	0	2760	100	0.27600
Lagerheimia		100	0	4929	500	2.46427
Oocystis		68	0	3351	300	1.00542
Planctonema		4	0	197	800	0.15771
Selenastrum		170	0	8379	250	2.09463
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01577
CYANOPHYCEAE						
Synechococcales small (iauv <20)		810	0	39921	5.25	0.20959
Synechococcales large (iauv 20-86)		2	0	99	54	0.00532
OTHER PHYTOPLANKTON						
Other small flagellates		20	0	986	80	0.07886

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **23/11/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

ALS Water
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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0145						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**40020**		**0.21491**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**65946**		**7.02718**

+ 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: *Adam Deliyiannis* DATE: **23/11/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA