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. :	6781626 20-54272
LOCALITY :	EM2020558_017
SITE :	1.8km West of Salt Creek
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 low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0199 **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		2	0	98	200	0.01961
Naviculales		1	0	49	1400	0.06863
Nitzschia		1	0	49	400	0.01961
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		5	0	245	251	0.06153
CHLOROPHYCEAE						
Ankistrodesmoideae		740	0	36278	132	4.78870
Chlorococcoids (<10um)		1230	0	60300	60	3.61800
CHRYSOPHYCEAE						
Other Chrysophyceae		10	0	490	350	0.17159
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00063
CYANOPHYCEAE						
Synechococcales small (iauv <20)		14440	0	707913	5.25	3.71654
DINOPHYCEAE						
Gymnodiniales		3	0	147	2000	0.29415
Gymnodiniales (small)		14	0	686	500	0.34317
Peridiniales		1	0	49	5000	0.24512
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	147	80	0.01177

TOTAL BGA	**707913**	**3.71654**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**806455**	**13.35963**

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