ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6722409 20-45935
LOCALITY :	EM2017172-007
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	30/09/2020
DATE ANALYSED :	8/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. High levels of greens and low biovolume BGA are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0069 **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						
Naviculales		0	1	2	1400	0.00278
Nitzschia		59	0	2930	400	1.17191
Pennales		0	4	8	300	0.00238
CHLOROPHYCEAE						
Ankistrodesmoideae		188	0	9336	132	1.23230
Chlamydomonads		3	0	149	250	0.03724
Chlorococcoids (<10um)		4640	0	230410	60	13.82461
CRYPTOPHYCEAE						
Cryptomonads		6	0	298	320	0.09534
CYANOPHYCEAE						
Planktolyngbya		41	0	2036	3.8	0.00774
Synechococcales small (iauv <20)		19200	0	953421	5.25	5.00546
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03973
Gymnodiniales (small)		15	0	745	500	0.37243
Peridiniales		5	0	248	5000	1.24143
OTHER PHYTOPLANKTON						
Other small flagellates		82	0	4072	80	0.32575
Prasinophytes		3	0	149	100	0.01490

TOTAL BGA	**955457**	**5.01320**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1203806**	**23.37401**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Karen Simonsen (signatory)* **Biologist**

DATE: **08/10/2020**

METHOD NO.: MB010/MW024CV

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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* **Biologist**

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