ALS Water

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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622184 20-32670
LOCALITY :	EM2011705_017
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	13/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens dominating the sample. Water quality will be impaired and this water may pose a health concern e.g. skin/gastric irritations.

Sedgewick-Rafter Vol.(ml) 1.0744 **Concentration** 1 : 1 **Magnification** **Fields**	**Toxigenic (T) or Potentially toxic (P)** *	- 200x 20	- 100x 500	**Total Cell Count (cells/mL)**
BACILLARIOPHYCEAE				
Entomoneis		1	0	47
Navicula		1	0	47
Nitzschia		15	0	698
Pennales		0	1	2
Pennales (small <20um)		3	0	140
CHLOROPHYCEAE				
Chlamydomonads		190	0	8842
Chlorococcoids		3040	0	141474
Filamentous Green		0	2	4
Monoraphidium		170	0	7911
CRYPTOPHYCEAE				
Cryptomonads		19	0	884
CYANOPHYCEAE				
Planktolyngbya		184	0	8563
Synechococcales small (iauv <20)		15380	0	715748
DINOPHYCEAE				
Gymnodiniales		6	0	279
Gymnodiniales (small)		16	0	745
Peridiniales		4	0	186
OTHER PHYTOPLANKTON				
Prasinophytes		72	0	3351

TOTAL BGA	**724311**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**0**
TOTAL ALGAE	**888921**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Sedgewick-Rafter Vol.(ml)	1.0744	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
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.

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: **13/07/2020**

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