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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6657124 20-37229
LOCALITY :	EM2013637_006
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	10/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0274 **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						
Navicula		3	0	146	1400	0.20440
Nitzschia		41	0	1995	400	0.79813
Pennales		1	0	49	300	0.01460
Pennales (small <20um)		4	0	195	251	0.04886
CHLOROPHYCEAE						
Ankistrodesmoideae		385	0	18737	132	2.47323
Chlorococcoids (<10um)		7120	0	346506	60	20.79034
Selenastrum		110	0	5353	250	1.33833
CHRYSOPHYCEAE						
Other Chrysophyceae		7	0	341	350	0.11923
CRYPTOPHYCEAE						
Cryptomonads		13	0	633	320	0.20245
CYANOPHYCEAE						
Planktolyngbya		32	0	1557	3.8	0.00592
Synechococcales small (iauv <20)		23680	0	1152424	5.25	6.05022
DINOPHYCEAE						
Gymnodiniales		14	0	681	2000	1.36266
Gymnodiniales (small)		5	0	243	500	0.12167
Peridiniales		1	0	49	5000	0.24333
OTHER PHYTOPLANKTON						
Other small flagellates		125	0	6083	80	0.48667
Prasinophytes		11	0	535	100	0.05353

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **11/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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)	1.0274						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1153981**		**6.05614**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1535527**		**34.31359**

+ 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: **11/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV