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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681711 20-40763
LOCALITY :	EM2014780_007
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with excessive levels of small greens and BGA dominating the sample. Water quality is likely 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						
Amphora		1	0	49	500	0.02464
Entomoneis		0	2	4	1000	0.00394
Nitzschia		125	0	6161	400	2.46427
Pennales		1	0	49	300	0.01479
Pennales (small <20um)		2	0	99	251	0.02474
CHLOROPHYCEAE						
Ankistrodesmoideae		970	0	47807	132	6.31050
Chlamydomonads		2	0	99	250	0.02464
Chlorococcoids (<10um)		10800	0	532282	60	31.93691
Selenastrum		36	0	1774	250	0.44357
CHRYSOPHYCEAE						
Other Chrysophyceae		5	0	246	350	0.08625
CRYPTOPHYCEAE						
Cryptomonads		9	0	444	320	0.14194
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	14	28	17.5	0.00048
Planktolyngbya		576	0	28388	3.8	0.10788
Pseudanabaena		0	18	35	12.5	0.00044
Synechococcales small (iauv <20)		26160	0	1289305	5.25	6.76885
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.98571
Gymnodiniales		4	0	197	2000	0.39428
Gymnodiniales (small)		5	0	246	500	0.12321
Peridiniales		3	0	148	5000	0.73928
OTHER PHYTOPLANKTON						

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **31/08/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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Other small flagellates		84	0	4140	80	0.33120
Prasinophytes		1	0	49	100	0.00493

TOTAL BGA	**1317756**	**6.87765**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**28**	**0.00048**
TOTAL ALGAE	**1911599**	**50.93246**

+ 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: **31/08/2020**
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