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. :	7056269 21-31436
LOCALITY :	EM2111820-007
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed, with the Synechococcales and chlorococcoid greens being most numerous. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0105 **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		2	0	99	500	0.04948
Centrales - (5-10um)		1	0	49	80	0.00396
Cocconeis		2	0	99	450	0.04453
Naviculales		0	1	2	1400	0.00277
Nitzschia		172	0	8511	400	3.40426
Pennales		1	0	49	300	0.01484
Pennales (small <20um)		1	0	49	251	0.01242
CHLOROPHYCEAE						
Ankistrodesmoideae		196	0	9698	132	1.28016
Chlamydomonads		1	0	49	250	0.01237
Chlorococcoids (<10um)		547	0	27066	60	1.62395
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01583
CYANOPHYCEAE						
Planktolyngbya		30	0	1484	3.8	0.00564
Pseudanabaena		0	42	83	12.5	0.00104
Synechococcales small (iauv <20)		23680	0	1171697	5.25	6.15141
DINOPHYCEAE						
Gymnodiniales (small)		18	0	891	500	0.44532
OTHER PHYTOPLANKTON						
Other small flagellates		12	0	594	80	0.04750
Raphidophytes		2	0	99	7000	0.69273

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **25/06/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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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)	1.0105						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**1173264**	**6.15809**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1220568**	**13.80821**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **25/06/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA