ALS Water
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. :	7684102 22-64966
LOCALITY :	EM2216763-010
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	7/09/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current combined levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0166 **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		0	2	4	500	0.00197
Centrales		2	0	98	200	0.01967
Cocconeis		18	0	885	450	0.39839
Entomoneis		2	0	98	1000	0.09837
Hantzschia		0	1	2	500	0.00098
Naviculales		0	1	2	1400	0.00275
Nitzschia		3	0	148	400	0.05902
Pennales		6	0	295	300	0.08853
Pennales (small <20um)		15	0	738	251	0.18518
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01230
Chlorococcoids (<10um)		4840	0	238048	60	14.28290
Monoraphidium (small)		28	0	1377	16	0.02203
CHRYSOPHYCEAE						
Choanoflagellates		9	0	443	100	0.04427
CYANOPHYCEAE						
Planktolyngbya		20	0	984	3.8	0.00374
Pseudanabaena		3	0	148	12.5	0.00184
Synechococcales small (iauv <20)		4040	0	198702	5.25	1.04318
DINOPHYCEAE						
Dinoflagellates		2	0	98	20000	1.96734
Gymnodiniales		2	0	98	2000	0.19673
Gymnodiniales (small)		17	0	836	500	0.41806
Peridiniales		1	0	49	5000	0.24592
EUGLENOPHYCEAE						

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Lauren Minett (signatory)*** DATE: **08/09/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Trachelomonas		1	0	49	3000	0.14755
OTHER PHYTOPLANKTON						
Other small flagellates		540	0	26559	80	2.12473
Raphidophytes		14	0	689	7000	4.81999

TOTAL BGA	**199834**	**1.04877**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**470399**	**26.18545**

+ 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.***

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