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. :	7684063 22-64963
LOCALITY :	EM2216764-010
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	31/08/2022
DATE ANALYSED :	8/09/2022
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) 1.0172 **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		8	0	393	500	0.19662
Centrales - (5-10um)		4	0	197	80	0.01573
Cocconeis		54	0	2654	450	1.19446
Entomoneis		1	0	49	1000	0.04915
Naviculales		1	0	49	1400	0.06882
Nitzschia		0	1	2	400	0.00079
Pennales		9	0	442	300	0.13272
Pennales (small <20um)		25	0	1229	251	0.30844
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01229
Chlorococcoids (<10um)		6040	0	296893	60	17.81361
Monoraphidium (small)		11	0	541	16	0.00865
Oocystis (small)		3	0	147	100	0.01475
CHRYSOPHYCEAE						
Choanoflagellates		20	0	983	100	0.09831
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03146
CYANOPHYCEAE						
Planktolyngbya		70	0	3441	3.8	0.01308
Synechococcales small (iauv <20)		14400	0	707825	5.25	3.71608
DINOPHYCEAE						
Gymnodiniales		2	0	98	2000	0.19662
Gymnodiniales (small)		28	0	1376	500	0.68816
Peridiniales		0	12	24	5000	0.11797
OTHER PHYTOPLANKTON						

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

METHOD NO.: MB010/MW024VCA

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Other small flagellates		390	0	19170	80	1.53362
Raphidophytes		24	0	1180	7000	8.25796

TOTAL BGA	**711266**	**3.72916**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1036840**	**34.46928**

+ 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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