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. :	7684101 22-64966
LOCALITY :	EM2216763-009
SITE :	Salt Creek Outlet
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) 1.0204 **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		3	0	147	500	0.07350
Centrales		1	0	49	200	0.00980
Chaetoceros		1	0	49	200	0.00980
Entomoneis		0	8	16	1000	0.01568
Nitzschia		2	0	98	400	0.03920
Pennales		5	0	245	300	0.07350
Pennales (small <20um)		19	0	931	251	0.23368
CHLOROPHYCEAE						
Chlorococcoids (<10um)		2040	0	99961	60	5.99765
Monoraphidium (small)		10	0	490	16	0.00784
Monoraphidium (large)		0	1	2	400	0.00078
Scenedesmus		2	0	98	250	0.02450
CHRYSOPHYCEAE						
Choanoflagellates		8	0	392	100	0.03920
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03136
CYANOPHYCEAE						
Planktolyngbya		30	0	1470	3.8	0.00559
Pseudanabaena		5	0	245	12.5	0.00306
Synechococcales small (iauv <20)		2080	0	101921	5.25	0.53508
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09800
Gymnodiniales (small)		20	0	980	500	0.49000
Peridiniales		3	0	147	5000	0.73501
OTHER PHYTOPLANKTON						

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

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

ALS Water
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Other small flagellates		630	0	30870	80	2.46962
Raphidophytes		16	0	784	7000	5.48804

TOTAL BGA	**103636**	**0.54373**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**239042**	**16.38090**

+ 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: *Lauren Minett (signatory)* DATE: **09/09/2022**
Biologist **Biologist**

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