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. :	7791210 22-70933
LOCALITY :	EM2218952-009
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	5/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0151 **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						
Centrales		2	0	99	200	0.01970
Pennales		3	0	148	300	0.04433
Pennales (small <20um)		2	0	99	251	0.02473
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1710	0	84228	60	5.05369
Monoraphidium (small)		17	0	837	16	0.01340
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01724
CRYPTOPHYCEAE						
Cryptomonads		3	0	148	320	0.04729
CYANOPHYCEAE						
Planktolyngbya		15	0	739	3.8	0.00281
Synechococcales small (iauv <20)		11280	0	555610	5.25	2.91695
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00394
OTHER PHYTOPLANKTON						
Other small flagellates		105	0	5172	80	0.41375

TOTAL BGA	**556349**	**2.91976**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**647131**	**8.55783**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **06/10/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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

+ 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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **06/10/2022**

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