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. :	7484482 22-53363
LOCALITY :	EM2212384-007
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	30/06/2022
DATE ANALYSED :	7/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current high levels of algae are sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0099 **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		1	0	50	500	0.02475
Nitzschia		40	0	1980	400	0.79216
Pennales		2	0	99	300	0.02971
Pennales (small <20um)		7	0	347	251	0.08699
CHLOROPHYCEAE						
Ankistrodesmoideae		260	0	12873	132	1.69918
Chlamydomonads		8	0	396	250	0.09902
Chlorococcoids (<10um)		5880	0	291118	60	17.46708
Monoraphidium (small)		20	0	990	16	0.01584
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01584
CYANOPHYCEAE						
Synechococcales small (iauv <20)		27020	0	1337756	5.25	7.02322
DINOPHYCEAE						
Dinoflagellates		1	0	50	20000	0.99020
Gymnodiniales		8	0	396	2000	0.79216
Gymnodiniales (small)		18	0	891	500	0.44559
OTHER PHYTOPLANKTON						
Other small flagellates		2520	0	124765	80	9.98119

TOTAL BGA	**1337756**	**7.02322**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1771761**	**39.46292**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Karen Simonsen (signatory)*** DATE: **07/07/2022**
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: *Kirsten Mudie (signatory)* REVIEWED: *Karen Simonsen (signatory)* DATE: **07/07/2022**

Biologist **Biologist**

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