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. :	7328744 22-06265
LOCALITY :	EM2201088-015
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	20/01/2022
DATE ANALYSED :	2/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens will impair water quality. This water may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0168 **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						
Nitzschia		380	0	18686	400	7.47443
Pennales		1	0	49	300	0.01475
Pennales (small <20um)		560	0	27537	251	6.91188
Pleurosigma		1	0	49	2000	0.09835
CHLOROPHYCEAE						
Ankistrodesmoideae		3500	0	172109	132	22.71833
Carteria		0	3	6	300	0.00177
Chlorococcoids (<10um)		4620	0	227183	60	13.63100
Crucigenia		4	0	197	30	0.00590
CRYPTOPHYCEAE						
Cryptomonads		6	0	295	320	0.09441
CYANOPHYCEAE						
Synechococcales small (iauv <20)		39200	0	1927616	5.25	10.11998
DINOPHYCEAE						
Gymnodiniales		16	0	787	2000	1.57356
Gymnodiniales (small)		23	0	1131	500	0.56550

TOTAL BGA	**1927616**	**10.11998**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2375645**	**63.20987**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **02/02/2022**
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: *Adam Deliyiannis (signatory)* DATE: **02/02/2022**

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