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. :	7056265 21-31436
LOCALITY :	EM2111820-003
SITE :	Sth Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	25/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed and low biovolume BGA Synechococcales were most numerous. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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		147	0	7176	400	2.87053
Pennales		5	0	244	300	0.07323
CHLOROPHYCEAE						
Ankistrodesmoideae		452	0	22066	132	2.91271
Chlamydomonads		0	1	2	250	0.00049
Chlorococcoids (<10um)		400	0	19527	60	1.17165
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01562
CYANOPHYCEAE						
Synechococcales small (iauv <20)		15920	0	777192	5.25	4.08026
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97637
Gymnodiniales		2	0	98	2000	0.19527
Gymnodiniales (small)		20	0	976	500	0.48819
Peridiniales		0	2	4	5000	0.01953
OTHER PHYTOPLANKTON						
Other small flagellates		50	0	2441	80	0.19527
Prasinophytes		3	0	146	100	0.01465

TOTAL BGA	**777192**	**4.08026**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**829970**	**13.01377**

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Karen Simonsen (signatory)*
Biologist

DATE: **25/06/2021**

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* **Biologist**

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