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. :	6796578 20-56146
LOCALITY :	EM20213683_003
SITE :	South Policeman Point/Seagull
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small synechococcales dominated the sample. Current levels will 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						
Gyrosigma		0	1	2	1400	0.00273
Naviculales		0	2	4	1400	0.00547
Nitzschia		1	0	49	400	0.01953
Pennales		1	0	49	300	0.01465
Pleurosigma		0	2	4	2000	0.00781
CHLOROPHYCEAE						
Ankistrodesmoideae		820	0	40031	132	5.28412
Chlamydomonads		1	0	49	250	0.01220
Chlorococcoids (<10um)		1240	0	60535	60	3.63210
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04687
CYANOPHYCEAE						
Synechococcales small (iauv <20)		33280	0	1624683	5.25	8.52958
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03905
Gymnodiniales		14	0	683	2000	1.36692
Gymnodiniales (small)		3	0	146	500	0.07323
Peridiniales		1	0	49	5000	0.24409
OTHER PHYTOPLANKTON						
Other small flagellates		26	0	1269	80	0.10154
Prasinophytes		1	0	49	100	0.00488

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0242						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**1624683**	**8.52958**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1727750**	**19.38479**

+ 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**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

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