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. :	6781622 20-54272
LOCALITY :	EM2020558_013
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA dominating the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.036 **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	48	500	0.02413
Centrales		0	2	4	200	0.00077
Nitzschia		0	4	8	400	0.00309
Pennales		0	1	2	300	0.00058
Pennales (small <20um)		90	0	4344	251	1.09025
CHLOROPHYCEAE						
Ankistrodesmoideae		940	0	45367	132	5.98842
Chlorococcoids (<10um)		2080	0	100386	60	6.02317
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01544
CYANOPHYCEAE						
Synechococcales small (iauv <20)		20320	0	980695	5.25	5.14865
DINOPHYCEAE						
Dinoflagellates		1	0	48	20000	0.96525
Gymnodiniales		1	0	48	2000	0.09653
Gymnodiniales (small)		17	0	820	500	0.41023
Peridiniales		4	0	193	5000	0.96525
OTHER PHYTOPLANKTON						
Other small flagellates		110	0	5309	80	0.42471

TOTAL BGA	**980695**	**5.14865**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1137320**	**21.15647**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **24/11/2020**
Biologist **Biologist**

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)	1.036						
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* DATE: **24/11/2020**
Biologist **Biologist**

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