ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695261 20-42534
LOCALITY :	EM2015594-013
SITE :	South Policeman Point
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and numerous community of algal taxa was observed. Current levels are likely impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0169 **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		43	0	2114	400	0.84571
Pennales		1	0	49	300	0.01475
CHLOROPHYCEAE						
Ankistrodesmoideae		294	0	14456	132	1.90815
Chlamydomonads		2	0	98	250	0.02458
Chlorococcoids (<10um)		1800	0	88504	60	5.31026
CRYPTOPHYCEAE						
Cryptomonads		5	0	246	320	0.07867
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	24	47	60.8	0.00287
Planktolyngbya		17	0	836	3.8	0.00318
Synechococcales small (iauv <20)		27680	0	1360999	5.25	7.14525
DINOPHYCEAE						
Dinoflagellates		2	0	98	20000	1.96676
Gymnodiniales		3	0	148	2000	0.29501
Gymnodiniales (small)		6	0	295	500	0.14751
Peridiniales		4	0	197	5000	0.98338
OTHER PHYTOPLANKTON						
Other small flagellates		27	0	1328	80	0.10621
Prasinophytes		5	0	246	100	0.02458

TOTAL BGA	**1361882**	**7.15129**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**47**	**0.00287**
TOTAL ALGAE	**1469661**	**18.85687**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **11/09/2020**

METHOD NO.: MB010/MW024CV

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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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