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. :	6956312 21-18638
LOCALITY :	EM2106129_009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	13/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small greens and BGA most numerous. Combined levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0208 **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		2	0	98	500	0.04898
Centrales		1	0	49	200	0.00980
Melosira		0	2	4	4000	0.01567
Pennales		1	0	49	300	0.01469
Pennales (small <20um)		30	0	1469	251	0.36883
CHLOROPHYCEAE						
Ankistrodesmoideae		280	0	13715	132	1.81034
Chlorococcoids (<10um)		1120	0	54859	60	3.29154
CRYPTOPHYCEAE						
Cryptomonads		6	0	294	320	0.09404
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	24	47	17.5	0.00082
Planktolyngbya		5	0	245	3.8	0.00093
Pseudanabaena		0	6	12	12.5	0.00015
Synechococcales small (iauv <20)		2920	0	143025	5.25	0.75088
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97962
Gymnodiniales		1	0	49	2000	0.09796
Gymnodiniales (small)		3	0	147	500	0.07347
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	294	80	0.02351

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Lauren Minett (signatory)*** DATE: **15/04/2021**
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)	1.0208						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**143329**	**0.75278**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**47**	**0.00082**
TOTAL ALGAE	**214405**	**7.58125**

+ 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: ***Lauren Minett (signatory)*** DATE: **15/04/2021**
Biologist **Biologist**

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