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. :	6956307 21-18638
LOCALITY :	EM2106129-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	8/04/2021
DATE ANALYSED :	14/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Water quality is unlikely to be affected.

Sedgewick-Rafter Vol.(ml) 1.0018 **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						
Centrales - (5-10um)		95	0	4741	80	0.37932
Pennales (small <20um)		1	0	50	251	0.01253
Rhizosolenia		1	0	50	500	0.02496
CHLOROPHYCEAE						
Chlorococcoids (<10um)		35	0	1747	60	0.10481
Oocystis		1	0	50	300	0.01497
Planctonema		14	0	699	800	0.55899
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01597
CYANOPHYCEAE						
Planktolyngbya		44	0	2196	3.8	0.00834
Synechococcales small (iauv <20)		105	0	5241	5.25	0.02751
DINOPHYCEAE						
Dinoflagellates		2	0	100	20000	1.99641
OTHER PHYTOPLANKTON						
Other small flagellates		8	0	399	80	0.03194

TOTAL BGA	**7437**	**0.03586**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**15323**	**3.17576**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **15/04/2021**
Biologist **Biologist**

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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **15/04/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA