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. :	6906825 21-12031
LOCALITY :	EM2103113-014
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. The presence of potentially toxic taxa should be noted. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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						
Naviculales		1	0	49	1400	0.06863
Nitzschia		0	1	2	400	0.00078
Pennales		1	0	49	300	0.01471
Pennales (small <20um)		3	0	147	251	0.03692
CHLOROPHYCEAE						
Ankistrodesmus		2	0	98	132	0.01294
Chlorococcoids (<10um)		6	0	294	60	0.01765
Chlorolobion		1	0	49	70	0.00343
Oocystis		4	0	196	300	0.05883
Planctonema		0	162	318	800	0.25414
Scenedesmus		2	0	98	250	0.02451
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01569
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	95	186	67	0.01248
Limnolyngbya (Planktolyngbya circumcreta)		28	0	1373	4.9	0.00673
Planktolyngbya		97	0	4755	3.8	0.01807
Synechococcales small (iauv <20)		21	0	1030	5.25	0.00540
Trichodesmium		0	60	118	84	0.00988
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	147	80	0.01177

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **02/03/2021**

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)	1.0199						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**7462**	**0.05257**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**186**	**0.01248**
TOTAL ALGAE	**8958**	**0.57257**

+ 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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