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. :	7484477 22-53363
LOCALITY :	EM2212384-002
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	29/06/2022
DATE ANALYSED :	5/07/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0303 **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		1	0	49	200	0.00971
Naviculales		6	0	291	1400	0.40765
Pennales		2	0	97	300	0.02912
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Botryococcus		0	80	155	98	0.01522
Chlamydomonads		1	0	49	250	0.01213
Chlorococcoids (<10um)		1	0	49	60	0.00291
Crucigenia		16	0	776	30	0.02329
Filamentous Green		0	96	186	386	0.07193
Monoraphidium (small)		1	0	49	16	0.00078
Oocystis		4	0	194	300	0.05824
Planctonema		0	14	27	800	0.02174
Scenedesmus		4	0	194	250	0.04853
CRYPTOPHYCEAE						
Cryptomonads		2	0	97	320	0.03106
CYANOPHYCEAE						
Pseudanabaena		5	0	243	12.5	0.00303
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00388

TOTAL BGA	**243**	**0.00303**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2554**	**0.75140**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Natalie Alabaster*** DATE: **07/07/2022**
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: *Natalie Alabaster* DATE: **07/07/2022**
Biologist **Biologist**

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