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. :	7394983 22-15545
LOCALITY :	EM22204816-011
SITE :	Tilley D/S Nth O/L
SAMPLE :	Surface
DATE SAMPLED :	17/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0274 **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						
Chaetoceros		7	0	341	200	0.06813
Pennales		0	1	2	300	0.00058
Pennales (small <20um)		1	0	49	251	0.01222
CHLOROPHYCEAE						
Chlorococcoids (<10um)		5	0	243	60	0.01460
Monoraphidium (small)		26	0	1265	16	0.02025
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	20	39	67	0.00261
Chroococcus (large cells)		0	2	4	335	0.00130
Chrysosporum cf. bergii	T	0	35	68	85	0.00579
Pseudanabaena		0	49	95	12.5	0.00119
Synechococcales small (iauv <20)		46	0	2239	5.25	0.01175
DINOPHYCEAE						
Dinoflagellates		0	29	56	20000	1.12906
Peridiniales		0	1	2	5000	0.00973
OTHER PHYTOPLANKTON						
Other small flagellates		2	0	97	80	0.00779
Prasinophytes		1	0	49	100	0.00487

TOTAL BGA	**2445**	**0.02265**
TOTAL TOXIGENIC BGA	**68**	**0.00579**
TOTAL POTENTIALLY TOXIC BGA	**39**	**0.00261**
TOTAL ALGAE	**4549**	**1.28988**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **25/03/2022**
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)	1.0274						
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 (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **25/03/2022**

Biologist **Biologist**

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