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. :	7609402 22-60564
LOCALITY :	EM2215131-012
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0189 **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						
Nitzschia		0	2	4	400	0.00157
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		1	0	49	251	0.01232
CHLOROPHYCEAE						
Chlorococcoids (<10um)		17	0	834	60	0.05005
Dictyosphaerium		4	0	196	20	0.00393
Monoraphidium (small)		14	0	687	16	0.01099
Scenedesmus		0	8	16	250	0.00393
Tetraedron		0	1	2	150	0.00029
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01718
CYANOPHYCEAE						
Pseudanabaena		0	19	37	12.5	0.00047
Synechococcales small (iauv <20)		39	0	1914	5.25	0.01005
DINOPHYCEAE						
Peridiniales		0	1	2	5000	0.00981
OTHER PHYTOPLANKTON						
Other small flagellates		5	0	245	80	0.01963

TOTAL BGA	**1951**	**0.01051**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**4037**	**0.14080**

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**

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