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. :	7366816 22-11365
LOCALITY :	EM2203091-022
SITE :	Tilley Watercourse
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0407 **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		1	0	48	200	0.00961
Pennales		1	0	48	300	0.01441
Pennales (small <20um)		1	0	48	251	0.01206
CHLOROPHYCEAE						
Ankistrodesmoideae		9	0	432	132	0.05708
Chlorococcoids (<10um)		17	0	817	60	0.04901
Monoraphidium (small)		23	0	1105	16	0.01768
CHRYSOPHYCEAE						
Other Chrysophyceae		5	0	240	350	0.08408
CYANOPHYCEAE						
Pseudanabaena		0	10	19	12.5	0.00024
Synechococcales small (iauv <20)		12	0	577	5.25	0.00303
DINOPHYCEAE						
Dinoflagellates		19	0	913	20000	18.25694
Gymnodiniales (small)		2	0	96	500	0.04804
Peridiniales		2	0	96	5000	0.48045
OTHER PHYTOPLANKTON						
Other small flagellates		13	0	625	80	0.04997

TOTAL BGA	**596**	**0.00327**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5064**	**19.08259**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **28/02/2022**
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: *Louise Ungemach (signatory)* DATE: **28/02/2022**

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