

## 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	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

<i>Nitzschia</i>	0	2	4	400	0.00157
<i>Pennales</i>	0	1	2	300	0.00059
<i>Pennales (small &lt;20um)</i>	1	0	49	251	0.01232

### CHLOROPHYCEAE

<i>Chlorococcoids (&lt;10um)</i>	17	0	834	60	0.05005
<i>Dictyosphaerium</i>	4	0	196	20	0.00393
<i>Monoraphidium (small)</i>	14	0	687	16	0.01099
<i>Scenedesmus</i>	0	8	16	250	0.00393
<i>Tetraedron</i>	0	1	2	150	0.00029

### CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>	1	0	49	350	0.01718
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### CYANOPHYCEAE

<i>Pseudanabaena</i>	0	19	37	12.5	0.00047
<i>Synechococcales small (iauv &lt;20)</i>	39	0	1914	5.25	0.01005

### DINOPHYCEAE

<i>Peridinales</i>	0	1	2	5000	0.00981
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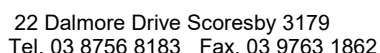
### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>	5	0	245	80	0.01963
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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)*  
Biologist Biologist

DATE: 15/08/2022



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<b>LABORATORY NO./BATCH NO. :</b>	7609402	22-60564
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<b>SAMPLE :</b>	Surface	
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**COMMENTS:** + A diverse community of algal taxa were observed. Current levels are unlikely to influence water quality.

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<b>Concentration</b>	1 : 1						
<b>Magnification</b>							
<b>Fields</b>							

+ 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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

ANALYST: *Adam Deliyiannis (signatory)* **Biologist** REVIEWED: *Lauren Minett (signatory)* **Biologist**

DATE: **15/08/2022**

METHOD NO.: MB010/MW024VCA

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