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. :	7136743 21-41798
LOCALITY :	EM2116912-021
SITE :	Tilley Swamp Watercourse OL
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	30/08/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.036 **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		3	0	145	200	0.02896
Chaetoceros		1	0	48	200	0.00965
Nitzschia		1	0	48	400	0.01931
Pennales		3	0	145	300	0.04344
CHLOROPHYCEAE						
Ankistrodesmoideae		10	0	483	132	0.06371
Chlorococcoids (<10um)		6	0	290	60	0.01737
Oocystis		2	0	97	300	0.02896
CYANOPHYCEAE						
Planktolyngbya		13	0	627	3.8	0.00238
Pseudanabaena		0	27	52	12.5	0.00065
Synechococcales small (iauv <20)		22	0	1062	5.25	0.00557
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	145	80	0.01158
Prasinophytes		1	0	48	100	0.00483
Raphidophytes		0	2	4	7000	0.02703

TOTAL BGA	**1741**	**0.00861**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**3194**	**0.26344**

ANALYST: *Adam Deliyiannis* **Biologist**
REVIEWED: *Kirsten Mudie (signatory)* **Biologist**
DATE: **30/08/2021**

METHOD NO.: MB010/MW024VCA

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. :	7136743 21-41798
LOCALITY :	EM2116912-021
SITE :	Tilley Swamp Watercourse OL
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	30/08/2021
SAMPLED BY :	Sample analysed as received

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

		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.036						
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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **30/08/2021**

METHOD NO.: MB010/MW024VCA