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. :	7116664 21-39298
LOCALITY :	EM2115700-020
SITE :	Tilley U/S Morella
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0303 **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		2	0	97	200	0.01941
Chaetoceros		1	0	49	200	0.00971
Entomoneis		0	5	10	1000	0.00971
Naviculales		2	0	97	1400	0.13588
Nitzschia		1	0	49	400	0.01941
Pennales		1	0	49	300	0.01456
Pennales (small <20um)		1	0	49	251	0.01218
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	49	132	0.00641
Carteria		1	0	49	300	0.01456
Chlorococcoids (<10um)		7	0	340	60	0.02038
Monoraphidium		1	0	49	900	0.04368
Oocystis		2	0	97	300	0.02912
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03397
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00062
CYANOPHYCEAE						
Planktolyngbya		15	0	728	3.8	0.00277
Pseudanabaena		0	16	31	12.5	0.00039
Synechococcales small (iauv <20)		46	0	2232	5.25	0.01172
DINOPHYCEAE						
Peridiniales		0	1	2	5000	0.00971
OTHER PHYTOPLANKTON						
Other small flagellates		22	0	1068	80	0.08541

ANALYST: *Adam Deliyiannis* **Biologist** REVIEWED: *Karen Simonsen (signatory)* **Biologist** DATE: **13/08/2021**

METHOD NO.: MB010/MW024VCA

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Prasinophytes		6	0	291	100	0.02912
Raphidophytes		0	1	2	7000	0.01359

TOTAL BGA	**2991**	**0.01487**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**5437**	**0.52229**

+ 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: *Karen Simonsen (signatory)* **Biologist**

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