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. :	7366815 22-11365
LOCALITY :	EM2203091-021
SITE :	Tilley D/S Nth O/L
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) 1.0046 **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		1	0	50	200	0.00995
Chaetoceros		7	0	348	200	0.06968
Pennales		1	0	50	300	0.01493
Pennales (small <20um)		1	0	50	251	0.01249
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	50	132	0.00657
Chlorococcoids (<10um)		14	0	697	60	0.04181
Monoraphidium		12	0	597	900	0.53753
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	100	350	0.03484
CYANOPHYCEAE						
Planktolyngbya		8	0	398	3.8	0.00151
Pseudanabaena		0	15	30	12.5	0.00037
Synechococcales small (iauv <20)		26	0	1294	5.25	0.00679
DINOPHYCEAE						
Dinoflagellates		7	0	348	20000	6.96795
OTHER PHYTOPLANKTON						
Other small flagellates		3	0	149	80	0.01195

TOTAL BGA	**1722**	**0.00868**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**4161**	**7.71637**

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

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0046						
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**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA