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. :	6956311 21-18638
LOCALITY :	WM2106129-008
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	7/04/2021
DATE ANALYSED :	14/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algae was observed. Water quality is likely to be affected, health concerns may be warranted.

Sedgewick-Rafter Vol.(ml) 1.0099 **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						
Amphora		6	0	297	500	0.14853
Centrales		1	0	50	200	0.00990
Cocconeis		1	0	50	450	0.02228
Entomoneis		1	0	50	1000	0.04951
Naviculales		4	0	198	1400	0.27726
Nitzschia		1	0	50	400	0.01980
Pennales		9	0	446	300	0.13368
Pennales (small <20um)		28	0	1386	251	0.34796
CHLOROPHYCEAE						
Ankistrodesmoideae		84	0	4159	132	0.54897
Chlorococcoids (<10um)		460	0	22775	60	1.36647
CRYPTOPHYCEAE						
Cryptomonads		5	0	248	320	0.07922
CYANOPHYCEAE						
Planktolyngbya		23	0	1139	3.8	0.00433
Pseudanabaena		0	15	30	12.5	0.00037
Synechococcales small (iauv <20)		6500	0	321814	5.25	1.68952
DINOPHYCEAE						
Dinoflagellates		1	0	50	20000	0.99020
Gymnodiniales (small)		2	0	99	500	0.04951
OTHER PHYTOPLANKTON						
Other small flagellates		20	0	990	80	0.07922

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **15/04/2021**
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)	1.0099						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**322983**	**1.69422**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**353831**	**5.81671**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA