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. :	7328735 22-06265
LOCALITY :	EM2201088-006
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	21/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0255 **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						
Chaetoceros		7	0	341	200	0.06826
Naviculales		1	0	49	1400	0.06826
Nitzschia		3	0	146	400	0.05851
Pennales		2	0	98	300	0.02925
CHLOROPHYCEAE						
Ankistrodesmus		12	0	585	132	0.07723
Chlorococcoids (<10um)		304	0	14822	60	0.88932
Monoraphidium (small)		3	0	146	16	0.00234
CHRYSOPHYCEAE						
Other Chrysophytes		2	0	98	200	0.01950
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8660	0	422233	5.25	2.21672
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00390
Gymnodiniales (small)		2	0	98	500	0.04876
Peridiniales		2	0	98	5000	0.48757
OTHER PHYTOPLANKTON						
Other small flagellates		16	0	780	80	0.06241
Raphidophytes		3	0	146	7000	1.02389

TOTAL BGA	**422233**	**2.21672**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**439642**	**5.05592**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **01/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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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: *Kirsten Mudie (signatory)* DATE: **01/02/2022**

Biologist **Biologist**

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