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. :	7609396 22-60564
LOCALITY :	EM2215131-006
SITE :	McGrath Flat North
SAMPLE :	Surface
DATE SAMPLED :	8/08/2022
DATE ANALYSED :	15/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0116 **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		130	0	6425	200	1.28509
Nitzschia		2	0	99	400	0.03954
Pennales		3	0	148	300	0.04448
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1230	0	60795	60	3.64769
Lagerheimia		1	0	49	500	0.02471
Monoraphidium (small)		4	0	198	16	0.00316
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	99	350	0.03460
CYANOPHYCEAE						
Planktolyngbya		8	0	395	3.8	0.00150
Synechococcales small (iauv <20)		2860	0	141360	5.25	0.74214
OTHER PHYTOPLANKTON						
Other small flagellates		10	0	494	80	0.03954

TOTAL BGA	**141755**	**0.74364**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**210062**	**5.86247**

+ 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: *Lauren Minett (signatory)* DATE: **15/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA