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. :	187821 22-45580
LOCALITY :	EM2209350-017
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with low biovolume BGA and greens most numerous. Water quality may be impaired.

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						
Nitzschia		138	0	6697	400	2.67883
Pennales		2	0	97	300	0.02912
CHLOROPHYCEAE						
Ankistrodesmoideae		660	0	32030	132	4.22789
Chlamydomonads		1	0	49	250	0.01213
Chlorococcoids (<10um)		2220	0	107736	60	6.46414
CRYPTOPHYCEAE						
Cryptomonads		3	0	146	320	0.04659
CYANOPHYCEAE						
Synechococcales small (iauv <20)		9480	0	460060	5.25	2.41532
DINOPHYCEAE						
Gymnodiniales		3	0	146	2000	0.29118
Peridiniales		1	0	49	5000	0.24265

TOTAL BGA	**460060**	**2.41532**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**607010**	**16.40784**

+ 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 (signatory)*** DATE: **24/05/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA