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. :	7281151 21-59669
LOCALITY :	EM2125413-010
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	13/12/2021
DATE ANALYSED :	21/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A range of algae were observed with levels that may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0011 **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						
Naviculales		0	1	2	1400	0.00280
Nitzschia		0	1	2	400	0.00080
Pennales		1	0	50	300	0.01498
Pennales (small <20um)		24	0	1199	251	0.30087
CHLOROPHYCEAE						
Ankistrodesmoideae		32	0	1598	132	0.21097
Chlorococcoids (<10um)		84	0	4195	60	0.25172
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	50	350	0.01748
CYANOPHYCEAE						
Synechococcales small (iauv <20)		984	0	49146	5.25	0.25802
DINOPHYCEAE						
Gymnodiniales		0	2	4	2000	0.00799
OTHER PHYTOPLANKTON						
Other small flagellates		28	0	1398	80	0.11188

TOTAL BGA	**49146**	**0.25802**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**57644**	**1.17750**

+ 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: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA