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. :	7241915 21-55807
LOCALITY :	EM2123012-016
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	16/11/2021
DATE ANALYSED :	22/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was osberved. Current excessive levels of low biovolume BGA Synechococcales will impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0272 **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		1	0	49	500	0.02434
Centrales		1	0	49	200	0.00974
Naviculales		2	0	97	1400	0.13629
Pennales		1	0	49	300	0.01460
Pennales (small <20um)		39	0	1898	251	0.47649
CHLOROPHYCEAE						
Ankistrodesmoideae		1435	0	69850	132	9.22021
Chlorococcoids (<10um)		600	0	29206	60	1.75234
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01704
CYANOPHYCEAE						
Planktolyngbya		30	0	1460	3.8	0.00555
Synechococcales small (iauv <20)		30560	0	1487539	5.25	7.80958
DINOPHYCEAE						
Gymnodiniales		4	0	195	2000	0.38941
Gymnodiniales (small)		5	0	243	500	0.12169
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	341	80	0.02726
Raphidophytes		1	0	49	7000	0.34073

TOTAL BGA	**1488999**	**7.81513**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1591074**	**20.34526**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **22/11/2021**
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: **22/11/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA