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. :	7136733 21-41798
LOCALITY :	EM2116912-011
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	24/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.036 **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	48	500	0.02413
Nitzschia		8	0	386	400	0.15444
Pennales		4	0	193	300	0.05792
Pennales (small <20um)		4	0	193	251	0.04846
Pleurosigma		0	5	10	2000	0.01931
CHLOROPHYCEAE						
Ankistrodesmoideae		119	0	5743	132	0.75811
Chlorococcoids (<10um)		61	0	2944	60	0.17664
CHRYSOPHYCEAE						
Other Chrysophytes		1	0	48	200	0.00965
CYANOPHYCEAE						
Synechococcales small (iauv <20)		15120	0	729730	5.25	3.83108
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03861
Gymnodiniales (small)		4	0	193	500	0.09653
OTHER PHYTOPLANKTON						
Other small flagellates		22	0	1062	80	0.08494
Raphidophytes		3	0	145	7000	1.01351

TOTAL BGA	**729730**	**3.83108**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**740697**	**6.31332**

ANALYST: ***Adam Deliyiannis*** **Biologist**

REVIEWED: ***Karen Simonsen (signatory)*** **Biologist**

DATE: **27/08/2021**

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*** REVIEWED: ***Karen Simonsen (signatory)*** DATE: **27/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA