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. :	7116655 21-39298
LOCALITY :	EM2115770-011
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	9/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are likely to impact 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						
Amphora		0	6	12	500	0.00599
Grammatophora		0	1	2	2000	0.00400
Nitzschia		8	0	400	400	0.15982
Pennales		0	2	4	300	0.00120
Pennales (small <20um)		16	0	799	251	0.20058
Pleurosigma		1	0	50	2000	0.09989
CHLOROPHYCEAE						
Ankistrodesmoideae		45	0	2248	132	0.29667
Chlorococcoids (<10um)		57	0	2847	60	0.17081
CRYPTOPHYCEAE						
Cryptomonads		4	0	200	320	0.06393
CYANOPHYCEAE						
Planktolyngbya		30	0	1498	3.8	0.00569
Synechococcales small (iauv <20)		10720	0	535411	5.25	2.81091
DINOPHYCEAE						
Gymnodiniales		0	2	4	2000	0.00799
Gymnodiniales (small)		2	0	100	500	0.04995
Peridiniales		2	0	100	5000	0.49945
OTHER PHYTOPLANKTON						
Other small flagellates		13	0	649	80	0.05194
Raphidophytes		0	7	14	7000	0.09789

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **16/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0011						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**536909**	**2.81660**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**544338**	**4.52672**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **16/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA