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. :	6796576 20-56146
LOCALITY :	EM2021368_001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	1/12/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small synechococcales dominated the sample. Current levels will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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	0.02425
Nitzschia		22	0	1067	400	0.42673
Pennales (small <20um)		3	0	145	251	0.03651
Pleurosigma		0	2	4	2000	0.00776
CHLOROPHYCEAE						
Ankistrodesmoideae		1800	0	87285	132	11.52168
Chlorococcoids (<10um)		2400	0	116381	60	6.98283
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01552
CYANOPHYCEAE						
Synechococcales small (iauv <20)		32960	0	1598293	5.25	8.39104
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09698
Gymnodiniales (small)		2	0	97	500	0.04849
Peridiniales		2	0	97	5000	0.48492
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	339	80	0.02716
Prasinophytes		2	0	97	100	0.00970

TOTAL BGA	**1598293**	**8.39104**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1803949**	**28.07356**

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **04/12/2020**

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* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

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