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. :	6933864 21-15798
LOCALITY :	EM2104707_001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	23/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA were observed, sufficient to impair water quality. High levels of greens and diatoms were also present.

Sedgewick-Rafter Vol.(ml) 1.0018 **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		2	0	100	1400	0.13975
Nitzschia		140	0	6987	400	2.79497
Pennales		1	0	50	300	0.01497
Pennales (small <20um)		3	0	150	251	0.03758
Pleurosigma		0	4	8	2000	0.01597
CHLOROPHYCEAE						
Ankistrodesmoideae		930	0	46416	132	6.12697
Chlorococcoids (<10um)		1860	0	92833	60	5.56997
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	100	350	0.03494
CRYPTOPHYCEAE						
Cryptomonads		7	0	349	320	0.11180
CYANOPHYCEAE						
Pseudanabaena		0	15	30	12.5	0.00037
Synechococcales small (iauv <20)		14800	0	738670	5.25	3.87802
DINOPHYCEAE						
Dinoflagellates		3	0	150	20000	2.99461
Gymnodiniales (small)		1	0	50	500	0.02496
OTHER PHYTOPLANKTON						
Other small flagellates		160	0	7986	80	0.63885

TOTAL BGA	**738700**	**3.87839**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**893879**	**22.38373**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **23/03/2021**
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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **23/03/2021**

Biologist **Biologist**

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