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. :	7428780 22-19601
LOCALITY :	EM2207234-012
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa were observed. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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						
Nitzschia		48	0	2324	400	0.92960
Pennales		2	0	97	300	0.02905
Pennales (small <20um)		1	0	48	251	0.01215
CHLOROPHYCEAE						
Ankistrodesmoideae		320	0	15493	132	2.04512
Chlorococcoids (<10um)		960	0	46480	60	2.78881
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01549
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2000	0	96834	5.25	0.50838
DINOPHYCEAE						
Gymnodiniales		1	0	48	2000	0.09683
Gymnodiniales (small)		3	0	145	500	0.07263
Peridiniales		0	1	2	5000	0.00968
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	48	80	0.00387
Raphidophytes		1	0	48	7000	0.33892

TOTAL BGA	**96834**	**0.50838**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**161615**	**6.85054**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Kirsten Mudie (signatory)*** DATE: **27/04/2022**
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)	1.0327						
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: **27/04/2022**

Biologist **Biologist**

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