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. :	7056263 21-31436
LOCALITY :	EM211820-001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	21/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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		29	0	1416	400	0.56630
Pennales		4	0	195	300	0.05858
Pennales (small <20um)		3	0	146	251	0.03676
CHLOROPHYCEAE						
Ankistrodesmoideae		312	0	15231	132	2.01054
Chlamydomonads		0	3	6	250	0.00146
Chlorococcoids (<10um)		495	0	24165	60	1.44991
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CYANOPHYCEAE						
Planktolyngbya		27	0	1318	3.8	0.00501
Synechococcales small (iauv <20)		17280	0	843585	5.25	4.42882
DINOPHYCEAE						
Dinoflagellates		0	4	8	20000	0.15622
Gymnodiniales		0	2	4	2000	0.00781
Gymnodiniales (small)		0	3	6	500	0.00293
OTHER PHYTOPLANKTON						
Other small flagellates		19	0	928	80	0.07420
Prasinophytes		1	0	49	100	0.00488

TOTAL BGA	**844903**	**4.43383**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**887106**	**8.82052**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **24/06/2021**

METHOD NO.: MB010/MW024VCA

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Sedgewick-Rafter Vol.(ml)	1.0242	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
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: *Karen Simonsen (signatory)* **Biologist**

DATE: **24/06/2021**

METHOD NO.: MB010/MW024VCA