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. :	7609356 22-60563
LOCALITY :	EM2215130-005
SITE :	Stoney Well
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0116 **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						
Centrales		1	0	49	200	0.00989
Chaetoceros		32	0	1582	200	0.31633
Naviculales		1	0	49	1400	0.06920
Nitzschia		1	0	49	400	0.01977
Pennales		0	1	2	300	0.00059
Pennales (small <20um)		1	0	49	251	0.01241
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1450	0	71669	60	4.30012
Monoraphidium (small)		172	0	8501	16	0.13602
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01730
CRYPTOPHYCEAE						
Cryptomonads		0	1	2	320	0.00063
CYANOPHYCEAE						
Planktolyngbya		9	0	445	3.8	0.00169
Synechococcales small (iauv <20)		4520	0	223408	5.25	1.17289
DINOPHYCEAE						
Gymnodiniales		9	0	445	2000	0.88968
Gymnodiniales (small)		12	0	593	500	0.29656
Peridiniales		0	4	8	5000	0.03954
OTHER PHYTOPLANKTON						
Other small flagellates		82	0	4053	80	0.32424
Prasinophytes		3	0	148	100	0.01483

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

ALS Water
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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)	1.0116						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**223853**	**1.17458**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**311101**	**7.62169**

+ 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: *Lauren Minett (signatory)* DATE: **15/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA