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. :	6750292 20-50047
LOCALITY :	EM2018692_001
SITE :	Stony Well
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0138 **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	49	500	0.02466
Centrales		2	0	99	200	0.01973
Nitzschia		0	1	2	400	0.00079
Pennales (small <20um)		24	0	1184	251	0.29710
Pleurosigma		0	2	4	2000	0.00789
CHLOROPHYCEAE						
Ankistrodesmoideae		580	0	28605	132	3.77589
Chlamydomonads		8	0	395	250	0.09864
Chlorococcoids (<10um)		7800	0	384691	60	23.08148
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01726
CRYPTOPHYCEAE						
Cryptomonads		8	0	395	320	0.12626
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	40	79	17.5	0.00138
Planktolyngbya		54	0	2663	3.8	0.01012
Pseudanabaena		0	33	65	12.5	0.00081
Spirulina		0	45	89	5.73	0.00051
Synechococcales small (iauv <20)		25320	0	1248767	5.25	6.55603
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.98639
Gymnodiniales		3	0	148	2000	0.29592
Gymnodiniales (small)		12	0	592	500	0.29592
Peridiniales		3	0	148	5000	0.73979
OTHER PHYTOPLANKTON						

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **27/10/2020**

Biologist **Biologist**

METHOD NO.: MB010/MW024CV

ALS Water
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Other small flagellates		1920	0	94693	80	7.57546
Prasinophytes		1	0	49	100	0.00493

TOTAL BGA	**1251663**	**6.56885**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**79**	**0.00138**
TOTAL ALGAE	**1762815**	**43.91695**

+ 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: **27/10/2020**
Biologist **Biologist**

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