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. :	7056271 21-31436
LOCALITY :	EM2111820-009
SITE :	3.2km Sth of Salt Ck
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) 1.0208 **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		3	0	147	500	0.07347
Centrales		1	0	49	200	0.00980
Entomoneis		1	0	49	1000	0.04898
Nitzschia		82	0	4016	400	1.60658
Pennales		5	0	245	300	0.07347
Pennales (small <20um)		1	0	49	251	0.01229
CHLOROPHYCEAE						
Ankistrodesmoideae		215	0	10531	132	1.39009
Carteria		1	0	49	300	0.01469
Chlorococcoids (<10um)		572	0	28017	60	1.68103
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01567
CYANOPHYCEAE						
Planktolyngbya		31	0	1518	3.8	0.00577
Pseudanabaena		0	19	37	12.5	0.00047
Synechococcales small (iauv <20)		18560	0	909091	5.25	4.77273
DINOPHYCEAE						
Dinoflagellates		7	0	343	20000	6.85737
Gymnodiniales		4	0	196	2000	0.39185
Gymnodiniales (small)		9	0	441	500	0.22042
Peridiniales		1	0	49	5000	0.24491
OTHER PHYTOPLANKTON						
Other small flagellates		23	0	1127	80	0.09013
Prasinophytes		1	0	49	100	0.00490

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **24/06/2021**

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)	1.0208						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**910646**	**4.77896**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**956052**	**17.51461**

+ 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**

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