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. :	7007877 21-25384
LOCALITY :	EM2108900-008
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community 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						
Naviculales		1	0	49	1400	0.06857
Nitzschia		177	0	8670	400	3.46787
Pennales		1	0	49	300	0.01469
Pennales (small <20um)		1	0	49	251	0.01229
CHLOROPHYCEAE						
Ankistrodesmoideae		43	0	2106	132	0.27802
Carteria		1	0	49	300	0.01469
Chlorococcoids (<10um)		1230	0	60247	60	3.61481
CRYPTOPHYCEAE						
Cryptomonads		3	0	147	320	0.04702
CYANOPHYCEAE						
Planktolyngbya		15	0	735	3.8	0.00279
Pseudanabaena		0	13	25	12.5	0.00032
Spirulina		0	280	549	5.73	0.00314
Synechococcales small (iauv <20)		10080	0	493730	5.25	2.59208
DINOPHYCEAE						
Dinoflagellates		12	0	588	20000	11.75549
Gymnodiniales		0	1	2	2000	0.00392
Gymnodiniales (small)		15	0	735	500	0.36736
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	735	80	0.05878

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **19/05/2021**

METHOD NO.: MB010/MW024VCA

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. :	7007877 21-25384
LOCALITY :	EM2108900-008
SITE :	1.8km W of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	19/05/2021
SAMPLED BY :	Sample analysed as received

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

		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					**495039**		**2.59834**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**568465**		**22.30186**

+ 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* REVIEWED: *Louise Ungemach (signatory)* DATE: **19/05/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA