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. :	7366801 22-11365
LOCALITY :	EM2203091-007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	22/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels are unlikely to impact 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						
Centrales		1	0	49	200	0.00976
Chaetoceros		11	0	537	200	0.10740
Gyrosigma		0	5	10	1400	0.01367
Naviculales		2	0	98	1400	0.13669
Nitzschia		18	0	879	400	0.35149
Pennales		12	0	586	300	0.17575
Pennales (small <20um)		2	0	98	251	0.02451
Pleurosigma		0	9	18	2000	0.03515
CHLOROPHYCEAE						
Chlorococcoids (<10um)		15	0	732	60	0.04394
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CYANOPHYCEAE						
Synechococcales small (iauv <20)		230	0	11228	5.25	0.05895
DINOPHYCEAE						
Dinoflagellates		0	2	4	20000	0.07811
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	439	80	0.03515

TOTAL BGA	**11228**	**0.05895**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**14727**	**1.08765**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **01/03/2022**
Biologist **Biologist**

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)	1.0242						
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 (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **01/03/2022**

Biologist **Biologist**

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