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. :	6750304 20-50047
LOCALITY :	EM2018692_013
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with low biovolume BGA most numerous. Water quality is unlikely to be impaired.

Sedgewick-Rafter Vol.(ml) 1.0235 **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	0.00977
Chaetoceros		92	0	4494	200	0.89888
Navicula		1	0	49	1400	0.06839
Nitzschia		1	0	49	400	0.01954
Pennales		1	0	49	300	0.01466
Pennales (small <20um)		15	0	733	251	0.18393
CHLOROPHYCEAE						
Ankistrodesmoideae		32	0	1563	132	0.20635
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		380	0	18564	60	1.11383
CHRYSOPHYCEAE						
Other Chrysophyceae		5	0	244	350	0.08549
CYANOPHYCEAE						
Planktolyngbya		20	0	977	3.8	0.00371
Synechococcales small (iauv <20)		1870	0	91353	5.25	0.47960
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03908
Gymnodiniales		1	0	49	2000	0.09770
Peridiniales		0	7	14	5000	0.06839
OTHER PHYTOPLANKTON						
Other small flagellates		32	0	1563	80	0.12506
Prasinophytes		1	0	49	100	0.00489

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

METHOD NO.: MB010/MW024CV

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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)	1.0235						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**92330**		**0.48332**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**119850**		**3.43149**

+ 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**
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