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. :	7136729 21-41798
LOCALITY :	EM2116912-007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	25/08/2021
DATE ANALYSED :	27/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0199 **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						
Chaetoceros		77	0	3775	200	0.75498
Entomoneis		0	1	2	1000	0.00196
Licmophora		1	0	49	850	0.04167
Pennales		9	0	441	300	0.13237
Pennales (small <20um)		1	0	49	251	0.01231
CHLOROPHYCEAE						
Ankistrodesmoideae		5	0	245	132	0.03236
Chlorococcoids (<10um)		42	0	2059	60	0.12354
CHRYSOPHYCEAE						
Other Chrysophytes		4	0	196	200	0.03922
CRYPTOPHYCEAE						
Cryptomonads		4	0	196	320	0.06275
CYANOPHYCEAE						
Planktolyngbya		70	0	3432	3.8	0.01304
Synechococcales small (iauv <20)		2100	0	102951	5.25	0.54049
DINOPHYCEAE						
Gymnodiniales (small)		1	0	49	500	0.02451
Peridiniales		1	0	49	5000	0.24512
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	343	80	0.02745
Prasinophytes		1	0	49	100	0.00490
Raphidophytes		0	1	2	7000	0.01373

ANALYST: ***Adam Deliyiannis*** REVIEWED: ***Karen Simonsen (signatory)*** DATE: **27/08/2021**
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)	1.0199						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**106383**		**0.55353**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**113887**		**2.07040**

+ 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**

DATE: **27/08/2021**

METHOD NO.: MB010/MW024VCA