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. :	7281144 21-59669
LOCALITY :	EM2125413-003
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	13/12/2021
DATE ANALYSED :	21/12/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA will impair water quality and may pose a health risk.

Sedgewick-Rafter Vol.(ml) 1.0145 **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		2	0	99	200	0.01971
Naviculales		5	0	246	1400	0.34500
Nitzschia		3	0	148	400	0.05914
Pennales		2	0	99	300	0.02957
Pennales (small <20um)		280	0	13800	251	3.46378
CHLOROPHYCEAE						
Chlorococcoids		600	0	29571	500	14.78561
Monoraphidium		0	1	2	900	0.00177
CYANOPHYCEAE						
Synechococcales small (iauv <20)		8440	0	415968	5.25	2.18383
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09857
OTHER PHYTOPLANKTON						
Other small flagellates		20	0	986	80	0.07886

TOTAL BGA	**415968**	**2.18383**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**460968**	**21.06585**

+ 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 (signatory)*** DATE: **22/12/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA