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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6956308 21-18638
LOCALITY :	EM2106129-005
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	8/04/2021
DATE ANALYSED :	14/04/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed, with low-biovolume BGA being most numerous. Current BGA levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0018 **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						
Amphora		1	0	50	500	0.02496
Centrales - (5-10um)		20	0	998	80	0.07986
Nitzschia		0	1	2	400	0.00080
CHLOROPHYCEAE						
Ankistrodesmoideae		38	0	1897	132	0.25035
Chlorococcoids		14	0	699	500	0.34937
CRYPTOPHYCEAE						
Cryptomonads		1	0	50	320	0.01597
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	25	50	17.5	0.00087
Synechococcales small (iauv <20)		62	0	3094	5.25	0.01625
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03993
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	299	80	0.02396

TOTAL BGA	**3144**	**0.01712**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**50**	**0.00087**
TOTAL ALGAE	**7141**	**0.80231**

+ 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: ***Louise Ungemach (signatory)*** DATE: **15/04/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA