ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6796588 20-56146
LOCALITY :	EM2021368_013
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with diatom Chaetoceros in levels that may influence water quality.

Sedgewick-Rafter Vol.(ml) 1.027 **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		0	1	2	200	0.00039
Chaetoceros		336	0	16358	200	3.27167
Naviculales		0	1	2	1400	0.00273
Pennales (small <20um)		1	0	49	251	0.01222
CHLOROPHYCEAE						
Chlorococcoids (<10um)		1	0	49	60	0.00292
Didymocystis		2	0	97	41	0.00399
Oocystis		2	0	97	300	0.02921
Planctonema		7	0	341	800	0.27264
Staurastrum		0	1	2	2000	0.00389
CYANOPHYCEAE						
Planktolyngbya		0	12	23	3.8	0.00009
Pseudanabaena		0	6	12	12.5	0.00015
Synechococcales small (iauv <20)		51	0	2483	5.25	0.01304

TOTAL BGA	**2518**	**0.01327**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**19515**	**3.61293**

+ 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: **04/12/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA