ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6796579 20-56146
LOCALITY :	EM2021368_004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	30/11/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of small synechococcales dominated the sample. Current levels will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **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						
Nitzschia		4	0	195	400	0.07813
Pennales		1	0	49	300	0.01465
Pleurosigma		0	1	2	2000	0.00391
CHLOROPHYCEAE						
Ankistrodesmoideae		1420	0	69336	132	9.15234
Chlorococcoids (<10um)		1940	0	94727	60	5.68359
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01563
CYANOPHYCEAE						
Synechococcales small (iauv <20)		39360	0	1921875	5.25	10.08984
DINOPHYCEAE						
Dinoflagellates		2	0	98	20000	1.95313
Gymnodiniales		1	0	49	2000	0.09766
Gymnodiniales (small)		2	0	98	500	0.04883
Peridiniales		3	0	146	5000	0.73242

TOTAL BGA	**1921875**	**10.08984**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2086624**	**27.87012**

+ 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: *Kirsten Mudie (signatory)* **Biologist**

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA