ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7609359 22-60563
LOCALITY :	EM2215130-008
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	9/08/2022
DATE ANALYSED :	12/08/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa were observed. Current levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0194 **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						
Pennales		2	0	98	300	0.02943
Pennales (small <20um)		1	0	49	251	0.01231
CHLOROPHYCEAE						
Chlorococcoids (<10um)		3080	0	151069	60	9.06416
Monoraphidium (small)		246	0	12066	16	0.19305
CYANOPHYCEAE						
Planktolyngbya		75	0	3679	3.8	0.01398
Synechococcales small (iauv <20)		6440	0	315872	5.25	1.65833
DINOPHYCEAE						
Gymnodiniales		9	0	441	2000	0.88287
Gymnodiniales (small)		39	0	1913	500	0.95644
Peridiniales		1	0	49	5000	0.24524
OTHER PHYTOPLANKTON						
Other small flagellates		27	0	1324	80	0.10594
Raphidophytes		0	1	2	7000	0.01373

TOTAL BGA	**319551**	**1.67231**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**486562**	**13.17550**

+ 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 (signatory)* REVIEWED: *Lauren Minett (signatory)* DATE: **15/08/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA