ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7281154 21-59669
LOCALITY :	EM2125413-013
SITE :	Salt Creek Outlet
SAMPLE :	Surface
DATE SAMPLED :	14/12/2021
DATE ANALYSED :	20/12/2021
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) 1.0046 **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		1	0	50	200	0.00995
Nitzschia		0	2	4	400	0.00159
Pennales		1	0	50	300	0.01493
Pennales (small <20um)		420	0	20904	251	5.24686
CHLOROPHYCEAE						
Ankistrodesmoideae		2440	0	121441	132	16.03026
Chlorococcoids (<10um)		1500	0	74657	60	4.47939
CRYPTOPHYCEAE						
Cryptomonads		4	0	199	320	0.06371
CYANOPHYCEAE						
Synechococcales small (iauv <20)		10060	0	500697	5.25	2.62866
DINOPHYCEAE						
Gymnodiniales		11	0	547	2000	1.09496
Gymnodiniales (small)		19	0	946	500	0.47283

TOTAL BGA	**500697**	**2.62866**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**719495**	**30.04315**

+ 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