ALS Water
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428781 22-19601
LOCALITY :	EM22-07234-013
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	21/04/2022
DATE ANALYSED :	27/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse range of algal taxa were observed. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0744 **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		790	0	36765	400	14.70588
CHLOROPHYCEAE						
Ankistrodesmoideae		2850	0	132632	132	17.50745
Chlorococcoids (<10um)		1590	0	73995	60	4.43969
CRYPTOPHYCEAE						
Cryptomonads		2	0	93	320	0.02978
CYANOPHYCEAE						
Synechococcales small (iauv <20)		17120	0	796724	5.25	4.18280
DINOPHYCEAE						
Gymnodiniales		6	0	279	2000	0.55845
Gymnodiniales (small)		6	0	279	500	0.13961
OTHER PHYTOPLANKTON						
Prasinophytes		3	0	140	100	0.01396
Raphidophytes		1	0	47	7000	0.32576

TOTAL BGA	**796724**	**4.18280**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1040954**	**41.90339**

+ 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: *Kirsten Mudie (signatory)* DATE: **27/04/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA