ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7366806 22-11365
LOCALITY :	EM2203091-012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	23/02/2022
DATE ANALYSED :	28/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive algal levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0168 **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
Entomoneis		0	1	2	1000	0.00197
Nitzschia		880	0	43273	400	17.30921
Pennales		4	0	197	300	0.05901
Pennales (small <20um)		440	0	21637	251	5.43076
CHLOROPHYCEAE						
Ankistrodesmoideae		960	0	47207	132	6.23131
Chlorococcoids (<10um)		2660	0	130803	60	7.84815
Oocystis		13	0	639	300	0.19178
CRYPTOPHYCEAE						
Cryptomonads		6	0	295	320	0.09441
CYANOPHYCEAE						
Synechococcales small (iauv <20)		20300	0	998230	5.25	5.24071
DINOPHYCEAE						
Gymnodiniales		3	0	148	2000	0.29504
Gymnodiniales (small)		4	0	197	500	0.09835

TOTAL BGA	**998230**	**5.24071**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**1242630**	**42.80109**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **28/02/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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: **28/02/2022**
Biologist **Biologist**

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