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. :	6906813 21-12031
LOCALITY :	EM2103113_002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	24/02/2021
DATE ANALYSED :	1/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with low biovolume BGA abundant. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0235 **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		2	0	98	200	0.01954
Nitzschia		204	0	9966	400	3.98632
Pennales		1	0	49	300	0.01466
Pennales (small <20um)		36	0	1759	251	0.44143
Pleurosigma		1	0	49	2000	0.09770
CHLOROPHYCEAE						
Ankistrodesmoideae		810	0	39570	132	5.22325
Chlorococcoids (<10um)		1090	0	53249	60	3.19492
CRYPTOPHYCEAE						
Cryptomonads		2	0	98	320	0.03127
CYANOPHYCEAE						
Pseudanabaena		15	0	733	12.5	0.00916
Synechococcales small (iauv <20)		5640	0	275525	5.25	1.44651
DINOPHYCEAE						
Dinoflagellates		30	0	1466	20000	29.31119
Gymnodiniales (small)		8	0	391	500	0.19541
OTHER PHYTOPLANKTON						
Other small flagellates		68	0	3322	80	0.26575

TOTAL BGA	**276258**	**1.45567**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**386275**	**44.23710**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **02/03/2021**
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* DATE: **02/03/2021**

Biologist **Biologist**

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