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. :	7007873 21-25384
LOCALITY :	EM2108900-004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	12/05/2021
DATE ANALYSED :	18/05/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with low biovolume BGA Synechococcales most numerous. Current levels are likely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0311 **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						
Naviculales		0	1	2	1400	0.00272
Nitzschia		150	0	7274	400	2.90951
Pennales (small <20um)		1	0	48	251	0.01217
CHLOROPHYCEAE						
Ankistrodesmoideae		34	0	1649	132	0.21763
Chlorococcoids (<10um)		760	0	36854	60	2.21123
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	48	350	0.01697
CYANOPHYCEAE						
Planktolyngbya		15	0	727	3.8	0.00276
Pseudanabaena		0	15	29	12.5	0.00036
Spirulina		0	56	109	5.73	0.00062
Synechococcales small (iauv <20)		8240	0	399573	5.25	2.09776
DINOPHYCEAE						
Dinoflagellates		4	0	194	20000	3.87935
Gymnodiniales (small)		30	0	1455	500	0.72738
Peridiniales		1	0	48	5000	0.24246
OTHER PHYTOPLANKTON						
Other small flagellates		14	0	679	80	0.05431
Prasinophytes		2	0	97	100	0.00970

TOTAL BGA	**400438**	**2.10151**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**448786**	**12.38494**

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **19/05/2021**

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: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **19/05/2021**

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