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. :	6933865 21-15798
LOCALITY :	EM2104707-002
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	17/03/2021
DATE ANALYSED :	22/03/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed with small greens and BGA most numerous. Current levels may impact water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **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	0.01953
Nitzschia		122	0	5957	400	2.38281
Pennales		2	0	98	300	0.02930
Pennales (small <20um)		3	0	146	251	0.03677
CHLOROPHYCEAE						
Ankistrodesmoideae		1480	0	72266	132	9.53906
Chlamydomonads		0	2	4	250	0.00098
Chlorococcoids (<10um)		1120	0	54688	60	3.28125
CHRYSOPHYCEAE						
Other Chrysophyceae		18	0	879	350	0.30762
CYANOPHYCEAE						
Planktolyngbya		8	0	391	3.8	0.00148
Pseudanabaena		0	44	86	12.5	0.00107
Synechococcales small (iauv <20)		16240	0	792969	5.25	4.16309
DINOPHYCEAE						
Dinoflagellates		5	0	244	20000	4.88281
Gymnodiniales (small)		6	0	293	500	0.14648
OTHER PHYTOPLANKTON						
Other small flagellates		21	0	1025	80	0.08203
Prasinophytes		1	0	49	100	0.00488

TOTAL BGA	**793446**	**4.16564**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**929193**	**24.87917**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **23/03/2021**

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**

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