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. :	7171298 21-46438
LOCALITY :	EM2119079-012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	22/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Excessive levels of low biovolume BGA Synechococcales are likely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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						
Amphora		1	0	49	500	0.02441
Centrales		1	0	49	200	0.00976
Naviculales		0	1	2	1400	0.00273
Nitzschia		1	0	49	400	0.01953
Pennales		2	0	98	300	0.02929
Pennales (small <20um)		2	0	98	251	0.02451
CHLOROPHYCEAE						
Ankistrodesmoideae		62	0	3027	132	0.39953
Chlorococcoids (<10um)		53	0	2587	60	0.15524
CYANOPHYCEAE						
Planktolyngbya		7	0	342	3.8	0.00130
Synechococcales small (iauv <20)		20080	0	980277	5.25	5.14646
DINOPHYCEAE						
Gymnodiniales		3	0	146	2000	0.29291
Gymnodiniales (small)		1	0	49	500	0.02441
OTHER PHYTOPLANKTON						
Other small flagellates		10	0	488	80	0.03905
Prasinophytes		1	0	49	100	0.00488
Raphidophytes		4	0	195	7000	1.36692

TOTAL BGA	**980619**	**5.14775**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**987505**	**7.54094**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **29/09/2021**

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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