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. :	7116648 21-39298
LOCALITY :	EM2115770-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	10/08/2021
DATE ANALYSED :	13/08/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0744 **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						
Chaetoceros		1	0	47	200	0.00931
Pennales		0	1	2	300	0.00056
Pennales (small <20um)		1	0	47	251	0.01168
CHLOROPHYCEAE						
Chlamydomonads		1	0	47	250	0.01163
Chlorococcoids (<10um)		48	0	2234	60	0.13403
Crucigenia		4	0	186	30	0.00558
Monoraphidium		5	0	233	900	0.20942
Oocystis		8	0	372	300	0.11169
Pediastrum		4	0	186	60	0.01117
Planctonema		8	0	372	800	0.29784
CRYPTOPHYCEAE						
Cryptomonads		119	0	5538	320	1.77215
CYANOPHYCEAE						
Limnolyngbya (Planktolyngbya circumcreta)		53	0	2466	4.9	0.01209
Planktolyngbya		75	0	3490	3.8	0.01326
Synechococcales small (iauv <20)		38	0	1768	5.25	0.00928
DINOPHYCEAE						
Gymnodiniales (small)		5	0	233	500	0.11634
OTHER PHYTOPLANKTON						
Raphidophytes		4	0	186	7000	1.30305

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **16/08/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0744						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

TOTAL BGA	**7724**	**0.03463**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**17407**	**4.02910**

+ 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: ***Karen Simonsen (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **16/08/2021**
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