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. :	6796590 20-56146
LOCALITY :	EM2021368_015
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	1/12/2020
DATE ANALYSED :	3/12/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Small synechococcales dominated the sample. Current levels may mildly impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0327 **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		19	0	920	200	0.18398
Entomoneis		0	2	4	1000	0.00387
Gyrosigma		0	1	2	1400	0.00271
Naviculales		1	0	48	1400	0.06778
Nitzschia		2	0	97	400	0.03873
Pennales		3	0	145	300	0.04358
Pennales (small <20um)		5	0	242	251	0.06076
Pleurosigma		0	1	2	2000	0.00387
CHLOROPHYCEAE						
Ankistrodesmoideae		5	0	242	132	0.03196
Chlorococcoids (<10um)		5	0	242	60	0.01453
Selenastrum		1	0	48	250	0.01210
CRYPTOPHYCEAE						
Cryptomonads		1	0	48	320	0.01549
CYANOPHYCEAE						
Oscillatoria (small cells)		0	51	99	1134	0.11201
Planktolyngbya		14	0	678	3.8	0.00258
Synechococcales small (iauv <20)		770	0	37281	5.25	0.19572
DINOPHYCEAE						
Dinoflagellates		0	3	6	20000	0.11620
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	291	80	0.02324
Prasinophytes		1	0	48	100	0.00484

ANALYST: *Adam Deliyiannis*
Biologist

REVIEWED: *Kirsten Mudie (signatory)*
Biologist

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA

ALS Water
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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)	1.0327						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**38058**		**0.31031**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**40443**		**0.93396**

+ 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: *Kirsten Mudie (signatory)* **Biologist**

DATE: **04/12/2020**

METHOD NO.: MB010/MW024VCA