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. :	6873988 21-07778
LOCALITY :	EM2101680_006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	3/02/2021
DATE ANALYSED :	8/02/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with diatoms most numerous. Excessive levels of bacteria were observed that are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0722 **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		12	0	560	500	0.27980
Centrales - (5-10um)		12	0	560	80	0.04477
Cocconeis		1	0	47	450	0.02098
Entomoneis		5	0	233	1000	0.23317
Gyrosigma		3	0	140	1400	0.19586
Naviculales		26	0	1212	1400	1.69744
Nitzschia		24	0	1119	400	0.44768
Pennales (small <20um)		92	0	4290	251	1.07685
CHLOROPHYCEAE						
Chlorococcoids (<10um)		38	0	1772	60	0.10632
Filamentous Green		0	10	19	386	0.00720
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	47	350	0.01632
CRYPTOPHYCEAE						
Cryptomonads		1	0	47	320	0.01492
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	1125	2098	17.5	0.03672
Planktolyngbya		20	0	933	3.8	0.00354
Pseudanabaena		0	170	317	12.5	0.00396
OTHER PHYTOPLANKTON						
Other small flagellates		26	0	1212	80	0.09700

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **09/02/2021**
Biologist **Biologist**

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)	1.0722						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**3348**		**0.04423**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**2098**		**0.03672**
TOTAL ALGAE					**14606**		**4.28255**

+ 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: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **09/02/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA