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. :	7056277 21-31436
LOCALITY :	EM2111820-015
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	22/06/2021
DATE ANALYSED :	24/06/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed, but overall algal levels are insufficient to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0274 **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		0	2	4	500	0.00195
Cocconeis		0	3	6	450	0.00263
Entomoneis		0	1	2	1000	0.00195
Gyrosigma		0	1	2	1400	0.00273
Licmophora		0	1	2	850	0.00165
Naviculales		1	0	49	1400	0.06813
Nitzschia		1	0	49	400	0.01947
Pennales		1	0	49	300	0.01460
Pennales (small <20um)		2	0	97	251	0.02443
CHLOROPHYCEAE						
Chlorococcoids (<10um)		2	0	97	60	0.00584
CRYPTOPHYCEAE						
Cryptomonads		7	0	341	320	0.10901
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	57	111	60.8	0.00675
Planktolyngbya		6	0	292	3.8	0.00111
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03893
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00389

TOTAL BGA	**403**	**0.00786**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**111**	**0.00675**
TOTAL ALGAE	**1152**	**0.30307**

ANALYST: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **25/06/2021**
Biologist **Biologist**

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: ***Karen Simonsen (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **25/06/2021**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA