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. :	239330 22-48115
LOCALITY :	EM2210354-003
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	1/06/2022
DATE ANALYSED :	12/06/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels are unlikely to impact 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						
Centrales		3	0	146	200	0.02929
Naviculales		2	0	98	1400	0.13669
Pennales		1	0	49	300	0.01465
CHLOROPHYCEAE						
Ankistrodesmoideae		20	0	976	132	0.12888
Chlorococcoids (<10um)		15	0	732	60	0.04394
Crucigenia		16	0	781	30	0.02343
Lagerheimia		1	0	49	500	0.02441
Micractinium		7	0	342	30	0.01025
Monoraphidium (small)		14	0	683	16	0.01094
Planctonema		0	37	72	800	0.05780
Scenedesmus		6	0	293	250	0.07323
CYANOPHYCEAE						
Aphanizomenonaceae family - straight	P	0	11	21	67	0.00144
Oscillatoriales (iauv 1-100)	P	0	13	25	60.8	0.00154
Planktolyngbya		10	0	488	3.8	0.00186
Synechococcales small (iauv <20)		69	0	3368	5.25	0.01768

TOTAL BGA	**3902**	**0.02252**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**46**	**0.00298**
TOTAL ALGAE	**8123**	**0.57603**

ANALYST: ***Adam Deliyiannis (signatory)*** REVIEWED: ***Louise Ungemach (signatory)*** DATE: **14/06/2022**
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: *Adam Deliyiannis (signatory)* REVIEWED: *Louise Ungemach (signatory)* DATE: **14/06/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA