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. :	7086223 21-35420
LOCALITY :	EM2113768-016
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	14/07/2021
DATE ANALYSED :	20/07/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0291 **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						
Anaulus		0	2	4	500	0.00194
Centrales		2	0	97	200	0.01943
Chaetoceros		1	0	49	200	0.00972
Licmophora		1	0	49	850	0.04130
Nitzschia		1	0	49	400	0.01943
Pennales		1	0	49	300	0.01458
CHLOROPHYCEAE						
Chlorococcoids (<10um)		9	0	437	60	0.02624
Crucigenia		4	0	194	30	0.00583
Monoraphidium		2	0	97	900	0.08746
Oocystis		1	0	49	300	0.01458
Planctonema		0	8	16	800	0.01244
CRYPTOPHYCEAE						
Cryptomonads		7	0	340	320	0.10883
CYANOPHYCEAE						
Limnolyngbya		17	0	826	4.9	0.00405
Planktolyngbya		0	13	25	3.8	0.00010
Synechococcales small (iauv <20)		11	0	534	5.25	0.00281
DINOPHYCEAE						
Gymnodiniales		0	1	2	2000	0.00389
OTHER PHYTOPLANKTON						
Other small flagellates		7	0	340	80	0.02721

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **20/07/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
				TOTAL BGA	**1385**		**0.00695**
				TOTAL TOXIGENIC BGA	**0**		**0.00000**
				TOTAL POTENTIALLY TOXIC BGA	**0**		**0.00000**
				TOTAL ALGAE	**3157**		**0.39982**

+ 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)* **Biologist**

REVIEWED: *Adam Deliyiannis* **Biologist**

DATE: **20/07/2021**

METHOD NO.: MB010/MW024VCA