ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681708 20-40763
LOCALITY :	EM2014780-003
SITE :	Seagull Island
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0208 **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						
Nitzschia		48	0	2351	400	0.94044
Pennales		0	2	4	300	0.00118
Pennales (small <20um)		3	0	147	251	0.03688
CHLOROPHYCEAE						
Ankistrodesmoideae		214	0	10482	132	1.38362
Chlorococcoids		8000	0	391850	500	195.92476
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01714
CRYPTOPHYCEAE						
Cryptomonads		5	0	245	320	0.07837
CYANOPHYCEAE						
Planktolyngbya		49	0	2400	3.8	0.00912
Synechococcales small (iauv <20)		27200	0	1332288	5.25	6.99451
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97962
Gymnodiniales		1	0	49	2000	0.09796
Gymnodiniales (small)		15	0	735	500	0.36736
Peridiniales		3	0	147	5000	0.73472
OTHER PHYTOPLANKTON						
Other small flagellates		17	0	833	80	0.06661
Prasinophytes		1	0	49	100	0.00490

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV

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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)	1.0208						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1334688**		**7.00363**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1741678**		**207.63721**

+ 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**

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