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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695265 20-42534
LOCALITY :	EM2015594_017
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with high levels of small BGA and greens present. Water quality may be impaired.

Sedgewick-Rafter Vol.(ml) 1.0333 **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		1	0	48	500	0.02419
Nitzschia		73	0	3532	400	1.41295
Pennales		1	0	48	300	0.01452
CHLOROPHYCEAE						
Ankistrodesmoideae		290	0	14033	132	1.85232
Chlamydomonads		2	0	97	250	0.02419
Chlorococcoids (<10um)		2340	0	113229	60	6.79377
CHRYSOPHYCEAE						
Other Chrysophyceae		2	0	97	350	0.03387
CRYPTOPHYCEAE						
Cryptomonads		20	0	968	320	0.30969
CYANOPHYCEAE						
Leptolyngbya		0	72	139	2.36	0.00033
Planktolyngbya		25	0	1210	3.8	0.00460
Synechococcales small (iauv <20)		8100	0	391948	5.25	2.05773
DINOPHYCEAE						
Dinoflagellates		4	0	194	20000	3.87109
Gymnodiniales		9	0	435	2000	0.87100
Gymnodiniales (small)		11	0	532	500	0.26614
Peridiniales		2	0	97	5000	0.48389
OTHER PHYTOPLANKTON						
Other small flagellates		9	0	435	80	0.03484

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **14/09/2020**
Biologist **Biologist**

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)	1.0333						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**393297**		**2.06265**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**527042**		**18.05510**

+ 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: **14/09/2020**
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