

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





ALGAL REPORT

CLIENT:	ALS
LABORATORY NO./BATCH NO.:	6657135 20-37229
LOCALITY:	EM2013637_017
SITE:	McGrath Flat North
SAMPLE:	Surface
DATE SAMPLED :	5/08/2020
DATE ANALYSED :	11/08/2020
SAMPLED BY:	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens present in excessive levels. Water quality is likely to be impaired.

Sedgewick-Rafter Vol.(ml) Concentration Magnification Fields	1.0199 1:1 Toxigeni (T) or Potential toxic (P) *	ly	- 100x 500	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
BACILLARIOPHYCEAE						
Centrales		1	0	49	200	0.00980
Navicula		1	0	49	1400	0.06863
Pennales		2	0	98	300	0.02941
Pleurosigma		0	7	14	2000	0.02745
CHLOROPHYCEAE						
Ankistrodesmoideae		242	0	11864	132	1.56604
Chlamydomonads		1	0	49	250	0.01226
Chlorococcoids (<10um)		2420	0	118639	60	7.11834
Selenastrum		1	0	49	250	0.01226
CRYPTOPHYCEAE						
Cryptomonads		13	0	637	320	0.20394
CYANOPHYCEAE						
Planktolyngbya		126	0	6177	3.8	0.02347
Synechococcales small (iauv <20)		8020	0	393176	5.25	2.06417
DINOPHYCEAE						
Gymnodiniales		13	0	637	2000	1.27463
Gymnodiniales (small)		5	0	245	500	0.12256
Peridiniales		3	0	147	5000	0.73537
OTHER PHYTOPLANKTON	·		•	·		
Other small flagellates		450	0	22061	80	1.76488
Prasinophytes		32	0	1569	100	0.15688

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 11/08/2020
Biologist Biologist

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Sedgewick-Rafter Vol.(ml) Concentration	1.0199 1 : 1	Toxigenic (T) or Potentially			Total Cell	Individual Algal Unit	Total
Magnification		toxic (P)	- 200x	- 100x	Count (cells/mL)	Volume	Biovolume (mm3/L)
Fields		*	20	500	(CCIIS/IIIL)	(um3)	(IIIII3/L)

2.08765	399353	TOTAL BGA
0.00000	0	TOTAL TOXIGENIC BGA
0.00000	0	TOTAL POTENTIALLY TOXIC BGA
15.19011	555460	TOTAL ALGAE

⁺ 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.

ANALYST: Kirsten Mudie (signatory) REVIEWED: Adam Deliyiannis DATE: 11/08/2020
Biologist Biologist

METHOD NO.: MB010/MW024CV Page 2 of 2

^{*} 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.