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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695255 20-42534
LOCALITY :	EM2015594_007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	8/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

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

Sedgewick-Rafter Vol.(ml) 1.0235 **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	147	200	0.02931
Chaetoceros		120	0	5862	200	1.17245
Naviculales		4	0	195	1400	0.27357
Nitzschia		5	0	244	400	0.09770
Pennales (small <20um)		2	0	98	251	0.02452
Pleurosigma		0	1	2	2000	0.00391
CHLOROPHYCEAE						
Ankistrodesmoideae		22	0	1075	132	0.14187
Chlamydomonads		10	0	489	250	0.12213
Chlorococcoids (<10um)		1240	0	60576	60	3.63459
Selenastrum		5	0	244	250	0.06106
CRYPTOPHYCEAE						
Cryptomonads		42	0	2052	320	0.65657
CYANOPHYCEAE						
Planktolyngbya		168	0	8207	3.8	0.03119
Synechococcales small (iauv <20)		1040	0	50806	5.25	0.26673
DINOPHYCEAE						
Gymnodiniales		5	0	244	2000	0.48852
Gymnodiniales (small)		10	0	489	500	0.24426
Peridiniales		1	0	49	5000	0.24426
Polykrikos		0	4	8	102170	0.79859
Protoperidinium		0	1	2	31000	0.06058
EUGLENOPHYCEAE						
Eutreptia		2	0	98	1000	0.09770
OTHER PHYTOPLANKTON						

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

METHOD NO.: MB010/MW024CV

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Other small flagellates		140	0	6839	80	0.54714
Prasinophytes		70	0	3420	100	0.34196

TOTAL BGA	**59013**	**0.29792**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**141146**	**9.33862**

+ 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**
Biologist **Biologist**

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