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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622175 20-32670
LOCALITY :	EM2011705_007
SITE :	Bonneys
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	10/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A highly diverse algal community was observed with small BGA and greens most numerous. Algal levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Amphora			0	1	2
Chaetoceros			122	0	5981
Navicula			2	0	98
Nitzschia			2	0	98
Pennales			1	0	49
Pennales (small <20um)			2	0	98
Pleurosigma			0	1	2
CHLOROPHYCEAE					
Chlamydomonads			84	0	4118
Chlorococcoids			570	0	27944
Monoraphidium			42	0	2059
CRYPTOPHYCEAE					
Cryptomonads			48	0	2353
CYANOPHYCEAE					
Planktolyngbya			378	0	18531
Pseudanabaena			0	10	20
Synechococcales small (iauv <20)			1080	0	52946
DINOPHYCEAE					
Gymnodiniales (small)			3	0	147
Peridiniales			0	3	6
OTHER PHYTOPLANKTON					
Prasinophytes			3	0	147

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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TOTAL BGA	**71497**
TOTAL TOXIGENIC BGA	**0**
TOTAL POTENTIALLY TOXIC BGA	**0**
TOTAL ALGAE	**114599**

+ The comments are discretionary and are for the purpose of helping to understand WQ implications.The comments are not accredited by NATA.

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: **13/07/2020**

Biologist **Biologist**

METHOD NO.: MB010