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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643340 20-35580
LOCALITY :	EM2012826_014
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	27/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current levels of algae unlikely to influence water quality. The presence of toxigenic BGA Nodularia is noteworthy, though current low levels do not pose a health risk.

Sedgewick-Rafter Vol.(ml)	1.0145	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**
Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
BACILLARIOPHYCEAE					
Chaetoceros			3	0	148
Licmophora			0	1	2
Nitzschia			1	0	49
Pennales			1	0	49
CHLOROPHYCEAE					
Ankistrodesmus			4	0	197
Chlamydomonads			39	0	1922
Chlorococcoids			23	0	1134
Closterium			0	1	2
Crucigenia			8	0	394
Dictyosphaerium			4	0	197
Filamentous Green			3	0	148
Hyaloraphidium			4	0	197
Lagerheimia			1	0	49
Oocystis			2	0	99
Selenastrum			2	0	99
CHRYSOPHYCEAE					
Other Chrysophyceae			7	0	345
CRYPTOPHYCEAE					
Cryptomonads			60	0	2957
CYANOPHYCEAE					
Leptolyngbya			0	59	116
Nodularia spumigena		T	0	22	43
Planktolyngbya			50	0	2464
Pseudanabaena			0	16	32

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis*** DATE: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010

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Concentration	1 : 1				
Magnification			- 200x	- 100x	
Fields		*	20	500	
Synechococcales small (iauv <20)			76	0	3746
DINOPHYCEAE					
Gymnodiniales			1	0	49
Gymnodiniales (small)			2	0	99
EUGLENOPHYCEAE					
Euglena			3	0	148
OTHER PHYTOPLANKTON					
Prasinophytes			1	0	49
			TOTAL BGA		**6401**
			TOTAL TOXIGENIC BGA		**43**
			TOTAL POTENTIALLY TOXIC BGA		**0**
			TOTAL ALGAE		**14734**

+ 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: **28/07/2020**

Biologist **Biologist**

METHOD NO.: MB010