

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6643329 20-35580
LOCALITY :	EM2012826_003
SITE :	Seagull Island
SAMPLE :	Surface
DATE SAMPLED :	22/07/2020
DATE ANALYSED :	28/07/2020
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)	1.0018	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Concentration	1 : 1	*	20	500	
Magnification					
Fields					

BACILLARIOPHYCEAE

<i>Amphora</i>		2	0	100
<i>Navicula</i>		1	0	50
<i>Nitzschia</i>		27	0	1348
<i>Pennales</i>		1	0	50
<i>Pennales (small <20um)</i>		6	0	299

CHLOROPHYCEAE

<i>Chlamydomonads</i>		360	0	17968
<i>Chlorococcoids</i>		5920	0	295468
<i>Monoraphidium</i>		310	0	15472

CRYPTOPHYCEAE

<i>Cryptomonads</i>		11	0	549
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CYANOPHYCEAE

<i>Planktolyngbya</i>		27	0	1348
<i>Pseudanabaena</i>		4	0	200
<i>Synechococcales small (iauv <20)</i>		40800	0	2036335

DINOPHYCEAE

<i>Gymnodiniales</i>		4	0	200
<i>Gymnodiniales (small)</i>		19	0	948
<i>Peridinales</i>		3	0	150

OTHER PHYTOPLANKTON

<i>Prasinophytes</i>		39	0	1946
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TOTAL BGA	2037883
TOTAL TOXIGENIC BGA	0
TOTAL POTENTIALLY TOXIC BGA	0
TOTAL ALGAE	2372431

ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **28/07/2020**

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+ 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.

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METHOD NO.: MB010

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