

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6622180 20-32670
LOCALITY :	EM2011705_012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	7/07/2020
DATE ANALYSED :	10/07/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with small BGA and greens dominating the sample. Water quality will be impaired and this water may pose a health concern e.g. skin/gastric irritations.

Sedgewick-Rafter Vol.(ml)	1.0208	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)
Concentration	1 : 1	*	20	500	
Magnification					
Fields					

BACILLARIOPHYCEAE

<i>Amphora</i>		0	2	4
<i>Centrales</i>		1	0	49
<i>Cymbella</i>		0	1	2
<i>Navicula</i>		1	0	49
<i>Nitzschia</i>		32	0	1567
<i>Pennales (small <20um)</i>		4	0	196

CHLOROPHYCEAE

<i>Chlamydomonads</i>		1320	0	64655
<i>Chlorococcoids</i>		10880	0	532915
<i>Monoraphidium</i>		580	0	28409

CHRYSOPHYCEAE

<i>Other Chrysophyceae</i>		12	0	588
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CRYPTOPHYCEAE

<i>Cryptomonads</i>		16	0	784
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CYANOPHYCEAE

<i>Planktolyngbya</i>		406	0	19886
<i>Synechococcales small (iauv <20)</i>		35360	0	1731975

DINOPHYCEAE

<i>Gymnodiniales (small)</i>		18	0	882
<i>Peridinales</i>		5	0	245

OTHER PHYTOPLANKTON

<i>Prasinophytes</i>		4	0	196
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ANALYST: **Kirsten Mudie (signatory)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **13/07/2020**

METHOD NO.: MB010

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TOTAL BGA	1751861
TOTAL TOXIGENIC BGA	0
TOTAL POTENTIALLY TOXIC BGA	0
TOTAL ALGAE	2382402

+ 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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