

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681719 20-40763
LOCALITY :	EM2014780_015
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current algal levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

BACILLARIOPHYCEAE

<i>Chaetoceros</i>		9	0	441	200	0.08824
<i>Cocconeis</i>		0	1	2	450	0.00088
<i>Nitzschia</i>		1	0	49	400	0.01961
<i>Pennales</i>		2	0	98	300	0.02941

CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		10	0	490	132	0.06471
<i>Chlamydomonads</i>		38	0	1863	250	0.46573
<i>Chlorococcoids (<10um)</i>		28	0	1373	60	0.08236
<i>Planctonema</i>		0	3	6	800	0.00471

CHRYSTOPHYCEAE

<i>Other Chrysophyceae</i>		4	0	196	350	0.06863
----------------------------	--	---	---	-----	-----	---------

CRYPTOPHYCEAE

<i>Cryptomonads</i>		174	0	8530	320	2.72968
---------------------	--	-----	---	------	-----	---------

CYANOPHYCEAE

<i>Oscillatoriales (iauv 1-100)</i>	P	0	43	84	60.8	0.00513
<i>Synechococcales small (iauv <20)</i>		499	0	24463	5.25	0.12843

DINOPHYCEAE

<i>Gymnodiniales</i>		0	2	4	2000	0.00784
<i>Gymnodiniales (small)</i>		1	0	49	500	0.02451

EUGLENOPHYCEAE

<i>Eutreptia</i>		0	2	4	1000	0.00392
------------------	--	---	---	---	------	---------

OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		58	0	2843	80	0.22747
<i>Prasinophytes</i>		8	0	392	100	0.03922

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

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV

Page 1 of 2

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681719 20-40763
LOCALITY :	EM2014780_015
SITE :	Long Point
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	28/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed with current algal levels unlikely to impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0199	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um ³)	Total Biovolume (mm ³ /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

TOTAL BGA	24547	0.13356
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	84	0.00513
TOTAL ALGAE	40887	3.99051

+ 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)**
Biologist

REVIEWED: **Adam Deliyannis**
Biologist

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV

Page 2 of 2