

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781615 20-54272
LOCALITY :	EM2020558_006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels may mildly impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0069	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

Centrales		1	0	50	200	0.00993
Chaetoceros		76	0	3774	200	0.75479
Naviculales		1	0	50	1400	0.06952
Nitzschia		6	0	298	400	0.11918
Pennales		1	0	50	300	0.01490
Pennales (small <20um)		11	0	546	251	0.13710

CHLOROPHYCEAE

Chlorococcoids (<10um)		14	0	695	60	0.04171
Selenastrum		1	0	50	250	0.01241

CYANOPHYCEAE

Planktolyngbya		7	0	348	3.8	0.00132
Synechococcales small (iauv <20)		276	0	13705	5.25	0.07195

DINOPHYCEAE

Dinoflagellates		0	4	8	20000	0.15890
Gymnodiniales (small)		1	0	50	500	0.02483

OTHER PHYTOPLANKTON

Other small flagellates		6	0	298	80	0.02384
-------------------------	--	---	---	-----	----	---------

TOTAL BGA	14053	0.07327
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	19922	1.44039

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	6781615 20-54272
LOCALITY :	EM2020558_006
SITE :	Noonameena
SAMPLE :	Surface
DATE SAMPLED :	18/11/2020
DATE ANALYSED :	23/11/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels may mildly impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0069	Toxigenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

+ 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: **Adam Deliyannis**
Biologist

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

DATE: **23/11/2020**

METHOD NO.: MB010/MW024VCA

Page 2 of 2