

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187816 22-45580
LOCALITY :	EM2209350-012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

**COMMENTS:** + A diverse community of algal taxa were observed. Current levels are likely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0169	Toxicogenic (T) or Potentially toxic (P)	- 200x	- 100x	Total Cell Count (cells/mL)	Individual Algal Unit Volume (um <sup>3</sup> )	Total Biovolume (mm <sup>3</sup> /L)
Concentration	1 : 1	*	20	500			
Magnification							
Fields							

### BACILLARIOPHYCEAE

<i>Nitzschia</i>		145	0	7130	400	2.85180
<i>Pennales</i>		1	0	49	300	0.01475
<i>Pennales (small &lt;20um)</i>		1	0	49	251	0.01234

### CHLOROPHYCEAE

<i>Ankistrodesmoideae</i>		191	0	9391	132	1.23965
<i>Chlorococcoids (&lt;10um)</i>		725	0	35648	60	2.13885
<i>Monoraphidium (small)</i>		38	0	1868	16	0.02989

### CHRYSTOPHYCEAE

<i>Synura</i>		42	0	2065	300	0.61953
---------------	--	----	---	------	-----	---------

### CRYPTOPHYCEAE

<i>Cryptomonads</i>		15	0	738	320	0.23601
---------------------	--	----	---	-----	-----	---------

### CYANOPHYCEAE

<i>Synechococcales small (iauv &lt;20)</i>		14000	0	688367	5.25	3.61392
--	--	-------	---	--------	------	---------

### DINOPHYCEAE

<i>Gymnodiniales</i>		3	0	148	2000	0.29501
<i>Gymnodiniales (small)</i>		11	0	541	500	0.27043

### OTHER PHYTOPLANKTON

<i>Other small flagellates</i>		10	0	492	80	0.03934
--------------------------------	--	----	---	-----	----	---------

TOTAL BGA	688367	3.61392
TOTAL TOXIGENIC BGA	0	0.00000
TOTAL POTENTIALLY TOXIC BGA	0	0.00000
TOTAL ALGAE	746486	11.36154

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*  
Biologist Biologist

DATE: **24/05/2022**

## ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	187816 22-45580
LOCALITY :	EM2209350-012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	19/05/2022
DATE ANALYSED :	24/05/2022
SAMPLED BY :	Sample analysed as received

**COMMENTS: +** A diverse community of algal taxa were observed. Current levels are likely to influence water quality.

Sedgewick-Rafter Vol.(ml)	1.0169	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  $\beta$ -N-methylamino-L-alanine (BMAA) and its analogues. Therefore all cyanobacteria could be considered to pose a level of risk.

ANALYST: *Adam Deliyannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)*  
Biologist Biologist

DATE: **24/05/2022**