ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7428777 22-19601
LOCALITY :	EM2207234-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	20/04/2022
DATE ANALYSED :	26/04/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of low biovolume BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.024 **Concentration** 1 : 1 **Magnification** **Fields**	**Toxigenic (T) or Potentially toxic (P) ***	- 200x 20	- 100x 500	**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
BACILLARIOPHYCEAE						
Centrales		4	0	195	200	0.03906
Nitzschia		7	0	342	400	0.13672
Pennales		3	0	146	300	0.04395
Pennales (small <20um)		13	0	635	251	0.15933
Pleurosigma		0	4	8	2000	0.01563
CHLOROPHYCEAE						
Ankistrodesmoideae		72	0	3516	132	0.46406
Chlorococcoids (<10um)		5020	0	245117	60	14.70703
CRYPTOPHYCEAE						
Cryptomonads		8	0	391	320	0.12500
CYANOPHYCEAE						
Limnothrix/Geitlerinema/Anagnostidinema	P	0	95	186	17.5	0.00325
Planktolyngbya		10	0	488	3.8	0.00186
Synechococcales small (iauv <20)		2080	0	101563	5.25	0.53320
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09766
Peridiniales		1	0	49	5000	0.24414
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	293	80	0.02344
Prasinophytes		1	0	49	100	0.00488

TOTAL BGA	**102237**	**0.53831**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**186**	**0.00325**
TOTAL ALGAE	**353027**	**16.59919**

ANALYST: ***Kirsten Mudie (signatory)*** REVIEWED: ***Adam Deliyiannis (signatory)*** DATE: **26/04/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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)* REVIEWED: *Adam Deliyiannis (signatory)* DATE: **26/04/2022**
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