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. :	7394981 22-15545
LOCALITY :	EM2204816-009
SITE :	Parnka Point
SAMPLE :	Surface
DATE SAMPLED :	16/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current levels will impact water quality.

Sedgewick-Rafter Vol.(ml) 1.0407 **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						
Gyrosigma		1	0	48	1400	0.06726
Nitzschia		140	0	6726	400	2.69050
Pennales		4	0	192	300	0.05765
Pennales (small <20um)		1	0	48	251	0.01206
CHLOROPHYCEAE						
Ankistrodesmoideae		236	0	11339	132	1.49668
Chlorococcoids (<10um)		1040	0	49966	60	2.99798
CYANOPHYCEAE						
Synechococcales small (iauv <20)		2160	0	103776	5.25	0.54483
DINOPHYCEAE						
Gymnodiniales		5	0	240	2000	0.48045
Gymnodiniales (small)		3	0	144	500	0.07207

TOTAL BGA	**103776**	**0.54483**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**172479**	**8.41948**

+ 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 Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **25/03/2022**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA