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. :	7394976 22-15545
LOCALITY :	EM2204816-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	16/03/2022
DATE ANALYSED :	25/03/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse algal community was observed. Current algal levels may mildly influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0235 **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 - (5-10um)		104	0	5081	80	0.40645
Chaetoceros		0	3	6	200	0.00117
Nitzschia		0	1	2	400	0.00078
Pennales		10	0	489	300	0.14656
Pennales (small <20um)		5	0	244	251	0.06131
CHLOROPHYCEAE						
Chlamydomonads		1	0	49	250	0.01221
Chlorococcoids (<10um)		39	0	1905	60	0.11431
Crucigenia		4	0	195	30	0.00586
Dictyosphaerium		4	0	195	20	0.00391
Lagerheimia		1	0	49	500	0.02443
Monoraphidium (small)		16	0	782	16	0.01251
Monoraphidium (large)		0	1	2	400	0.00078
Oocystis		25	0	1221	300	0.36639
Pediastrum		8	0	391	60	0.02345
Planctonema		32	0	1563	800	1.25061
Tetrastrum		4	0	195	40	0.00782
CHRYSOPHYCEAE						
Other Chrysophytes		1	0	49	200	0.00977
CRYPTOPHYCEAE						
Cryptomonads		3	0	147	320	0.04690
CYANOPHYCEAE						
Limnolyngbya		0	55	107	4.9	0.00053
Planktolyngbya		15	0	733	3.8	0.00278
Synechococcales small (iauv <20)		88	0	4299	5.25	0.02257

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

METHOD NO.: MB010/MW024VCA

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DINOPHYCEAE						
Peridiniales		0	1	2	5000	0.00977
OTHER PHYTOPLANKTON						
Other small flagellates		1	0	49	80	0.00391

TOTAL BGA	**5139**	**0.02588**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**17755**	**2.53477**

+ 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.***

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