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. :	7328734 22-06265
LOCALITY :	EM2201088-005
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	21/01/2022
DATE ANALYSED :	1/02/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + Current algal levels are unlikely to influence 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						
Centrales - (5-10um)		1160	0	55732	80	4.45854
Nitzschia		2	0	96	400	0.03844
Pennales		3	0	144	300	0.04324
Pennales (small <20um)		2	0	96	251	0.02412
CHLOROPHYCEAE						
Ankistrodesmoideae		1	0	48	132	0.00634
Chlorococcoids (<10um)		14	0	673	60	0.04036
Crucigenia		20	0	961	30	0.02883
Dictyosphaerium		32	0	1537	20	0.03075
Didymocystis		4	0	192	41	0.00788
Lagerheimia		4	0	192	500	0.09609
Monoraphidium (small)		12	0	577	16	0.00922
Oocystis		7	0	336	300	0.10089
Planctonema		96	0	4612	800	3.68982
Schroederia		1	0	48	550	0.02642
Tetrastrum		8	0	384	40	0.01537
CHRYSOPHYCEAE						
Other Chrysophytes		3	0	144	200	0.02883
CYANOPHYCEAE						
Limnolyngbya		14	0	673	4.9	0.00330
Planktolyngbya		65	0	3123	3.8	0.01187
Pseudanabaena		13	0	625	12.5	0.00781
Synechococcales small (iauv <20)		56	0	2690	5.25	0.01413
DINOPHYCEAE						
Gymnodiniales (small)		2	0	96	500	0.04804

ANALYST: *Adam Deliyiannis (signatory)* REVIEWED: *Kirsten Mudie (signatory)* DATE: **01/02/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA

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OTHER PHYTOPLANKTON						
Other small flagellates		26	0	1249	80	0.09993
Raphidophytes		0	5	10	7000	0.06726

TOTAL BGA	**7111**	**0.03710**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**74238**	**8.89748**

+ 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: **01/02/2022**
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