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. :	7171290 21-46438
LOCALITY :	EM2119079-004
SITE :	Mark Point
SAMPLE :	Surface
DATE SAMPLED :	23/09/2021
DATE ANALYSED :	28/09/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current levels are unlikely to influence water quality.

Sedgewick-Rafter Vol.(ml) 1.0242 **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		2	0	98	200	0.01953
Chaetoceros		29	0	1416	200	0.28315
Pennales (small <20um)		1	0	49	251	0.01225
CHLOROPHYCEAE						
Ankistrodesmoideae		4	0	195	132	0.02578
Chlamydomonads		1	0	49	250	0.01220
Chlorococcoids (<10um)		4	0	195	60	0.01172
Crucigenia		12	0	586	30	0.01757
Lagerheimia		1	0	49	500	0.02441
Oocystis		9	0	439	300	0.13181
Planctonema		13	0	635	800	0.50771
Scenedesmus		2	0	98	250	0.02441
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01709
CRYPTOPHYCEAE						
Cryptomonads		1	0	49	320	0.01562
CYANOPHYCEAE						
Leptolyngbya		0	15	29	2.36	0.00007
Limnolyngbya (Planktolyngbya circumcreta)		26	0	1269	4.9	0.00622
Planktolyngbya		10	0	488	3.8	0.00186
Pseudanabaena		34	0	1660	12.5	0.02075
Synechococcales small (iauv <20)		73	0	3564	5.25	0.01871
OTHER PHYTOPLANKTON						
Other small flagellates		6	0	293	80	0.02343
Prasinophytes		1	0	49	100	0.00488

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

DATE: **29/09/2021**

METHOD NO.: MB010/MW024VCA

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Raphidophytes		3	0	146	7000	1.02519

TOTAL BGA	**7010**	**0.04760**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**11405**	**2.20436**

+ 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* **Biologist**

REVIEWED: *Louise Ungemach (signatory)* **Biologist**

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