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. :	6750295 20-50047
LOCALITY :	EM2018692_004
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	21/10/2020
DATE ANALYSED :	26/10/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + Excessive levels of small BGA and greens dominated the sample. Water quality will be impaired.

Sedgewick-Rafter Vol.(ml) 1.0168 **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		3	0	148	200	0.02950
Naviculales		0	3	6	1400	0.00826
Nitzschia		32	0	1574	400	0.62943
Pennales		1	0	49	300	0.01475
Pennales (small <20um)		1	0	49	251	0.01234
CHLOROPHYCEAE						
Ankistrodesmoideae		340	0	16719	132	2.20692
Chlamydomonads		3	0	148	250	0.03688
Chlorococcoids (<10um)		3440	0	169158	60	10.14949
CHRYSOPHYCEAE						
Other Chrysophyceae		12	0	590	350	0.20653
CRYPTOPHYCEAE						
Cryptomonads		3	0	148	320	0.04721
CYANOPHYCEAE						
Planktolyngbya		17	0	836	3.8	0.00318
Spirulina		0	525	1033	5.73	0.00592
Synechococcales small (iauv <20)		9020	0	443548	5.25	2.32863
DINOPHYCEAE						
Dinoflagellates		5	0	246	20000	4.91739
Gymnodiniales		13	0	639	2000	1.27852
Gymnodiniales (small)		7	0	344	500	0.17211
Peridiniales		4	0	197	5000	0.98348
OTHER PHYTOPLANKTON						
Other small flagellates		420	0	20653	80	1.65224

ANALYST: *Kirsten Mudie (signatory)* REVIEWED: *Adam Deliyiannis* DATE: **27/10/2020**
Biologist **Biologist**

METHOD NO.: MB010/MW024CV

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		Toxigenic (T) or Potentially toxic (P)			Total Cell Count (cells/mL)	Individual Algal Unit Volume (um3)	Total Biovolume (mm3/L)
Sedgewick-Rafter Vol.(ml)	1.0168						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**445417**		**2.33772**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**656085**		**24.68278**

+ 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* DATE: **27/10/2020**
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