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. :	7791209 22-70933
LOCALITY :	EM2218952_008
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	10/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of small BGA and greens are likely to have an impact on water quality.

Sedgewick-Rafter Vol.(ml) 1.0142 **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		1	0	49	200	0.00986
Entomoneis		0	1	2	1000	0.00197
Naviculales		1	0	49	1400	0.06902
Nitzschia		1	0	49	400	0.01972
Pennales		1	0	49	300	0.01479
Pennales (small <20um)		7	0	345	251	0.08662
CHLOROPHYCEAE						
Ankistrodesmoideae		540	0	26622	132	3.51410
Chlamydomonads		6	0	296	250	0.07395
Chlorococcoids (<10um)		3600	0	177480	60	10.64879
CRYPTOPHYCEAE						
Cryptomonads		19	0	937	320	0.29974
CYANOPHYCEAE						
Oscillatoriales (iauv 1-100)	P	0	42	83	60.8	0.00504
Synechococcales small (iauv <20)		15200	0	749359	5.25	3.93414
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09860
Gymnodiniales (small)		1	0	49	500	0.02465
OTHER PHYTOPLANKTON						
Other small flagellates		610	0	30073	80	2.40584

TOTAL BGA	**749442**	**3.93917**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**83**	**0.00504**
TOTAL ALGAE	**985491**	**21.20682**

ANALYST: *Kirsten Mudie (signatory)* **Biologist**
REVIEWED: *Adam Deliyiannis (signatory)* **Biologist**
DATE: **10/10/2022**

METHOD NO.: MB010/MW024VCA

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. :	7791209 22-70933
LOCALITY :	EM2218952_008
SITE :	Snipe Point
SAMPLE :	Surface
DATE SAMPLED :	29/09/2022
DATE ANALYSED :	10/10/2022
SAMPLED BY :	Sample analysed as received

COMMENTS: + High levels of small BGA and greens are likely to have an impact on water quality.

Sedgewick-Rafter Vol.(ml)	1.0142	**Toxigenic (T) or Potentially toxic (P)**			**Total Cell Count (cells/mL)**	**Individual Algal Unit Volume (um3)**	**Total Biovolume (mm3/L)**
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			

+ 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 (signatory)* DATE: **10/10/2022**

Biologist **Biologist**

METHOD NO.: MB010/MW024VCA