ALS Water
22 Dalmore Drive Scoresby 3179
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ALGAL REPORT

CLIENT :	Australian Laboratory Services Pty Ltd SA
LABORATORY NO./BATCH NO. :	7218528 21-52583
LOCALITY :	EM2121437-002
SITE :	3.2km Sth of Salt Ck
SAMPLE :	Surface
DATE SAMPLED :	26/10/2021
DATE ANALYSED :	9/11/2021
SAMPLED BY :	Sample analysed as received

COMMENTS: + A moderately diverse algal community was observed with excessive levels of small BGA sufficient to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0046 **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						
Naviculales		0	2	4	1400	0.00557
Pennales (small <20um)		2	0	100	251	0.02499
CHLOROPHYCEAE						
Ankistrodesmoideae		620	0	30858	132	4.07326
Chlorococcoids (<10um)		1560	0	77643	60	4.65857
Oocystis		1	0	50	300	0.01493
CYANOPHYCEAE						
Synechococcales small (iauv <20)		54720	0	2723472	5.25	14.29823
DINOPHYCEAE						
Dinoflagellates		0	1	2	20000	0.03982
Gymnodiniales		0	6	12	2000	0.02389
OTHER PHYTOPLANKTON						
Other small flagellates		32	0	1593	80	0.12741

TOTAL BGA	**2723472**	**14.29823**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2833734**	**23.26667**

+ 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: **10/11/2021**
Biologist **Biologist**

METHOD NO.: MB010/MW024VCA