ALS Water
22 Dalmore Drive Scoresby 3179
Tel. 03 8756 8183 Fax. 03 9763 1862

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6695260 20-42534
LOCALITY :	EM2015594-012
SITE :	North Jacks Point
SAMPLE :	Surface
DATE SAMPLED :	9/09/2020
DATE ANALYSED :	11/09/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse and numerous community of algal taxa was observed. Current levels are likely to impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0218 **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						
Amphora		1	0	49	500	0.02447
Nitzschia		23	0	1125	400	0.45019
Pennales (small <20um)		1	0	49	251	0.01228
CHLOROPHYCEAE						
Ankistrodesmoideae		194	0	9493	132	1.25308
Chlamydomonads		2	0	98	250	0.02447
Chlorococcoids (<10um)		1780	0	87101	60	5.22607
CHRYSOPHYCEAE						
Other Chrysophyceae		1	0	49	350	0.01713
CRYPTOPHYCEAE						
Cryptomonads		18	0	881	320	0.28186
CYANOPHYCEAE						
Planktolyngbya		46	0	2251	3.8	0.00855
Synechococcales small (iauv <20)		22400	0	1096105	5.25	5.75455
DINOPHYCEAE						
Dinoflagellates		1	0	49	20000	0.97867
Gymnodiniales		5	0	245	2000	0.48933
Gymnodiniales (small)		8	0	391	500	0.19573
Peridiniales		8	0	391	5000	1.95733
OTHER PHYTOPLANKTON						
Other small flagellates		17	0	832	80	0.06655
Prasinophytes		9	0	440	100	0.04404

ANALYST: *Adam Deliyiannis* **Biologist**

REVIEWED: *Kirsten Mudie (signatory)* **Biologist**

DATE: **11/09/2020**

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)	1.0218						
Concentration	1 : 1						
Magnification			- 200x	- 100x			
Fields		*	20	500			
TOTAL BGA					**1098356**		**5.76310**
TOTAL TOXIGENIC BGA					**0**		**0.00000**
TOTAL POTENTIALLY TOXIC BGA					**0**		**0.00000**
TOTAL ALGAE					**1199549**		**16.78429**

+ 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: *Kirsten Mudie (signatory)* **Biologist**

DATE: **11/09/2020**

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