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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681712 20-40763
LOCALITY :	EM2014780-008
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml) 1.0235 **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						
Nitzschia		76	0	3713	400	1.48510
Pennales		0	3	6	300	0.00176
CHLOROPHYCEAE						
Ankistrodesmoideae		356	0	17391	132	2.29565
Chlorococcoids (<10um)		9600	0	468979	60	28.13874
CRYPTOPHYCEAE						
Cryptomonads		8	0	391	320	0.12506
CYANOPHYCEAE						
Planktolyngbya		111	0	5423	3.8	0.02061
Synechococcales small (iauv <20)		34880	0	1703957	5.25	8.94577
DINOPHYCEAE						
Gymnodiniales		1	0	49	2000	0.09770
Gymnodiniales (small)		9	0	440	500	0.21983
Peridiniales		2	0	98	5000	0.48852
OTHER PHYTOPLANKTON						
Other small flagellates		15	0	733	80	0.05862
Prasinophytes		7	0	342	100	0.03420

TOTAL BGA	**1709380**	**8.96638**
TOTAL TOXIGENIC BGA	**0**	**0.00000**
TOTAL POTENTIALLY TOXIC BGA	**0**	**0.00000**
TOTAL ALGAE	**2201522**	**41.91157**

ANALYST: *Adam Deliyiannis* **Biologist**

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

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV

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

ALGAL REPORT

CLIENT :	ALS
LABORATORY NO./BATCH NO. :	6681712 20-40763
LOCALITY :	EM2014780-008
SITE :	1.8km West of Salt Creek
SAMPLE :	Surface
DATE SAMPLED :	26/08/2020
DATE ANALYSED :	31/08/2020
SAMPLED BY :	Sample analysed as received

COMMENTS: + A diverse community of algal taxa was observed. Current excessive levels of small BGA and greens will impair water quality.

Sedgewick-Rafter Vol.(ml)	1.0235	**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: *Adam Deliyiannis* **Biologist**

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

DATE: **31/08/2020**

METHOD NO.: MB010/MW024CV