Adelaide SA 5001

Internet: www.awqc.com.au

Email: awqc@sawater.com.au

Tel: 1300 653 366

Fax: 1300 883 171



DEW - Department of Environment and Water

ATTN: Claire Sims 81-95 Waymouth Street

SA 5000 AUSTRALIA

12/04/2023

Dear Claire

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2022-CSR-8

Account: 143419

Project:

AWQC-180173 DEW - Healthy Coorong Healthy Basin - Non Routine Event 6- 22/23

This report has also been sent to: Tim Branford

AWQC Sample Receipt hours are Monday and Tuesday 8:30am to 8pm and Wednesday, Thursday and Friday 8:30am to 4:30pm.

Yours sincerely,

Scott Kraft **Customer Services Officer**

Scott.Kraft@sawater.com.au

Justo

+61 8 7424 1250



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FINAL REPORT: 359513

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This report supercedes the following issued reports: 358592

Report Information

Project Name AWQC-180173

Customer DEW - Department of Environment and Water

CSR_ID 143419-2022-CSR-8

Analytical Results

 Sampling Point
 351213-EPA - Murray Mouth

 Sampled Date
 14/03/2023 12:00:00PM

 Sample Received Date
 16/03/2023 9:17:18AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0328

 Status
 Endorsed

 Collection Type
 Customer Collected

Biology Operations LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Algai identification 10393(ADEL)	
Other Organisms	5500 cells/mL
BLUE GREEN ALGAE	
Cyanogranis	59700 cells/mL
Snowella	490 cells/mL
Limnothrix	12000 cells/mL
Cyanodictyon	42500 cells/mL
Cylindrospermopsis raciborskii	40 cells/mL
Microcystis aeruginosa	200 cells/mL
Dolichospermum (coiled)	206 cells/mL
Anabaena	1140 cells/mL
Dolichospermum (straight)	840 cells/mL
Anabaenopsis	102 cells/mL
Planktolyngbya	117000 cells/mL
Sphaerospermopsis	2370 cells/mL
Cuspidothrix	1620 cells/mL
Planktothrix	74 cells/mL
Dolichospermum planctonicum	32 cells/mL
Phormidium	581 cells/mL
Pseudanabaena	7120 cells/mL
DIATOMS	
Aulacoseira	635 cells/mL
GREEN ALGAE	

2310 cells/mL

9260 cells/mL



Gonatozygon

Planctonema

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Analytical Results

 Sampling Point
 351213-EPA - Murray Mouth

 Sampled Date
 14/03/2023 12:00:00PM

 Sample Received Date
 16/03/2023 9:17:18AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0328

 Status
 Endorsed

Collection Type Customer Collected

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

Phormidium	0.06 mm3/L
Dolichospermum planctonicum	0.01 mm3/L
Planktothrix	0.02 mm3/L
Cuspidothrix	0.09 mm3/L
Sphaerospermopsis	0.22 mm3/L
Planktolyngbya	0.58 mm3/L
Anabaenopsis	0.01 mm3/L
Dolichospermum (straight)	0.23 mm3/L
Anabaena	0.09 mm3/L
Dolichospermum (coiled)	0.05 mm3/L
Microcystis aeruginosa	0.02 mm3/L
Cylindrospermopsis raciborskii	<0.01 mm3/L
Cyanodictyon	0.02 mm3/L
Pseudanabaena	0.09 mm3/L
Limnothrix	0.14 mm3/L
Snowella	<0.01 mm3/L
Cyanogranis	0.03 mm3/L

DIATOMS

Aulacoseira 1.82 mm3/L

GREEN ALGAE

Gonatozygon

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

1.66 mm3/L 1.82 mm3/L

9.48 mm3/L

Total Algae Biovolume

Total Blue_Green Algae Biovolume # Total Diatom Biovolume



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Analytical Results

 Sampling Point
 351213-EPA - Murray Mouth

 Sampled Date
 14/03/2023 12:00:00PM

 Sample Received Date
 16/03/2023 9:17:18AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0328

 Status
 Endorsed

Collection Type Customer Collected

Algal Biovolume T0393(ADEL) 14/03/2023

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.02 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 258000 cells/mL

 Blue Green Algae - Total
 246000 cells/mL

 Diatoms - Total
 635 cells/mL

 Geosmin-MIB producing BGA - Total
 7730 cells/mL

 Green Algae - Total
 11600 cells/mL

 Toxin producing BGA - Total
 240 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 33.8 $\,\mu g/L$ Phaeophytin a 0.1 12.9 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	<1 µg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	115 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	2.2 µg/L	
# Nitrate + Nitrite as NO3	2.3	9.75 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		1.80 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	17.641 µg/L	

5.9 µg/L

0.5



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Phosphorus-Filterable Reactive as P

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Analytical Results

 Sampling Point
 351213-EPA - Murray Mouth

 Sampled Date
 14/03/2023 12:00:00PM

 Sample Received Date
 16/03/2023 9:17:18AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0328

 Status
 Endorsed

Collection Type Customer Collected

Phosphorus - Total T0109-44(ADEL)			23/03/2023
Phosphorus - Total	0.005	0.109 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	0.69 mg/L	
TKN as N T0112-01(ADEL)			23/03/2023
TKN as Nitrogen	0.05	1.80 mg/l	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Dissolved Organic Carbon T0158-07(ADE	EL)		21/03/2023
Dissolved Organic Carbon	1	11.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			21/03/2023
Total Organic Carbon	1	15.5 mg/L	

Inorganic Chemistry - Physical LOR	Result	Test Start Date
------------------------------------	--------	-----------------

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate	121 mg/L
Bicarbonate	147 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) Conductivity 2 652 μ S/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 361 mg/L

pH T0010-01(ADEL) 20/03/2023

pH 8.3 pH units Temperature at which pH is measured 22.1 $^{\circ}$ C

Turbidity T0018-01(ADEL) 17/03/2023

Turbidity 0.1 22 NTU



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Analytical Results

 Sampling Point
 351213-EPA - Murray Mouth

 Sampled Date
 14/03/2023 12:00:00PM

 Sample Received Date
 16/03/2023 9:17:18AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0328

Status Endorsed

Collection Type Customer Collected

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Suspended Solids T0160-01(ADEL)

22/03/2023

Suspended Solids 1.0 29 mg/L



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Analytical Results

Sampling Point 11505-DEW - Mundoo Downstream

Endorsed

14/03/2023 12:35:00PM **Sampled Date** 16/03/2023 9:13:21AM Sample Received Date 5/04/2023 3:45:57PM Sample Analysis Completed *2023-001-0325 Sample ID

Status Customer Collected Collection Type

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.3°C Algal Identification T0393(ADEL)			

Other Organisms	2650 cells/mL
BLUE GREEN ALGAE	
Cyanodictyon	41400 cells/mL
Cyanogranis	39800 cells/mL
Planktolyngbya	138000 cells/mL
Limnothrix	10600 cells/mL
Snowella	2290 cells/mL
Pseudanabaena	15700 cells/mL
Anabaenopsis	82 cells/mL
Dolichospermum (coiled)	364 cells/mL
Planktothrix	120 cells/mL
Cylindrospermopsis raciborskii	72 cells/mL
Dolichospermum (straight)	394 cells/mL
Dolichospermum circinale	290 cells/mL
Anabaena	2280 cells/mL
Sphaerospermopsis	1600 cells/mL
Phormidium	2000 cells/mL
Cuspidothrix	748 cells/mL
DIATOMS	
Nitzschia	312 cells/mL
Cyclotella	88 cells/mL
Aulacoseira	885 cells/mL
GREEN ALGAE	
Crucigenia	550 cells/mL
Scenedesmus	462 cells/mL
Gonatozygon	3220 cells/mL
Planctonema	3600 cells/mL

Sample temperature at time of receipt 11.3°C



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Analytical Results

Sampling Point 11505-DEW - Mundoo Downstream

 Sampled Date
 14/03/2023
 12:35:00PM

 Sample Received Date
 16/03/2023
 9:13:21AM

 Sample Analysis Completed
 5/04/2023
 3:45:57PM

 Sample ID
 *2023-001-0325

Status Endorsed

Collection Type Customer Collected

Algal Biovolume T0393(ADEL) 14/03/2023

BLUE GREEN ALGAE

Cuspidothrix	0.04 mm3/L
Phormidium	0.20 mm3/L
Sphaerospermopsis	0.15 mm3/L
Anabaena	0.18 mm3/L
Dolichospermum circinale	0.07 mm3/L
Dolichospermum (straight)	0.11 mm3/L
Cylindrospermopsis raciborskii	<0.01 mm3/L
Planktothrix	0.03 mm3/L
Dolichospermum (coiled)	0.09 mm3/L
Anabaenopsis	<0.01 mm3/L
Pseudanabaena	0.20 mm3/L
Snowella	0.02 mm3/L
Limnothrix	0.13 mm3/L
Planktolyngbya	0.69 mm3/L
Cyanogranis	0.02 mm3/L
Cyanodictyon	0.02 mm3/L
DIATOME	

DIATOMS

 Aulacoseira
 2.53 mm3/L

 Cyclotella
 0.04 mm3/L

 Nitzschia
 0.43 mm3/L

GREEN ALGAE

 Gonatozygon
 13.2 mm3/L

 Scenedesmus
 0.12 mm3/L

 Crucigenia
 0.02 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L

1.95 mm3/L



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Total Blue_Green Algae Biovolume

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Analytical Results

Sampling Point 11505-DEW - Mundoo Downstream

 Sampled Date
 14/03/2023
 12:35:00PM

 Sample Received Date
 16/03/2023
 9:13:21AM

 Sample Analysis Completed
 5/04/2023
 3:45:57PM

 Sample ID
 *2023-001-0325

 Status
 Endorsed

Collection Type Customer Collected

Algal Biovolume T0393(ADEL) 14/03/2023

Total Diatom Biovolume 3.00 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.07 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 265000 cells/mL

 Blue Green Algae - Total
 256000 cells/mL

 Diatoms - Total
 1280 cells/mL

 Geosmin-MIB producing BGA - Total
 18000 cells/mL

 Green Algae - Total
 7830 cells/mL

 Toxin producing BGA - Total
 362 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 46.8 μ g/L Phaeophytin a 0.1 16.6 μ g/L

LOR

Result

: 11.3°C		
		24/03/2023
0.005	0.349 mg/L	
		16/03/2023
4.0	61 mg/L	
		03/04/2023
0.003	0.010 mg/L	
		16/03/2023
	2.27 mg/L	
T0108-01(ADEL)		03/04/2023
0.003	0.004 mg/L	
	0.005 4.0 0.003 T0108-01(ADEL)	0.005 0.349 mg/L 4.0 61 mg/L 0.003 0.010 mg/L 2.27 mg/L



Inorganic Chemistry - Nutrients



Corporate Accreditation No.1115 Chemical and Biological Testing Accredited for compliance with ISO/IEC 17025 -Testing 16/03/2023

Test Start Date

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Analytical Results

Status

Sampling Point 11505-DEW - Mundoo Downstream

14/03/2023 12:35:00PM **Sampled Date** 16/03/2023 9:13:21AM **Sample Received Date** 5/04/2023 3:45:57PM Sample Analysis Completed *2023-001-0325 Sample ID Endorsed

Customer Collected Collection Type

Phosphorus - Total T0109-44(ADEL)			23/03/2023
Phosphorus - Total	0.005	0.134 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023
Silica - Reactive	0.05	0.41 mg/L	
TKN as N T0112-01(ADEL)			23/03/2023

TKN as Nitrogen 0.05 2.26 mg/L

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.3°C	<u> </u>		
Dissolved Organic Carbon T0158-07(ADEL)			21/03/2023
Dissolved Organic Carbon	1	12.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			21/03/2023
Total Organic Carbon	1	16.6 mg/L	

Inorganic Chemistry - Physical LOR	Result	Test Start Date
------------------------------------	--------	-----------------

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 16/03/2023

Alkalinity as Calcium Carbonate 129 mg/L Bicarbonate 153 mg/L Carbonate 2 mg/L Hydroxide 0 mg/L

16/03/2023 Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 489 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 270 mg/L

pH T0010-01(ADEL) 16/03/2023

8.3 pH units Temperature at which pH is measured 21.8 °C

17/03/2023 **Turbidity T0018-01(ADEL)**

Turbidity 0.1 30 NTU



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Analytical Results

Sampling Point 11505-DEW - Mundoo Downstream

 Sampled Date
 14/03/2023
 12:35:00PM

 Sample Received Date
 16/03/2023
 9:13:21AM

 Sample Analysis Completed
 5/04/2023
 3:45:57PM

 Sample ID
 *2023-001-0325

Status Endorsed

Collection Type Customer Collected

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C Suspended Solids T0160-01(ADEL)

22/03/2023

Suspended Solids 1.0 43 mg/L



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Analytical Results

 Sampling Point
 11504-DEW - Mundoo Upstream

 Sampled Date
 14/03/2023 12:35:00PM

 Sample Received Date
 16/03/2023 9:13:34AM

 Sample Analysis Completed
 5/04/2023 3:45:57PM

 Sample ID
 *2023-001-0326

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of rec	eipt 11.3°C		
Algal Identification T0393(ADEL)			
Other Organisms		5950 cells/mL	
BLUE GREEN ALGAE			
Cyanogranis		59000 cells/mL	
Snowella		1590 cells/mL	

8950 cells/mL

210 cells/mL

. , , ,	
Anabaenopsis	24 cells/mL
Cuspidothrix	967 cells/mL
Pseudanabaena	12400 cells/mL
Cylindrospermopsis raciborskii	80 cells/mL
Dolichospermum circinale	118 cells/mL
Anabaena	988 cells/mL
Dolichospermum planctonicum	64 cells/mL
Sphaerospermopsis	3030 cells/mL
Phormidium	2150 cells/mL
Microcystis aeruginosa	200 cells/mL
Dolichospermum (coiled)	260 cells/mL
Cyanodictyon	38700 cells/mL
Planktolyngbya	131000 cells/mL

DIATOMS

Limnothrix

Dolichospermum (straight)

Aulacoseira 554 cells/mL

GREEN ALGAE

Planctonema 7060 cells/mL Gonatozygon 2770 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

Phormidium 0.22 mm3/L



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Analytical Results

11504-DEW - Mundoo Upstream **Sampling Point** 14/03/2023 12:35:00PM Sampled Date 16/03/2023 9:13:34AM Sample Received Date 5/04/2023 3:45:57PM Sample Analysis Completed *2023-001-0326 Sample ID Endorsed **Status**

Customer Collected Collection Type

14/03/2023 Algal Biovolume T0393(ADEL)

0.28 mm3/L

Sphaerospermopsis Dolichospermum planctonicum 0.03 mm3/L 0.08 mm3/L Dolichospermum circinale 0.03 mm3/L Dolichospermum (coiled) 0.07 mm3/L Cylindrospermopsis raciborskii <0.01 mm3/L Pseudanabaena 0.16 mm3/L Cuspidothrix 0.06 mm3/L Anabaenopsis <0.01 mm3/L Planktolyngbya 0.66 mm3/L Dolichospermum (straight) 0.06 mm3/L Microcystis aeruginosa 0.02 mm3/L Cyanodictyon 0.02 mm3/L Limnothrix 0.11 mm3/L Snowella 0.01 mm3/L Cyanogranis 0.03 mm3/L

DIATOMS

Aulacoseira 1.58 mm3/L

GREEN ALGAE

Gonatozygon 11 4 mm3/l

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L

Total Blue Green Algae Biovolume 1.84 mm3/l # Total Diatom Biovolume 1.58 mm3/l

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.05 mm3/L

Sample temperature at time of receipt 11.3°C



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16/03/2023

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Analytical Results

 Sampling Point
 11504-DEW - Mundoo Upstream

 Sampled Date
 14/03/2023 12:35:00PM

 Sample Received Date
 16/03/2023 9:13:34AM

 Sample Analysis Completed
 5/04/2023 3:45:57PM

 Sample ID
 *2023-001-0326

 Status
 Endorsed

Collection Type Customer Collected

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 270000 cells/mL

 Blue Green Algae - Total
 260000 cells/mL

 Diatoms - Total
 554 cells/mL

 Geosmin-MIB producing BGA - Total
 14700 cells/mL

 Green Algae - Total
 9830 cells/mL

 Toxin producing BGA - Total
 398 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 50.0 µg/L

Chlorophyll a 0.1 50.0 $\,\mu g/L$ Phaeophytin a 0.1 20.7 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	11.3°C		
Ammonia as N T0100-01(ADEL)			24/03/2023
Ammonia as N	0.005	0.037 mg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	56 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			03/04/2023
Nitrate + Nitrite as N	0.003	0.005 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		2.28 mg/L	
Phosphorus - Filterable Reactive as P To	0108-01(ADEL)		03/04/2023
Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L	
Phosphorus - Total T0109-44(ADEL)			23/03/2023
Phosphorus - Total	0.005	0.128 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023
Silica - Reactive	0.05	0.39 mg/L	
TKN as N T0112-01(ADEL)			23/03/2023
TKN as Nitrogen	0.05	2.27 mg/L	



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Analytical Results

 Sampling Point
 11504-DEW - Mundoo Upstream

 Sampled Date
 14/03/2023 12:35:00PM

 Sample Received Date
 16/03/2023 9:13:34AM

 Sample Analysis Completed
 5/04/2023 3:45:57PM

 Sample ID
 *2023-001-0326

 Status
 Endorsed

 Collection Type
 Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Dissolved Organic Carbon T0158-07(ADI	EL)		21/03/2023
Dissolved Organic Carbon	1	13.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			21/03/2023
Total Organic Carbon	1	16.8 mg/L	
Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Alkalinity Carbonate Bicarbonate and H	ydroxide T0101-0	1(ADEL)	16/03/2023
Alkalinity as Calcium Carbonate		124 mg/L	
Bicarbonate		141 mg/L	
Carbonate		5 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids TO	16/03/2023		
Conductivity	2	451 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	249 mg/L	
pH T0010-01(ADEL)			16/03/2023
pH		8.5 pH units	
Temperature at which pH is measured		21.8 °C	
Turbidity T0018-01(ADEL)			17/03/2023
Turbidity	0.1	30 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Suspended Solids T0160-01(ADEL)			22/03/2023
Suspended Solids	1.0	42 mg/L	



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Analytical Results

Sampling Point 353179-EPA - Tauwitchere Barrage Upstream

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14/03/2023 1:15:00PM **Sampled Date** Sample Received Date 16/03/2023 9:17:52AM 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0331 Sample ID Endorsed **Status**

Customer Collected Collection Type

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of re	ceipt 11.3°C		
Algal Identification T0393(ADEL)			
Other Organisms		750 cells/mL	
BLUE GREEN ALGAE			
Cyanonephron		3200 cells/mL	
Dolichospermum (straight)		236 cells/mL	
Anabaenopsis		320 cells/mL	
Planktolyngbya		135000 cells/mL	

5850 cells/mL

135000 cells/mL Snowella 340 cells/mL Dolichospermum circinale 1100 cells/mL Phormidium 1020 cells/mL Cuspidothrix 2990 cells/mL Anabaena 684 cells/mL Sphaerospermopsis 5530 cells/mL Cyanogranis 19200 cells/mL Cylindrospermopsis raciborskii 710 cells/mL Cyanocatena 20300 cells/mL Dolichospermum (coiled) 590 cells/mL Pseudanabaena 1860 cells/mL Cyanodictyon 150000 cells/mL Limnothrix 750 cells/mL

DIATOMS Nitzschia 180 cells/mL Aulacoseira 680 cells/mL

GREEN ALGAE Crucigenia 320 cells/mL Tetrastrum 280 cells/mL Scenedesmus 467 cells/mL Oocystis 517 cells/mL Gonatozygon 1010 cells/mL

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Analytical Results

Sampling Point 353179-EPA - Tauwitchere Barrage Upstream

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:52AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0331

 Status
 Endorsed

Collection Type Customer Collected

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

Limnothrix	<0.01 mm3/L
Cyanodictyon	0.08 mm3/L
Pseudanabaena	0.02 mm3/L
Dolichospermum (coiled)	0.15 mm3/L
Cyanocatena	<0.01 mm3/L
Cylindrospermopsis raciborskii	0.03 mm3/L
Cyanogranis	<0.01 mm3/L
Sphaerospermopsis	0.51 mm3/L
Anabaena	0.05 mm3/L
Cuspidothrix	0.17 mm3/L
Phormidium	0.10 mm3/L
Dolichospermum circinale	0.28 mm3/L
Snowella	<0.01 mm3/L
Planktolyngbya	0.68 mm3/L
Anabaenopsis	0.03 mm3/L
Dolichospermum (straight)	0.06 mm3/L
Cyanonephron	0.02 mm3/L

DIATOMS

 Aulacoseira
 1.94 mm3/L

 Nitzschia
 0.25 mm3/L

GREEN ALGAE

 Gonatozygon
 4.15 mm3/L

 Oocystis
 0.16 mm3/L

 Scenedesmus
 0.12 mm3/L

 Crucigenia
 <0.01 mm3/L</td>



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Analytical Results

Sampling Point 353179-EPA - Tauwitchere Barrage Upstream

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:52AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0331

 Status
 Endorsed

Collection Type Customer Collected

Algal Biovolume T0393(ADEL)

14/03/2023

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data.

Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

Total Algae Biovolume Not Calculated mm
Total Blue_Green Algae Biovolume 2.18 mm3/L

Total Diatom Biovolume 2.19 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.31 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 353000 cells/mL

 Blue Green Algae - Total
 344000 cells/mL

 Diatoms - Total
 860 cells/mL

 Geosmin-MIB producing BGA - Total
 3980 cells/mL

 Green Algae - Total
 8440 cells/mL

 Toxin producing BGA - Total
 1810 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 41.3 $\,\mu g/L$ Phaeophytin a 0.1 13.0 $\,\mu g/L$

Inorganic Chemistry - Nutrients LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C
Ammonia as N (ADEL)

Ammonia as N 1 2 μg/L

Chloride T0104-02(ADEL)

Chloride 4.0 149 mg/L

NATA
WORLD RECOGNISED

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Analytical Results

Sampling Point 353179-EPA - Tauwitchere Barrage Upstream

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:52AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0331

 Status
 Endorsed

Collection Type Customer Collected

16/03/2023
16/03/2023
16/03/2023
04/04/2023
22/03/2023
20/03/2023
22/03/2023
_

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt	: 11.3°C		
Dissolved Organic Carbon T0158-07(A	DEL)		21/03/2023
Dissolved Organic Carbon	1	11.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			21/03/2023
Total Organic Carbon	1	15.8 mg/L	
Total Organic Carbon T0158-07(ADEL)	1	U	21/03

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 113 $\,$ mg/L Bicarbonate 133 $\,$ mg/L Carbonate 2 $\,$ mg/L Hydroxide 0 $\,$ mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)



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Sampling Point 353179-EPA - Tauwitchere Barrage Upstream

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:52AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0331

 Status
 Endorsed

Collection Type Customer Collected

Conductivity & Total Dissolved Solids T0016-01(ADEL)			
Conductivity	2	771 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	427 mg/L	
pH T0010-01(ADEL)			20/03/2023
pH		8.3 pH units	
Temperature at which pH is measured		22.1 °C	
Turbidity T0018-01(ADEL)			17/03/2023
Turbidity	0.1	23 NTU	

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Suspended Solids T0160-01(ADEL)

Suspended Solids T0160-01(ADEL)
Suspended Solids 1.0 41 mg/L



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Analytical Results

Sampling Point 353177-EPA - Tauwitchere Barrage DS

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:36AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0332

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Algal Identification T0393(ADEL)			
Other Organisms		1320 cells/mL	
BLUE GREEN ALGAE			
Snowella		590 cells/mL	
Planktolyngbya		205000 cells/mL	
Cylindrospermopsis raciborskii		1400 cells/mL	
Anabaena		4460 cells/mL	
Sphaerospermopsis		3630 cells/mL	
Anabaenopsis		208 cells/mL	
Dolichospermum (coiled)		532 cells/mL	
Phormidium		566 cells/mL	
Dolichospermum circinale		1200 cells/mL	
Planktothrix perornata_f_attenuata		88 cells/mL	
Dolichospermum (straight)		186 cells/mL	
Cyanodictyon		140000 cells/mL	
Cyanodictyon		55800 cells/mL	
Cyanogranis		37200 cells/mL	
Pseudanabaena		3000 cells/mL	
DIATOMS			
Nitzschia		325 cells/mL	
Aulacoseira		250 cells/mL	
GREEN ALGAE			
Tetrastrum		160 cells/mL	
Dictyosphaerium		150 cells/mL	
Pediastrum		260 cells/mL	
Crucigenia		520 cells/mL	
Oocystis		1080 cells/mL	
Scenedesmus		650 cells/mL	
Gonatozygon		1680 cells/mL	
Planctonema		7450 cells/mL	



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Sampling Point 353177-EPA - Tauwitchere Barrage DS

Endorsed

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:36AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0332

Collection Type Customer Collected

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

Cyanodictyon	0.07 r	mm3/L
Cyanogranis	0.02 r	mm3/L
Dolichospermum (straight)	0.05 r	mm3/L
Planktothrix perornata_f_attenuata	0.03 r	mm3/L
Dolichospermum circinale	0.30 r	mm3/L
Phormidium	0.06 r	mm3/L
Dolichospermum (coiled)	0.14 r	mm3/L
Anabaenopsis	0.02 r	mm3/L
Sphaerospermopsis	0.34 r	mm3/L
Anabaena	0.34 r	mm3/L
Cylindrospermopsis raciborskii	0.06 r	mm3/L
Pseudanabaena	0.04 r	mm3/L
Planktolyngbya	1.02 r	mm3/L
Snowella	<0.01	mm3/L

DIATOMS

 Aulacoseira
 0.72 mm3/L

 Nitzschia
 0.45 mm3/L

GREEN ALGAE

 Gonatozygon
 6.90 mm3/L

 Scenedesmus
 0.16 mm3/L

 Oocystis
 0.32 mm3/L

 Crucigenia
 0.02 mm3/L

 Pediastrum
 0.31 mm3/L

 Dictyosphaerium
 <0.01 mm3/L</td>

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.



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Analytical Results

Sampling Point 353177-EPA - Tauwitchere Barrage DS

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:36AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0332

 Status
 Endorsed

Collection Type Customer Collected

Algal Biovolume T0393(ADEL) 14/03/2023

Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume 2.49 mm3/L # Total Diatom Biovolume 1.17 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.36 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 466000 cells/mL

 Blue Green Algae - Total
 454000 cells/mL

 Diatoms - Total
 575 cells/mL

 Geosmin-MIB producing BGA - Total
 4850 cells/mL

 Green Algae - Total
 12000 cells/mL

 Toxin producing BGA - Total
 2600 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 37.8 $\,\mu g/L$ Phaeophytin a 0.1 13.1 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt to	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	6 μg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	245 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	19.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	87.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		1.42 mg/L	



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Analytical Results

Sampling Point 353177-EPA - Tauwitchere Barrage DS

14/03/2023 1:15:00PM **Sampled Date** 16/03/2023 9:17:36AM **Sample Received Date** 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0332 Sample ID Endorsed **Status**

Customer Collected Collection Type

Phosphorus - Filterable Reactive as P (ADEL)			04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	15.249 μg/L	
Phosphorus-Filterable Reactive as P	0.5	5.1 μg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.119 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	0.66 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	1.40 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of recei	pt 11.3°C		
Dissolved Organic Carbon T0158-07(ADEL)		21/03/2023
Dissolved Organic Carbon	1	12.3 mg/L	
Total Organic Carbon T0158-07(ADEI	_)		21/03/2023
Total Organic Carbon	1	17.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
--------------------------------	-----	--------	-----------------

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

16/03/2023

Alkalinity as Calcium Carbonate 117 mg/L Bicarbonate 125 mg/L Carbonate 9 mg/L Hydroxide 0 mg/L Conductivity & Total Dissolved Solids T0016-01(ADEL)

16/03/2023

Conductivity 1160 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 644 mg/L

16/03/2023 pH T0010-01(ADEL)

8.9 pH units

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17/03/2023

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Analytical Results

Sampling Point 353177-EPA - Tauwitchere Barrage DS

 Sampled Date
 14/03/2023
 1:15:00PM

 Sample Received Date
 16/03/2023
 9:17:36AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0332

Status Endorsed

Collection Type Customer Collected

pH T0010-01(ADEL) 16/03/2023

Temperature at which pH is measured 22.3 °C

Turbidity T0018-01(ADEL)

Turbidity 0.1 23 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Suspended Solids T0160-01(ADEL) 23/03/2023

Suspended Solids 1.0 41 mg/L



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Analytical Results

Sampling Point 31522-EPA - Mark Point 14/03/2023 2:00:00PM **Sampled Date** 16/03/2023 9:15:44AM **Sample Received Date** 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0327 Sample ID Endorsed **Status**

Customer Collected Collection Type

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of reco	eipt 11.3°C		
Algal Identification T0393(ADEL)			
Other Organisms		1820 cells/mL	
BLUE GREEN ALGAE			

Anabaenopsis	940 cells/mL
Sphaerospermopsis	1920 cells/mL
Cylindrospermopsis raciborskii	180 cells/mL
Cuspidothrix	3180 cells/mL
Pseudanabaena	2080 cells/mL
Aphanocapsa	54300 cells/mL
Anabaena	1040 cells/mL
Planktolyngbya	20500 cells/mL
GREEN ALGAE	

Crucigenia 900 cells/ml Monoraphidium sp_2_(short) 6000 cells/mL Phytoflagellates small_spp 44700 cells/mL Chlorella 17000 cells/mL Oocystis sp_1_(small_cells) 3400 cells/mL Oocystis 220 cells/mL Scenedesmus 180 cells/mL Planctonema 11300 cells/mL Monoraphidium 770 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

Anabaenopsis 0.09 mm3/L Sphaerospermopsis 0.18 mm3/L Cylindrospermopsis raciborskii <0.01 mm3/L Cuspidothrix 0.18 mm3/L Pseudanabaena 0.03 mm3/L



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Analytical Results

31522-EPA - Mark Point **Sampling Point** 14/03/2023 2:00:00PM Sampled Date 16/03/2023 9:15:44AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0327 Sample ID Endorsed **Status**

Customer Collected Collection Type

14/03/2023 Algal Biovolume T0393(ADEL)

Planktolyngbya 0.10 mm3/L Anabaena 0.08 mm3/L Aphanocapsa 0.03 mm3/L

GREEN ALGAE

Total Algae Biovolume

Monoraphidium 0.69 mm3/L Scenedesmus 0.04 mm3/L Oocystis 0.07 mm3/L Oocystis sp_1_(small_cells) 0.59 mm3/L Chlorella 0.76 mm3/L Phytoflagellates small spp 3.50 mm3/L Monoraphidium sp_2_(short) 0.32 mm3/L Crucigenia 0.03 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

> approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around how they calculate.

Not Calculated mm3/L

0.69 mm3/L

Total Blue Green Algae Biovolume # Total Diatom Biovolume 0.00 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume <0.01 mm3/L

Sample temperature at time of receipt 11.3°C Algal Count - Total T0393(ADEL)

14/03/2023

Algae - Total 169000 cells/mL Blue Green Algae - Total 84100 cells/mL Diatoms - Total 0 cells/ml Geosmin-MIB producing BGA - Total 2080 cells/ml 84500 cells/mL

Green Algae - Total Toxin producing BGA - Total 180 cells/mL



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Analytical Results

 Sampling Point
 31522-EPA - Mark Point

 Sampled Date
 14/03/2023
 2:00:00PM

 Sample Received Date
 16/03/2023
 9:15:44AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0327

 Status
 Endorsed

 Collection Type
 Customer Collected

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 17.5 $\,\mu g/L$ Phaeophytin a 0.1 12.8 $\,\mu g/L$

Inorganic Chemistry - Nutrients LOR Result **Test Start Date** Sample temperature at time of receipt 11.3°C 04/04/2023 Ammonia as N (ADEL) # Ammonia as N 1 4 µg/L 16/03/2023 Chloride T0104-02(ADEL) Chloride 4.0 4800 mg/L 04/04/2023 Nitrate + Nitrite as N (ADEL) # Nitrate + Nitrite as N 0.5 3.2 µg/L # Nitrate + Nitrite as NO3 2.3 14.2 µg/L 16/03/2023 Nitrogen - Total TMZ-M06(ADEL) Nitrogen - Total 1.27 mg/L 04/04/2023 Phosphorus - Filterable Reactive as P (ADEL) # Phosphorus -Filterable Reactive as PO4 1.5 13.156 µg/L Phosphorus-Filterable Reactive as P 0.5 4.4 µg/L 22/03/2023 Phosphorus - Total T0109-44(ADEL) Phosphorus - Total 0.005 0.036 mg/L 20/03/2023 Silica - Reactive T0111-01(ADEL) Silica - Reactive 0.05 1.48 mg/L 22/03/2023 TKN as N T0112-01(ADEL) TKN as Nitrogen 0.05 1.27 mg/L LOR **Organic Chemistry** Result **Test Start Date** Sample temperature at time of receipt 11.3°C **Dissolved Organic Carbon T0158-07(ADEL)** 31/03/2023 Dissolved Organic Carbon 1 13.2 mg/L



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16/03/2023

16/03/2023

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Analytical Results

31522-EPA - Mark Point **Sampling Point** 14/03/2023 2:00:00PM Sampled Date 16/03/2023 9:15:44AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0327 Sample ID Endorsed **Status**

Customer Collected Collection Type

31/03/2023 **Total Organic Carbon T0158-07(ADEL)**

Total Organic Carbon 1 15.2 mg/L

Inorganic Chemistry - Physical LOR Result **Test Start Date** Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) Alkalinity as Calcium Carbonate 136 mg/L Bicarbonate 156 ma/L

Carbonate 5 mg/L Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 14300 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 8500 mg/L

16/03/2023 pH T0010-01(ADEL)

рΗ 8.4 pH units Temperature at which pH is measured 22.3 °C

Turbidity T0018-01(ADEL)

0.1 Turbidity 7.6 NTU

LOR **Inorganic Chemistry - Waste Water** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

22/03/2023 Suspended Solids T0160-01(ADEL)

Suspended Solids 1.0 2 mg/L



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 Sampling Point
 31523-EPA - Long Point

 Sampled Date
 14/03/2023
 3:05:00PM

 Sample Received Date
 16/03/2023
 9:15:57AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0314

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of reco	eipt 11.3°C		
Other Organisms		360 cells/mL	
BLUE GREEN ALGAE			
Phormidium narrow spp		21 cells/mL	
Anabaenopsis		31 cells/mL	
Pseudanabaena		35 cells/mL	
Planktolyngbya		860 cells/mL	
DIATOMS			
Synedra		2 cells/mL	
DINOFLAGELLATES			
Protoperidinium		2 cells/mL	
PERIDINIACEAE		3 cells/mL	
GREEN ALGAE			
Planctonema		168 cells/mL	
Scenedesmus		8 cells/mL	
Crucigenia		14 cells/mL	
Phytoflagellates small_spp		13000 cells/mL	
Chlorella		6000 cells/mL	

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

 Phormidium narrow spp
 <0.01 mm3/L</td>

 Anabaenopsis
 <0.01 mm3/L</td>

 Pseudanabaena
 <0.01 mm3/L</td>

 Planktolyngbya
 <0.01 mm3/L</td>

 DIATOMS
 <0.01 mm3/L</td>

 Synedra
 <0.01 mm3/L</td>

 GREEN ALGAE

 Scenedesmus
 <0.01 mm3/L</td>



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 Sampling Point
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 Sampled Date
 14/03/2023
 3:05:00PM

 Sample Received Date
 16/03/2023
 9:15:57AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0314

 Status
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Collection Type Customer Collected

Algal Biovolume T0393(ADEL) 14/03/2023

 Crucigenia
 <0.01 mm3/L</td>

 Phytoflagellates small_spp
 1.02 mm3/L

 Chlorella
 0.27 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume <0.04 mm3/L # Total Diatom Biovolume <0.01 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 20100 cells/mL

 Blue Green Algae - Total
 947 cells/mL

 Diatoms - Total
 2 cells/mL

 Geosmin-MIB producing BGA - Total
 56 cells/mL

 Green Algae - Total
 19200 cells/mL

 Toxin producing BGA - Total
 0 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 11.8 $\,\mu g/L$ Phaeophytin a 0.1 9.90 $\,\mu g/L$

Inorganic Chemistry - Nutrients LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C Ammonia as N (ADEL)

04/04/2023



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 Sampling Point
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 Sampled Date
 14/03/2023 3:05:00PM

 Sample Received Date
 16/03/2023 9:15:57AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0314

 Status
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Collection Type Customer Collected

Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	60 µg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	9190 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	6.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	26.6 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		1.39 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	12.259 μg/L	
Phosphorus-Filterable Reactive as P	0.5	4.1 μg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.042 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	1.24 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	1.38 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.3° Dissolved Organic Carbon T0158-07(ADEL) Dissolved Organic Carbon	C	15.3 mg/L	31/03/2023
Total Organic Carbon T0158-07(ADEL) Total Organic Carbon	1	16.6 mg/L	31/03/2023

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 153 mg/L



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Analytical Results

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 Sampled Date
 14/03/2023 3:05:00PM

 Sample Received Date
 16/03/2023 9:15:57AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0314

 Status
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Collection Type Customer Collected

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			17/03/2023
Bicarbonate		154 mg/L	
Carbonate		16 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T	0016-01(ADEL)		17/03/2023
Conductivity	2	25600 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	16100 mg/L	
pH T0010-01(ADEL)			17/03/2023
pH		8.6 pH units	
Temperature at which pH is measured		21.9 °C	
Turbidity T0018-01(ADEL)			17/03/2023
Turbidity	0.1	3.1 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.	3°C		00/00/0000
Suspended Solids T0160-01(ADEL)			22/03/2023
Suspended Solids	1.0	<1 mg/L	



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Analytical Results

53032-EPA - Noonameena **Sampling Point** 14/03/2023 3:45:00PM Sampled Date 16/03/2023 9:18:07AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0334 Sample ID Endorsed **Status**

Customer Collected Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

Synedra 154 cells/ml Meridion 12 cells/mL Amphiprora_(=_Entomoneis) 2 cells/mL Nitzschia 60 cells/ml Navicula 10 cells/mL

GREEN ALGAE

Tetraselmis 40 cells/ml Phytoflagellates 20 cells/mL Chlorella 2800 cells/mL

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

DIATOMS

Svnedra 0.11 mm3/L Amphiprora_(=_Entomoneis) 0.03 mm3/L Nitzschia 0.08 mm3/L Navicula 0.01 mm3/L

GREEN ALGAE

Chlorella 0.13 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are approximate values. Reported taxa and

calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate. Not Calculated mm3/L

0.00 mm3/L

Not Calculated mm3/L Not Calculated mm3/L

Total Algae Biovolume

Total Blue_Green Algae Biovolume

Total Diatom Biovolume # Total Green Algae Biovolume

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Analytical Results

 Sampling Point
 53032-EPA - Noonameena

 Sampled Date
 14/03/2023 3:45:00PM

 Sample Received Date
 16/03/2023 9:18:07AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0334

 Status
 Endorsed

Collection Type Customer Collected

Algal Biovolume T0393(ADEL)	14/03/2023
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Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 14/03/2023

 Algae - Total
 3100 cells/mL

 Blue Green Algae - Total
 0 cells/mL

 Diatoms - Total
 238 cells/mL

 Geosmin-MIB producing BGA - Total
 0 cells/mL

 Green Algae - Total
 2860 cells/mL

 Toxin producing BGA - Total
 0 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 1.09 $\,\mu g/L$ Phaeophytin a 0.1 0.71 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	6 μg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	16700 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	1.7 µg/L	
# Nitrate + Nitrite as NO3	2.3	7.53 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		1.52 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	22.425 μg/L	
Phosphorus-Filterable Reactive as P	0.5	7.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023



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 Sampling Point
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 Sampled Date
 14/03/2023 3:45:00PM

 Sample Received Date
 16/03/2023 9:18:07AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0334

 Status
 Endorsed

Collection Type Customer Collected

Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.016 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023

Silica - Reactive 0.05 0.85 mg/L

TKN as N T0112-01(ADEL) 22/03/2023

TKN as Nitrogen 0.05 1.52 mg/L

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.	.3°C		
Dissolved Organic Carbon T0158-07(ADEI	∟)		31/03/2023
Dissolved Organic Carbon	1	16.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	16.9 mg/L	

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate $\begin{array}{ccc} 161 & mg/L \\ Bicarbonate & 190 & mg/L \\ Carbonate & 3 & mg/L \\ Hydroxide & 0 & mg/L \\ \end{array}$

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 47100 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 32600 mg/L

pH T0010-01(ADEL) 16/03/2023

pH 8.3 pH units

Temperature at which pH is measured 22.2 °C **Turbidity T0018-01(ADEL)**17/03/2023

Turbidity 0.1 1.7 NTU



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 Sampling Point
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 Sampled Date
 14/03/2023 3:45:00PM

 Sample Received Date
 16/03/2023 9:18:07AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0334

 Status
 Endorsed

Collection Type Customer Collected

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C Suspended Solids T0160-01(ADEL)

23/03/2023

Suspended Solids 1.0 6 mg/L



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Analytical Results

Sampling Point 31524-EPA - Bonneys 14/03/2023 4:10:00PM **Sampled Date** Sample Received Date 16/03/2023 9:16:09AM 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0329 Sample ID Endorsed **Status**

Customer Collected Collection Type

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonads 30 cells/ml

DIATOMS

Navicula 20 cells/ml Thalassiosira 260 cells/mL Pennate diatoms 170 cells/mL Nitzschia small_spp 130 cells/mL Meridion 6 cells/mL Amphiprora_(=_Entomoneis) 4 cells/mL Nitzschia 2 cells/mL

DINOFLAGELLATES

Oxyrrhis 10 cells/mL

GREEN ALGAE

Phytoflagellates 40 cells/mL Tetraselmis 10 cells/mL

Organism - Comment Thalassiosira - The identification for this organism

is tentative only.

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

CRYPTOPHYTES

Cryptomonads <0.01 mm3/L

DIATOMS

Nitzschia <0.01 mm3/L Amphiprora_(=_Entomoneis) 0.06 mm3/L Nitzschia small_spp 0.02 mm3/L Navicula 0.02 mm3/L



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Analytical Results

31524-EPA - Bonneys **Sampling Point** 14/03/2023 4:10:00PM Sampled Date 16/03/2023 9:16:09AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0329 Sample ID Endorsed **Status**

Customer Collected Collection Type

Algal Biovolume T0393(ADEL)

14/03/2023

Algal Biovolume Comment Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

> how they calculate. Not Calculated mm3/L

Total Algae Biovolume # Total Blue_Green Algae Biovolume

0.00 mm3/L

Total Diatom Biovolume Not Calculated mm3/L # Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

14/03/2023 Algal Count - Total T0393(ADEL)

Algae - Total 682 cells/ml Blue Green Algae - Total 0 cells/mL Diatoms - Total 592 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 50 cells/ml Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 16/03/2023

Chlorophyll a 4.25 µg/L Phaeophytin a 0.1 3.05 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 11.3°C 04/04/2023 Ammonia as N (ADEL)

Ammonia as N 79 µg/L 16/03/2023 Chloride T0104-02(ADEL)

Chloride 4.0 19500 mg/L

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Sampling Point	31524-EPA - Bonneys
Sampled Date	14/03/2023 4:10:00PM
Sample Received Date	16/03/2023 9:16:09AM
Sample Analysis Completed	6/04/2023 2:42:55PM
Sample ID	*2023-001-0329
Status	Endorsed

Collection Type Customer Collected

Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	13.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	61.1 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		2.07 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	26.611 μg/L	
Phosphorus-Filterable Reactive as P	0.5	8.9 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.050 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023
Silica - Reactive	0.05	0.52 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	2.06 mg/L	

LOR	Result	Test Start Date
.3°C		
L)		31/03/2023
1	18.3 mg/L	
		31/03/2023
1	18.6 mg/L	
	.3°C	.3°C L) 1 18.3 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
--------------------------------	-----	--------	-----------------

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

17/03/2023

Alkalinity as Calcium Carbonate 195 mg/L
Bicarbonate 238 mg/L
Carbonate 0 mg/L
Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 17/03/2023



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Analytical Results

 Sampling Point
 31524-EPA - Bonneys

 Sampled Date
 14/03/2023 4:10:00PM

 Sample Received Date
 16/03/2023 9:16:09AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0329

 Status
 Endorsed

Collection Type Customer Collected

Conductivity & Total Dissolved Solids	s T0016-01(ADEL)		17/03/2023
Conductivity	2	52600 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	37300 mg/L	
pH T0010-01(ADEL)			17/03/2023
рН		8.0 pH units	
Temperature at which pH is measured		21.9 °C	
Turbidity T0018-01(ADEL)			17/03/2023
Turbidity	0.1	2.6 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Suspended Solids T0160-01(ADEL)			23/03/2023
Suspended Solids	1.0	<1 ma/L	



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Analytical Results

 Sampling Point
 31512-EPA - McGrath Flat North

 Sampled Date
 14/03/2023
 4:50:00PM

 Sample Received Date
 16/03/2023
 9:14:12AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0321

Status Endorsed

Collection Type Customer Collected

Biology Operations LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonas 17 cells/mL

DIATOMS

 PENNALES
 550 cells/mL

 Nitzschia
 33 cells/mL

 Navicula
 67 cells/mL

GREEN ALGAE

Chlorella 444000 cells/mL Unicellular green algae 34000 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

CRYPTOPHYTES

Cryptomonas 0.02 mm3/L

DIATOMS

 PENNALES
 0.16 mm3/L

 Nitzschia
 0.05 mm3/L

 Navicula
 0.08 mm3/L

GREEN ALGAE

Chlorella 20.0 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

0.00 mm3/L 0.29 mm3/L

Not Calculated mm3/L

Total Algae Biovolume # Total Blue_Green Algae Biovolume

Total Diatom Biovolume

Total Green Algae Biovolume



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Analytical Results

Sampling Point 31512-EPA - McGrath Flat North 14/03/2023 4:50:00PM **Sampled Date** 16/03/2023 9:14:12AM **Sample Received Date** 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0321 Sample ID Endorsed **Status**

Customer Collected Collection Type

Algal Biovolume T0393(ADEL)	14/03/2023
-----------------------------	------------

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

14/03/2023 Algal Count - Total T0393(ADEL)

Algae - Total 479000 cells/mL Blue Green Algae - Total 0 cells/mL Diatoms - Total 650 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 478000 cells/mL Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C

16/03/2023 Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 25.1 µg/L Phaeophytin a 0.1 12.4 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	67 µg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	32300 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	10.8 μg/L	
# Nitrate + Nitrite as NO3	2.3	47.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		2.84 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	9.867 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.3 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023



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Analytical Results

 Sampling Point
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 Sampled Date
 14/03/2023 4:50:00PM

 Sample Received Date
 16/03/2023 9:14:12AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0321

 Status
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Collection Type Customer Collected

Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.066 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	1.60 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	2.83 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.3°	C		
Dissolved Organic Carbon T0158-07(ADEL)			31/03/2023
Dissolved Organic Carbon	1	20.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	22.6 mg/L	

Inorganic Chemistry - Physical LOR	Result	Test Start Date
------------------------------------	--------	-----------------

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 196 $\,$ mg/L Bicarbonate 239 $\,$ mg/L Carbonate 0 $\,$ mg/L Hydroxide 0 $\,$ mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 76300 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 59600 mg/L

pH T0010-01(ADEL) 16/03/2023

pH 8.1 pH units Temperature at which pH is measured 22.3 $^{\circ}$ C

Temperature at which pH is measured 22.3 °C **Turbidity T0018-01(ADEL)**17/03/2023

Turbidity 0.1 7.0 NTU



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Analytical Results

 Sampling Point
 31512-EPA - McGrath Flat North

 Sampled Date
 14/03/2023
 4:50:00PM

 Sample Received Date
 16/03/2023
 9:14:12AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0321

Status Endorsed

Collection Type Customer Collected

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Suspended Solids T0160-01(ADEL)

22/03/2023

Suspended Solids 1.0 <1 mg/L



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 Sampling Point
 31528-EPA - Salt Creek Outlet

 Sampled Date
 15/03/2023 9:00:00AM

 Sample Received Date
 16/03/2023 9:16:58AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0330

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

Amphiprora_(=_Entomoneis) 2 cells/mL

DINOFLAGELLATES

 PERIDINIACEAE
 32 cells/mL

 Gymnodinioids
 6 cells/mL

 Heterocapsa
 300 cells/mL

 Oxyrrhis
 100 cells/mL

GREEN ALGAE

Unicellular green algae 32300 cells/mL Chlorella 662000 cells/mL Phytoflagellates 9670 cells/mL

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

Algar Biovolamo 10000(ABEE)

DIATOMS

Amphiprora_(=_Entomoneis) 0.03 mm3/L

GREEN ALGAE

Total Algae Biovolume

Total Diatom Biovolume

Total Toxic BGA Biovolume

Total Green Algae Biovolume

Total Blue_Green Algae Biovolume

Chlorella 29.8 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are approximate values. Reported taxa and

calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

0.00 mm3/L

0.03 mm3/L

Not Calculated mm3/L

0.00 mm3/L



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Analytical Results

31528-EPA - Salt Creek Outlet **Sampling Point** 15/03/2023 9:00:00AM Sampled Date 16/03/2023 9:16:58AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0330 Sample ID Endorsed **Status**

Customer Collected Collection Type

Sample temperature at time of receipt 11.3°C

15/03/2023 Algal Count - Total T0393(ADEL)

Algae - Total 995000 cells/mL Blue Green Algae - Total 0 cells/mL Diatoms - Total 2 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 995000 cells/mL Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

16/03/2023

Chlorophyll a 0.1 76.7 µg/L Phaeophytin a 0.1 25.7 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	46 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	40600 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	6.3 µg/L	

Nitrate + Nitrite as NO3 2.3 27.9 µg/L Nitrogen - Total TMZ-M06(ADEL) 16/03/2023 Nitrogen - Total 4.45 mg/L

Phosphorus -Filterable Reactive as PO4 1.5 3.887 µg/L Phosphorus-Filterable Reactive as P 0.5 1.3 µg/L

22/03/2023 Phosphorus - Total T0109-44(ADEL) Phosphorus - Total 0.005 0.148 mg/L

16/03/2023 Silica - Reactive T0111-01(ADEL)

0.05 Silica - Reactive 5.95 mg/L

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Phosphorus - Filterable Reactive as P (ADEL)

04/04/2023

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 Sampled Date
 15/03/2023 9:00:00AM

 Sample Received Date
 16/03/2023 9:16:58AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0330

 Status
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Collection Type Customer Collected

TKN as N T0112-01(ADEL) 22/03/2023

TKN as Nitrogen 0.05 4.44 mg/L

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11	1.3°C		
Dissolved Organic Carbon T0158-07(ADE	EL)		28/03/2023
Dissolved Organic Carbon	1	23.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			28/03/2023
Total Organic Carbon	1	29.1 mg/L	

Inorganic Chemistry - Physical LOR	Result	Test Start Date
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Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 238 mg/L Bicarbonate 290 mg/L Carbonate 0 mg/L Hydroxide 0 mg/L 0

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 98000 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 82900 mg/L

pH T0010-01(ADEL) 16/03/2023

pH 8.1 pH units

Temperature at which pH is measured 22.3 °C

Turbidity T0018-01(ADEL)Turbidity 0.1 14 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C



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Analytical Results

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 Sample Received Date
 16/03/2023 9:16:58AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
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Status Endorsed

Collection Type Customer Collected

Suspended Solids T0160-01(ADEL)

23/03/2023

Suspended Solids 1.0 5 mg/L



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Analytical Results

31511-EPA - 3.2km South Salt Creek **Sampling Point**

Endorsed

15/03/2023 9:05:00AM Sampled Date 16/03/2023 9:13:59AM Sample Received Date 6/04/2023 5:08:21PM Sample Analysis Completed *2023-001-0318 Sample ID

Customer Collected Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

Status

Synedra 60 cells/ml Pennate diatoms 10 cells/mL Navicula 10 cells/mL Amphiprora (= Entomoneis) 6 cells/mL

DINOFLAGELLATES

Heterocapsa 610 cells/mL Oxyrrhis 220 cells/ml PERIDINIACEAE 30 cells/mL

GREEN ALGAE

Unicellular green algae 220000 cells/mL Chlorella 411000 cells/mL Phytoflagellates 9800 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

DIATOMS

Synedra 0.04 mm3/l Amphiprora_(=_Entomoneis) 0.09 mm3/L Navicula 0.01 mm3/L

GREEN ALGAE

Chlorella 18.5 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

0.00 mm3/L

Total Algae Biovolume # Total Blue_Green Algae Biovolume

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Analytical Results

31511-EPA - 3.2km South Salt Creek **Sampling Point**

15/03/2023 9:05:00AM **Sampled Date** 16/03/2023 9:13:59AM **Sample Received Date** 6/04/2023 5:08:21PM Sample Analysis Completed *2023-001-0318 Sample ID Endorsed **Status**

Customer Collected Collection Type

15/03/2023 Algal Biovolume T0393(ADEL)

Total Diatom Biovolume Not Calculated mm3/L # Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

15/03/2023 Algal Count - Total T0393(ADEL)

Algae - Total 642000 cells/mL Blue Green Algae - Total 0 cells/mL Diatoms - Total 86 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 641000 cells/mL Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C

16/03/2023 Chlorophyll a & Phaeophytin a T0380-02(ADEL)

0.1 Chlorophyll a 39.4 µg/L Phaeophytin a 0.1 12.4 µg/L

Inorganic Chemistry - Nutrients LOR Result **Test Start Date**

Sample temperature at time of receipt 1	1.3°C		
Ammonia as N T0100-01(ADEL)			
Ammonia as N	0.005	0.039 mg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	48800 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	14.2 μg/L	
# Nitrate + Nitrite as NO3	2.3	62.9 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		5.79 mg/L	
Phosphorus - Filterable Reactive as P (A	DEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	4.186 μg/L	



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Analytical Results

Sampling Point 31511-EPA - 3.2km South Salt Creek

 Sampled Date
 15/03/2023
 9:05:00AM

 Sample Received Date
 16/03/2023
 9:13:59AM

 Sample Analysis Completed
 6/04/2023
 5:08:21PM

 Sample ID
 *2023-001-0318

 Status
 Endorsed

Collection Type Customer Collected

Phosphorus - Filterable Reactive as P (A	DEL)		04/04/2023
Phosphorus-Filterable Reactive as P	0.5	1.4 µg/L	
Phosphorus - Total T0109-44(ADEL)			23/03/2023
Phosphorus - Total	0.005	0.060 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	8.81 mg/L	
TKN as N T0112-01(ADEL)			23/03/2023
TKN as Nitrogen	0.05	5.78 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.3°C Dissolved Organic Carbon T0158-07(ADEL) Dissolved Organic Carbon	C	25.0 mg/L	28/03/2023
Total Organic Carbon T0158-07(ADEL) Total Organic Carbon	1	32.7 mg/L	28/03/2023

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

17/03/2023

17/03/2023

Alkalinity as Calcium Carbonate 254 $\,$ mg/L Bicarbonate 310 $\,$ mg/L Carbonate 0 $\,$ mg/L Hydroxide 0 $\,$ mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 109000 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 95800 mg/L

pH T0010-01(ADEL)
pH 7.8 pH units

21.9 °C

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Temperature at which pH is measured

PO Box 1751 250 Victoria Square Adelaide SA 5001 Adelaide SA 5000

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Analytical Results

Status

Sampling Point 31511-EPA - 3.2km South Salt Creek

15/03/2023 9:05:00AM **Sampled Date** 16/03/2023 9:13:59AM Sample Received Date 6/04/2023 5:08:21PM Sample Analysis Completed *2023-001-0318 Sample ID Endorsed

Customer Collected Collection Type

17/03/2023 **Turbidity T0018-01(ADEL)**

0.1 Turbidity 14 NTU

Inorganic Chemistry - Waste Water LOR Result **Test Start Date**

Sample temperature at time of receipt 11.3°C Suspended Solids T0160-01(ADEL)

23/03/2023 Suspended Solids 1.0 40 mg/L



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Analytical Results

31517-EPA - 1.8km West Salt Creek **Sampling Point**

15/03/2023 9:20:00AM Sampled Date 16/03/2023 9:15:03AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0319 Sample ID Endorsed **Status**

Customer Collected Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

PERIDINIACEAE 410 cells/ml Gymnodinioids 18 cells/mL Oxyrrhis 22 cells/mL Heterocapsa 120 cells/ml

GREEN ALGAE

Chlorella 1330000 cells/mL Unicellular green algae 423000 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL)

GREEN ALGAE

Chlorella 59.8 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume 0.00 mm3/L # Total Diatom Biovolume 0.00 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C Algal Count - Total T0393(ADEL)

Algae - Total 1750000 cells/mL

Blue Green Algae - Total 0 cells/mL

Diatoms - Total 0 cells/ml



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15/03/2023

AWQC

16/03/2023

Test Start Date

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Analytical Results

Sampling Point 31517-EPA - 1.8km West Salt Creek

 Sampled Date
 15/03/2023
 9:20:00AM

 Sample Received Date
 16/03/2023
 9:15:03AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0319

 Status
 Endorsed

Collection Type Customer Collected

Algal Count - Total T0393(ADEL) 15/03/2023

 Geosmin-MIB producing BGA - Total
 0 cells/mL

 Green Algae - Total
 1750000 cells/mL

 Toxin producing BGA - Total
 0 cells/mL

LOR

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Inorganic Chemistry - Nutrients

Chlorophyll a 0.1 75.9 $\,\mu g/L$ Phaeophytin a 0.1 25.8 $\,\mu g/L$

Result

Sample temperature at time of receipt 1	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	43 μg/L	
Chloride T0104-02(ADEL)			23/03/2023
Chloride	4.0	40700 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	8.4 µg/L	
# Nitrate + Nitrite as NO3	2.3	37.2 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		4.30 mg/L	
Phosphorus - Filterable Reactive as P (A	ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	4.784 μg/L	
Phosphorus-Filterable Reactive as P	0.5	1.6 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.015 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	8.73 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	4.29 mg/L	



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Analytical Results

Sampling Point 31517-EPA - 1.8km West Salt Creek

 Sampled Date
 15/03/2023
 9:20:00AM

 Sample Received Date
 16/03/2023
 9:15:03AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0319

 Status
 Endorsed

Collection Type Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		_
Dissolved Organic Carbon T0158-07(ADE	EL)		28/03/2023
Dissolved Organic Carbon	1	23.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			28/03/2023
Total Organic Carbon	1	31.5 mg/L	
Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1			.=
Alkalinity Carbonate Bicarbonate and H	ydroxide T0101-0	•	17/03/2023
Alkalinity as Calcium Carbonate		236 mg/L	
Bicarbonate		288 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids TO	016-01(ADEL)		17/03/2023
Conductivity	2	98300 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	83200 mg/L	
pH T0010-01(ADEL)			17/03/2023
рН		8.1 pH units	
Temperature at which pH is measured		22.0 °C	
Turbidity T0018-01(ADEL)			17/03/2023
Turbidity	0.1	12 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1 Suspended Solids T0160-01(ADEL)	1.3°C		23/03/2023
Suspended Solids	1.0	24 mg/L	25,0372020



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Analytical Results

315191-EPA - Morella Creek @ guage **Sampling Point**

Endorsed

15/03/2023 9:25:00AM **Sampled Date** Sample Received Date 16/03/2023 9:15:31AM 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0323 Sample ID

Customer Collected Collection Type

Biology Operations	LOR	Result	Test Start Date
--------------------	-----	--------	-----------------

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

BLUE GREEN ALGAE

Merismopedia 240 cells/mL

CRYPTOPHYTES

Cryptomonas 10 cells/ml

DIATOMS

Status

Synedra 510 cells/mL 20 cells/mL Nitzschia

DINOFLAGELLATES

Protoperidinium 16 cells/mL PERIDINIACEAE 40 cells/ml Oxyrrhis 20 cells/mL Prorocentrum lima 18 cells/mL

GREEN ALGAE

Chlorella 3100 cells/mL Phytoflagellates 450 cells/mL Monoraphidium sp_2_(short) 450 cells/mL Oocystis 60 cells/mL

Organism - Comment Prorocentrum lima - The identification for this

organism is tentative only.

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

BLUE GREEN ALGAE

Merismopedia < 0.01 mm3/L

CRYPTOPHYTES

Cryptomonas 0.01 mm3/L

DIATOMS

Synedra 0.35 mm3/L

Nitzschia 0.03 mm3/L



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Analytical Results

315191-EPA - Morella Creek @ guage **Sampling Point**

15/03/2023 9:25:00AM Sampled Date 16/03/2023 9:15:31AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0323 Sample ID

Customer Collected Collection Type

15/03/2023 Algal Biovolume T0393(ADEL)

GREEN ALGAE

Status

Chlorella 0.14 mm3/L Monoraphidium sp_2_(short) 0.02 mm3/L Oocystis 0.02 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

Endorsed

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume <0.01 mm3/L # Total Diatom Biovolume 0.38 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL) 15/03/2023

Algae - Total 4930 cells/ml Blue Green Algae - Total 240 cells/mL Diatoms - Total 530 cells/mL Geosmin-MIB producing BGA - Total 0 cells/ml Green Algae - Total 4060 cells/mL Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

16/03/2023

Chlorophyll a 0.1 4.54 µg/L Phaeophytin a 0.1 1.78 µg/L

Inorganic Chemistry - Nutrients LOR Result **Test Start Date**

Sample temperature at time of receipt 11.3°C



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Analytical Results

Sampling Point 315191-EPA - Morella Creek @ guage

 Sampled Date
 15/03/2023
 9:25:00AM

 Sample Received Date
 16/03/2023
 9:15:31AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0323

 Status
 Endorsed

Collection Type Customer Collected

Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	6 μg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	8550 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	8.6 µg/L	
# Nitrate + Nitrite as NO3	2.3	38.1 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		1.27 mg/L	
Phosphorus - Filterable Reactive as P (A	(DEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	8.372 μg/L	
Phosphorus-Filterable Reactive as P	0.5	2.8 μg/L	
Phosphorus - Total T0109-44(ADEL)			23/03/2023
Phosphorus - Total	0.005	<0.005 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	7.06 mg/L	
TKN as N T0112-01(ADEL)			23/03/2023
TKN as Nitrogen	0.05	1.26 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Dissolved Organic Carbon T0158-07(AD	EL)		31/03/2023
Dissolved Organic Carbon	1	15.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	15.6 mg/L	

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 270 mg/L

17/03/2023



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Analytical Results

Sampling Point 315191-EPA - Morella Creek @ guage

 Sampled Date
 15/03/2023
 9:25:00AM

 Sample Received Date
 16/03/2023
 9:15:31AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0323

 Status
 Endorsed

Collection Type Customer Collected

Alkalinity Carbonate Bicarbonate and	Hydroxide T0101-0	01(ADEL)	17/03/2023
Bicarbonate	-	179 mg/L	
Carbonate		74 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids	T0016-01(ADEL)		17/03/2023
Conductivity	2	25100 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	15700 mg/L	
pH T0010-01(ADEL)			17/03/2023
рН		9.2 pH units	
Temperature at which pH is measured		22.0 °C	
Turbidity T0018-01(ADEL)			17/03/2023
Turbidity	0.1	7.2 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.	.3°C		
Suspended Solids T0160-01(ADEL)			23/03/2023
Suspended Solids	1.0	8 mg/L	



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Analytical Results

31515-EPA - Snipe Point **Sampling Point** 15/03/2023 9:40:00AM Sampled Date 16/03/2023 9:14:49AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0316 Sample ID Endorsed **Status**

Customer Collected Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

Gymnodinioids 6 cells/ml PERIDINIACEAE 8 cells/mL Oxyrrhis 50 cells/mL Heterocapsa 200 cells/ml

GREEN ALGAE

Chlorella 1050000 cells/mL Unicellular green algae 356000 cells/ml Phytoflagellates 6500 cells/mL

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

GREEN ALGAE

Chlorella 47.2 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate. # Total Algae Biovolume Not Calculated mm3/L

Total Blue Green Algae Biovolume 0.00 mm3/L # Total Diatom Biovolume 0.00 mm3/l

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C Algal Count - Total T0393(ADEL)

Algae - Total

Blue Green Algae - Total

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1410000 cells/mL 0 cells/ml



15/03/2023

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Analytical Results

 Sampling Point
 31515-EPA - Snipe Point

 Sampled Date
 15/03/2023 9:40:00AM

 Sample Received Date
 16/03/2023 9:14:49AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0316

 Status
 Endorsed

Collection Type Customer Collected

Algal Count - Total T0393(ADEL)

Diatoms - Total0 cells/mLGeosmin-MIB producing BGA - Total0 cells/mLGreen Algae - Total1410000 cells/mLToxin producing BGA - Total0 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 84.8 $\,\mu g/L$ Phaeophytin a 0.1 28.7 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	37 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	44100 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	6.9 µg/L	
# Nitrate + Nitrite as NO3	2.3	30.6 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		4.30 mg/L	
Phosphorus - Filterable Reactive as P (A	ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	5.681 µg/L	
Phosphorus-Filterable Reactive as P	0.5	1.9 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.079 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	9.80 mg/L	
TKN as N T0112-01(ADEL)		-	22/03/2023
TKN as Nitrogen	0.05	4.29 mg/L	



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Analytical Results

 Sampling Point
 31515-EPA - Snipe Point

 Sampled Date
 15/03/2023 9:40:00AM

 Sample Received Date
 16/03/2023 9:14:49AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0316

 Status
 Endorsed

 Collection Type
 Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Dissolved Organic Carbon T0158-07(ADI	≣L)		31/03/2023
Dissolved Organic Carbon	1	22.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	27.8 mg/L	
Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Alkalinity Carbonate Bicarbonate and H	ydroxide T0101-0	1(ADEL)	17/03/2023
Alkalinity as Calcium Carbonate		235 mg/L	
Bicarbonate		287 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids TO	016-01(ADEL)		17/03/2023
Conductivity	2	97600 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	82400 mg/L	
pH T0010-01(ADEL)			17/03/2023
pH		8.1 pH units	
Temperature at which pH is measured		22.0 °C	
Turbidity T0018-01(ADEL)			20/03/2023
Turbidity	0.1	12 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		00/00/2222
Suspended Solids T0160-01(ADEL)			23/03/2023
Suspended Solids	1.0	30 mg/L	



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Analytical Results

31519-EPA - Morella Basin at Outlet Regulator **Sampling Point**

15/03/2023 9:45:00AM Sampled Date 16/03/2023 9:15:18AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0322 Sample ID

Endorsed **Status Customer Collected**

Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

Synedra 108 cells/ml

DINOFLAGELLATES

Oxyrrhis 170 cells/ml Peridinium 170 cells/mL

GREEN ALGAE

Phytoflagellates 917 cells/mL Unicellular green algae 2000 cells/mL Monoraphidium sp_2_(short) 1920 cells/mL

Sample temperature at time of receipt 11.3°C

DIATOMS

Synedra

0.07 mm3/l

DINOFLAGELLATES

Total Algae Biovolume

Total Diatom Biovolume

Total Toxic BGA Biovolume

Total Green Algae Biovolume

Total Blue_Green Algae Biovolume

Algal Biovolume T0393(ADEL)

Peridinium 6.80 mm3/L

GREEN ALGAE

Monoraphidium sp_2_(short) 0.10 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are approximate values. Reported taxa and

calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate. Not Calculated mm3/L

0.00 mm3/L

0.07 mm3/L

Not Calculated mm3/L

0.00 mm3/L



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Analytical Results

Sampling Point 31519-EPA - Morella Basin at Outlet Regulator

15/03/2023 9:45:00AM **Sampled Date** 16/03/2023 9:15:18AM **Sample Received Date** 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0322 Sample ID Endorsed **Status**

Customer Collected Collection Type

Sample temperature at time of receipt 11.3°C

15/03/2023 Algal Count - Total T0393(ADEL)

Algae - Total 5280 cells/mL Blue Green Algae - Total 0 cells/mL Diatoms - Total 108 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 4840 cells/mL Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C

16/03/2023 Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 3.84 µg/L Phaeophytin a 0.1 1.22 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	54 μg/L	
Chloride T0104-02(ADEL)			16/03/2023
Chloride	4.0	8150 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	9.2 μg/L	
# Nitrate + Nitrite as NO3	2.3	40.8 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		1.09 mg/L	
Phosphorus - Filterable Reactive as P (A	ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	8.671 µg/L	
Phosphorus-Filterable Reactive as P	0.5	2.9 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	<0.005 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	8.50 mg/L	



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Analytical Results

Sampling Point 31519-EPA - Morella Basin at Outlet Regulator

 Sampled Date
 15/03/2023
 9:45:00AM

 Sample Received Date
 16/03/2023
 9:15:18AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0322

 Status
 Endorsed

Collection Type Customer Collected

TKN as N T0112-01(ADEL) 22/03/2023

TKN as Nitrogen 0.05 1.08 mg/L

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of rece	eipt 11.3°C		
Dissolved Organic Carbon T0158-07	(ADEL)		31/03/2023
Dissolved Organic Carbon	1	15.1 mg/L	
Total Organic Carbon T0158-07(ADE	EL)		31/03/2023
Total Organic Carbon	1	17.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

Alkalinity as Calcium Carbonate 266 mg/L
Bicarbonate 170 mg/L
Carbonate 76 mg/L
Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 24800 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 15500 mg/L

Total Dissolved Solids (by EC) 1 15500 mg/L pH T0010-01(ADEL)

pH 9.1 pH units

Temperature at which pH is measured 22.0 °C

 Turbidity T0018-01(ADEL)

 Turbidity
 0.1
 2.4 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C



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17/03/2023

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Analytical Results

Sampling Point 31519-EPA - Morella Basin at Outlet Regulator

 Sampled Date
 15/03/2023
 9:45:00AM

 Sample Received Date
 16/03/2023
 9:15:18AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0322

Status Endorsed

Collection Type Customer Collected

Suspended Solids T0160-01(ADEL)

23/03/2023

Suspended Solids 1.0 11 mg/L



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Analytical Results

Sampling Point 531012-EPA - Sth Policeman Point

 Sampled Date
 15/03/2023
 10:05:00AM

 Sample Received Date
 16/03/2023
 9:18:20AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0333

Status Endorsed

Collection Type Customer Collected

Biology Operations LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DINOFLAGELLATES

 Gymnodinioids
 8 cells/mL

 PERIDINIACEAE
 220 cells/mL

 Heterocapsa
 160 cells/mL

 Oxyrrhis
 20 cells/mL

GREEN ALGAE

Unicellular green algae 259000 cells/mL Chlorella 907000 cells/mL Phytoflagellates 8500 cells/mL

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

GREEN ALGAE

Chlorella 40.8 mm3/L

Algal Biovolume Comment

Biovolumes for taxa reported at genus level are approximate values. Reported taxa and

calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.
Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume 0.00 mm3/L # Total Diatom Biovolume 0.00 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C Algal Count - Total T0393(ADEL)

Algae - Total

Blue Green Algae - Total

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WORLD RECOGNISES

1170000 cells/mL

0 cells/ml

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Analytical Results

Sampling Point 531012-EPA - Sth Policeman Point

 Sampled Date
 15/03/2023
 10:05:00AM

 Sample Received Date
 16/03/2023
 9:18:20AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0333

 Status
 Endorsed

Collection Type Customer Collected

Algal Count - Total T0393(ADEL)

 Diatoms - Total
 0 cells/mL

 Geosmin-MIB producing BGA - Total
 0 cells/mL

 Green Algae - Total
 1170000 cells/mL

 Toxin producing BGA - Total
 0 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 90.0 $\,\mu g/L$ Phaeophytin a 0.1 32.4 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	39 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	43000 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	11.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	48.7 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		4.17 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	5.382 μg/L	
Phosphorus-Filterable Reactive as P	0.5	1.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.119 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	7.20 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	4.16 mg/L	



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Analytical Results

Sampling Point 531012-EPA - Sth Policeman Point

 Sampled Date
 15/03/2023
 10:05:00AM

 Sample Received Date
 16/03/2023
 9:18:20AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0333

 Status
 Endorsed

Collection Type Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Dissolved Organic Carbon T0158-07(ADI	EL)		31/03/2023
Dissolved Organic Carbon	1	22.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	31.0 mg/L	
Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Alkalinity Carbonate Bicarbonate and H	ydroxide T0101-0	1(ADEL)	17/03/2023
Alkalinity as Calcium Carbonate		235 mg/L	
Bicarbonate		286 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids TO	016-01(ADEL)		17/03/2023
Conductivity	2	95600 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	80200 mg/L	
pH T0010-01(ADEL)			17/03/2023
pH		8.1 pH units	
Temperature at which pH is measured		22.0 °C	
Turbidity T0018-01(ADEL)			20/03/2023
Turbidity	0.1	12 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		22/02/2022
Suspended Solids T0160-01(ADEL) Suspended Solids	1.0	20 mg/L	23/03/2023
	1.0	ZU mg/L	



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Analytical Results

 Sampling Point
 31526-EPA - Nth Jack Point

 Sampled Date
 15/03/2023 10:30:00AM

 Sample Received Date
 16/03/2023 9:16:39AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0315

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

Pennate diatoms 10 cells/mL

DINOFLAGELLATES

 Gymnodinioids
 10 cells/mL

 PERIDINIACEAE
 70 cells/mL

 Heterocapsa
 100 cells/mL

 Oxyrrhis
 20 cells/mL

GREEN ALGAE

Unicellular green algae 291000 cells/mL Phytoflagellates 5360 cells/mL Chlorella 1000000 cells/mL

Sample temperature at time of receipt 11.3°C Algal Biovolume T0393(ADEL)

GREEN ALGAE

Total Algae Biovolume

Total Diatom Biovolume

Total Toxic BGA Biovolume

Total Green Algae Biovolume

Chlorella 45.0 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

0.00 mm3/L

Not Calculated mm3/L Not Calculated mm3/L

0.00 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL)

Total Blue_Green Algae Biovolume

15/03/2023

15/03/2023



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Analytical Results

 Sampling Point
 31526-EPA - Nth Jack Point

 Sampled Date
 15/03/2023 10:30:00AM

 Sample Received Date
 16/03/2023 9:16:39AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0315

 Status
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Collection Type Customer Collected

Algal Count - Total T0393(ADEL)

 Algae - Total
 297000 cells/mL

 Blue Green Algae - Total
 0 cells/mL

 Diatoms - Total
 10 cells/mL

 Geosmin-MIB producing BGA - Total
 0 cells/mL

 Green Algae - Total
 296000 cells/mL

 Toxin producing BGA - Total
 0 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 92.0 μg/L

Phaeophytin a 0.1 29.4 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	26 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	34800 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	6.6 µg/L	
# Nitrate + Nitrite as NO3	2.3	29.2 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		3.76 mg/L	
Phosphorus - Filterable Reactive as P (A	ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	4.186 μg/L	
Phosphorus-Filterable Reactive as P	0.5	1.4 μg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.079 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	4.68 mg/L	
TKN as N T0112-01(ADEL)		-	22/03/2023



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 Sampling Point
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 Sampled Date
 15/03/2023 10:30:00AM

 Sample Received Date
 16/03/2023 9:16:39AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0315

 Status
 Endorsed

Collection Type Customer Collected

TKN as N T0112-01(ADEL) 22/03/2023

TKN as Nitrogen 0.05 3.75 mg/L

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Dissolved Organic Carbon T0158-07(ADI	EL)		31/03/2023
Dissolved Organic Carbon	1	21.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	29.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)	17/03/2023
---	------------

Alkalinity as Calcium Carbonate 229 mg/L
Bicarbonate 279 mg/L
Carbonate 0 mg/L
Hydroxide 0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 87700 μ S/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 71500 mg/L

pH T0010-01(ADEL) 17/03/2023

pH 8.2 pH units

Temperature at which pH is measured 22.0 °C **Turbidity T0018-01(ADEL)**

Turbidity 0.1 10 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C



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Abusinessurit of the South Australian Water Corporation

17/03/2023

20/03/2023

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Analytical Results

Sampling Point 31526-EPA - Nth Jack Point 15/03/2023 10:30:00AM **Sampled Date** 16/03/2023 9:16:39AM **Sample Received Date** 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0315 Sample ID Endorsed Status

Customer Collected Collection Type

Suspended Solids T0160-01(ADEL)

23/03/2023

Suspended Solids 1.0 24 mg/L



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Analytical Results

Sampling Point 300713-Tilley Swamp Drain D/S Northern Outlet

 Sampled Date
 15/03/2023
 10:30:00AM

 Sample Received Date
 16/03/2023
 9:13:46AM

 Sample Analysis Completed
 6/04/2023
 5:08:20PM

 Sample ID
 *2023-001-0324

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	11.3°C		_
Algal Identification T0393(ADEL)			
Other Organisms		40 cells/mL	
CRYPTOPHYTES			
Cryptomonas		12 cells/mL	
DIATOMS			
Cyclotella		70 cells/mL	
DINOFLAGELLATES			
Gymnodinioids		2 cells/mL	
PERIDINIACEAE		22 cells/mL	
PERIDINIALES		2 cells/mL	
GREEN ALGAE			
Chlorella		1150 cells/mL	
Monoraphidium sp_2_(short)		300 cells/mL	
MESOTAENIACEAE		2 cells/mL	
Unicellular green algae		217 cells/mL	
Organism - Comment		PERIDINIALES - This was Parvodinium.	
Organism - Comment		MESOTAENIACEAE - This was Netrium.	
Sample temperature at time of receipt 1	11.3°C		
Algal Biovolume T0393(ADEL)			15/03/2023
CRYPTOPHYTES			
Cryptomonas		0.01 mm3/L	
DIATOMS			
Cyclotella		0.04 mm3/L	
GREEN ALGAE			
Chlorella		0.05 mm3/L	
Monoraphidium sp_2_(short)		0.02 mm3/L	



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Analytical Results

300713-Tilley Swamp Drain D/S Northern Outlet **Sampling Point**

15/03/2023 10:30:00AM Sampled Date 16/03/2023 9:13:46AM Sample Received Date 6/04/2023 5:08:20PM Sample Analysis Completed *2023-001-0324 Sample ID Endorsed **Status**

Customer Collected Collection Type

Algal Biovolume T0393(ADEL)

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume 0.00 mm3/l # Total Diatom Biovolume 0.04 mm3/L

Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C

15/03/2023 Algal Count - Total T0393(ADEL)

Algae - Total 1780 cells/ml Blue Green Algae - Total 0 cells/mL Diatoms - Total 70 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 1670 cells/ml Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C

16/03/2023 Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0 1 2.53 µg/L Phaeophytin a 0.1 0.63 µg/L

Inorganic Chemistry - Nutrients LOR Result **Test Start Date**

Sample temperature at time of receipt 11.3°C Ammonia as N T0100-01(ADEL)

Ammonia as N 0.005 0.157 mg/L

4 0

16/03/2023 Chloride T0104-02(ADEL)

2670 mg/L

Chloride

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Analytical Results

Sampling Point 300713-Tilley Swamp Drain D/S Northern Outlet

 Sampled Date
 15/03/2023
 10:30:00AM

 Sample Received Date
 16/03/2023
 9:13:46AM

 Sample Analysis Completed
 6/04/2023
 5:08:20PM

 Sample ID
 *2023-001-0324

 Status
 Endorsed

Collection Type Customer Collected

	Odotomor O		
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	5.8 μg/L	
# Nitrate + Nitrite as NO3	2.3	25.7 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		0.49 mg/L	
Phosphorus - Filterable Reactive as P (A	DEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	9.867 μg/L	
Phosphorus-Filterable Reactive as P	0.5	3.3 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.032 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023
Silica - Reactive	0.05	12.1 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	0.48 mg/L	
Organic Chemistry	LOR	Result	Test Start Date

LOR	Result	Test Start Date
pt 11.3°C		
ADEL)		31/03/2023
1	7.1 mg/L	
_)		31/03/2023
1	7.4 mg/L	
	LOR pt 11.3°C ADEL) 1 -)	pt 11.3°C ADEL) 1 7.1 mg/L -)

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

17/03/2023

Alkalinity as Calcium Carbonate 376 $\,$ mg/L Bicarbonate 458 $\,$ mg/L Carbonate 0 $\,$ mg/L Hydroxide 0 $\,$ mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL)

17/03/2023



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 15/03/2023
 10:30:00AM

 Sample Received Date
 16/03/2023
 9:13:46AM

 Sample Analysis Completed
 6/04/2023
 5:08:20PM

 Sample ID
 *2023-001-0324

 Status
 Endorsed

Collection Type Customer Collected

Conductivity & Total Dissolved Solids T0016-01(ADEL)			17/03/2023
Conductivity	2	8620 μS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	4980 mg/L	
pH T0010-01(ADEL)			17/03/2023
рН		8.2 pH units	
Temperature at which pH is measured		22.0 °C	
Turbidity T0018-01(ADEL)			20/03/2023
Turbidity	0.1	2.2 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1	1.3°C		
Suspended Solids T0160-01(ADEL)			23/03/2023
Suspended Solids	1.0	6 mg/L	



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Analytical Results

 Sampling Point
 31514-EPA - Stoney Well

 Sampled Date
 15/03/2023 11:00:00AM

 Sample Received Date
 16/03/2023 9:14:37AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0320

 Status
 Endorsed

Collection Type Customer Collected

Biology Operations LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

PENNALES 20 cells/mL

DINOFLAGELLATES

PERIDINIACEAE 18 cells/mL Gymnodinioids 12 cells/mL

GREEN ALGAE

Chlorella912000 cells/mLUnicellular green algae96000 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL) 15/03/2023

DIATOMS

PENNALES <0.01 mm3/L

GREEN ALGAE

Total Algae Biovolume

Total Diatom Biovolume

Total Toxic BGA Biovolume

Total Green Algae Biovolume

Chlorella 41.0 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Not Calculated mm3/L

0.00 mm3/L <0.01 mm3/L

Not Calculated mm3/L

0.00 mm3/L

Sample temperature at time of receipt 11.3°C

Algal Count - Total T0393(ADEL)

Total Blue_Green Algae Biovolume

Algae - Total 1010000 cells/mL



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16/03/2023

Test Start Date

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Analytical Results

31514-EPA - Stoney Well **Sampling Point** 15/03/2023 11:00:00AM **Sampled Date** 16/03/2023 9:14:37AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0320 Sample ID Endorsed **Status**

Customer Collected Collection Type

15/03/2023 Algal Count - Total T0393(ADEL)

Blue Green Algae - Total 0 cells/mL Diatoms - Total 20 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL Green Algae - Total 1010000 cells/mL Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Inorganic Chemistry - Nutrients

0.1 Chlorophyll a 76.6 µg/L

Phaeophytin a 0.1 30.7 µg/L

LOR

0.05

Sample temperature at time of receipt 1	1.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	26 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	35900 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	7.6 µg/L	
# Nitrate + Nitrite as NO3	2.3	33.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		3.83 mg/L	
Phosphorus - Filterable Reactive as P (A	DEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	3.887 µg/L	
Phosphorus-Filterable Reactive as P	0.5	1.3 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.049 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023
Silica - Reactive	0.05	2.67 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023

3.82 mg/L

Result



TKN as Nitrogen

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Analytical Results

Collection Type

31514-EPA - Stoney Well **Sampling Point** 15/03/2023 11:00:00AM **Sampled Date** 16/03/2023 9:14:37AM **Sample Received Date** 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0320 Sample ID Endorsed **Status**

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Dissolved Organic Carbon T0158-07(AD	DEL)		31/03/2023
Dissolved Organic Carbon	1	20.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	24.6 mg/L	
Inorganic Chemistry - Physical	LOR	Result	Test Start Date

Customer Collected

Sample temperature at time of receipt 11.3°C		
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)		17/03/2023
Alkalinity as Calcium Carbonate	213 mg/L	

7 intaining as saistain saissinate	Z 13 IIIg/L
Bicarbonate	260 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 17/03/2023

Conductivity 79000 μS/cm Note Conductivity measurement is corrected to 25°C Total Dissolved Solids (by EC) 62300 mg/L

17/03/2023 pH T0010-01(ADEL)

8.0 pH units Temperature at which pH is measured 22.0 °C

20/03/2023 **Turbidity T0018-01(ADEL)**

Turbidity 0.1 10 NTU

Inorganic Chemistry - Waste Water LOR Result **Test Start Date**

Sample temperature at time of receipt 11.3°C Suspended Solids T0160-01(ADEL)

Suspended Solids 1.0 10 mg/L

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23/03/2023

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Analytical Results

 Sampling Point
 31514-EPA - Stoney Well

 Sampled Date
 15/03/2023 11:00:00AM

 Sample Received Date
 16/03/2023 9:14:37AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0320

 Status
 Endorsed

Collection Type Customer Collected



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Analytical Results

31525-EPA - Villa de Yumpa **Sampling Point** 15/03/2023 11:25:00AM Sampled Date 16/03/2023 9:16:23AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0313 Sample ID Endorsed

Status Customer Collected Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

CRYPTOPHYTES

Cryptomonads 10 cells/ml

DIATOMS

Gyrosigma 2 cells/ml

GREEN ALGAE

Unicellular green algae 108000 cells/mL Phytoflagellates 20 cells/mL Chlorella 968000 cells/mL

Sample temperature at time of receipt 11.3°C

15/03/2023 Algal Biovolume T0393(ADEL)

CRYPTOPHYTES

Cryptomonads <0.01 mm3/L

DIATOMS

Gyrosigma <0.01 mm3/L

GREEN ALGAE

Chlorella 43.6 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate.

Total Algae Biovolume Not Calculated mm3/L # Total Blue_Green Algae Biovolume

0.00 mm3/L

Total Diatom Biovolume <0.01 mm3/L # Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C



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Analytical Results

 Sampling Point
 31525-EPA - Villa de Yumpa

 Sampled Date
 15/03/2023 11:25:00AM

 Sample Received Date
 16/03/2023 9:16:23AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0313

 Status
 Endorsed

Collection Type Customer Collected

Algal Count - Total T0393(ADEL)	15/03/2023
Algae - Total	1080000 cells/mL

 Agae - Total
 1080000 cells/mL

 Blue Green Algae - Total
 0 cells/mL

 Diatoms - Total
 2 cells/mL

 Geosmin-MIB producing BGA - Total
 0 cells/mL

 Green Algae - Total
 1080000 cells/mL

 Toxin producing BGA - Total
 0 cells/mL

Sample temperature at time of receipt 11.3°C Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 68.1 $\,\mu g/L$ Phaeophytin a 0.1 26.4 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date

Sample temperature at time of receipt 1	1.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	26 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	32500 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	8.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	39.0 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		3.33 mg/L	
Phosphorus - Filterable Reactive as P (A	DEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	<1.5 µg/L	
Phosphorus-Filterable Reactive as P	0.5	0.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.037 mg/L	
Silica - Reactive T0111-01(ADEL)			20/03/2023
Silica - Reactive	0.05	0.74 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023





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Analytical Results

 Sampling Point
 31525-EPA - Villa de Yumpa

 Sampled Date
 15/03/2023 11:25:00AM

 Sample Received Date
 16/03/2023 9:16:23AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0313

 Status
 Endorsed

Collection Type Customer Collected

TKN as N T0112-01(ADEL) 22/03/2023

TKN as Nitrogen 0.05 3.32 mg/L

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 11.			04/00/0000
Dissolved Organic Carbon T0158-07(ADEI	L)		31/03/2023
Dissolved Organic Carbon	1	20.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/03/2023
Total Organic Carbon	1	25.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
--------------------------------	-----	--------	-----------------

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate	Bicarbonate and Hydroxide T0101-01(AD	EL) 17/03/2023
-----------------------------	---------------------------------------	----------------

Alkalinity as Calcium Carbonate 207 $\mbox{ mg/L}$ Bicarbonate 253 $\mbox{ mg/L}$ Carbonate 0 $\mbox{ mg/L}$ Hydroxide 0 $\mbox{ mg/L}$

Conductivity & Total Dissolved Solids T0016-01(ADEL)

Conductivity 2 76800 µS/cm

Note Conductivity measurement is corrected to 25°C

0.1

Total Dissolved Solids (by EC) 1 60100 mg/L

pH T0010-01(ADEL)

pH 8.1 pH units

Temperature at which pH is measured 21.9 °C

Turbidity T0018-01(ADEL)

Inorganic Chemistry - Waste Water LOR Result Test Start Date

11 NTU

Sample temperature at time of receipt 11.3°C



Turbidity

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17/03/2023

17/03/2023

20/03/2023

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Analytical Results

 Sampling Point
 31525-EPA - Villa de Yumpa

 Sampled Date
 15/03/2023 11:25:00AM

 Sample Received Date
 16/03/2023 9:16:23AM

 Sample Analysis Completed
 6/04/2023 2:42:55PM

 Sample ID
 *2023-001-0313

Status Endorsed

Collection Type Customer Collected

Suspended Solids T0160-01(ADEL)

23/03/2023

Suspended Solids 1.0 10 mg/L



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Analytical Results

31513-EPA - Parnka Point Boat Ramp **Sampling Point**

15/03/2023 12:20:00PM Sampled Date 16/03/2023 9:14:24AM Sample Received Date 6/04/2023 2:42:55PM Sample Analysis Completed *2023-001-0317 Sample ID Endorsed **Status**

Customer Collected Collection Type

LOR **Biology Operations** Result **Test Start Date**

Sample temperature at time of receipt 11.3°C

Algal Identification T0393(ADEL)

DIATOMS

Naviculoids 12 cells/ml

DINOFLAGELLATES

PERIDINIACEAE 4 cells/ml

GREEN ALGAE

Chlorella 881000 cells/mL Unicellular green algae 126000 cells/mL

Sample temperature at time of receipt 11.3°C

Algal Biovolume T0393(ADEL) 15/03/2023

GREEN ALGAE

Chlorella 39.6 mm3/L

Algal Biovolume Comment Biovolumes for taxa reported at genus level are

approximate values. Reported taxa and calculated biovolume includes only those with taxon cell volume and associated cell count data. Biovolume totals have specific criteria around

how they calculate. # Total Algae Biovolume Not Calculated mm3/L

Total Blue_Green Algae Biovolume 0.00 mm3/L

Total Diatom Biovolume Not Calculated mm3/L # Total Green Algae Biovolume Not Calculated mm3/L

Total Toxic BGA Biovolume 0.00 mm3/L

Sample temperature at time of receipt 11.3°C Algal Count - Total T0393(ADEL)

Algae - Total 1010000 cells/mL

Diatoms - Total

Blue Green Algae - Total 0 cells/mL 12 cells/mL Geosmin-MIB producing BGA - Total 0 cells/mL



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Analytical Results

Sampling Point 31513-EPA - Parnka Point Boat Ramp

 Sampled Date
 15/03/2023
 12:20:00PM

 Sample Received Date
 16/03/2023
 9:14:24AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0317

 Status
 Endorsed

Collection Type Customer Collected

Algal Count - Total T0393(ADEL)

Green Algae - Total 1010000 cells/mL
Toxin producing BGA - Total 0 cells/mL

Sample temperature at time of receipt 11.3°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL)

Chlorophyll a 0.1 53.4 $\,\mu g/L$ Phaeophytin a 0.1 26.0 $\,\mu g/L$

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt	11.3°C		
Ammonia as N (ADEL)			04/04/2023
# Ammonia as N	1	28 μg/L	
Chloride T0104-02(ADEL)			20/03/2023
Chloride	4.0	33400 mg/L	
Nitrate + Nitrite as N (ADEL)			04/04/2023
# Nitrate + Nitrite as N	0.5	9.2 µg/L	
# Nitrate + Nitrite as NO3	2.3	40.8 μg/L	
Nitrogen - Total TMZ-M06(ADEL)			16/03/2023
Nitrogen - Total		2.70 mg/L	
Phosphorus - Filterable Reactive as P (A	ADEL)		04/04/2023
# Phosphorus -Filterable Reactive as PO4	1.5	5.681 μg/L	
Phosphorus-Filterable Reactive as P	0.5	1.9 µg/L	
Phosphorus - Total T0109-44(ADEL)			22/03/2023
Phosphorus - Total	0.005	0.063 mg/L	
Silica - Reactive T0111-01(ADEL)			16/03/2023
Silica - Reactive	0.05	2.64 mg/L	
TKN as N T0112-01(ADEL)			22/03/2023
TKN as Nitrogen	0.05	2.69 mg/L	

Organic Chemistry LOR Result Test Start Date



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Analytical Results

Sampling Point 31513-EPA - Parnka Point Boat Ramp

 Sampled Date
 15/03/2023
 12:20:00PM

 Sample Received Date
 16/03/2023
 9:14:24AM

 Sample Analysis Completed
 6/04/2023
 2:42:55PM

 Sample ID
 *2023-001-0317

 Status
 Endorsed

Collection Type Customer Collected

Sample temperature at time of receipt 11.3°C

Dissolved Organic Carbon T0158-07(ADEL) 31/03/2023

20.2 mg/L

Dissolved Organic Carbon 1

Total Organic Carbon T0158-07(ADEL)

Total Organic Carbon 1 20.5 mg/L

Inorganic Chemistry - Physical LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)

17/03/2023

Alkalinity as Calcium Carbonate 206 $\,$ mg/L Bicarbonate 251 $\,$ mg/L Carbonate 0 $\,$ mg/L Hydroxide 0 $\,$ mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 17/03/2023

Conductivity 2 77800 µS/cm

Note Conductivity measurement is corrected to 25°C

Total Dissolved Solids (by EC) 1 61100 mg/L

pH T0010-01(ADEL) 17/03/2023

pH 8.0 pH units
Temperature at which pH is measured 22.0 °C

Turbidity T0018-01(ADEL) 20/03/2023

Turbidity 0.1 10 NTU

Inorganic Chemistry - Waste Water LOR Result Test Start Date

Sample temperature at time of receipt 11.3°C

Suspended Solids T0160-01(ADEL) 24/03/2023

Suspended Solids 1.0 31 mg/L



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Dzung Bui - Supervisor Metals and Physical

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David Evans - Technical Officer Chemistry

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Kerrie Jooste - Manager Chemistry Services

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Dean Newman - Senior Technical Officer Biology

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Supervisor Nutrients and Waste



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	pН	Test not processed within holding time
2023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	Turbidity	Test not processed within holding time
023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	Suspended Solids	Test not processed within holding time
023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
023-001-0313	31525	EPA - Villa de Yumpa	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	рН	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	Turbidity	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	Suspended Solids	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	Dissolved Organic Carbon	Test not processed within holding time
023-001-0314	31523	EPA - Long Point	14/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	pН	Test not processed within holding time
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	Turbidity	Test not processed within holding time
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	Suspended Solids	Test not processed within holding time
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time



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Incidents

ample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
023-001-0315	31526	EPA - Nth Jack Point	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0316	31515	EPA - Snipe Point	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0316	31515	EPA - Snipe Point	15/03/2023	рН	Test not processed within holding time
023-001-0316	31515	EPA - Snipe Point	15/03/2023	Silica - Reactive	Test not processed within holding time
)23-001-0316	31515	EPA - Snipe Point	15/03/2023	Turbidity	Test not processed within holding time
23-001-0316	31515	EPA - Snipe Point	15/03/2023	Suspended Solids	Test not processed within holding time
)23-001-0316	31515	EPA - Snipe Point	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
)23-001-0316	31515	EPA - Snipe Point	15/03/2023	Total Organic Carbon	Test not processed within holding time
)23-001-0317	31513	EPA - Parnka Point Boat Ramp	15/03/2023	Silica - Reactive	Test not processed within holding time
)23-001-0317	31513	EPA - Parnka Point Boat Ramp	15/03/2023	рН	Test not processed within holding time
)23-001-0317	31513	EPA - Parnka Point Boat Ramp	15/03/2023	Turbidity	Test not processed within holding time
)23-001-0317	31513	EPA - Parnka Point Boat Ramp	15/03/2023	Suspended Solids	Test not processed within holding time
023-001-0317	31513	EPA - Parnka Point Boat Ramp	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
)23-001-0317	31513	EPA - Parnka Point Boat Ramp	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	рН	Test not processed within holding time
023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	Turbidity	Test not processed within holding time
023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	Suspended Solids	Test not processed within holding time
023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-001-0318	31511	EPA - 3.2km South Salt Creek	15/03/2023	Total Organic Carbon	Test not processed within holding time
2023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	рН	Test not processed within holding time
023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	Turbidity	Test not processed within holding time
023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	Suspended Solids	Test not processed within holding time
023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
023-001-0319	31517	EPA - 1.8km West Salt Creek	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0320	31514	EPA - Stoney Well	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0320	31514	EPA - Stoney Well	15/03/2023	pН	Test not processed within holding time
023-001-0320	31514	EPA - Stoney Well	15/03/2023	Turbidity	Test not processed within holding time
023-001-0320	31514	EPA - Stoney Well	15/03/2023	Suspended Solids	Test not processed within holding time
023-001-0320	31514	EPA - Stoney Well	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
023-001-0320	31514	EPA - Stoney Well	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	рН	Test not processed within holding time
023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	Turbidity	Test not processed within holding time
023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	Dissolved Organic Carbon	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-001-0321	31512	EPA - McGrath Flat North	14/03/2023	Total Organic Carbon	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	рН	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	Turbidity	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
2023-001-0322	31519	EPA - Morella Basin at Outlet Regulator	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	pН	Test not processed within holding time
023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	Turbidity	Test not processed within holding time
023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
2023-001-0323	315191	EPA - Morella Creek @ guage	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0324	300713	Tilley Swamp Drain D/S Northern Outlet	15/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0324	300713	Tilley Swamp Drain D/S Northern Outlet	15/03/2023	рН	Test not processed within holding time
023-001-0324	300713	Tilley Swamp Drain D/S Northern Outlet	15/03/2023	Turbidity	Test not processed within holding time
023-001-0324	300713	Tilley Swamp Drain D/S Northern Outlet	15/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0324	300713	Tilley Swamp Drain D/S Northern Outlet	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time



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This report supercedes the following issued reports: 358592

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-001-0324	300713	Tilley Swamp Drain D/S Northern Outlet	15/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0325	11505	DEW - Mundoo Downstream	14/03/2023	рН	Test not processed within holding time
023-001-0325	11505	DEW - Mundoo Downstream	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0325	11505	DEW - Mundoo Downstream	14/03/2023	Turbidity	Test not processed within holding time
023-001-0325	11505	DEW - Mundoo Downstream	14/03/2023	Suspended Solids	Test not processed within holding time
023-001-0326	11504	DEW - Mundoo Upstream	14/03/2023	рН	Test not processed within holding time
023-001-0326	11504	DEW - Mundoo Upstream	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0326	11504	DEW - Mundoo Upstream	14/03/2023	Turbidity	Test not processed within holding time
023-001-0326	11504	DEW - Mundoo Upstream	14/03/2023	Suspended Solids	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	рН	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	Turbidity	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	Suspended Solids	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	Dissolved Organic Carbon	Test not processed within holding time
023-001-0327	31522	EPA - Mark Point	14/03/2023	Total Organic Carbon	Test not processed within holding time
023-001-0328	351213	EPA - Murray Mouth	14/03/2023	Silica - Reactive	Test not processed within holding time
023-001-0328	351213	EPA - Murray Mouth	14/03/2023	рН	Test not processed within holding time
023-001-0328	351213	EPA - Murray Mouth	14/03/2023	рН	Test not processed within holding time
023-001-0328	351213	EPA - Murray Mouth	14/03/2023	Turbidity	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-001-0328	351213	EPA - Murray Mouth	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0328	351213	EPA - Murray Mouth	14/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0329	31524	EPA - Bonneys	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0329	31524	EPA - Bonneys	14/03/2023	рН	Test not processed within holding time
2023-001-0329	31524	EPA - Bonneys	14/03/2023	Turbidity	Test not processed within holding time
2023-001-0329	31524	EPA - Bonneys	14/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0329	31524	EPA - Bonneys	14/03/2023	Dissolved Organic Carbon	Test not processed within holding time
2023-001-0329	31524	EPA - Bonneys	14/03/2023	Total Organic Carbon	Test not processed within holding time
2023-001-0330	31528	EPA - Salt Creek Outlet	15/03/2023	рН	Test not processed within holding time
2023-001-0330	31528	EPA - Salt Creek Outlet	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0330	31528	EPA - Salt Creek Outlet	15/03/2023	Turbidity	Test not processed within holding time
2023-001-0330	31528	EPA - Salt Creek Outlet	15/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0330	31528	EPA - Salt Creek Outlet	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
2023-001-0330	31528	EPA - Salt Creek Outlet	15/03/2023	Total Organic Carbon	Test not processed within holding time
2023-001-0331	353179	EPA - Tauwitchere Barrage Upstream	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0331	353179	EPA - Tauwitchere Barrage Upstream	14/03/2023	рН	Test not processed within holding time
2023-001-0331	353179	EPA - Tauwitchere Barrage Upstream	14/03/2023	рН	Test not processed within holding time
2023-001-0331	353179	EPA - Tauwitchere Barrage Upstream	14/03/2023	Turbidity	Test not processed within holding time
2023-001-0331	353179	EPA - Tauwitchere Barrage Upstream	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0331	353179	EPA - Tauwitchere Barrage Upstream	14/03/2023	Suspended Solids	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-001-0332	353177	EPA - Tauwitchere Barrage DS	14/03/2023	pH	Test not processed within holding time
2023-001-0332	353177	EPA - Tauwitchere Barrage DS	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0332	353177	EPA - Tauwitchere Barrage DS	14/03/2023	Turbidity	Test not processed within holding time
2023-001-0332	353177	EPA - Tauwitchere Barrage DS	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0332	353177	EPA - Tauwitchere Barrage DS	14/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	рН	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	Turbidity	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	Dissolved Organic Carbon	Test not processed within holding time
2023-001-0333	531012	EPA - Sth Policeman Point	15/03/2023	Total Organic Carbon	Test not processed within holding time
2023-001-0334	53032	EPA - Noonameena	14/03/2023	рН	Test not processed within holding time
2023-001-0334	53032	EPA - Noonameena	14/03/2023	Silica - Reactive	Test not processed within holding time
2023-001-0334	53032	EPA - Noonameena	14/03/2023	Turbidity	Test not processed within holding time
2023-001-0334	53032	EPA - Noonameena	14/03/2023	Suspended Solids	Test not processed within holding time
2023-001-0334	53032	EPA - Noonameena	14/03/2023	Dissolved Organic Carbon	Test not processed within holding time
2023-001-0334	53032	EPA - Noonameena	14/03/2023	Total Organic Carbon	Test not processed within holding time



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Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0108-01	Filterable Reactive Phosphorus - Automated Flow Colorimetry	AP4500PG
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0111-01	Silica by automated fow colorimetry	AP4500SI02
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0158-07	Total and Dissolved Organic Carbon (Ol Analytical)	SM5310C
T0160-01	Suspended Solids 103C to 105C	AP4500
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
T0380-02	Chlorophyll a & b and phaeophytin	ISO10260
T0393	Microalgae & Cyanobacteria - Scan & Identification	
T0393	Microalgae & Cyanobacteria - Scan & Identification	Hotzel1999
TMZ-M06	Derived Results and Data Checks	AP4500NORGA

Laboratory Information

Laboratory	NATA accreditation ID
Inorganic Chemistry - Physical	1115
Inorganic Chemistry - Waste Water	1115
Inorganic Chemistry - Nutrients	1115
Organic Chemistry	1115
Biology Operations	1115



Corporate Accreditation No.1115 Chemical and Biological Testing Accredited for compliance with ISO/IEC 17025 -Testing Notes 1. The last figure of the result value is a significant figure.

- 2. # determination of the component is not covered by NATA Accreditation.
- 3. ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
- 4. * indicates an incident has been recorded against the sample. Refer to report footer.
- 5. & Indicates the results have changed since the last issued report.
- 6. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>
- 7. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
- 8. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.
- 9. Where collection type is AWQC Collect, NATA has confirmed that due to a robust system in place for maintaining the temperature integrity for samples collected by AWQC's Field Laboratory Services, the recording of temperature when samples arrive at the AWQC is out of scope.
- 10. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
- 11. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.
- 12. AWQC Melbourne Laboratory are only NATA accredited for sampling of potable waters by inhouse method W 09-023.