



DEW - Department of Environment and Water
ATTN: Patrick Betham
24-26 Tikalara street
Regency Park
SA 5010 AUSTRALIA

19/02/2020

Dear Patrick

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2019-CSR-1
Account: 143419
Project: AWQC-141861 DEW - Healthy Coorong Healthy Basin Phase 0 - Non routine
19/20

This report has also been sent to: Frank Mangeruca Mark de Jong

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

Yours sincerely,

Darren Seebohm
Customer Services Officer
Darren.Seebohm@sawater.com.au
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Report Information

Project Name	AWQC-141861
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2019-CSR-1

Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	16/12/2019 9:20:00AM
Sample Received Date	17/12/2019 10:44:36AM
Sample Analysis Completed	31/12/2019 10:07:31AM
Sample ID	2019-008-6524
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.5°C			
Chlorophyll a & b T0380-02(ADEL)			17/12/2019
Chlorophyll a	0.1	49.3 µg/L	
Chlorophyll b	0.1	6.45 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/12/2019
Chlorophyll a	0.1	46.6 µg/L	
Phaeophytin a	0.1	6.92 µg/L	
Inorganic Chemistry - Nutrients			
	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.5°C			
Ammonia as N T0100-01(ADEL)			30/12/2019
Ammonia as N	0.005	0.152 mg/L	
Chloride T0104-02(ADEL)			17/12/2019
Chloride	4.0	55100 mg/L	
Nitrate + Nitrite as N T0161-01(ADEL)			27/12/2019
Nitrate + Nitrite as N	0.003	0.007 mg/L	
Nitrogen - Total TMZ-M06(ADEL)			17/12/2019
Nitrogen - Total		6.14 mg/L	
Phosphorus - Filterable Reactive as P T0108-01(ADEL)			27/12/2019
Phosphorus - Filterable Reactive as P	0.003	0.008 mg/L	
Phosphorus - Total T0109-44(ADEL)			23/12/2019
Phosphorus - Total	0.005	0.206 mg/L	
Silica - Reactive T0111-01(ADEL)			19/12/2019
Silica - Reactive	0.05	2.96 mg/L	
TKN as N T0112-01(ADEL)			23/12/2019



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	16/12/2019 9:20:00AM
Sample Received Date	17/12/2019 10:44:36AM
Sample Analysis Completed	31/12/2019 10:07:31AM
Sample ID	2019-008-6524
Status	Endorsed
Collection Type	Customer Collected

TKN as N T0112-01(ADEL)			23/12/2019
TKN as Nitrogen	0.05	6.13 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	25.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	31.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		228 mg/L	
Bicarbonate		278 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		7.8 pH units	
Temperature at which pH is measured		23.5 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	25 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/12/2019
Total Dissolved Solids (by evaporation)	1	109000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	25 mg/L	



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	16/12/2019 9:20:00AM
Sample Received Date	17/12/2019 10:44:36AM
Sample Analysis Completed	31/12/2019 10:07:31AM
Sample ID	2019-008-6524
Status	Endorsed
Collection Type	Customer Collected



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	16/12/2019 10:30:00AM
Sample Received Date	17/12/2019 10:45:59AM
Sample Analysis Completed	31/12/2019 10:04:33AM
Sample ID	2019-008-6522
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	76.1 µg/L
Chlorophyll b	0.1	8.27 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	70.8 µg/L
Phaeophytin a	0.1	12.0 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	0.012 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	51200 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	0.004 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		5.53 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.173 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	3.27 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	5.53 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	16/12/2019 10:30:00AM
Sample Received Date	17/12/2019 10:45:59AM
Sample Analysis Completed	31/12/2019 10:04:33AM
Sample ID	2019-008-6522
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL) 24/12/2019

Dissolved Organic Carbon	1	24.2 mg/L
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Total Organic Carbon T0158-07(ADEL) 24/12/2019

Total Organic Carbon	1	32.3 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 19/12/2019

Alkalinity as Calcium Carbonate	229 mg/L
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Bicarbonate	280 mg/L
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Carbonate	0 mg/L
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Hydroxide	0 mg/L
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pH T0010-01(ADEL) 19/12/2019

pH	8.0 pH units
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Temperature at which pH is measured	23.6 °C
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Turbidity T0018-01(ADEL) 19/12/2019

Turbidity	0.1	13 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Suspended Solids T0160-01(ADEL) 30/12/2019

Suspended Solids	1.0	97 mg/L
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Total Dissolved Solids by Evaporation T015-05(ADEL) 27/12/2019

Total Dissolved Solids (by evaporation)	1	98300 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 30/12/2019

Fixed Solids	1	41 mg/L
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Volatile Suspended Solids	1	56 mg/L
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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	16/12/2019 10:30:00AM
Sample Received Date	17/12/2019 10:44:43AM
Sample Analysis Completed	7/01/2020 12:42:45PM
Sample ID	2019-008-6530
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	18.2 µg/L
Chlorophyll b	0.1	1.22 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	14.0 µg/L
Phaeophytin a	0.1	7.57 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	0.116 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	6990 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	0.007 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		3.33 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.007 mg/L
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Phosphorus - Total T0109-44(ADEL) 06/01/2020

Phosphorus - Total	0.005	0.074 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	6.04 mg/L
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TKN as N T0112-01(ADEL) 06/01/2020

TKN as Nitrogen	0.05	3.32 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31519-EPA - Morella Basin at Outlet Regulator
Sampled Date	16/12/2019 10:30:00AM
Sample Received Date	17/12/2019 10:44:43AM
Sample Analysis Completed	7/01/2020 12:42:45PM
Sample ID	2019-008-6530
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	23.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	28.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.5°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		340 mg/L	
Bicarbonate		299 mg/L	
Carbonate		57 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	18400 µS/cm	
Total Dissolved Solids (by EC)	1	11200 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		9.0 pH units	
Temperature at which pH is measured		23.3 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	3.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.5°C			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	3 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	3 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	16/12/2019 10:40:00AM
Sample Received Date	17/12/2019 10:45:14AM
Sample Analysis Completed	31/12/2019 10:18:09AM
Sample ID	2019-008-6526
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	87.6 µg/L
Chlorophyll b	0.1	8.66 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	73.5 µg/L
Phaeophytin a	0.1	27.1 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	49600 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		5.28 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.211 mg/L
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Silica - Reactive T0111-01(ADEL) 19/12/2019

Silica - Reactive	0.05	3.27 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	5.28 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	16/12/2019 10:40:00AM
Sample Received Date	17/12/2019 10:45:14AM
Sample Analysis Completed	31/12/2019 10:18:09AM
Sample ID	2019-008-6526
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL) 24/12/2019

Dissolved Organic Carbon	1	24.2 mg/L
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Total Organic Carbon T0158-07(ADEL) 24/12/2019

Total Organic Carbon	1	31.3 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 19/12/2019

Alkalinity as Calcium Carbonate	230 mg/L
Bicarbonate	280 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

pH T0010-01(ADEL) 19/12/2019

pH	8.0 pH units
Temperature at which pH is measured	23.5 °C

Turbidity T0018-01(ADEL) 19/12/2019

Turbidity	0.1	13 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Suspended Solids T0160-01(ADEL) 30/12/2019

Suspended Solids	1.0	26 mg/L
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Total Dissolved Solids by Evaporation T015-05(ADEL) 27/12/2019

Total Dissolved Solids (by evaporation)	1	98000 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 30/12/2019

Fixed Solids	1	<1 mg/L
Volatile Suspended Solids	1	26 mg/L



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	16/12/2019 11:10:00AM
Sample Received Date	17/12/2019 10:45:29AM
Sample Analysis Completed	31/12/2019 10:16:46AM
Sample ID	2019-008-6525
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	85.3 µg/L
Chlorophyll b	0.1	8.29 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	79.2 µg/L
Phaeophytin a	0.1	13.4 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 23/12/2019

Ammonia as N	0.005	0.006 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	52700 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		5.37 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.006 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.223 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	1.35 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	5.37 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	16/12/2019 11:10:00AM
Sample Received Date	17/12/2019 10:45:29AM
Sample Analysis Completed	31/12/2019 10:16:46AM
Sample ID	2019-008-6525
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL) 24/12/2019

Dissolved Organic Carbon	1	23.3 mg/L
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Total Organic Carbon T0158-07(ADEL) 24/12/2019

Total Organic Carbon	1	32.1 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 19/12/2019

Alkalinity as Calcium Carbonate	229 mg/L
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Bicarbonate	279 mg/L
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Carbonate	0 mg/L
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Hydroxide	0 mg/L
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pH T0010-01(ADEL) 19/12/2019

pH	8.0 pH units
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Temperature at which pH is measured	23.6 °C
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Turbidity T0018-01(ADEL) 19/12/2019

Turbidity	0.1	12 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Suspended Solids T0160-01(ADEL) 30/12/2019

Suspended Solids	1.0	26 mg/L
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Total Dissolved Solids by Evaporation T015-05(ADEL) 27/12/2019

Total Dissolved Solids (by evaporation)	1	101000 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 30/12/2019

Fixed Solids	1	<1 mg/L
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Volatile Suspended Solids	1	26 mg/L
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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	16/12/2019 11:25:00AM
Sample Received Date	17/12/2019 10:45:21AM
Sample Analysis Completed	31/12/2019 10:05:47AM
Sample ID	2019-008-6523
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	73.2 µg/L
Chlorophyll b	0.1	7.62 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	68.7 µg/L
Phaeophytin a	0.1	10.5 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 23/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	50500 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		5.39 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.226 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	3.93 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	5.39 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	16/12/2019 11:25:00AM
Sample Received Date	17/12/2019 10:45:21AM
Sample Analysis Completed	31/12/2019 10:05:47AM
Sample ID	2019-008-6523
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL) 24/12/2019

Dissolved Organic Carbon	1	23.3 mg/L
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Total Organic Carbon T0158-07(ADEL) 24/12/2019

Total Organic Carbon	1	32.1 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 19/12/2019

Alkalinity as Calcium Carbonate		228 mg/L
Bicarbonate		278 mg/L
Carbonate		0 mg/L
Hydroxide		0 mg/L

Conductivity & Total Dissolved Solids T0016-01(ADEL) 19/12/2019

Conductivity	2	113000 µS/cm
Total Dissolved Solids (by EC)	1	101000 mg/L

pH T0010-01(ADEL) 19/12/2019

pH		8.0 pH units
Temperature at which pH is measured		23.0 °C

Turbidity T0018-01(ADEL) 19/12/2019

Turbidity	0.1	13 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Suspended Solids T0160-01(ADEL) 30/12/2019

Suspended Solids	1.0	20 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 30/12/2019

Fixed Solids	1	<1 mg/L
Volatile Suspended Solids	1	20 mg/L



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	16/12/2019 11:25:00AM
Sample Received Date	17/12/2019 10:46:13AM
Sample Analysis Completed	31/12/2019 3:32:42PM
Sample ID	2019-008-6531
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	1.68 µg/L
Chlorophyll b	0.1	<0.1 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	1.44 µg/L
Phaeophytin a	0.1	0.41 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 23/12/2019

Ammonia as N	0.005	0.059 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	3630 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	0.004 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		0.80 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.007 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.009 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	10.0 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	0.80 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	16/12/2019 11:25:00AM
Sample Received Date	17/12/2019 10:46:13AM
Sample Analysis Completed	31/12/2019 3:32:42PM
Sample ID	2019-008-6531
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	7.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	7.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		336 mg/L	
Bicarbonate		346 mg/L	
Carbonate		31 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	10400 µS/cm	
Total Dissolved Solids (by EC)	1	6060 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.8 pH units	
Temperature at which pH is measured		23.6 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	1.2 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	2 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	1 mg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	16/12/2019 11:45:00AM
Sample Received Date	17/12/2019 10:46:22AM
Sample Analysis Completed	31/12/2019 10:28:09AM
Sample ID	*2019-008-6532
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	2.35 µg/L
Chlorophyll b	0.1	<0.1 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	2.21 µg/L
Phaeophytin a	0.1	0.27 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 23/12/2019

Ammonia as N	0.005	0.023 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	3850 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	0.011 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		0.80 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.010 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	<0.005 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	11.3 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	0.79 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	16/12/2019 11:45:00AM
Sample Received Date	17/12/2019 10:46:22AM
Sample Analysis Completed	31/12/2019 10:28:09AM
Sample ID	*2019-008-6532
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	7.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	7.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		346 mg/L	
Bicarbonate		367 mg/L	
Carbonate		27 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	10300 µS/cm	
Total Dissolved Solids (by EC)	1	6000 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.7 pH units	
Temperature at which pH is measured		23.6 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	5.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	9 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	5 mg/L	
Volatile Suspended Solids	1	4 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	16/12/2019 12:00:00PM
Sample Received Date	17/12/2019 10:46:06AM
Sample Analysis Completed	31/12/2019 10:02:25AM
Sample ID	2019-008-6521
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	42.1 µg/L
Chlorophyll b	0.1	5.91 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	39.8 µg/L
Phaeophytin a	0.1	6.03 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 23/12/2019

Ammonia as N	0.005	0.007 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	45300 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		4.98 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.123 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	1.41 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	4.98 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	16/12/2019 12:00:00PM
Sample Received Date	17/12/2019 10:46:06AM
Sample Analysis Completed	31/12/2019 10:02:25AM
Sample ID	2019-008-6521
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	23.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	30.8 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		221 mg/L	
Bicarbonate		270 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	111000 µS/cm	
Total Dissolved Solids (by EC)	1	98200 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.1 pH units	
Temperature at which pH is measured		23.5 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	20 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	20 mg/L	



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	16/12/2019 1:15:00PM
Sample Received Date	17/12/2019 10:45:07AM
Sample Analysis Completed	31/12/2019 10:20:32AM
Sample ID	2019-008-6528
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	30.6 µg/L
Chlorophyll b	0.1	2.94 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	28.5 µg/L
Phaeophytin a	0.1	4.55 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 23/12/2019

Ammonia as N	0.005	0.028 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	44000 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 30/12/2019

Nitrate + Nitrite as N	0.003	0.425 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		5.11 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.157 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	4.07 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	4.68 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	16/12/2019 1:15:00PM
Sample Received Date	17/12/2019 10:45:07AM
Sample Analysis Completed	31/12/2019 10:20:32AM
Sample ID	2019-008-6528
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	23.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	31.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		191 mg/L	
Bicarbonate		233 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	105000 µS/cm	
Total Dissolved Solids (by EC)	1	91000 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.1 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	51 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	108 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	56 mg/L	
Volatile Suspended Solids	1	52 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	16/12/2019 2:20:00PM
Sample Received Date	17/12/2019 10:45:37AM
Sample Analysis Completed	7/01/2020 12:42:43PM
Sample ID	2019-008-6527
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	47.9 µg/L
Chlorophyll b	0.1	4.16 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	43.4 µg/L
Phaeophytin a	0.1	9.23 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	0.007 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	45700 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		4.80 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.005 mg/L
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Phosphorus - Total T0109-44(ADEL) 06/01/2020

Phosphorus - Total	0.005	0.156 mg/L
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Silica - Reactive T0111-01(ADEL) 19/12/2019

Silica - Reactive	0.05	0.25 mg/L
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TKN as N T0112-01(ADEL) 06/01/2020

TKN as Nitrogen	0.05	4.80 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	16/12/2019 2:20:00PM
Sample Received Date	17/12/2019 10:45:37AM
Sample Analysis Completed	7/01/2020 12:42:43PM
Sample ID	2019-008-6527
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	22.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	30.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		199 mg/L	
Bicarbonate		243 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	107000 µS/cm	
Total Dissolved Solids (by EC)	1	93400 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.1 pH units	
Temperature at which pH is measured		23.4 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	22 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	22 mg/L	



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	16/12/2019 2:30:00PM
Sample Received Date	17/12/2019 10:44:52AM
Sample Analysis Completed	7/01/2020 12:42:40PM
Sample ID	2019-008-6520
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	3.24 µg/L
Chlorophyll b	0.1	0.14 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	2.79 µg/L
Phaeophytin a	0.1	0.82 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	0.024 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	14900 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	0.016 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		1.63 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 06/01/2020

Phosphorus - Total	0.005	0.045 mg/L
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Silica - Reactive T0111-01(ADEL) 17/12/2019

Silica - Reactive	0.05	0.26 mg/L
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TKN as N T0112-01(ADEL) 06/01/2020

TKN as Nitrogen	0.05	1.61 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	16/12/2019 2:30:00PM
Sample Received Date	17/12/2019 10:44:52AM
Sample Analysis Completed	7/01/2020 12:42:40PM
Sample ID	2019-008-6520
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL) 24/12/2019

Dissolved Organic Carbon	1	10.6 mg/L
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Total Organic Carbon T0158-07(ADEL) 24/12/2019

Total Organic Carbon	1	10.9 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 19/12/2019

Alkalinity as Calcium Carbonate	158 mg/L
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Bicarbonate	163 mg/L
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Carbonate	14 mg/L
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Hydroxide	0 mg/L
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Conductivity & Total Dissolved Solids T0016-01(ADEL) 19/12/2019

Conductivity	2	39100 µS/cm
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Total Dissolved Solids (by EC)	1	26200 mg/L
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pH T0010-01(ADEL) 19/12/2019

pH	8.5 pH units
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Temperature at which pH is measured	23.6 °C
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Turbidity T0018-01(ADEL) 19/12/2019

Turbidity	0.1	7.2 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Suspended Solids T0160-01(ADEL) 30/12/2019

Suspended Solids	1.0	14 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 30/12/2019

Fixed Solids	1	12 mg/L
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Volatile Suspended Solids	1	2 mg/L
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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	16/12/2019 2:40:00PM
Sample Received Date	17/12/2019 10:45:44AM
Sample Analysis Completed	31/12/2019 9:57:58AM
Sample ID	2019-008-6518
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	32.7 µg/L
Chlorophyll b	0.1	3.66 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	30.3 µg/L
Phaeophytin a	0.1	5.50 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	46100 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		4.24 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.162 mg/L
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Silica - Reactive T0111-01(ADEL) 19/12/2019

Silica - Reactive	0.05	0.19 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	4.24 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	16/12/2019 2:40:00PM
Sample Received Date	17/12/2019 10:45:44AM
Sample Analysis Completed	31/12/2019 9:57:58AM
Sample ID	2019-008-6518
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	22.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	29.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 9.5°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		191 mg/L	
Bicarbonate		233 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	105000 µS/cm	
Total Dissolved Solids (by EC)	1	91000 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.1 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<hr/>			
<i>Sample temperature at time of receipt 9.5°C</i>			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	16 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	16 mg/L	



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	16/12/2019 3:40:00PM
Sample Received Date	17/12/2019 10:44:59AM
Sample Analysis Completed	31/12/2019 9:59:25AM
Sample ID	2019-008-6519
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL)			17/12/2019
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Chlorophyll a	0.1	14.4 µg/L	
Chlorophyll b	0.1	1.40 µg/L	
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)	

Chlorophyll a & Phaeophytin a T0380-02(ADEL)			17/12/2019
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Chlorophyll a	0.1	13.1 µg/L	
Phaeophytin a	0.1	2.71 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL)			23/12/2019
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Ammonia as N	0.005	0.050 mg/L	
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Chloride T0104-02(ADEL)			17/12/2019
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Chloride	4.0	8960 mg/L	
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Nitrate + Nitrite as N T0161-01(ADEL)			27/12/2019
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Nitrate + Nitrite as N	0.003	0.014 mg/L	
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Nitrogen - Total TMZ-M06(ADEL)			17/12/2019
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Nitrogen - Total		1.60 mg/L	
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Phosphorus - Filterable Reactive as P T0108-01(ADEL)			27/12/2019
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Phosphorus - Filterable Reactive as P	0.003	0.004 mg/L	
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Phosphorus - Total T0109-44(ADEL)			23/12/2019
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Phosphorus - Total	0.005	0.142 mg/L	
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Silica - Reactive T0111-01(ADEL)			17/12/2019
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Silica - Reactive	0.05	0.49 mg/L	
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TKN as N T0112-01(ADEL)			23/12/2019
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TKN as Nitrogen	0.05	1.59 mg/L	
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	16/12/2019 3:40:00PM
Sample Received Date	17/12/2019 10:44:59AM
Sample Analysis Completed	31/12/2019 9:59:25AM
Sample ID	2019-008-6519
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL)			24/12/2019
Dissolved Organic Carbon	1	6.7 mg/L	
Total Organic Carbon T0158-07(ADEL)			24/12/2019
Total Organic Carbon	1	13.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.5°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			19/12/2019
Alkalinity as Calcium Carbonate		125 mg/L	
Bicarbonate		145 mg/L	
Carbonate		4 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			19/12/2019
Conductivity	2	24200 µS/cm	
Total Dissolved Solids (by EC)	1	15100 mg/L	
pH T0010-01(ADEL)			19/12/2019
pH		8.4 pH units	
Temperature at which pH is measured		23.0 °C	
Turbidity T0018-01(ADEL)			19/12/2019
Turbidity	0.1	22 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.5°C			
Suspended Solids T0160-01(ADEL)			30/12/2019
Suspended Solids	1.0	24 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			30/12/2019
Fixed Solids	1	6 mg/L	
Volatile Suspended Solids	1	18 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	16/12/2019 4:10:00PM
Sample Received Date	17/12/2019 10:45:51AM
Sample Analysis Completed	31/12/2019 10:21:45AM
Sample ID	2019-008-6529
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Chlorophyll a & b T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	29.4 µg/L
Chlorophyll b	0.1	3.68 µg/L
Chlorophyll comment		Chlorophyll a & b results are the sum of chlorophyll & their degradation by products (Phaeophytins)

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 17/12/2019

Chlorophyll a	0.1	27.2 µg/L
Phaeophytin a	0.1	5.13 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Ammonia as N T0100-01(ADEL) 30/12/2019

Ammonia as N	0.005	<0.005 mg/L
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Chloride T0104-02(ADEL) 17/12/2019

Chloride	4.0	47900 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 27/12/2019

Nitrate + Nitrite as N	0.003	<0.003 mg/L
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Nitrogen - Total TMZ-M06(ADEL) 17/12/2019

Nitrogen - Total		4.89 mg/L
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Phosphorus - Filterable Reactive as P T0108-01(ADEL) 27/12/2019

Phosphorus - Filterable Reactive as P	0.003	<0.003 mg/L
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Phosphorus - Total T0109-44(ADEL) 23/12/2019

Phosphorus - Total	0.005	0.201 mg/L
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Silica - Reactive T0111-01(ADEL) 19/12/2019

Silica - Reactive	0.05	0.52 mg/L
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TKN as N T0112-01(ADEL) 23/12/2019

TKN as Nitrogen	0.05	4.89 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	16/12/2019 4:10:00PM
Sample Received Date	17/12/2019 10:45:51AM
Sample Analysis Completed	31/12/2019 10:21:45AM
Sample ID	2019-008-6529
Status	Endorsed
Collection Type	Customer Collected

Sample temperature at time of receipt 9.5°C

Dissolved Organic Carbon T0158-07(ADEL) 24/12/2019

Dissolved Organic Carbon	1	23.3 mg/L
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Total Organic Carbon T0158-07(ADEL) 24/12/2019

Total Organic Carbon	1	30.2 mg/L
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Inorganic Chemistry - Physical	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL) 19/12/2019

Alkalinity as Calcium Carbonate	189 mg/L
Bicarbonate	231 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

pH T0010-01(ADEL) 19/12/2019

pH	8.1 pH units
Temperature at which pH is measured	23.5 °C

Turbidity T0018-01(ADEL) 19/12/2019

Turbidity	0.1	21 NTU
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Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.5°C

Suspended Solids T0160-01(ADEL) 30/12/2019

Suspended Solids	1.0	28 mg/L
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Total Dissolved Solids by Evaporation T015-05(ADEL) 27/12/2019

Total Dissolved Solids (by evaporation)	1	93200 mg/L
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Volatile Suspended Solids T0160-01(ADEL) 30/12/2019

Fixed Solids	1	4 mg/L
Volatile Suspended Solids	1	24 mg/L



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Thuy Diep - Technical Officer Chemistry

David Evans - Technical Officer Chemistry

Andrew Ford - Technical Officer Chemistry

Kerrie Jooste - Supervisor Nutrients and Waste

Aji John - Technical Officer Chemistry

Dean Newman - Algal Specialist

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer

Kamilla Springer - Senior Technical Officer



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2019-008-6532	300713	Tilley Swamp Drain D/S Northern Outlet	16/12/2019	Phosphorus - Filterable Reactive as P	Dependent results are within acceptable analytical uncertainty

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
T015-05	Total Dissolved Solids by Evaporation	AP2540C
T0158-07	Total and Dissolved Organic Carbon (OI Analytical)	SM5310C
T0160-01	Suspended Solids 103C to 105C	AP2540DE
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
T0380-02	Chlorophyll a & b and phaeophytin	Wintermans
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



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Notes

- The last figure of the result value is a significant figure.
- # determination of the component is not covered by NATA Accreditation.
- ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
- * indicates an incident has been recorded against the sample. Refer to report footer.
- & Indicates the results have changed since the last issued report.
- 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.
- 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.
- Where applicable the [Measurement of Uncertainty](https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty) is available at <https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty>.
- If pH has been tested then the pH will be outside of its holding time unless measured in the field.
- (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.