



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

24/02/2020

Dear Patrick

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2020-CSR-2
Account: 143419
Project: AWQC-144662 DEW - Healthy Coorong Healthy Basin Phase 0 - Adhoc
AWQC Morella sampling - 19/20

This report has also been sent to: Frank Mangeruca Peter Metten

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
+61 8 7424 2150



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Report Information

Project Name	AWQC-144662
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2020-CSR-2

Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	21/01/2020 8:50:00AM
Sample Received Date	22/01/2020 12:37:25PM
Sample Analysis Completed	11/02/2020 10:38:45AM
Sample ID	2020-000-6805
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			22/01/2020
Chlorophyll a	0.1	83.4 µg/L	
Phaeophytin a	0.1	13.4 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Ammonia as N TMZ-M45(ADEL)			05/02/2020
# Ammonia as N	1	47 µg/L	
Chloride T0104-02(ADEL)			23/01/2020
Chloride	4.0	59100 mg/L	
Nitrate + Nitrite as N TMZ-M44(ADEL)			07/02/2020
# Nitrate + Nitrite as N	0.5	7.0 µg/L	
# Nitrate + Nitrite as NO3	2.3	31.0 µg/L	
# Nitrate as Nitrogen		4.18 µg/L	
Nitrite as N TMZ-M43(ADEL)			05/02/2020
# Nitrite as N	0.5	2.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			11/02/2020
Nitrogen - Total		6.42 mg/L	
Phosphorus - Filterable Reactive as P TMZ-M42(ADEL)			05/02/2020
# 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)			05/02/2020
Phosphorus - Total	0.005	0.256 mg/L	
Silica - Reactive T0111-01(ADEL)			28/01/2020
Silica - Reactive	0.05	4.91 mg/L	
TKN as N T0112-01(ADEL)			05/02/2020
TKN as Nitrogen	0.05	6.41 mg/L	



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	21/01/2020 8:50:00AM
Sample Received Date	22/01/2020 12:37:25PM
Sample Analysis Completed	11/02/2020 10:38:45AM
Sample ID	2020-000-6805
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	29.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	36.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		226 mg/L	
Bicarbonate		275 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	25 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	117000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			24/01/2020
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	21/01/2020 9:00:00AM
Sample Received Date	22/01/2020 12:36:13PM
Sample Analysis Completed	11/02/2020 10:38:46AM
Sample ID	2020-000-6806
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	47.2 µg/L
Phaeophytin a	0.1	14.2 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	149 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	64700 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	6.9 µg/L
# Nitrate + Nitrite as NO ₃	2.3	30.6 µg/L
# Nitrate as Nitrogen		3.36 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	3.5 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		7.85 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	8.97 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.0 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.312 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	5.63 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	7.84 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	21/01/2020 9:00:00AM
Sample Received Date	22/01/2020 12:36:13PM
Sample Analysis Completed	11/02/2020 10:38:46AM
Sample ID	2020-000-6806
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	29.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	39.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		211 mg/L	
Bicarbonate		258 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		7.6 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	37 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	45 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	134000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			03/02/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	45 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	21/01/2020 9:00:00AM
Sample Received Date	22/01/2020 12:37:33PM
Sample Analysis Completed	11/02/2020 10:52:41AM
Sample ID	2020-000-6808
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	79.7 µg/L
Phaeophytin a	0.1	13.9 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	26 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	53400 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	3.7 µg/L
# Nitrate + Nitrite as NO ₃	2.3	16.4 µg/L
# Nitrate as Nitrogen		1.92 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	1.8 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.00 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	3.289 µg/L
Phosphorus-Filterable Reactive as P	0.5	1.1 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.240 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	5.00 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.00 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	21/01/2020 9:00:00AM
Sample Received Date	22/01/2020 12:37:33PM
Sample Analysis Completed	11/02/2020 10:52:41AM
Sample ID	2020-000-6808
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	28.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	37.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		226 mg/L	
Bicarbonate		275 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	17 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	55 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	116000 mg/L	



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	21/01/2020 9:20:00AM
Sample Received Date	22/01/2020 12:37:41PM
Sample Analysis Completed	20/02/2020 1:36:18PM
Sample ID	2020-000-6807
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	75.1 µg/L
Phaeophytin a	0.1	12.6 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	28 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	58300 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	3.5 µg/L
# Nitrate + Nitrite as NO ₃	2.3	15.5 µg/L
# Nitrate as Nitrogen		2.36 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	1.1 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 20/02/2020

Nitrogen - Total		6.01 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus - Filterable Reactive as PO ₄	1.5	10.764 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.6 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.231 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	4.95 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.01 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	21/01/2020 9:20:00AM
Sample Received Date	22/01/2020 12:37:41PM
Sample Analysis Completed	20/02/2020 1:36:18PM
Sample ID	2020-000-6807
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	27.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	35.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		226 mg/L	
Bicarbonate		275 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	14 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	50 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	117000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			24/01/2020
Fixed Solids	1	15 mg/L	
Volatile Suspended Solids	1	35 mg/L	



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	21/01/2020 9:30:00AM
Sample Received Date	22/01/2020 12:37:57PM
Sample Analysis Completed	12/02/2020 4:03:08PM
Sample ID	2020-000-6809
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	75.3 µg/L
Phaeophytin a	0.1	13.5 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	38 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	59000 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	3.9 µg/L
# Nitrate + Nitrite as NO ₃	2.3	17.3 µg/L
# Nitrate as Nitrogen		2.65 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	1.2 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.16 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	9.867 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.3 µg/L

Phosphorus - Total T0109-44(ADEL) 11/02/2020

Phosphorus - Total	0.005	0.180 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	4.14 mg/L
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TKN as N T0112-01(ADEL) 11/02/2020

TKN as Nitrogen	0.05	6.16 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	21/01/2020 9:30:00AM
Sample Received Date	22/01/2020 12:37:57PM
Sample Analysis Completed	12/02/2020 4:03:08PM
Sample ID	2020-000-6809
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	26.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	36.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		216 mg/L	
Bicarbonate		264 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	30 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	115000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			24/01/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	30 mg/L	



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	21/01/2020 9:30:00AM
Sample Received Date	22/01/2020 12:36:25PM
Sample Analysis Completed	11/02/2020 11:36:58AM
Sample ID	2020-000-6814
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	13.6 µg/L
Phaeophytin a	0.1	6.80 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	92 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	8220 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 11/02/2020

# Nitrate + Nitrite as N	0.5	4.5 µg/L
# Nitrate + Nitrite as NO3	2.3	19.9 µg/L
# Nitrate as Nitrogen		1.87 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	2.6 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		2.78 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO4	1.5	14.053 µg/L
Phosphorus-Filterable Reactive as P	0.5	4.7 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.049 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	2.56 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	2.78 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	21/01/2020 9:30:00AM
Sample Received Date	22/01/2020 12:36:25PM
Sample Analysis Completed	11/02/2020 11:36:58AM
Sample ID	2020-000-6814
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	24.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	27.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		295 mg/L	
Bicarbonate		229 mg/L	
Carbonate		65 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2020
Conductivity	2	22500 µS/cm	
Total Dissolved Solids (by EC)	1	13900 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		9.1 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	5.2 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	2 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	21/01/2020 10:15:00AM
Sample Received Date	22/01/2020 12:37:49PM
Sample Analysis Completed	11/02/2020 10:52:42AM
Sample ID	2020-000-6804
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	65.3 µg/L
Phaeophytin a	0.1	13.2 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	29 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	52400 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	3.9 µg/L
# Nitrate + Nitrite as NO ₃	2.3	17.3 µg/L
# Nitrate as Nitrogen		1.96 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	1.9 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.16 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	9.867 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.3 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.189 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	1.34 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.16 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	21/01/2020 10:15:00AM
Sample Received Date	22/01/2020 12:37:49PM
Sample Analysis Completed	11/02/2020 10:52:42AM
Sample ID	2020-000-6804
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	28.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	37.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		207 mg/L	
Bicarbonate		253 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.8 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	27 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	45 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	114000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			24/01/2020
Fixed Solids	1	10 mg/L	
Volatile Suspended Solids	1	35 mg/L	



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	21/01/2020 10:15:00AM
Sample Received Date	22/01/2020 12:36:34PM
Sample Analysis Completed	11/02/2020 1:55:44PM
Sample ID	2020-000-6815
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	2.68 µg/L
Phaeophytin a	0.1	1.40 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	124 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	3310 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	9.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	42.5 µg/L
# Nitrate as Nitrogen		6.86 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	2.7 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		1.03 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	18.837 µg/L
Phosphorus-Filterable Reactive as P	0.5	6.3 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.018 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	13.8 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	1.02 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	21/01/2020 10:15:00AM
Sample Received Date	22/01/2020 12:36:34PM
Sample Analysis Completed	11/02/2020 1:55:44PM
Sample ID	2020-000-6815
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	7.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	7.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		346 mg/L	
Bicarbonate		383 mg/L	
Carbonate		19 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			24/01/2020
Conductivity	2	10200 µS/cm	
Total Dissolved Solids (by EC)	1	5940 mg/L	
pH T0010-01(ADEL)			24/01/2020
pH		8.6 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	2.5 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	8 mg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	21/01/2020 10:30:00AM
Sample Received Date	22/01/2020 12:36:42PM
Sample Analysis Completed	11/02/2020 1:55:52PM
Sample ID	*2020-000-6816
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	3.10 µg/L
Phaeophytin a	0.1	0.79 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	30 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	2830 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	8.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	38.1 µg/L
# Nitrate as Nitrogen		7.78 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	0.8 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		1.00 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	16.146 µg/L
Phosphorus-Filterable Reactive as P	0.5	5.4 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.020 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	13.8 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	0.99 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	21/01/2020 10:30:00AM
Sample Received Date	22/01/2020 12:36:42PM
Sample Analysis Completed	11/02/2020 1:55:52PM
Sample ID	*2020-000-6816
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	6.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	7.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		351 mg/L	
Bicarbonate		372 mg/L	
Carbonate		28 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			24/01/2020
Conductivity	2	9670 µS/cm	
Total Dissolved Solids (by EC)	1	5620 mg/L	
pH T0010-01(ADEL)			24/01/2020
pH		8.7 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	29 NTU	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	25 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	21/01/2020 10:45:00AM
Sample Received Date	22/01/2020 12:38:06PM
Sample Analysis Completed	11/02/2020 10:38:43AM
Sample ID	2020-000-6811
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	58.6 µg/L
Phaeophytin a	0.1	17.9 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	36 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	61800 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	4.3 µg/L
# Nitrate + Nitrite as NO ₃	2.3	19.0 µg/L
# Nitrate as Nitrogen		1.89 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	2.4 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.15 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	18.239 µg/L
Phosphorus-Filterable Reactive as P	0.5	6.1 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.248 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	0.95 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.15 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	21/01/2020 10:45:00AM
Sample Received Date	22/01/2020 12:38:06PM
Sample Analysis Completed	11/02/2020 10:38:43AM
Sample ID	2020-000-6811
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	27.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	35.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		211 mg/L	
Bicarbonate		257 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	30 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	46 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	114000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			24/01/2020
Fixed Solids	1	39 mg/L	
Volatile Suspended Solids	1	7 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	21/01/2020 11:15:00AM
Sample Received Date	22/01/2020 12:38:14PM
Sample Analysis Completed	11/02/2020 11:04:06AM
Sample ID	2020-000-6801
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	65.8 µg/L
Phaeophytin a	0.1	15.6 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	60 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	55100 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 11/02/2020

# Nitrate + Nitrite as N	0.5	15.5 µg/L
# Nitrate + Nitrite as NO ₃	2.3	68.7 µg/L
# Nitrate as Nitrogen		5.36 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	10.1 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.38 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus - Filterable Reactive as PO ₄	1.5	60.996 µg/L
Phosphorus-Filterable Reactive as P	0.5	20.4 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.233 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	1.27 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.36 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	21/01/2020 11:15:00AM
Sample Received Date	22/01/2020 12:38:14PM
Sample Analysis Completed	11/02/2020 11:04:06AM
Sample ID	2020-000-6801
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	27.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	36.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		214 mg/L	
Bicarbonate		261 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	30 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	95 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	115000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			03/02/2020
Fixed Solids	1	30 mg/L	
Volatile Suspended Solids	1	65 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	21/01/2020 12:30:00PM
Sample Received Date	22/01/2020 12:37:00PM
Sample Analysis Completed	11/02/2020 10:38:44AM
Sample ID	2020-000-6810
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	45.4 µg/L
Phaeophytin a	0.1	8.05 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	44 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	58700 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	30.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	136 µg/L
# Nitrate as Nitrogen		27.7 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	2.9 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.47 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus - Filterable Reactive as PO ₄	1.5	12.259 µg/L
Phosphorus-Filterable Reactive as P	0.5	4.1 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.250 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	1.30 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.44 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	21/01/2020 12:30:00PM
Sample Received Date	22/01/2020 12:37:00PM
Sample Analysis Completed	11/02/2020 10:38:44AM
Sample ID	2020-000-6810
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	28.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	37.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		201 mg/L	
Bicarbonate		245 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	27 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	50 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	119000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			03/02/2020
Fixed Solids	1	5 mg/L	
Volatile Suspended Solids	1	45 mg/L	



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	21/01/2020 1:00:00PM
Sample Received Date	22/01/2020 12:36:51PM
Sample Analysis Completed	11/02/2020 11:18:42AM
Sample ID	2020-000-6812
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	41.9 µg/L
Phaeophytin a	0.1	7.47 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	56 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	62500 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 11/02/2020

# Nitrate + Nitrite as N	0.5	8.9 µg/L
# Nitrate + Nitrite as NO ₃	2.3	39.4 µg/L
# Nitrate as Nitrogen		5.18 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	3.7 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		6.52 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus - Filterable Reactive as PO ₄	1.5	27.209 µg/L
Phosphorus-Filterable Reactive as P	0.5	9.1 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.258 mg/L
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Silica - Reactive T0111-01(ADEL) 28/01/2020

Silica - Reactive	0.05	1.46 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	6.51 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	21/01/2020 1:00:00PM
Sample Received Date	22/01/2020 12:36:51PM
Sample Analysis Completed	11/02/2020 11:18:42AM
Sample ID	2020-000-6812
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	28.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	38.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		211 mg/L	
Bicarbonate		257 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	29 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			24/01/2020
Suspended Solids	1.0	75 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			05/02/2020
Total Dissolved Solids (by evaporation)	1	125000 mg/L	



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	21/01/2020 2:35:00PM
Sample Received Date	22/01/2020 12:37:09PM
Sample Analysis Completed	11/02/2020 10:38:47AM
Sample ID	2020-000-6803
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	6.46 µg/L
Phaeophytin a	0.1	1.50 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	16 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	18200 mg/L
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Nitrate + Nitrite as N TMZ-M44(ADEL) 07/02/2020

# Nitrate + Nitrite as N	0.5	35.0 µg/L
# Nitrate + Nitrite as NO ₃	2.3	155 µg/L
# Nitrate as Nitrogen		22.1 µg/L

Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	12.9 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 11/02/2020

Nitrogen - Total		1.91 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus - Filterable Reactive as PO ₄	1.5	7.475 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.5 µg/L

Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.071 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	1.90 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	1.87 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	21/01/2020 2:35:00PM
Sample Received Date	22/01/2020 12:37:09PM
Sample Analysis Completed	11/02/2020 10:38:47AM
Sample ID	2020-000-6803
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			31/01/2020
Dissolved Organic Carbon	1	12.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	13.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		172 mg/L	
Bicarbonate		210 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2020
Conductivity	2	51800 µS/cm	
Total Dissolved Solids (by EC)	1	36600 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	4.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	<1 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			03/02/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	<1 mg/L	



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	21/01/2020 3:30:00PM
Sample Received Date	22/01/2020 12:37:17PM
Sample Analysis Completed	6/02/2020 4:44:16PM
Sample ID	2020-000-6802
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 22/01/2020

Chlorophyll a	0.1	6.98 µg/L
Phaeophytin a	0.1	2.17 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Ammonia as N TMZ-M45(ADEL) 05/02/2020

# Ammonia as N	1	6 µg/L
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Chloride T0104-02(ADEL) 23/01/2020

Chloride	4.0	13800 mg/L
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Nitrate + Nitrite as N T0161-01(ADEL) 03/02/2020

Nitrate + Nitrite as N	0.003	0.462 mg/L
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Nitrite as N TMZ-M43(ADEL) 05/02/2020

# Nitrite as N	0.5	3.9 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 22/01/2020

Nitrogen - Total		1.67 mg/L
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Phosphorus - Filterable Reactive as P TMZ-M42(ADEL) 05/02/2020

# Phosphorus -Filterable Reactive as PO4	1.5	21.528 µg/L
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Phosphorus-Filterable Reactive as P	0.5	7.2 µg/L
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Phosphorus - Total T0109-44(ADEL) 05/02/2020

Phosphorus - Total	0.005	0.122 mg/L
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Silica - Reactive T0111-01(ADEL) 23/01/2020

Silica - Reactive	0.05	0.64 mg/L
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TKN as N T0112-01(ADEL) 05/02/2020

TKN as Nitrogen	0.05	1.21 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 8.7°C

Dissolved Organic Carbon T0158-07(ADEL) 31/01/2020

Dissolved Organic Carbon	1	6.3 mg/L
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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	21/01/2020 3:30:00PM
Sample Received Date	22/01/2020 12:37:17PM
Sample Analysis Completed	6/02/2020 4:44:16PM
Sample ID	2020-000-6802
Status	Endorsed
Collection Type	Customer Collected

Total Organic Carbon T0158-07(ADEL)			31/01/2020
Total Organic Carbon	1	8.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			23/01/2020
Alkalinity as Calcium Carbonate		139 mg/L	
Bicarbonate		157 mg/L	
Carbonate		6 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids T0016-01(ADEL)			23/01/2020
Conductivity	2	39100 µS/cm	
Total Dissolved Solids (by EC)	1	26200 mg/L	
pH T0010-01(ADEL)			23/01/2020
pH		8.4 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			24/01/2020
Turbidity	0.1	8.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 8.7°C			
Suspended Solids T0160-01(ADEL)			03/02/2020
Suspended Solids	1.0	6 mg/L	



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

David Evans - Technical Officer Chemistry

Kerrie Jooste - Supervisor Nutrients and Waste

Aji John - Technical Officer Chemistry

Dean Newman - Algal Specialist

Gayle Polley - Snr Technical Officer

Kamilla Springer - Senior Technical Officer

Lyudmila Tsybal - Technical Officer Life Science



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-000-6816	300713	Tilley Swamp Drain D/S Northern Outlet	21/01/2020	Turbidity	Test result has been checked and the result verified

Samples Not Collected

Sample ID	S.Point	Description	Sampled Date	Non Collect Reason
2020-000-6813	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Water level too low to take sample
2020-000-6817	300712	Tilley Swamp Watercourse Outlet Channel	21/01/2020	Customer chose not to collect sample

Bottles Not Collected

Sample ID	S.Point	Description	Sampled Date	Laboratory	Non Collect Reason
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Inorganic Chemistry - Nutrients	Customer chose not to collect bottle
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Biology Operations	Customer chose not to collect bottle
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Inorganic Chemistry - Physical	Customer chose not to collect bottle
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Inorganic Chemistry - Nutrients	Customer chose not to collect bottle
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Organic Chemistry	Customer chose not to collect bottle
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Inorganic Chemistry - Waste Water	Customer chose not to collect bottle
2020-000-6813-0	31519	EPA - Morella Basin at Outlet Regulator	21/01/2020	Inorganic Chemistry - Nutrients	Customer chose not to collect bottle



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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
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0111-01	Silica by automated flow 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 + Nitrite (NOx) - Automated Flow Colorimetry	AP4500NO3I
T0380-02	Chlorophyll a & b and phaeophytin	ISO10260
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
TMZ-M42	Filterable Reactive Phosphorus - Trace Seawater	
TMZ-M43	Nitrite - Trace Seawater	
TMZ-M44	Nitrate + Nitrite (NOx) - Trace Seawater	
TMZ-M45	Ammonia - Trace Seawater	

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

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. 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.
7. 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.
8. 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>.
9. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
10. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.