



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

30/06/2020

Dear Patrick

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2020-CSR-2
Account: 143419
Project: AWQC-148078 DEW - Healthy Coorong Healthy Basin Phase 1 - 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



FINAL REPORT: 286067

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Report Information

Project Name	AWQC-148078
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2020-CSR-2

Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	10/06/2020 12:20:00AM
Sample Received Date	11/06/2020 11:01:08AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0970
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.7°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	13.7 µg/L	
Phaeophytin a	0.1	2.21 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.7°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	22 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	41000 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	6.8 µg/L	
# Nitrate + Nitrite as NO3	2.3	30.1 µg/L	
# Nitrate as Nitrogen		4.12 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	2.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		4.12 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO4	1.5	10.166 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.4 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.187 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	0.40 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	4.11 mg/L	



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	10/06/2020 12:20:00AM
Sample Received Date	11/06/2020 11:01:08AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0970
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	17.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	20.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		194 mg/L	
Bicarbonate		236 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.5 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Suspended Solids T0160-01(ADEL)			17/06/2020
Suspended Solids	1.0	11 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	77800 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/06/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	10 mg/L	



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	10/06/2020 8:15:00AM
Sample Received Date	11/06/2020 10:49:11AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0963
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	34.9 µg/L	
Phaeophytin a	0.1	6.63 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	29 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	48700 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	9.0 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	39.9 µg/L	
# Nitrate as Nitrogen		6.64 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	2.4 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		4.61 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	14.352 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.250 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	2.33 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	4.60 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	10/06/2020 8:15:00AM
Sample Received Date	11/06/2020 10:49:11AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0963
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	22.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	25.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		215 mg/L	
Bicarbonate		262 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	6.9 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			18/06/2020
Suspended Solids	1.0	18 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	91700 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			18/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	18 mg/L	



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	10/06/2020 8:20:00AM
Sample Received Date	11/06/2020 10:56:53AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0964
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 11/06/2020

Chlorophyll a	0.1	25.0 µg/L
Phaeophytin a	0.1	4.46 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL) 17/06/2020

# Ammonia as N	1	50 µg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	52600 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	8.5 µg/L
# Nitrate + Nitrite as NO ₃	2.3	37.7 µg/L
# Nitrate as Nitrogen		6.67 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	1.8 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		4.56 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# 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) 15/06/2020

Phosphorus - Total	0.005	0.225 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	1.45 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	4.55 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	10/06/2020 8:20:00AM
Sample Received Date	11/06/2020 10:56:53AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0964
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	23.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	26.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		205 mg/L	
Bicarbonate		250 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			18/06/2020
Suspended Solids	1.0	25 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	101000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			18/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	25 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	10/06/2020 8:30:00AM
Sample Received Date	11/06/2020 10:57:09AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0967
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	38.5 µg/L	
Phaeophytin a	0.1	11.5 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	17 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	49700 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	4.2 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	18.6 µg/L	
# Nitrate as Nitrogen		2.14 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	2.1 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		4.46 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	13.156 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.4 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.201 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	1.91 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	4.46 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	10/06/2020 8:30:00AM
Sample Received Date	11/06/2020 10:57:09AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0967
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	23.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	27.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		206 mg/L	
Bicarbonate		251 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			18/06/2020
Suspended Solids	1.0	22 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	97400 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			18/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	22 mg/L	



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	10/06/2020 8:45:00AM
Sample Received Date	11/06/2020 10:49:22AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0965
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	43.5 µg/L	
Phaeophytin a	0.1	6.53 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	12 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	49100 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	1.8 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	7.97 µg/L	
# Nitrate as Nitrogen		0.544 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	1.3 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		5.13 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	14.352 µg/L	
Phosphorus-Filterable Reactive as P	0.5	4.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.227 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	1.93 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	5.13 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	10/06/2020 8:45:00AM
Sample Received Date	11/06/2020 10:49:22AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0965
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	22.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	27.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		206 mg/L	
Bicarbonate		251 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.5 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			18/06/2020
Suspended Solids	1.0	12 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	99900 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			18/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	12 mg/L	



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	10/06/2020 9:00:00AM
Sample Received Date	11/06/2020 10:49:36AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0966
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	30.0 µg/L	
Phaeophytin a	0.1	5.54 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.2°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	14 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	47600 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	0.8 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	3.54 µg/L	
# Nitrate as Nitrogen		0.047 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	0.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		4.94 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	10.166 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.4 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.234 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	1.56 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	4.94 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	10/06/2020 9:00:00AM
Sample Received Date	11/06/2020 10:49:36AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0966
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	22.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	26.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		207 mg/L	
Bicarbonate		252 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.6 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			18/06/2020
Suspended Solids	1.0	25 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	95700 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			18/06/2020
Fixed Solids	1	3 mg/L	
Volatile Suspended Solids	1	22 mg/L	



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	10/06/2020 9:00:00AM
Sample Received Date	11/06/2020 11:01:24AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0972
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.7°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 11/06/2020

Chlorophyll a	0.1	4.77 µg/L
Phaeophytin a	0.1	2.98 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.7°C

Ammonia as N (ADEL) 17/06/2020

# Ammonia as N	1	71 µg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	6310 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	5.7 µg/L
# Nitrate + Nitrite as NO ₃	2.3	25.3 µg/L
# Nitrate as Nitrogen		3.62 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	2.1 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		1.61 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	23.023 µg/L
Phosphorus-Filterable Reactive as P	0.5	7.7 µg/L

Phosphorus - Total T0109-44(ADEL) 15/06/2020

Phosphorus - Total	0.005	0.053 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	10.8 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	1.60 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.7°C



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	10/06/2020 9:00:00AM
Sample Received Date	11/06/2020 11:01:24AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0972
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	14.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	15.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		349 mg/L	
Bicarbonate		373 mg/L	
Carbonate		26 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		8.7 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	2.3 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Suspended Solids T0160-01(ADEL)			18/06/2020
Suspended Solids	1.0	17 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	11400 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			18/06/2020
Fixed Solids	1	12 mg/L	
Volatile Suspended Solids	1	5 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	10/06/2020 9:20:00AM
Sample Received Date	11/06/2020 10:48:56AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0962
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 11/06/2020

Chlorophyll a	0.1	25.1 µg/L
Phaeophytin a	0.1	4.09 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL) 17/06/2020

# Ammonia as N	1	22 µg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	48000 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	1.9 µg/L
# Nitrate + Nitrite as NO ₃	2.3	8.42 µg/L
# Nitrate as Nitrogen		0.297 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	1.6 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		3.46 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	14.651 µg/L
Phosphorus-Filterable Reactive as P	0.5	4.9 µg/L

Phosphorus - Total T0109-44(ADEL) 15/06/2020

Phosphorus - Total	0.005	0.257 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	1.17 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	3.46 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	10/06/2020 9:20:00AM
Sample Received Date	11/06/2020 10:48:56AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0962
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	20.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	25.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		207 mg/L	
Bicarbonate		252 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.6 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.9 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 9.2°C</i>			
Suspended Solids T0160-01(ADEL)			22/06/2020
Suspended Solids	1.0	12 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	94800 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	12 mg/L	



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	10/06/2020 9:50:00AM
Sample Received Date	11/06/2020 11:01:53AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0974
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.7°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	0.93 µg/L	
Phaeophytin a	0.1	0.13 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.7°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	95 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	3210 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	5.5 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	24.4 µg/L	
# Nitrate as Nitrogen		4.40 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	1.1 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		0.52 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	19.435 µg/L	
Phosphorus-Filterable Reactive as P	0.5	6.5 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.007 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	11.8 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	0.51 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.7°C



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	10/06/2020 9:50:00AM
Sample Received Date	11/06/2020 11:01:53AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0974
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	5.4 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	5.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		434 mg/L	
Bicarbonate		530 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		8.3 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	1.7 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Suspended Solids T0160-01(ADEL)			22/06/2020
Suspended Solids	1.0	1 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	6020 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	1 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	10/06/2020 10:00:00AM
Sample Received Date	11/06/2020 10:57:37AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0969
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 11/06/2020

Chlorophyll a	0.1	21.2 µg/L
Phaeophytin a	0.1	4.00 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL) 17/06/2020

# Ammonia as N	1	17 µg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	41500 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	2.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	11.5 µg/L
# Nitrate as Nitrogen		0.542 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	2.1 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		4.19 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	11.661 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.9 µg/L

Phosphorus - Total T0109-44(ADEL) 15/06/2020

Phosphorus - Total	0.005	0.167 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	0.50 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	4.19 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	10/06/2020 10:00:00AM
Sample Received Date	11/06/2020 10:57:37AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0969
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	20.1 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	23.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		205 mg/L	
Bicarbonate		251 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	7.7 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			22/06/2020
Suspended Solids	1.0	20 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	88100 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	8 mg/L	
Volatile Suspended Solids	1	12 mg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	10/06/2020 10:15:00AM
Sample Received Date	11/06/2020 11:01:38AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0973
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.7°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			11/06/2020
Chlorophyll a	0.1	1.40 µg/L	
Phaeophytin a	0.1	<0.1 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 9.7°C</i>			
Ammonia as N (ADEL)			17/06/2020
# Ammonia as N	1	50 µg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	2680 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	6.1 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	27.0 µg/L	
# Nitrate as Nitrogen		5.26 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	0.8 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		0.53 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# 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)			15/06/2020
Phosphorus - Total	0.005	0.011 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	13.5 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	0.52 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.7°C



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	10/06/2020 10:15:00AM
Sample Received Date	11/06/2020 11:01:38AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0973
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	4.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	4.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			12/06/2020
Alkalinity as Calcium Carbonate		451 mg/L	
Bicarbonate		550 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			12/06/2020
pH		8.3 pH units	
Temperature at which pH is measured		22.8 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	3.0 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.7°C			
Suspended Solids T0160-01(ADEL)			22/06/2020
Suspended Solids	1.0	1 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	5540 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	<1 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	10/06/2020 12:00:00PM
Sample Received Date	11/06/2020 10:57:24AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0968
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 11/06/2020

Chlorophyll a	0.1	18.3 µg/L
Phaeophytin a	0.1	3.49 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C

Ammonia as N (ADEL) 17/06/2020

# Ammonia as N	1	7 µg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	42600 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	2.5 µg/L
# Nitrate + Nitrite as NO ₃	2.3	11.1 µg/L
# Nitrate as Nitrogen		0.096 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	2.4 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		3.17 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	18.538 µg/L
Phosphorus-Filterable Reactive as P	0.5	6.2 µg/L

Phosphorus - Total T0109-44(ADEL) 15/06/2020

Phosphorus - Total	0.005	0.230 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	0.44 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	3.17 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 9.2°C



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	10/06/2020 12:00:00PM
Sample Received Date	11/06/2020 10:57:24AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0968
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	17.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	21.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			15/06/2020
Alkalinity as Calcium Carbonate		196 mg/L	
Bicarbonate		240 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			15/06/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.8 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	16 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 9.2°C			
Suspended Solids T0160-01(ADEL)			22/06/2020
Suspended Solids	1.0	14 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	78300 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	4 mg/L	
Volatile Suspended Solids	1	10 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	10/06/2020 12:20:00PM
Sample Received Date	11/06/2020 10:44:03AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0959
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) 11/06/2020

Chlorophyll a	0.1	15.5 µg/L
Phaeophytin a	0.1	2.86 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 (ADEL) 17/06/2020

# Ammonia as N	1	32 µg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	49200 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	5.8 µg/L
# Nitrate + Nitrite as NO ₃	2.3	25.7 µg/L
# Nitrate as Nitrogen		2.19 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	3.6 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		3.47 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# 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) 15/06/2020

Phosphorus - Total	0.005	0.194 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	0.35 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	3.46 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	10/06/2020 12:20:00PM
Sample Received Date	11/06/2020 10:44:03AM
Sample Analysis Completed	23/06/2020 12:40:40PM
Sample ID	*2020-004-0959
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)		18/06/2020
Dissolved Organic Carbon	1	17.5 mg/L
Total Organic Carbon T0158-07(ADEL)		18/06/2020
Total Organic Carbon	1	21.0 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)			15/06/2020
Alkalinity as Calcium Carbonate		196 mg/L	
Bicarbonate		240 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			15/06/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	6.7 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)			22/06/2020
Suspended Solids	1.0	8 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	77900 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	8 mg/L	



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	10/06/2020 2:00:00PM
Sample Received Date	11/06/2020 10:44:32AM
Sample Analysis Completed	25/06/2020 8:02:15AM
Sample ID	*2020-004-0961
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)			11/06/2020
Chlorophyll a	0.1	3.84 µg/L	
Phaeophytin a	0.1	2.28 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			
Ammonia as N T0100-01(ADEL)			24/06/2020
Ammonia as N	0.005	0.377 mg/L	
Chloride T0104-02(ADEL)			15/06/2020
Chloride	4.0	18700 mg/L	
Nitrate + Nitrite as N (ADEL)			17/06/2020
# Nitrate + Nitrite as N	0.5	17.4 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	77.1 µg/L	
# Nitrate as Nitrogen		7.03 µg/L	
Nitrite as N (ADEL)			17/06/2020
# Nitrite as N	0.5	10.4 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			18/06/2020
Nitrogen - Total		1.22 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			17/06/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	125.58 µg/L	
Phosphorus-Filterable Reactive as P	0.5	42.0 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/06/2020
Phosphorus - Total	0.005	0.075 mg/L	
Silica - Reactive T0111-01(ADEL)			15/06/2020
Silica - Reactive	0.05	0.92 mg/L	
TKN as N T0112-01(ADEL)			15/06/2020
TKN as Nitrogen	0.05	1.20 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 8.7°C</i>			



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	10/06/2020 2:00:00PM
Sample Received Date	11/06/2020 10:44:32AM
Sample Analysis Completed	25/06/2020 8:02:15AM
Sample ID	*2020-004-0961
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	7.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	7.8 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)			15/06/2020
Alkalinity as Calcium Carbonate		148 mg/L	
Bicarbonate		181 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			15/06/2020
pH		7.7 pH units	
Temperature at which pH is measured		22.8 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	2.7 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)			22/06/2020
Suspended Solids	1.0	<1 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	36800 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
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	10/06/2020 2:20:00PM
Sample Received Date	11/06/2020 10:44:17AM
Sample Analysis Completed	25/06/2020 8:02:14AM
Sample ID	*2020-004-0960
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) 11/06/2020

Chlorophyll a	0.1	21.7 µg/L
Phaeophytin a	0.1	5.60 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 T0100-01(ADEL) 24/06/2020

Ammonia as N	0.005	0.167 mg/L
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Chloride T0104-02(ADEL) 15/06/2020

Chloride	4.0	2580 mg/L
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Nitrate + Nitrite as N (ADEL) 17/06/2020

# Nitrate + Nitrite as N	0.5	17.8 µg/L
# Nitrate + Nitrite as NO ₃	2.3	78.9 µg/L
# Nitrate as Nitrogen		10.1 µg/L

Nitrite as N (ADEL) 17/06/2020

# Nitrite as N	0.5	7.7 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 18/06/2020

Nitrogen - Total		1.67 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 17/06/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	35.581 µg/L
Phosphorus-Filterable Reactive as P	0.5	11.9 µg/L

Phosphorus - Total T0109-44(ADEL) 15/06/2020

Phosphorus - Total	0.005	0.130 mg/L
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Silica - Reactive T0111-01(ADEL) 15/06/2020

Silica - Reactive	0.05	0.34 mg/L
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TKN as N T0112-01(ADEL) 15/06/2020

TKN as Nitrogen	0.05	1.65 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	353180-EPA - Tauwitschere
Sampled Date	10/06/2020 2:20:00PM
Sample Received Date	11/06/2020 10:44:17AM
Sample Analysis Completed	25/06/2020 8:02:14AM
Sample ID	*2020-004-0960
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			18/06/2020
Dissolved Organic Carbon	1	6.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			18/06/2020
Total Organic Carbon	1	15.4 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)			15/06/2020
Alkalinity as Calcium Carbonate		110 mg/L	
Bicarbonate		135 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			15/06/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.9 °C	
Turbidity T0018-01(ADEL)			12/06/2020
Turbidity	0.1	26 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)			22/06/2020
Suspended Solids	1.0	28 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			16/06/2020
Total Dissolved Solids (by evaporation)	1	4860 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			22/06/2020
Fixed Solids	1	14 mg/L	
Volatile Suspended Solids	1	14 mg/L	



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

Thuy Diep - Technical Officer Chemistry

Ben Drew - Laboratory Technician

David Evans - Technical Officer Chemistry

Kerrie Jooste - Supervisor Nutrients and Waste

Aji John - Technical Officer Chemistry

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer

Kamilla Springer - Senior Technical Officer

Lyudmila Tsymbal - Technical Officer Life Science



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-004-0959	31525	EPA - Villa de Yumpa	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0959	31525	EPA - Villa de Yumpa	10/06/2020	pH	Test not processed within holding time
2020-004-0959	31525	EPA - Villa de Yumpa	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0959	31525	EPA - Villa de Yumpa	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0959	31525	EPA - Villa de Yumpa	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0960	353180	EPA - Tauwichee	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0960	353180	EPA - Tauwichee	10/06/2020	pH	Test not processed within holding time
2020-004-0960	353180	EPA - Tauwichee	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0960	353180	EPA - Tauwichee	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0960	353180	EPA - Tauwichee	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0961	31523	EPA - Long Point	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0961	31523	EPA - Long Point	10/06/2020	pH	Test not processed within holding time
2020-004-0961	31523	EPA - Long Point	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0961	31523	EPA - Long Point	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0961	31523	EPA - Long Point	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0962	31526	EPA - Nth Jack Point	10/06/2020	pH	Test not processed within holding time
2020-004-0962	31526	EPA - Nth Jack Point	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0962	31526	EPA - Nth Jack Point	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0962	31526	EPA - Nth Jack Point	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0962	31526	EPA - Nth Jack Point	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0963	31518	EPA - 12 South Salt Creek	9/06/2020	Turbidity	Test not processed within holding time
2020-004-0963	31518	EPA - 12 South Salt Creek	9/06/2020	pH	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-004-0963	31518	EPA - 12 South Salt Creek	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0963	31518	EPA - 12 South Salt Creek	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0963	31518	EPA - 12 South Salt Creek	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0963	31518	EPA - 12 South Salt Creek	9/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0964	31511	EPA - 3.2km South Salt Creek	10/06/2020	Turbidity	Test not processed within holding time
2020-004-0964	31511	EPA - 3.2km South Salt Creek	10/06/2020	pH	Test not processed within holding time
2020-004-0964	31511	EPA - 3.2km South Salt Creek	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0964	31511	EPA - 3.2km South Salt Creek	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0964	31511	EPA - 3.2km South Salt Creek	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0964	31511	EPA - 3.2km South Salt Creek	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0965	31515	EPA - Snipe Point	10/06/2020	Turbidity	Test not processed within holding time
2020-004-0965	31515	EPA - Snipe Point	10/06/2020	pH	Test not processed within holding time
2020-004-0965	31515	EPA - Snipe Point	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0965	31515	EPA - Snipe Point	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0965	31515	EPA - Snipe Point	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0965	31515	EPA - Snipe Point	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0966	31516	EPA - Seagull Island	10/06/2020	Turbidity	Test not processed within holding time
2020-004-0966	31516	EPA - Seagull Island	10/06/2020	pH	Test not processed within holding time
2020-004-0966	31516	EPA - Seagull Island	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0966	31516	EPA - Seagull Island	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0966	31516	EPA - Seagull Island	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0966	31516	EPA - Seagull Island	10/06/2020	Nitrite as N	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-004-0967	31517	EPA - 1.8km West Salt Creek	10/06/2020	Turbidity	Test not processed within holding time
2020-004-0967	31517	EPA - 1.8km West Salt Creek	10/06/2020	pH	Test not processed within holding time
2020-004-0967	31517	EPA - 1.8km West Salt Creek	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0967	31517	EPA - 1.8km West Salt Creek	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0967	31517	EPA - 1.8km West Salt Creek	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0967	31517	EPA - 1.8km West Salt Creek	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0968	31513	EPA - Parnka Point Boat Ramp	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0968	31513	EPA - Parnka Point Boat Ramp	10/06/2020	pH	Test not processed within holding time
2020-004-0968	31513	EPA - Parnka Point Boat Ramp	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0968	31513	EPA - Parnka Point Boat Ramp	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0968	31513	EPA - Parnka Point Boat Ramp	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0969	31514	EPA - Stoney Well	10/06/2020	pH	Test not processed within holding time
2020-004-0969	31514	EPA - Stoney Well	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0969	31514	EPA - Stoney Well	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0969	31514	EPA - Stoney Well	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0969	31514	EPA - Stoney Well	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0970	31512	EPA - McGrath Flat North	10/06/2020	Turbidity	Test not processed within holding time
2020-004-0970	31512	EPA - McGrath Flat North	10/06/2020	pH	Test not processed within holding time
2020-004-0970	31512	EPA - McGrath Flat North	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0970	31512	EPA - McGrath Flat North	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0970	31512	EPA - McGrath Flat North	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0970	31512	EPA - McGrath Flat North	10/06/2020	Nitrite as N	Test not processed within holding time



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2020-004-0972	315191	EPA - Morella Creek @ guage	10/06/2020	Turbidity	Test not processed within holding time
2020-004-0972	315191	EPA - Morella Creek @ guage	10/06/2020	pH	Test not processed within holding time
2020-004-0972	315191	EPA - Morella Creek @ guage	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0972	315191	EPA - Morella Creek @ guage	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0972	315191	EPA - Morella Creek @ guage	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0972	315191	EPA - Morella Creek @ guage	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0973	300713	Tilley Swamp Drain D/S Northern Outlet	10/06/2020	pH	Test not processed within holding time
2020-004-0973	300713	Tilley Swamp Drain D/S Northern Outlet	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0973	300713	Tilley Swamp Drain D/S Northern Outlet	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0973	300713	Tilley Swamp Drain D/S Northern Outlet	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0973	300713	Tilley Swamp Drain D/S Northern Outlet	10/06/2020	Nitrite as N	Test not processed within holding time
2020-004-0974	300711	Tilley Swamp Drain U/S Morella	10/06/2020	pH	Test not processed within holding time
2020-004-0974	300711	Tilley Swamp Drain U/S Morella	10/06/2020	Silica - Reactive	Test not processed within holding time
2020-004-0974	300711	Tilley Swamp Drain U/S Morella	10/06/2020	Suspended Solids	Test not processed within holding time
2020-004-0974	300711	Tilley Swamp Drain U/S Morella	10/06/2020	Volatile Suspended Solids	Test not processed within holding time
2020-004-0974	300711	Tilley Swamp Drain U/S Morella	10/06/2020	Nitrite as N	Test not processed within holding time

Samples Not Collected

Sample ID	S.Point	Description	Sampled Date	Non Collect Reason
2020-004-0971	31519	EPA - Morella Basin at Outlet Regulator	8/06/2020	Dry
2020-004-0975	300712	Tilley Swamp Watercourse Outlet Channel	8/06/2020	Dry



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Analytical Method

Analytical Method Code	Description	Reference Method
T0111-01	Silica by automated flow colorimetry	AP4500SI02
T0104-02	Chloride - Discrete Analyser	AP4500CLE
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
T0380-02	Chlorophyll a & b and phaeophytin	ISO10260
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0109-44	Phosphorous -total Kjeldahl for seawater by automated flow colorimetry	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T015-05	Total Dissolved Solids by Evaporation	AP2540C
T0010-01	Determination of pH	AP4500HB
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
TMZ-M06	Derived Results and Data Checks	AP4500NORGA

Laboratory Information

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