



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

19/05/2020

Dear Patrick

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2020-CSR-2
Account: 143419
Project: AWQC-147089 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



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Report Information

Project Name	AWQC-147089
Customer	DEW - Department of Environment and Water
CSR_ID	143419-2020-CSR-2

Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:05:15PM
Sample Analysis Completed	1/05/2020 9:23:45AM
Sample ID	2020-003-1688
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			15/04/2020
Chlorophyll a	0.1	23.5 µg/L	
Phaeophytin a	0.1	4.33 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Ammonia as N (ADEL)			23/04/2020
# Ammonia as N	1	25 µg/L	
Chloride T0104-02(ADEL)			30/04/2020
Chloride	4.0	47300 mg/L	
Nitrate + Nitrite as N (ADEL)			23/04/2020
# Nitrate + Nitrite as N	0.5	14.9 µg/L	
# Nitrate + Nitrite as NO3	2.3	66.0 µg/L	
# Nitrate as Nitrogen		7.61 µg/L	
Nitrite as N (ADEL)			23/04/2020
# Nitrite as N	0.5	7.3 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			15/04/2020
Nitrogen - Total		4.02 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			23/04/2020
# Phosphorus -Filterable Reactive as PO4	1.5	34.983 µg/L	
Phosphorus-Filterable Reactive as P	0.5	11.7 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/04/2020
Phosphorus - Total	0.005	0.075 mg/L	
Silica - Reactive T0111-01(ADEL)			16/04/2020
Silica - Reactive	0.05	0.80 mg/L	
TKN as N T0112-01(ADEL)			15/04/2020
TKN as Nitrogen	0.05	4.01 mg/L	



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Analytical Results

Sampling Point	31525-EPA - Villa de Yumpa
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:05:15PM
Sample Analysis Completed	1/05/2020 9:23:45AM
Sample ID	2020-003-1688
Status	Endorsed
Collection Type	Customer Collected

Organic Chemistry	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	21.7 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	26.7 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		206 mg/L	
Bicarbonate		251 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			16/04/2020
Turbidity	0.1	10 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Suspended Solids T0160-01(ADEL)			21/04/2020
Suspended Solids	1.0	14 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	93800 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			21/04/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	14 mg/L	



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:58PM
Sample Analysis Completed	28/04/2020 10:11:25PM
Sample ID	2020-003-1689
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	21.0 µg/L
Phaeophytin a	0.1	2.87 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	8 µg/L
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Chloride T0104-02(ADEL) 16/04/2020

Chloride	4.0	5510 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	6.1 µg/L
# Nitrate + Nitrite as NO ₃	2.3	27.0 µg/L
# Nitrate as Nitrogen		4.01 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	2.1 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		1.75 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	27.807 µg/L
Phosphorus-Filterable Reactive as P	0.5	9.3 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	0.049 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	0.25 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	1.74 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	353180-EPA - Tauwitschere
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:58PM
Sample Analysis Completed	28/04/2020 10:11:25PM
Sample ID	2020-003-1689
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	21.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	25.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		118 mg/L	
Bicarbonate		144 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.3 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	33 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	10700 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	11 mg/L	
Volatile Suspended Solids	1	22 mg/L	



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:46PM
Sample Analysis Completed	28/04/2020 10:11:58PM
Sample ID	2020-003-1690
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	3.26 µg/L
Phaeophytin a	0.1	1.47 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	9 µg/L
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Chloride T0104-02(ADEL) 16/04/2020

Chloride	4.0	16300 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	7.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	33.7 µg/L
# Nitrate as Nitrogen		6.32 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	1.3 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		0.60 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	11.063 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.7 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	0.019 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	0.36 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	0.59 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31523-EPA - Long Point
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:46PM
Sample Analysis Completed	28/04/2020 10:11:58PM
Sample ID	2020-003-1690
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	3.5 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	3.9 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		135 mg/L	
Bicarbonate		165 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.3 pH units	
Temperature at which pH is measured		22.7 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	1.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	3 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	35800 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:34PM
Sample Analysis Completed	1/05/2020 9:23:46AM
Sample ID	2020-003-1691
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	28.5 µg/L
Phaeophytin a	0.1	6.18 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	51 µg/L
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Chloride T0104-02(ADEL) 30/04/2020

Chloride	4.0	55600 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	4.3 µg/L
# Nitrate + Nitrite as NO ₃	2.3	19.0 µg/L
# Nitrate as Nitrogen		3.04 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	1.3 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		5.14 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# 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) 15/04/2020

Phosphorus - Total	0.005	0.185 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	1.78 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	5.14 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31526-EPA - Nth Jack Point
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:34PM
Sample Analysis Completed	1/05/2020 9:23:46AM
Sample ID	2020-003-1691
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	25.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	30.0 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		220 mg/L	
Bicarbonate		269 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	13 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	17 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	110000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	16 mg/L	



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:21PM
Sample Analysis Completed	1/05/2020 9:23:46AM
Sample ID	2020-003-1692
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			15/04/2020
Chlorophyll a	0.1	63.1 µg/L	
Phaeophytin a	0.1	7.08 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Ammonia as N (ADEL)			23/04/2020
# Ammonia as N	1	112 µg/L	
Chloride T0104-02(ADEL)			30/04/2020
Chloride	4.0	70500 mg/L	
Nitrate + Nitrite as N (ADEL)			23/04/2020
# Nitrate + Nitrite as N	0.5	9.4 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	41.6 µg/L	
# Nitrate as Nitrogen		7.70 µg/L	
Nitrite as N (ADEL)			23/04/2020
# Nitrite as N	0.5	1.7 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			15/04/2020
Nitrogen - Total		5.89 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			23/04/2020
# 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)			15/04/2020
Phosphorus - Total	0.005	0.089 mg/L	
Silica - Reactive T0111-01(ADEL)			16/04/2020
Silica - Reactive	0.05	4.74 mg/L	
TKN as N T0112-01(ADEL)			15/04/2020
TKN as Nitrogen	0.05	5.88 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31518-EPA - 12 South Salt Creek
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:21PM
Sample Analysis Completed	1/05/2020 9:23:46AM
Sample ID	2020-003-1692
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	28.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	36.3 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		230 mg/L	
Bicarbonate		281 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	2 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	133000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	1 mg/L	



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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:09PM
Sample Analysis Completed	1/05/2020 9:23:47AM
Sample ID	2020-003-1693
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	34.2 µg/L
Phaeophytin a	0.1	4.30 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chloride T0104-02(ADEL) 30/04/2020

Chloride	4.0	70800 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	5.6 µg/L
# Nitrate + Nitrite as NO3	2.3	24.8 µg/L
# Nitrate as Nitrogen		3.98 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	1.6 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		6.21 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO4	1.5	9.568 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.2 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	0.103 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	5.69 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	6.20 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Dissolved Organic Carbon T0158-07(ADEL) 22/04/2020

Dissolved Organic Carbon	1	31.4 mg/L
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Analytical Results

Sampling Point	31511-EPA - 3.2km South Salt Creek
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 4:04:09PM
Sample Analysis Completed	1/05/2020 9:23:47AM
Sample ID	2020-003-1693
Status	Endorsed
Collection Type	Customer Collected

Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	36.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		223 mg/L	
Bicarbonate		273 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			21/04/2020
Suspended Solids	1.0	18 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	146000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			21/04/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	18 mg/L	



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:39PM
Sample Analysis Completed	1/05/2020 9:23:48AM
Sample ID	2020-003-1694
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	46.0 µg/L
Phaeophytin a	0.1	6.02 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	82 µg/L
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Chloride T0104-02(ADEL) 30/04/2020

Chloride	4.0	63200 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	4.0 µg/L
# Nitrate + Nitrite as NO ₃	2.3	17.7 µg/L
# Nitrate as Nitrogen		2.84 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	1.2 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		5.61 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	11.96 µg/L
Phosphorus-Filterable Reactive as P	0.5	4.0 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	0.080 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	3.61 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	5.61 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31515-EPA - Snipe Point
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:39PM
Sample Analysis Completed	1/05/2020 9:23:48AM
Sample ID	2020-003-1694
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)		22/04/2020
Dissolved Organic Carbon	1	28.6 mg/L
Total Organic Carbon T0158-07(ADEL)		22/04/2020
Total Organic Carbon	1	35.1 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		229 mg/L	
Bicarbonate		280 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	22 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	133000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	20 mg/L	



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:27PM
Sample Analysis Completed	1/05/2020 9:23:48AM
Sample ID	2020-003-1695
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	35.8 µg/L
Phaeophytin a	0.1	5.76 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	79 µg/L
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Chloride T0104-02(ADEL) 30/04/2020

Chloride	4.0	64000 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	3.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	15.9 µg/L
# Nitrate as Nitrogen		2.59 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	1.0 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		5.52 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# 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) 15/04/2020

Phosphorus - Total	0.005	0.179 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	2.61 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	5.52 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31516-EPA - Seagull Island
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:27PM
Sample Analysis Completed	1/05/2020 9:23:48AM
Sample ID	2020-003-1695
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	26.3 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	33.2 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		222 mg/L	
Bicarbonate		271 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		7.9 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	15 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	128000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	15 mg/L	



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:14PM
Sample Analysis Completed	1/05/2020 9:23:49AM
Sample ID	2020-003-1696
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			15/04/2020
Chlorophyll a	0.1	58.5 µg/L	
Phaeophytin a	0.1	7.19 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Ammonia as N (ADEL)			23/04/2020
# Ammonia as N	1	101 µg/L	
Chloride T0104-02(ADEL)			30/04/2020
Chloride	4.0	66100 mg/L	
Nitrate + Nitrite as N (ADEL)			23/04/2020
# Nitrate + Nitrite as N	0.5	5.3 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	23.5 µg/L	
# Nitrate as Nitrogen		4.02 µg/L	
Nitrite as N (ADEL)			23/04/2020
# Nitrite as N	0.5	1.3 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			15/04/2020
Nitrogen - Total		5.91 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			23/04/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	11.362 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.8 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/04/2020
Phosphorus - Total	0.005	0.107 mg/L	
Silica - Reactive T0111-01(ADEL)			16/04/2020
Silica - Reactive	0.05	4.47 mg/L	
TKN as N T0112-01(ADEL)			15/04/2020
TKN as Nitrogen	0.05	5.90 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31517-EPA - 1.8km West Salt Creek
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:14PM
Sample Analysis Completed	1/05/2020 9:23:49AM
Sample ID	2020-003-1696
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	28.2 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	36.6 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		230 mg/L	
Bicarbonate		280 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		7.8 pH units	
Temperature at which pH is measured		22.5 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	16 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	138000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	<1 mg/L	
Volatile Suspended Solids	1	16 mg/L	



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:02PM
Sample Analysis Completed	1/05/2020 9:23:49AM
Sample ID	2020-003-1697
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	13.6 µg/L
Phaeophytin a	0.1	3.05 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	14 µg/L
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Chloride T0104-02(ADEL) 30/04/2020

Chloride	4.0	31100 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	3.3 µg/L
# Nitrate + Nitrite as NO ₃	2.3	14.6 µg/L
# Nitrate as Nitrogen		2.39 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	0.9 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		2.38 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	9.269 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.1 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	<0.005 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	0.49 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	2.38 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31513-EPA - Parnka Point Boat Ramp
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:57:02PM
Sample Analysis Completed	1/05/2020 9:23:49AM
Sample ID	2020-003-1697
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	13.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	17.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		183 mg/L	
Bicarbonate		224 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.3 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			16/04/2020
Turbidity	0.1	6.8 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			24/04/2020
Suspended Solids	1.0	25 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	62400 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			24/04/2020
Fixed Solids	1	12 mg/L	
Volatile Suspended Solids	1	13 mg/L	



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:22PM
Sample Analysis Completed	1/05/2020 9:23:49AM
Sample ID	2020-003-1698
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			15/04/2020
Chlorophyll a	0.1	27.6 µg/L	
Phaeophytin a	0.1	5.17 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Ammonia as N (ADEL)			23/04/2020
# Ammonia as N	1	40 µg/L	
Chloride T0104-02(ADEL)			30/04/2020
Chloride	4.0	52900 mg/L	
Nitrate + Nitrite as N (ADEL)			23/04/2020
# Nitrate + Nitrite as N	0.5	4.7 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	20.8 µg/L	
# Nitrate as Nitrogen		0.418 µg/L	
Nitrite as N (ADEL)			23/04/2020
# Nitrite as N	0.5	4.3 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			15/04/2020
Nitrogen - Total		4.56 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			23/04/2020
# 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)			15/04/2020
Phosphorus - Total	0.005	0.072 mg/L	
Silica - Reactive T0111-01(ADEL)			16/04/2020
Silica - Reactive	0.05	1.36 mg/L	
TKN as N T0112-01(ADEL)			15/04/2020
TKN as Nitrogen	0.05	4.56 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	31514-EPA - Stoney Well
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:22PM
Sample Analysis Completed	1/05/2020 9:23:49AM
Sample ID	2020-003-1698
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	24.0 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	28.4 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		215 mg/L	
Bicarbonate		262 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	12 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Suspended Solids T0160-01(ADEL)			21/04/2020
Suspended Solids	1.0	19 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	106000 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			21/04/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	18 mg/L	



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:08PM
Sample Analysis Completed	1/05/2020 9:23:50AM
Sample ID	2020-003-1699
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	30.5 µg/L
Phaeophytin a	0.1	9.08 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	9 µg/L
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Chloride T0104-02(ADEL) 30/04/2020

Chloride	4.0	34200 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	9.3 µg/L
# Nitrate + Nitrite as NO ₃	2.3	41.2 µg/L
# Nitrate as Nitrogen		8.55 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	0.8 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		2.79 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	8.073 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.7 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	0.014 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	0.20 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

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 1.0°C



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Analytical Results

Sampling Point	31512-EPA - McGrath Flat North
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:08PM
Sample Analysis Completed	1/05/2020 9:23:50AM
Sample ID	2020-003-1699
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)		22/04/2020
Dissolved Organic Carbon	1	14.2 mg/L
Total Organic Carbon T0158-07(ADEL)		22/04/2020
Total Organic Carbon	1	18.9 mg/L

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			20/04/2020
Alkalinity as Calcium Carbonate		177 mg/L	
Bicarbonate		216 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			17/04/2020
pH		8.0 pH units	
Temperature at which pH is measured		22.4 °C	
Turbidity T0018-01(ADEL)			16/04/2020
Turbidity	0.1	15 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			21/04/2020
Suspended Solids	1.0	20 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	63700 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			21/04/2020
Fixed Solids	1	8 mg/L	
Volatile Suspended Solids	1	12 mg/L	



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:46PM
Sample Analysis Completed	28/04/2020 10:17:57PM
Sample ID	2020-003-1701
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Chlorophyll a & Phaeophytin a T0380-02(ADEL)			15/04/2020
Chlorophyll a	0.1	10.9 µg/L	
Phaeophytin a	0.1	3.14 µg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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<i>Sample temperature at time of receipt 1.0°C</i>			
Ammonia as N (ADEL)			23/04/2020
# Ammonia as N	1	108 µg/L	
Chloride T0104-02(ADEL)			16/04/2020
Chloride	4.0	7980 mg/L	
Nitrate + Nitrite as N (ADEL)			23/04/2020
# Nitrate + Nitrite as N	0.5	4.2 µg/L	
# Nitrate + Nitrite as NO ₃	2.3	18.6 µg/L	
# Nitrate as Nitrogen		2.86 µg/L	
Nitrite as N (ADEL)			23/04/2020
# Nitrite as N	0.5	1.3 µg/L	
Nitrogen - Total TMZ-M06(ADEL)			15/04/2020
Nitrogen - Total		2.22 mg/L	
Phosphorus - Filterable Reactive as P (ADEL)			23/04/2020
# Phosphorus -Filterable Reactive as PO ₄	1.5	9.269 µg/L	
Phosphorus-Filterable Reactive as P	0.5	3.1 µg/L	
Phosphorus - Total T0109-44(ADEL)			15/04/2020
Phosphorus - Total	0.005	0.021 mg/L	
Silica - Reactive T0111-01(ADEL)			16/04/2020
Silica - Reactive	0.05	3.78 mg/L	
TKN as N T0112-01(ADEL)			15/04/2020
TKN as Nitrogen	0.05	2.22 mg/L	

Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	315191-EPA - Morella Creek @ guage
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:46PM
Sample Analysis Completed	28/04/2020 10:17:57PM
Sample ID	2020-003-1701
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	21.8 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	24.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		327 mg/L	
Bicarbonate		230 mg/L	
Carbonate		84 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		9.1 pH units	
Temperature at which pH is measured		22.3 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	4.2 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	5 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	15900 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	3 mg/L	



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:34PM
Sample Analysis Completed	28/04/2020 10:18:32PM
Sample ID	2020-003-1702
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	2.02 µg/L
Phaeophytin a	0.1	0.26 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	14 µg/L
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Chloride T0104-02(ADEL) 16/04/2020

Chloride	4.0	2930 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	6.1 µg/L
# Nitrate + Nitrite as NO ₃	2.3	27.0 µg/L
# Nitrate as Nitrogen		5.80 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	<0.5 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		0.69 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	8.671 µg/L
Phosphorus-Filterable Reactive as P	0.5	2.9 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	<0.005 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	12.5 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	0.68 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	300713-Tilley Swamp Drain D/S Northern Outlet
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:52:34PM
Sample Analysis Completed	28/04/2020 10:18:32PM
Sample ID	2020-003-1702
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	6.6 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	7.1 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		422 mg/L	
Bicarbonate		501 mg/L	
Carbonate		6 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.4 pH units	
Temperature at which pH is measured		22.2 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	2.1 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt 1.0°C			
Suspended Solids T0160-01(ADEL)			21/04/2020
Suspended Solids	1.0	3 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	5920 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			21/04/2020
Fixed Solids	1	1 mg/L	
Volatile Suspended Solids	1	2 mg/L	



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:51:56PM
Sample Analysis Completed	28/04/2020 10:19:07PM
Sample ID	2020-003-1703
Status	Endorsed
Collection Type	Customer Collected

Biology Operations	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Chlorophyll a & Phaeophytin a T0380-02(ADEL) 15/04/2020

Chlorophyll a	0.1	2.95 µg/L
Phaeophytin a	0.1	1.43 µg/L

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C

Ammonia as N (ADEL) 23/04/2020

# Ammonia as N	1	15 µg/L
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Chloride T0104-02(ADEL) 16/04/2020

Chloride	4.0	2780 mg/L
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Nitrate + Nitrite as N (ADEL) 23/04/2020

# Nitrate + Nitrite as N	0.5	6.6 µg/L
# Nitrate + Nitrite as NO ₃	2.3	29.2 µg/L
# Nitrate as Nitrogen		5.88 µg/L

Nitrite as N (ADEL) 23/04/2020

# Nitrite as N	0.5	0.7 µg/L
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Nitrogen - Total TMZ-M06(ADEL) 15/04/2020

Nitrogen - Total		0.75 mg/L
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Phosphorus - Filterable Reactive as P (ADEL) 23/04/2020

# Phosphorus -Filterable Reactive as PO ₄	1.5	11.362 µg/L
Phosphorus-Filterable Reactive as P	0.5	3.8 µg/L

Phosphorus - Total T0109-44(ADEL) 15/04/2020

Phosphorus - Total	0.005	<0.005 mg/L
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Silica - Reactive T0111-01(ADEL) 16/04/2020

Silica - Reactive	0.05	11.3 mg/L
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TKN as N T0112-01(ADEL) 15/04/2020

TKN as Nitrogen	0.05	0.74 mg/L
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Organic Chemistry	LOR	Result	Test Start Date
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Sample temperature at time of receipt 1.0°C



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Analytical Results

Sampling Point	300711-Tilley Swamp Drain U/S Morella
Sampled Date	14/04/2020 4:59:00AM
Sample Received Date	15/04/2020 3:51:56PM
Sample Analysis Completed	28/04/2020 10:19:07PM
Sample ID	2020-003-1703
Status	Endorsed
Collection Type	Customer Collected

Dissolved Organic Carbon T0158-07(ADEL)			22/04/2020
Dissolved Organic Carbon	1	6.9 mg/L	
Total Organic Carbon T0158-07(ADEL)			22/04/2020
Total Organic Carbon	1	8.5 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01(ADEL)			16/04/2020
Alkalinity as Calcium Carbonate		416 mg/L	
Bicarbonate		485 mg/L	
Carbonate		11 mg/L	
Hydroxide		0 mg/L	
pH T0010-01(ADEL)			16/04/2020
pH		8.4 pH units	
Temperature at which pH is measured		22.3 °C	
Turbidity T0018-01(ADEL)			15/04/2020
Turbidity	0.1	2.4 NTU	

Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt 1.0°C</i>			
Suspended Solids T0160-01(ADEL)			17/04/2020
Suspended Solids	1.0	5 mg/L	
Total Dissolved Solids by Evaporation T015-05(ADEL)			27/04/2020
Total Dissolved Solids (by evaporation)	1	6020 mg/L	
Volatile Suspended Solids T0160-01(ADEL)			17/04/2020
Fixed Solids	1	2 mg/L	
Volatile Suspended Solids	1	3 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

Andrew Ford - Technical Officer Chemistry

Kerrie Jooste - Supervisor Nutrients and Waste

Aji John - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer

Kamilla Springer - Senior Technical Officer

Lyudmila Tsymbal - Technical Officer Life Science



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Samples Not Collected

Sample ID	S.Point	Description	Sampled Date	Non Collect Reason
2020-003-1700	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Dry
2020-003-1704	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Dry

Bottles Not Collected

Sample ID	S.Point	Description	Sampled Date	Laboratory	Non Collect Reason
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Biology Operations	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Physical	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Waste Water	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Organic Chemistry	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Waste Water	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1700-0	31519	EPA - Morella Basin at Outlet Regulator	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Biology Operations	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Physical	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Waste Water	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Organic Chemistry	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Waste Water	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC
2020-003-1704-0	300712	Tilley Swamp Watercourse Outlet Channel	14/04/2020	Inorganic Chemistry - Nutrients	Bottle not received at AWQC

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Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
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
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
T0111-01	Silica by automated flow colorimetry	AP4500SI02

Laboratory Information

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