



**CLIENT NAME: MUNICIPALITY OF ANNAPOLIS COUNTY**

**PO Box 100  
Annapolis Royal, NS B0S1A0  
(902) 532-3141**

**ATTENTION TO: James Jenner**

**PROJECT:**

**AGAT WORK ORDER: 22X916054**

**TRACE ORGANICS REVIEWED BY: Wendy Rose, Trace Organics Lab Technician**

**WATER ANALYSIS REVIEWED BY: Sara Knox, Data Reviewer**

**DATE REPORTED: Jul 15, 2022**

**PAGES (INCLUDING COVER): 15**

**VERSION\*: 1**

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

**\*Notes**

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## Certificate of Analysis

AGAT WORK ORDER: 22X916054

PROJECT:

11 Morris Drive, Unit 122  
 Dartmouth, Nova Scotia  
 CANADA B3B 1M2  
 TEL (902)468-8718  
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<http://www.agatlabs.com>

CLIENT NAME: MUNICIPALITY OF ANNAPOLIS COUNTY

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SAMPLING SITE:

SAMPLED BY:

### Haloacetic Acids (water)

DATE RECEIVED: 2022-07-05

DATE REPORTED: 2022-07-15

Parameter	Unit	SAMPLE DESCRIPTION:		Metering	Gordon Road	Seaman St	Hwy 362
		G / S	RDL	Water	Water	Water	Water
		DATE SAMPLED:		2022-07-04 08:00	2022-07-04 08:00	2022-07-04 08:00	2022-07-04 08:00
				4050929	4050944	4050945	4050946
Chloroacetic Acid	ug/L		0.5	1.3	1.5	1.1	1.4
Bromoacetic Acid	ug/L		0.5	<0.5	<0.5	<0.5	<0.5
Dichloroacetic Acid	ug/L		0.5	20.5	27.2	26.6	28.8
Trichloroacetic Acid	ug/L		0.5	24.7	28.5	26.4	28.1
Bromochloroacetic Acid	ug/L		0.5	7.6	8.9	8.6	9.0
Dibromoacetic Acid	ug/L		0.5	1.7	1.9	1.9	1.9
Total Haloacetic Acids	ug/L	80	4.0	55.8	68.0	64.6	69.2
HAA5	ug/L	80	4.0	48.2	59.1	56.0	60.2
Surrogate	Unit	Acceptable Limits					
2-Bromobutanoic acid	%	70-130		107	108	107	112

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03  
 Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

**4050929-4050946** HAA5 is a calculated parameter. The calculated parameter is non-accredited. The component parameters of the calculation are accredited.  
 Analysis performed at AGAT Halifax (unless marked by \*)

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SAMPLING SITE:

SAMPLED BY:

### Trihalomethanes in Water

DATE RECEIVED: 2022-07-05

DATE REPORTED: 2022-07-15

Parameter	Unit	SAMPLE DESCRIPTION:		Metering	Gordon Road	Seaman St	Hwy 362
		G / S	RDL	Water	Water	Water	Water
		DATE SAMPLED:		2022-07-04 08:00	2022-07-04 08:00	2022-07-04 08:00	2022-07-04 08:00
		Acceptable Limits		4050929	4050944	4050945	4050946
Chloroform	ug/L		1	30	38	47	49
Bromodichloromethane	ug/L		1	15	16	19	18
Dibromochloromethane	ug/L		1	<1	<1	<1	<1
Bromoform	ug/L		1	<1	<1	<1	<1
Total Trihalomethanes	ug/L	100	1	45	54	66	67
<b>Surrogate</b>	<b>Unit</b>	<b>Acceptable Limits</b>					
Toluene-d8	%	60-140		93	94	94	92
4-Bromofluorobenzene	%	60-140		96	94	91	93

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03  
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### Halifax - Metals - Total (µg/L)

DATE RECEIVED: 2022-07-05

DATE REPORTED: 2022-07-15

Parameter	Unit	SAMPLE DESCRIPTION:		Treated	Raw
		G / S	RDL	Water	Water
				2022-07-04 08:00 4050949	2022-07-04 08:00 4050950
Total Aluminum	ug/L	2900, 100	4	14	32
Total Antimony	ug/L	6	2	<2	<2
Total Arsenic	ug/L	10	2	<2	<2
Total Barium	ug/L	2000	5	<5	<5
Total Beryllium	ug/L		2	<2	<2
Total Bismuth	ug/L		2	<2	<2
Total Boron	ug/L	5000	5	11	10
Total Cadmium	ug/L	7	0.09	<0.09	<0.09
Total Chromium	ug/L	50	1	<1	<1
Total Cobalt	ug/L		1	<1	<1
Total Copper	ug/L	2000, 1000	1	2	<1
Total Iron	ug/L	300 AO	50	<50	<50
Total Lead	ug/L	5	0.5	<0.5	<0.5
Total Manganese	ug/L	120, 20 AO	3	<3	<3
Total Molybdenum	ug/L		2	<2	<2
Total Nickel	ug/L		2	<2	<2
Total Selenium	ug/L	50	1.0	<1.0	<1.0
Total Silver	ug/L		0.1	<0.1	<0.1
Total Strontium	ug/L	7000	5	35	37
Total Thallium	ug/L		0.2	<0.2	<0.2
Total Tin	ug/L		3	<3	<3
Total Titanium	ug/L		3	5	7
Total Uranium	ug/L	20	0.2	<0.2	<0.2
Total Vanadium	ug/L		2	4	3
Total Zinc	ug/L	5000 AO	5	<5	<5
Total Phosphorus	ug/L		50	<50	<50

Certified By:

*Sara Knox*



**AGAT** Laboratories

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**Halifax - Metals - Total (µg/L)**

DATE RECEIVED: 2022-07-05

DATE REPORTED: 2022-07-15

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03  
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

4050949-4050950 < - Values refer to Report Detection Limits.

Analysis performed at AGAT Edmonton (unless marked by \*)

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SAMPLED BY:

### Standard Water Analysis + Total Metals

DATE RECEIVED: 2022-07-05

DATE REPORTED: 2022-07-15

Parameter	Unit	SAMPLE DESCRIPTION:		Treated	Raw
		G / S	RDL	Water	Water
				2022-07-04 08:00 4050949	2022-07-04 08:00 4050950
pH		7.0-10.5		6.94	6.93
Reactive Silica as SiO2	mg/L		0.5	13.8	15.2
Chloride	mg/L	250 AO	1	19	15
Fluoride	mg/L	1.5	0.12	<0.12	<0.12
Sulphate	mg/L	500 AO	2	5	6
Alkalinity	mg/L		5	58	60
True Color	TCU	15 AO	5.00	<5.00	<5.00
Turbidity	NTU	1.0	0.5	<0.5	0.8
Electrical Conductivity	umho/cm		1	197	208
Nitrate + Nitrite as N	mg/L		0.05	1.67	4.06
Nitrate as N	mg/L	10	0.05	1.67	4.06
Nitrite as N	mg/L	1.0	0.05	<0.05	<0.05
Ammonia as N	mg/L		0.03	0.03	<0.03
Total Organic Carbon	mg/L		0.5	1.8	1.5
Ortho-Phosphate as P	mg/L		0.01	0.01	0.02
Total Sodium	mg/L	200 AO	0.1	14	12
Total Potassium	mg/L		0.1	0.8	1.6
Total Calcium	mg/L		0.1	14	18
Total Magnesium	mg/L		0.1	6.5	7.6
Bicarb. Alkalinity (as CaCO3)	mg/L		5	58	60
Carb. Alkalinity (as CaCO3)	mg/L		10	<10	<10
Hydroxide	mg/L		5	<5	<5
Calculated TDS	mg/L	500 AO	1	102	114
Hardness	mg/L			61.7	76.2
Langelier Index (@20C)	NA			-1.74	-1.63
Langelier Index (@ 4C)	NA			-2.06	-1.95
Saturation pH (@ 20C)	NA			8.68	8.56
Saturation pH (@ 4C)	NA			9.00	8.88
Anion Sum	me/L			1.92	2.04

**Certified By:**

*Sara Knox*



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SAMPLING SITE:

SAMPLED BY:

### Standard Water Analysis + Total Metals

DATE RECEIVED: 2022-07-05

DATE REPORTED: 2022-07-15

Parameter	Unit	SAMPLE DESCRIPTION:		Treated	Raw
		G / S	RDL	4050949	4050950
Cation sum	me/L			1.87	2.09
% Difference/ Ion Balance	%			1.4	1.2

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Canadian Drinking Water Quality - updated 2021-03  
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

**4050949-4050950** % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component parameters of the calculations are accredited.

Analysis performed at AGAT Halifax (unless marked by \*)

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**Exceedance Summary**

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SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
4050949	Treated	NS-CDWQ incl [AO]	Standard Water Analysis + Total Metals	pH		7.0-10.5 OG	6.94
4050950	Raw	NS-CDWQ incl [AO]	Standard Water Analysis + Total Metals	pH		7.0-10.5 OG	6.93



## Quality Assurance

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**SAMPLED BY:**

### Trace Organics Analysis

RPT Date: Jul 15, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

**Haloacetic Acids (water)**

Chloroacetic Acid	1	4033558	0.9	0.9	NA	< 0.5	93%	70%	130%	81%	60%	130%	67%	60%	130%
Bromoacetic Acid	1	4033558	< 0.5	< 0.5	NA	< 0.5	101%	70%	130%	89%	60%	130%	85%	60%	130%
Dichloroacetic Acid	1	4033558	35.1	35.3	0.6%	< 0.5	100%	70%	130%	111%	60%	130%	123%	60%	130%
Trichloroacetic Acid	1	4033558	22.1	22.2	0.5%	< 0.5	89%	70%	130%	106%	60%	130%	123%	60%	130%
Bromochloroacetic Acid	1	4033558	3.1	3.2	3.2%	< 0.5	87%	70%	130%	107%	60%	130%	116%	60%	130%
Dibromoacetic Acid	1	4033558	< 0.5	< 0.5	NA	< 0.5	88%	70%	130%	120%	60%	130%	127%	60%	130%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.  
 If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

**Trihalomethanes in Water**

Chloroform	1	4050903	< 1	< 1	NA	< 1	94%	50%	140%	99%	60%	130%	87%	50%	140%
Bromodichloromethane	1	4050903	< 1	< 1	NA	< 1	90%	50%	140%	94%	60%	130%	85%	50%	140%
Dibromochloromethane	1	4050903	< 1	< 1	NA	< 1	98%	50%	140%	102%	60%	130%	85%	50%	140%
Bromoform	1	4050903	< 1	< 1	NA	< 1	84%	50%	140%	88%	60%	130%	82%	50%	140%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution. Matrix spike performed on a different sample than the duplicate.  
 If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

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## Quality Assurance

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SAMPLING SITE:

SAMPLED BY:

Water Analysis																
RPT Date: Jul 15, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	

**Standard Water Analysis + Total Metals**

pH	4056809		6.5	6.57	1.1%	<	100%	80%	120%						
Reactive Silica as SiO2	4049305		9.0	9.6	7.1%	< 0.5	103%	80%	120%	105%	80%	120%	110%	80%	120%
Chloride	4067444	4067444	26	27	4.0%	< 1	111%	80%	120%	NA	80%	120%	NA	70%	130%
Fluoride	4048539		<0.12	<0.12	NA	< 0.12	111%	80%	120%	NA	80%	120%	113%	70%	130%
Sulphate	4048539		44	42	3.1%	< 2	102%	80%	120%	NA	80%	120%	NA	70%	130%
Alkalinity	4056809	4056809	10	11	NA	< 5	97%	80%	120%						
True Color	4050893		10.0	9.93	NA	5.00	80%	80%	120%	101%	80%	120%	NA		
Turbidity	3961019		<0.5	<0.5	NA	< 0.5	99%	80%	120%	NA			NA		
Electrical Conductivity	4056809	4056809	2090	2100	0.5%	< 1	102%	90%	110%						
Nitrate as N	4048539		<0.05	<0.05	NA	< 0.05	107%	80%	120%	NA	80%	120%	102%	70%	130%
Nitrite as N	4048539		<0.05	<0.05	NA	< 0.05	92%	80%	120%	NA	80%	120%	103%	70%	130%
Ammonia as N	4050949		NA	NA	NA	< 0.03	110%	80%	120%	84%	80%	120%	NA	70%	130%
Total Organic Carbon	4051110		4.7	4.8	2.1%	< 0.5	93%	80%	120%	NA	80%	120%	90%	80%	120%
Ortho-Phosphate as P			0.02	0.02	NA	< 0.01	83%	80%	120%		80%	120%		80%	120%
Total Sodium	4053046	4053046	22	18	20.0%	< 0.1	93%	80%	120%	90%	80%	120%	82%	70%	130%
Total Potassium	4053046	4053046	11.9	9.8	19.4%	< 0.1	92%	80%	120%	90%	80%	120%	82%	70%	130%
Total Calcium	4053046	4053046	37	29	NA	< 0.1	95%	80%	120%	94%	80%	120%	88%	70%	130%
Total Magnesium	4053046	4053046	4.0	3.4	16.2%	< 0.1	107%	80%	120%	102%	80%	120%	96%	70%	130%
Bicarb. Alkalinity (as CaCO3)	4056809	4056809	10	11	NA	< 5	NA	80%	120%						
Carb. Alkalinity (as CaCO3)	4056809	4056809	< 10	< 10	0.0%	< 10	NA	80%	120%						
Hydroxide	4056809	4056809	< 5	< 5	0.0%	< 5	NA	80%	120%						

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

**Halifax - Metals - Total (µg/L)**

Total Aluminum	194	4038861	25	23	8.3%	< 4	121%	70%	130%	94%	80%	120%	110%	70%	130%
Total Antimony	194	4038861	<2	<2	NA	< 2	103%	70%	130%	103%	80%	120%	99%	70%	130%
Total Arsenic	194	4038861	<2	<2	NA	< 2	99%	70%	130%	101%	80%	120%	102%	70%	130%
Total Barium	194	4038861	<5	<5	NA	< 5	102%	70%	130%	105%	80%	120%	100%	70%	130%
Total Beryllium	194	4038861	<2	<2	NA	< 2	108%	70%	130%	105%	80%	120%	106%	70%	130%
Total Bismuth	194	4038861	<2	<2	NA	< 2	99%	70%	130%	96%	80%	120%	93%	70%	130%
Total Boron	194	4038861	10	10	NA	< 5	112%	70%	130%	113%	80%	120%	105%	70%	130%
Total Cadmium	194	4038861	<0.09	<0.09	NA	< 0.09	103%	70%	130%	103%	80%	120%	102%	70%	130%
Total Chromium	194	4038861	<1	<1	NA	< 1	104%	70%	130%	102%	80%	120%	101%	70%	130%
Total Cobalt	194	4038861	<1	<1	NA	< 1	104%	70%	130%	105%	80%	120%	98%	70%	130%
Total Copper	194	4038861	77	73	5.3%	< 1	102%	70%	130%	105%	80%	120%	100%	70%	130%
Total Iron	194	4059059	<50	<50	NA	< 50	112%	70%	130%	113%	80%	120%	104%	70%	130%
Total Lead	194	4038861	<0.5	<0.5	NA	< 0.5	98%	70%	130%	93%	80%	120%	93%	70%	130%
Total Manganese	194	4059059	169	159	6.1%	< 3	116%	70%	130%	112%	80%	120%	103%	70%	130%
Total Molybdenum	194	4038861	<2	<2	NA	< 2	91%	70%	130%	92%	80%	120%	88%	70%	130%

## Quality Assurance

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**SAMPLING SITE:**
**SAMPLED BY:**

### Water Analysis (Continued)

RPT Date: Jul 15, 2022			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits		
								Lower	Upper		Lower	Upper		Lower	Upper	
Total Nickel	194	4038861	<2	<2	NA	< 2	103%	70%	130%	105%	80%	120%	98%	70%	130%	
Total Selenium	194	4038861	<1.0	<1.0	NA	< 1.0	99%	70%	130%	100%	80%	120%	99%	70%	130%	
Total Silver	194	4038861	<0.1	<0.1	NA	< 0.1	98%	70%	130%	97%	80%	120%	96%	70%	130%	
Total Strontium	194	4059059	242	228	6.0%	< 5	115%	70%	130%	110%	80%	120%	104%	70%	130%	
Total Thallium	194	4038861	<0.2	<0.2	NA	< 0.1	97%	70%	130%	98%	80%	120%	93%	70%	130%	
Total Tin	194	4038861	<3	<3	NA	< 2	103%	70%	130%	108%	80%	120%	99%	70%	130%	
Total Titanium	194	4038861	12	11	8.7%	< 2	116%	70%	130%	107%	80%	120%	114%	70%	130%	
Total Uranium	194	4038861	<0.2	<0.2	NA	< 0.2	99%	70%	130%	97%	80%	120%	93%	70%	130%	
Total Vanadium	194	4038861	<2	<2	NA	< 2	103%	70%	130%	104%	80%	120%	99%	70%	130%	
Total Zinc	194	4038861	150	132	12.8%	< 5	104%	70%	130%	112%	80%	120%	89%	70%	130%	
Total Phosphorus	194	4059059	94	<50	NA	< 50	91%	70%	130%	98%	80%	120%	83%	70%	130%	

Comments: If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.  
 If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.

**Certified By:**


## Method Summary

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**SAMPLING SITE:**
**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Trace Organics Analysis</b>			
Chloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Bromoacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Dichloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Trichloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Bromochloroacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
Dibromoacetic Acid	ORG-120-5110	EPA 552.3	GC/ECD
2-Bromobutanoic acid	ORG-120-5110	EPA 552.3	GC/ECD
Total Haloacetic Acids	ORG-120-5110	EPA 552.3	GC/ECD
HAA5	ORG-120-5110	EPA 552.3	GC/ECD
Chloroform	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Bromodichloromethane	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Dibromochloromethane	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Bromoform	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Total Trihalomethanes	VOL-120-5001	EPA SW-846 5030B/8260B	GC/MS
Toluene-d8	VOL-120-5001	EPA SW846 5030B/8260B	GC/MS
4-Bromofluorobenzene	VOL-120-5001	EPA SW846 5030B/8260B	GC/MS

## Method Summary

**CLIENT NAME: MUNICIPALITY OF ANNAPOLIS COUNTY**
**AGAT WORK ORDER: 22X916054**
**PROJECT:**
**ATTENTION TO: James Jenner**
**SAMPLING SITE:**
**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
<b>Water Analysis</b>			
Total Aluminum	INOR-171-6201, INOR-171-6100	SM 3030 E; SM 3125 B	ICP-MS
Total Antimony	INOR-171-6201, INOR-171-6100	SM 3030 E; SM 3125 B	ICP-MS
Total Arsenic	INOR-171-6201	SM 3030 E; SM 3125 B	ICP-MS
Total Barium	INOR-171-6201	SM 3030 E; SM 3125 B	ICP-MS
Total Beryllium	INOR-171-6100, -6202	SM 3030 E; SM 3125 B	ICP-MS
Total Bismuth	INOR-171-6201	SM 3030 E; SM 3125 B	ICP/MS
Total Boron	INOR-171-6201	SM 3030 E; SM 3125 B	ICP-MS
Total Cadmium	INOR-171-6201	SM 3030 E; SM 3125 B	ICP/MS
Total Chromium	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Cobalt	INOR-171-6100, -6202	SM 3030 E; SM 3125 B	ICP-MS
Total Copper	INOR-171-6100, -6202	SM 3030 E; SM 3125 B	ICP-MS
Total Iron	INOR-171-6100, 171-6201	SM 3030 E; SM 3120 B	ICP/OES
Total Lead	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Manganese	INOR-171-6201	SM 3030 E; SM 3120 B	ICP/OES
Total Molybdenum	INOR-171-6202	SM 3030 E; SM 3125 B	ICP/MS
Total Nickel	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Selenium	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Silver	INO-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Strontium	INOR-171-6201	SM 3030 E; SM 3120 B	ICP/OES
Total Thallium	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Tin	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Titanium	INOR-171-6100, -6202	SM 3030 E; SM 3125 B	ICP/MS
Total Uranium	INOR-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Vanadium	INORG-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Zinc	INORG-171-6202	SM 3030 E; SM 3125 B	ICP-MS
Total Phosphorus	INOR-171-6100, 171-6201	SM 3030 E; SM 3120 B	ICP/OES
pH	INOR-121-6001	SM 4500 H+B	PC TITRATE
Reactive Silica as SiO <sub>2</sub>	INOR-121-6027	SM 4500-SiO <sub>2</sub> F	COLORIMETER
Chloride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Fluoride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Alkalinity	INOR-121-6001	SM 2320 B	
True Color	INOR-121-6008	SM 2120 B	LACHAT FIA
Turbidity	INOR-121-6022	SM 2130 B	NEPHELOMETER
Electrical Conductivity	INOR-121-6001	SM 2510 B	PC TITRATE
Nitrate + Nitrite as N	INORG-121-6005	SM 4110 B	CALCULATION
Nitrate as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Ammonia as N	INOR-121-6047	SM 4500-NH <sub>3</sub> H	COLORIMETER
Total Organic Carbon	INOR-121-6026	SM 5310 B	TOC ANALYZER
Ortho-Phosphate as P	INOR-121-6012	SM 4500-P G	COLORIMETER
Total Sodium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Potassium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Calcium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS



## Method Summary

**CLIENT NAME:** MUNICIPALITY OF ANNAPOLIS COUNTY

**AGAT WORK ORDER:** 22X916054

**PROJECT:**

**ATTENTION TO:** James Jenner

**SAMPLING SITE:**

**SAMPLED BY:**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Total Magnesium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Bicarb. Alkalinity (as CaCO <sub>3</sub> )	INORG-121-6001	SM 2320 B	PC TITRATE
Carb. Alkalinity (as CaCO <sub>3</sub> )	INORG-121-6001	SM 2320 B	PC TITRATE
Hydroxide	INORG-121-6001	SM 2320 B	PC-TITRATE
Calculated TDS	CALCULATION	SM 1030E	CALCULATION
Hardness	CALCULATION	SM 2340B	CALCULATION
Langelier Index (@20C)	CALCULATION	CALCULATION	CALCULATION
Langelier Index (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 20C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Anion Sum	CALCULATION	SM 1030E	CALCULATION
Cation sum	CALCULATION	SM 1030E	CALCULATION
% Difference/ Ion Balance	CALCULATION	SM 1030E	CALCULATION



### Laboratory Use Only

Arrival Condition:  Good  Poor (see notes)

Arrival Temperature: 16.3, 17.2, 17.8

Hold Time: \_\_\_\_\_

AGAT Job Number: 22x916054

Notes:

cooler, ice packs

## Chain of Custody Record

P: 902.468.8718 • F: 902.468.8924

### Report Information

Company: Annapolis County

Contact: James Jenner

Address: PO BOX 100 Annapolis Royal

Nova Scotia

Phone: 902-526-0566 Fax: 902-532-2096

Client Project #: \_\_\_\_\_

AGAT Quotation: \_\_\_\_\_

Please Note: If quotation number is not provided client will be billed full price for analysis.

### Report Information (Please print):

1. Name: JAMES JENNER

Email: jjenner@annapoliscounty.ca

2. Name: John Webber

Email: jwebber@annapoliscounty.ca

### Report Format

- Single Sample per page  
 Multiple Samples per page  
 Excel Format Included  
 Export

### Regulatory Requirements (Check):

List Guidelines on Report  Do not list Guidelines on Report

PIRI

- Tier 1  Res  Pot  Coarse  
 Tier 2  Com  N/Pot  Fine  
 Gas  Fuel  Lube

CCME

CDWQ

- Industrial  NSEQS-Cont Sites  
 Commercial  HRM 101  
 Res/Park  Storm Water  
 Agricultural  Waste Water  
 FWAL  
 Sediment  Other \_\_\_\_\_

### Invoice To

Same Yes  / No

Company: \_\_\_\_\_

Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

PO/Credit Card#: \_\_\_\_\_

Drinking Water Sample:  Yes  No

Salt Water Sample  Yes  No

Reg. No.: \_\_\_\_\_

Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info. Sample Containment	Field Filtered/Preserved	Standard Water Analysis	Metals: Total   Diss   Available	Mercury	BOD - CBOD	pH	TSS   TDS   VSS	TKN	Total Phosphorus	Phenols	Tier 1: TPH/BTEX (PIRI) low level	Tier 2: TPH/BTEX Fractionation	CCME-CWS TPH/BTEX	VOC	THM	HAA	PAH	PCB	TC + EC   P/A   MPN - MF	HPC   Pseudomonas	Fecal Coliform   MPN MF	Other:	Other:	Hazardous (Y/N)	
Metering	July 4 2022 8am	water	6																✓	✓									n
Gordon Road	July 4 2022 8am	water	6																✓	✓									n
Seaman St	July 4 2022 8am	water	6																✓	✓									n
Hwy 362	July 4 2022 8am	water	6																✓	✓									n
treated	July 4 2022 8am	water	3			✓	✓																						n
raw	July 4 2022 8am	water	3			✓	✓																						n

Samples Relinquished By (Print Name)

John Webber

Date/Time

July 4 2022 8am

Samples Received By (Print Name)

Maegan Beu

Date/Time

\_\_\_\_\_

Pink Copy - Client

Yellow Copy - AGAT

White Copy - AGAT

Nº: \_\_\_\_\_

Page 1 of 1