

Manitoba Water Services Board - CRWC

ATTN: GRANT MCGORMAN Cartier Regional Water Co-op

Box 217

St. Eustache MB ROH 1HO

Date Received: 13-APR-21

Report Date: 19-APR-21 16:15 (MT)

Version: FINAL

Client Phone: 204-353-4055

Certificate of Analysis

Lab Work Order #: L2575900

Project P.O. #: NOT SUBMITTED

Job Reference: CARTIER REGIONAL - PWS 36.00

C of C Numbers:

Legal Site Desc: 28128

Craig Riddell, B.Sc.Ag Account Manager

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ANALYTICAL REPORT

L2575900 CONTD.... PAGE 2 of 7 19-APR-21 16:15 (MT)

Physical Tests (WATER)

			ALS ID	L25759	00-1	L25759	00-2		
		Sampl	ed Date	13-API	R-21	13-APF	R-21		
			ed Time	09:1	5	09:2	0		
			mple ID	CARTI		CARTIER			
Analyte	Unit	Guide Limit #1 L	Guide imit #2	REGION		REGION TREAT			
Colour, True	CU	15	-	15.9		<5.0			
Conductivity	umhos/cm	ı -	-	794		261			
Hardness (as CaCO3)	mg/L	-	-	358	HTC	72.9	HTC		
Langelier Index (4 C)	No Unit	-	-	1.2		-0.61			
Langelier Index (60 C)	No Unit	-	-	1.9		0.16			
pH	pH units	7.00-10.5	5 -	8.65		7.98			
Total Dissolved Solids	mg/L	500	-	494		135			
Transmittance, UV (254 nm)	%T/cm	-	-	72.1		95.7			
Turbidity	NTU	-	-	6.74		<0.10			

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (Pre-2003)

Anions and Nutrients (WATER)

Allions and Hatricins (WAI	-11/				
			ALS ID	L2575900-1	L2575900-2
		Sample	ed Date	13-APR-21	13-APR-21
			ed Time	09:15	09:20
			mple ID	CARTIER	CARTIER
Analyte	Unit	Guide Limit #1 L	Guide imit #2	REGIONAL 1 - RAW	REGIONAL 2 TREATED
Alkalinity, Total (as CaCO3)	mg/L	-	-	238	67.8
Ammonia, Total (as N)	mg/L	-	-	<0.010	<0.010
Bicarbonate (HCO3)	mg/L	-	-	257	82.7
Bromide (Br)	mg/L	-	-	0.050	<0.010
Carbonate (CO3)	mg/L	-	-	16.4	<0.60
Chloride (CI)	mg/L	250	-	22.7	8.03
Fluoride (F)	mg/L	-	1.5	0.137	0.382
Hydroxide (OH)	mg/L	-	-	<0.34	<0.34
Nitrate (as N)	mg/L	-	10	<0.0050	<0.0050
Nitrite (as N)	mg/L	-	1	<0.0010	<0.0010
Sulfate (SO4)	mg/L	500	-	179	46.7

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (Pre-2003)

Organic / Inorganic Carbon (WATER)

organio, morganio carson	. , ,	'		
		ALS ID	L2575900-1	L2575900-2
		Sampled Date	13-APR-21	13-APR-21
		Sampled Time	09:15	09:20
		Sample ID	CARTIER	CARTIER
Analyte	Unit	Guide Guide Limit #1 Limit #2	REGIONAL 1 - RAW	REGIONAL 2 TREATED
Dissolved Organic Carbon	mg/L		8.07	1.27
Total Organic Carbon	mg/L		8.95	1.71

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

#2: GCDWQ - Maximum Acceptable Concentrations (Pre-2003)

Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.

Analytical result for this parameter exceeds Guide Limit listed on this report.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

L2575900 CONTD.... PAGE 3 of 7 19-APR-21 16:15 (MT)

Total Metals (WATER)

			ALS ID	L2575900-1	L2575900-2	
			led Date	13-APR-21	13-APR-21	
			ed Time ample ID	09:15	09:20	
		Guide	Guide	CARTIER REGIONAL 1 -	CARTIER REGIONAL 2	
Analyte	Unit	Limit #1		RAW	TREATED	
Aluminum (AI)-Total	mg/L	0.1	2.9	0.109	<0.0030	
Antimony (Sb)-Total	mg/L	-	0.006	0.00014	<0.00010	
Arsenic (As)-Total	mg/L	-	0.01	0.00267	0.00049	
Barium (Ba)-Total	mg/L	-	2	0.0759	0.0147	
Beryllium (Be)-Total	mg/L	-	-	<0.00010	<0.00010	
Bismuth (Bi)-Total	mg/L	-	-	<0.000050	<0.000050	
Boron (B)-Total	mg/L	-	-	0.096	0.082	
Cadmium (Cd)-Total	mg/L	-	0.005	0.0000164	<0.0000050	
Calcium (Ca)-Total	mg/L	-	-	78.0	15.9	
Cesium (Cs)-Total	mg/L	-	-	0.000018	<0.000010	
Chromium (Cr)-Total	mg/L	-	0.05	0.00019	<0.00010	
Cobalt (Co)-Total	mg/L	-	-	0.00017	<0.00010	
Copper (Cu)-Total	mg/L	1	-	0.0118	0.0205	
Iron (Fe)-Total	mg/L	0.3	-	0.133	<0.010	
Lead (Pb)-Total	mg/L	-	0.005	0.000152	<0.000050	
Lithium (Li)-Total	mg/L	-	-	0.0518	0.0151	
Magnesium (Mg)-Total	mg/L	-	-	39.6	8.09	
Manganese (Mn)-Total	mg/L	0.02	0.12	0.0169	0.00036	
Molybdenum (Mo)-Total	mg/L	-	-	0.00250	0.000506	
Nickel (Ni)-Total	mg/L	-	-	0.00231	0.00051	
Phosphorus (P)-Total	mg/L	-	-	0.127	0.371	
Potassium (K)-Total	mg/L	-	-	11.2	2.96	
Rubidium (Rb)-Total	mg/L	-	-	0.00245	0.00057	
Selenium (Se)-Total	mg/L	-	0.05	0.000322	0.000063	
Silicon (Si)-Total	mg/L	-	-	5.62	1.53	
Silver (Ag)-Total	mg/L	-	-	<0.000010	<0.000010	
Sodium (Na)-Total	mg/L	200	-	45.3	27.2	
Strontium (Sr)-Total	mg/L	-	7	0.290	0.0590	
Sulfur (S)-Total	mg/L	-	-	63.6	15.7	
Tellurium (Te)-Total	mg/L	-	-	<0.00020	<0.00020	
Thallium (TI)-Total	mg/L	-	-	<0.000010	<0.000010	
Thorium (Th)-Total	mg/L	-	-	<0.00010	<0.00010	
Tin (Sn)-Total	mg/L	-	-	<0.00010	<0.00010	

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)

#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)
#2: GCDWQ - Maximum Acceptable Concentrations (Pre-2003)

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ANALYTICAL REPORT

L2575900 CONTD.... PAGE 4 of 7 19-APR-21 16:15 (MT)

Total Metals (WATER)

Total Mictals (WATER)					
			ALS ID	L2575900-1	L2575900-2
		Sampl	13-APR-21	13-APR-21	
		Sample	ed Time	09:15	09:20
		Sa	mple ID	CARTIER	CARTIER
Analyte	Unit	Guide Limit #1 I	Guide _imit #2	REGIONAL 1 - RAW	REGIONAL 2 TREATED
Titanium (Ti)-Total	mg/L	-	-	0.00363	<0.00030
Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010
Uranium (U)-Total	mg/L	-	0.02	0.00241	0.000388
Vanadium (V)-Total	mg/L	-	-	0.00123	<0.00050
Zinc (Zn)-Total	mg/L	5	-	0.0127	<0.0030
Zirconium (Zr)-Total	mg/L	-	-	0.00022	<0.00020

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021) #1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)

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Analytical result for this parameter exceeds Guide Limit listed on this report.

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L2575900 CONTD.... PAGE 5 of 7 19-APR-21 16:15 (MT)

Reference Information

Qualifiers for Individual Parameters Listed:

Qualifier Description

HTC Hardness was calculated from Total Ca and/or Mg concentrations and may be biased high (dissolved Ca/Mg results unavailable).

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

ALK-CO3CO3-CALC-WP Water Alkalinity, Carbonate CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of

water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.

ALK-HCO3HCO3-CALC-

Water

Alkalinity, Bicarbonate

CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L

ALK-OHOH-CALC-WP Water Alkalinity, Hydroxide CALCULATION

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.

water. The fraction of alkalifity contributed by frydroxide is calculated and reported as frig On-7L

ALK-TITR-WP Water Alkalinity, Total (as CaCO3) APHA 2320B

The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.

BR-L-IC-N-WP Water Bromide in Water by IC (Low Level) EPA 300.1 (mod)-LR

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

C-DOC-HTC-WP Water Dissolved Organic Carbon by APHA 5310 B-WP

Combustion

Filtered (0.45 um) sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon

is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

C-TOC-HTC-WP Water Total Organic Carbon by Combustion APHA 5310 B-WP

Sample is acidified and purged to remove inorganic carbon, then injected into a heated reaction chamber where organic carbon is oxidized to CO2 which is then transported in the carrier gas stream and measured via a non-dispersive infrared analyzer.

CL-L-IC-N-WP Water Chloride in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

COLOUR-TRUE-WP Water Colour, True APHA 2120C

Conductivity

True Colour is measured spectrophotometrically by comparison to platinum-cobalt standards using the single wavelength method (450 - 465 nm) after filtration of sample through a 0.45 um filter. Colour measurements can be highly pH dependent, and apply to the pH of the sample as

received (at time of testing), without pH adjustment. Concurrent measurement of sample pH is recommended.

Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially

APHA 2510B

fixed and chemically inert electrodes.

Water

ETL-LANGELIER-4-WP Water Langelier Index 4C Calculated

ETL-LANGELIER-60-WP Water Langelier Index 60C Calculated

F-IC-N-WP Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-WP Water Hardness Calculated APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

IONBALANCE-CALC-WP Water Ion Balance Calculation APHA 1030E

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Reference Information

L2575900 CONTD.... PAGE 6 of 7 19-APR-21 16:15 (MT)

Methods Listed (if applicable):

ALS Test Code Test Description Method Reference* Matrix

Cation and Anion Sums are the total meg/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance (as % difference) cannot be calculated accurately for waters with very low electrical conductivity (EC), and is reported as "Low EC" where EC < 100 uS/cm (umhos/cm). Ion Balance is calculated as:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

MET-T-CCMS-WP Water

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-COL-WP Water Ammonia by colour APHA 4500 NH3 F

Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium

nitroprusside and measured colourmetrically.

NO2-L-IC-N-WP Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-L-IC-N-WP Nitrate in Water by IC (Low Level)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

PH-WP Water APHA 4500H

The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode

and a reference electrode.

SO4-IC-N-WP Water Sulfate in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

TDS-WP Water Total Dissolved Solids (TDS) APHA 2540 SOLIDS C.E.

A well-mixed sample is filtered through a glass fiber filter paper. The filtrate is then evaportaed to dryness in a pre-weighed vial and dried at 180 -

2C. The increase in vial weight represents the total dissolved solids.

TURBIDITY-WP Water Turbidity APHA 2130B (modified)

Turbidity in aqueous matrices is determined by the nephelometric method.

UV-%TRANS-WP Water UV Transmittance (Calculated) **APHA 5910B**

Test method is adapted from APHA Method 5910B. A sample is filtered through a 0.45 um polyethersulfone (PES) filter and its UV Absorbance is measured in a quartz cell at 254 nm. UV Transmittance is calculated from the UV Absorbance result and reported as UV Transmittance per cm.

The analysis is carried out without pH adjustment.

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code Laboratory Location

WP ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

L2575900 CONTD.... PAGE 7 of 7 19-APR-21 16:15 (MT)

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

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Office of Drink 1007 Century S Canada R3H 0	ki <mark>ng Wate</mark> Street, Wir	er	anitoba,		L2575900-COFC					Unless otherwise requested					2	Day, rush	/ priority / priority / priority
Address: Bo Phone: (2 Email: dv	rant McG ox 217, S 204) 353- vaillant@ mcgorma	Sorman it. Eustac 4055 Perwe.ca an@erwe	the, MB; cartier	ROH 1HO wtp@crwc.ca; Owner or Opera	Contact: Address: Phone: Email:	Owner (email PDF): Robert Poirier 6000 Portage Avenu (204) 832-2555 robert.poirier@iclor cartierwtp@crwc.ca	ue, Headii ud.com; a; angela.i	meier@gov.l	4H 1E8 <u>D'</u> D <u>'</u> D' mb.ca <u>Ac</u>	WO: WO Ac WO Ph WO En	ldress: none; nail: nal Email:	Amanda 1007 Ce (204) 79 amanda Joern.M Nancy.E	ntury St 5-9614 fewing: uenster idse@ge	s ., W s@ge @ge	innir ov.m ov.m ob.ca	b.ca	
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(lab use only)	•	(lab use only)	I White . I	211612	'3.44		₩ / N			

Conservation and Climate Office of Drinking Water 1007 Century Street, Winnipeg, Manitoba, Canada R3H 0W4 Report to Operator (email PDF): Contact: Grant McGorman Address: Box 217, St. Eustache, MB R0H 1H0 Phone: (204) 353-4055 Email: dvaillant@crwc.ca; cartierwtp@crwc.ca; gmcgorman@crwc.ca					Contact:	2575900-0 Owner (email PDF): Robert Poirier 6000 Portage Avenu (204) 832-2555 robert.poirier@iclou	e, Headin	- ,,	0 <u>V</u> R4H 1E8 <u>DV</u> <u>DV</u>	Regular Service Unless otherwinail PDF copy to VO: VO Address: VO Phone: VO Email:	e: Amanda 1007 Ce (204) 79	a Fewing entury St 95-9614	s ., Wir	(i 1 D 2 D 3 D nnipe	eg, MB R	ys): / priority / priority / priority
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Please fill in this form LEGIBLY.			Sample Type:	1-Grab Sample						
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified by the Laboratory.										
For ALL other testing, please use Laborate	For ALL other testing, please use Laboratory specific forms.									
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