

**Rockyview Water Co-op**

25145 Burma Rd.  
Calgary, AB T3R 1B8

**Phone:** (403) 239-6242

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**Lab Number:** 90676

**PO Number:**

**Sample Info:** Semi Annuals  
Treated  
Campbell Drive

**Sampled By:** Jay Wray  
**Date Sampled:** 7/20/2021  
**Date Received:** 7/20/2021  
**Date Reported:** 8/13/2021

**TEST REPORT**

Analyte	Units	Result	CDW Guideline Maximum	Detection Limit
Calcium	mg/L	40.2	No Guideline	0.3
Iron	mg/L	<0.1	AO: 0.3	0.1
Magnesium	mg/L	13.1	No Guideline	0.2
Manganese	mg/L	0.07	AO: 0.02, MAC: 0.12	0.005
Potassium	mg/L	<0.6	No Guideline	0.6
Sodium	mg/L	4	AO: 200	0.6
Bicarbonates	mg/L	128	No Guideline	-
Bromides	mg/L	0.3	No Guideline	0.2
Carbonates	mg/L	0	No Guideline	-
Chlorides	mg/L	8.1	AO: 250	0.1
Fluorides	mg/L	0.07	MAC: 1.5	0.02
Nitrates as N	mg/L	0.06	MAC: 10	0.04
Nitrites as N	mg/L	<0.05	MAC: 1	0.05
NO <sub>3</sub> + NO <sub>2</sub> as N	mg/L	0.06	No Guideline	0.04
Sulfates	mg/L	30	AO: 500	0.9

Parameter	Units	Result	CDW Guideline Maximum	Detection Limit
Electrical Conductivity (at 25°C)	µS/cm	288	No Guideline	0.2
pH	pH	8.03	7.0 - 10.5	-
Hardness (as CaCO <sub>3</sub> )	mg/L	154	No Guideline	0.1
Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	105	No Guideline	3
P-Alkalinity (as CaCO <sub>3</sub> )	mg/L	0	No Guideline	-
Hydroxide (as CaCO <sub>3</sub> )	mg/L	0	No Guideline	-
Total Dissolved Solids (calculated)	mg/L	158	AO: 500	4
Sulfides as S	mg/L	<0.02	AO: 0.05	0.02
Color	TCU	<5	AO: 15	5
Ammonia Nitrogen	mg/L	1.0	No Guideline	0.9
Total Organic Carbon	mg/L	1.2	No Guideline	0.5
Bromate	mg/L	<0.0095	MAC: 0.01	0.0095
Chloramines	mg/L	0.2	No Guideline	0.1
Chlorate	mg/L	0.14	MAC: 1	0.10
Chlorite	mg/L	<0.10	MAC: 1	0.10

Sum of Cations	3.26	TDS / EC Ratio	0.55
Sum of Anions	2.95	Sodium Adsorption Ratio	0.13
Ion Balance	1.10	Saturation Index	0.28

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Trace Metals	Units	Result	CDW Guideline Maximum	Detection Limit
Boron	µg/L	<10	MAC: 5000	10
Aluminum	µg/L	355	OG: 100	4
Chromium	µg/L	<0.5	MAC: 50	0.5
Copper	µg/L	2.5	AO: 1000, MAC: 2000	0.8
Zinc	µg/L	<10	AO: 5000	10
Arsenic	µg/L	<1	MAC: 10	1
Selenium	µg/L	0.9	MAC: 50	0.5
Silver	µg/L	<0.05	No Guideline	0.05
Cadmium	µg/L	<0.016	MAC: 7	0.02
Antimony	µg/L	<1	MAC: 6	1
Barium	µg/L	<50	MAC: 2000	50
Mercury	µg/L	<0.025	MAC: 1	0.025
Lead	µg/L	<0.1	MAC: 5	0.1
Uranium	µg/L	<1	MAC: 20	1

WSH Labs (1992) Ltd. as per: \_\_\_\_\_

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**Legalities****Lab Number:** 90676

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- (1) The results above are related only to the items analyzed.
- (2) Results apply to the sample(s) as received.
- (3) Analytical determinations were performed in Calgary, AB. 3851B - 21 Street NE.
- (4) Condition of sample(s) upon receipt:  
*Acceptable*
- (5) External provider(s) of laboratory results:  
*BV Labs, AGAT*

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**References**

- (1) Accredited by CALA to ISO/IEC 17025 for specific tests.
- (2) Guidelines for Canadian Drinking Water Quality are provided courtesy of Health Canada, September 2020.  
[https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt\\_formats/pdf/pubs/water-eau/sum\\_guide-res\\_recom/summary-table-EN-2020-02-11.pdf](https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/summary-table-EN-2020-02-11.pdf)

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**Acronyms & Nomenclatures**

< denotes less than detection limit	MAC = Maximum Acceptable Concentration
> denotes greater than	OG = Operational Guidance Value
AO = Aesthetic Objective	TNTC = Too Numerous To Count (>80 colonies)
CDW = Canadian Drinking Water	

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**Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017)**

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- Alkalinity.** 2320 B. Titration Method.  
**Ammonia Nitrogen.** 4500-NH<sub>3</sub> C. Titrimetric Method.  
**Anions.** 4110 B. Ion Chromatography with Chemical Suppression of Eluent Conductivity.  
**Biochemical Oxygen Demand.** 5210 B. 5-Day BOD Test.  
**Color.** 2120 B. Visual Comparison Method.  
**Conductivity.** 2510 B. Laboratory Method.  
**Fluoride.** 4500-F<sup>-</sup> C. Ion-Selective Electrode Method.  
**Hardness.** 2340 B. Hardness by Calculation.  
**Metals.** 3125 B. Inductively Coupled Plasma / Mass Spectrometry (ICP-MS) Method.  
**Organic Carbon.** 5310 B. High-Temperature Combustion Method.  
**pH.** 4500-H<sup>+</sup> B. Electrometric Method.  
**Total Kjeldahl Nitrogen / Nitrogen (Organic).** 4500-Norg B. Macro-Kjeldahl Method.  
**Total Suspended Solids.** 2540 D. Total Suspended Solids Dried at 103-105°C.  
**Turbidity.** 2130 B. Nephelometric Method.

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**Hach Methods**

- Chemical Oxygen Demand.** Hach Method 8000.  
**Chlorine, Total & Free.** As per Hach CN66 Test Kit Instructions.  
**Coliforms, Total and E. coli. (Membrane Filtration).** Hach Method 10029.  
**Ortho-Phosphate.** Hach Method 8048.  
**Sulfides.** Hach Method 8131.  
**Tannin & Lignin.** Hach Method 8193.  
**Total Phosphate.** Hach Method 8190.