

Report Transmission Cover Page

Bill To: North Springbank Water Co-op 31173 TWP. Road 251A Calgary, AB, Canada T3Z 1E5	Project ID: S4 Q1-2021 Project Name: NSWC Project Location: LSD: P.O.:	Lot ID: 1475716 Control Number: Date Received: Feb 23, 2021 Date Reported: Mar 23, 2021 Report Number: 2606388
Attn: Barry Okabe Sampled By: Company:	Proj. Acct. code:	

Contact	Company	Address
Barry Okabe	North Springbank Water Co-op	31173 TWP. Road 251A Calgary, AB T3Z 1E5 Phone: (403) 863-9521 Fax: (403) 247-6039 Email: bgokabe@gmail.com

Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report
Email - Multiple Reports By Agreement	PDF	COA
Email - Single Report	PDF	Invoice
Email - Single Report	Standard Crosstab Without Tabs	Test Report

Contact	Company	Address
Bryce Johnson	North Springbank Water Co-op	31173 TWP. Road 251A Calgary, AB T3Z 1E5 Phone: (403) 247-1007 Fax: (403) 247-6039 Email: brycej@telus.net, nswc@live.ca

Delivery	Format	Deliverables
Email - Multiple Reports By Agreement	PDF	COR

Notes To Clients:

- Mar 18, 2021 - Report was issued to correct the total metals result on sample 1475716-1 previously reported incorrectly due to a volume error on previous report 2597110.
- Mar 18, 2021 - Sample 1475716-1; 7399234: Sample 1475716-1: the repeated result for ICP-MS total metals analysis differs significantly from the original. The cause of the difference was an incorrect dilution factor.
- Mar 23, 2021 - Report was issued to include missing Aluminum, Calcium, Iron, Magnesium, Manganese, Potassium, Silicon, Sodium and Sulfur analysis on sample 1.
Previous report 2605019.

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Analytical Report

Bill To: North Springbank Water Co-op 31173 TWP. Road 251A Calgary, AB, Canada T3Z 1E5	Project ID: S4 Q1-2021 Project Name: NSWC Project Location: LSD: P.O.:	Lot ID: 1475716 Control Number: Date Received: Feb 23, 2021 Date Reported: Mar 23, 2021 Report Number: 2606388
Attn: Barry Okabe Sampled By: Company:	Proj. Acct. code:	

Reference Number	1475716-1
Sample Date	February 23, 2021
Sample Time	08:30
Sample Location	
Sample Description	S4 / Schedule 4 / 9.3°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Inorganic Nonmetallic Parameters					
Ammonia - N	mg/L	<0.025	0.025		
Ammonium/Ammonia Preservation		Yes			
Sulfide Total	mg/L	<0.002	0.002	0.05	Below AO
Organic Carbon Total Nonpurgeable	mg/L	2.2	0.5		
Chlorine Total	mg/L	0.8	0.1		
Chlorine Free	mg/L	0.7	0.1		
Chloramine	mg/L	0.2	0.1		
Chlorate Dissolved	mg/L	<0.1	0.1	1.0	Below MAC
Chlorite Dissolved	mg/L	<0.2	0.2	1.0	Below MAC
Cyanide Dissolved	mg/L	<0.002	0.002	0.2	Below MAC
Bromate Dissolved	mg/L	<0.003	0.003	0.01	Below MAC
Hydrogen Sulfide Calculated	mg/L	<0.002			
Metals Dissolved					
Subsample		Lab Filtered			
Metals Total					
Aluminum Total	mg/L	<0.02	0.02	0.1	Below OG
Calcium Total	mg/L	27.6	0.2		
Iron Total	mg/L	<0.05	0.05	0.3	Below AO
Magnesium Total	mg/L	19.4	0.2		
Manganese Total	mg/L	0.011	0.005	0.02 AO; 0.12 MAC	Below AO
Potassium Total	mg/L	2.3	0.4		
Silicon Total	mg/L	3.31	0.05		
Sodium Total	mg/L	176	0.4	200	Below AO
Sulfur Total	mg/L	57.9	0.3		
Mercury Total	mg/L	<0.000005	0.000005	0.001	Below MAC
Antimony Total	mg/L	<0.0002	0.0002	0.006	Below MAC
Arsenic Total	mg/L	0.0006	0.0002	0.01	Below MAC
Barium Total	mg/L	0.019	0.001	2.0	Below MAC
Beryllium Total	mg/L	<0.0001	0.0001		
Bismuth Total	mg/L	<0.0005	0.0005		
Boron Total	mg/L	0.065	0.002	5.0	Below MAC
Cadmium Total	mg/L	0.00001	0.00001	0.007	Below MAC
Chromium Total	mg/L	<0.0005	0.0005	0.05	Below MAC
Cobalt Total	mg/L	<0.0001	0.0001		
Copper Total	mg/L	0.014	0.001	1 AO; 2 MAC	Below AO
Lead Total	mg/L	0.0003	0.0001	0.005	Below MAC
Lithium Total	mg/L	0.041	0.001		

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Attn: Barry Okabe Sampled By: Company:	Proj. Acct. code:	

Reference Number	1475716-1
Sample Date	February 23, 2021
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Sample Location	
Sample Description	S4 / Schedule 4 / 9.3°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Metals Total - Continued						
Molybdenum	Total	mg/L	0.005	0.001		
Nickel	Total	mg/L	<0.0005	0.0005		
Selenium	Total	mg/L	0.0004	0.0002	0.05	Below MAC
Silver	Total	mg/L	<0.00001	0.00001		
Strontium	Total	mg/L	0.418	0.001	7.0	Below MAC
Thallium	Total	mg/L	<0.00005	0.00005		
Tin	Total	mg/L	<0.001	0.001		
Titanium	Total	mg/L	<0.0005	0.0005		
Uranium	Total	mg/L	0.0015	0.0005	0.02	Below MAC
Vanadium	Total	mg/L	0.0003	0.0001		
Zinc	Total	mg/L	0.015	0.001	5.0	Below AO
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Below AO
Turbidity		NTU	0.5	0.1	0.1	Above OG
Polycyclic Aromatic Hydrocarbons - Water						
Benzo(a)pyrene		mg/L	<0.000008	0.000008	0.00004	Below MAC
Routine Water						
pH			8.22	1	7.0-10.5	Within OG Range
Temperature of observed		°C	21.5			
pH						
Electrical Conductivity	at 25 °C	µS/cm	961	1		
Calcium	Dissolved	mg/L	26.4	0.2		
Magnesium	Dissolved	mg/L	19.3	0.2		
Sodium	Dissolved	mg/L	173	0.4	200	Below AO
Potassium	Dissolved	mg/L	2.2	0.4		
Iron	Dissolved	mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved	mg/L	<0.005	0.005	0.02 AO; 0.12 MAC	Below AO
Chloride	Dissolved	mg/L	12.7	0.4	250	Below AO
Fluoride		mg/L	0.74	0.05	1.5	Below MAC
Nitrate - N		mg/L	0.74	0.01	10	Below MAC
Nitrite - N		mg/L	<0.005	0.005	1	Below MAC
Nitrate and Nitrite - N		mg/L	0.74	0.01	10	Below MAC
Sulfate (SO4)	Dissolved	mg/L	168	0.9	500	Below AO
Hydroxide		mg/L	<5			
Carbonate		mg/L	<6			
Bicarbonate		mg/L	415			
P-Alkalinity	as CaCO3	mg/L	<5	5		
T-Alkalinity	as CaCO3	mg/L	340	5		

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Reference Number	1475716-1
Sample Date	February 23, 2021
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Sample Location	
Sample Description	S4 / Schedule 4 / 9.3°C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Routine Water - Continued						
Total Dissolved Solids	Calculated	mg/L	605	1	500	Above AO
Hardness	Dissolved as CaCO3	mg/L	146.0			
Ionic Balance	Dissolved	%	98			
General Water Quality						
Microcystin-Total	ELISA	µg/L	<0.2	0.2	1.5	Below MAC
Glyphosate in Water						
Glyphosate		µg/L	<10	10	280	Below MAC
AMPA		µg/L	<10	10		
Subcontracted Analysis						
Nitritotriacetic Acid		mg/L	<0.1	0.1		
N-Nitrosodimethylamine	NDMA	µg/L	<0.001	0.001	0.04	Below MAC
Health Canada Drinking Water - Organics						
Benzene		mg/L	<0.001	0.001	0.005	Below MAC
Bromodichloromethane		mg/L	0.010	0.001		
Bromoform		mg/L	<0.001	0.001		
Carbon Tetrachloride		mg/L	<0.001	0.001	0.002	Below MAC
Chlorobenzene		mg/L	<0.001	0.001	0.03	Below AO
Chloroform		mg/L	0.013	0.001		
Dibromochloromethane		mg/L	0.006	0.001		
1,2-Dichlorobenzene		mg/L	<0.001	0.001	0.003 AO; 0.2 MAC	Below AO
1,4-Dichlorobenzene		mg/L	<0.001	0.001	0.001 AO; 0.005 MAC	Below AO
1,2-Dichloroethane		mg/L	<0.001	0.001	0.005	Below MAC
1,1-Dichloroethene		mg/L	<0.001	0.001	0.014	Below MAC
2,4 & 2,5-Dichlorophenol		mg/L	<0.0001	0.0001	0.0003 AO; 0.9 MAC	Below AO
Ethylbenzene		mg/L	<0.001	0.001	0.0016 AO; 0.14 MAC	Below AO
Methyl t-Butyl Ether		mg/L	<0.001	0.001	0.015	Below AO
Methylene Chloride		mg/L	<0.005	0.005	0.05	Below MAC
Pentachlorophenol		mg/L	<0.0001	0.0001	0.03	Below AO
Tetrachloroethene		mg/L	<0.001	0.001	0.01	Below MAC
2,3,4,6-Tetrachlorophenol		mg/L	<0.0001	0.0001	0.001	Below AO
Toluene		mg/L	<0.001	0.001	0.024 AO; 0.060 MAC	Below AO
Total Trihalomethanes		mg/L	0.029	0.001	0.1	Below MAC
Total Xylenes (m,p,o)		mg/L	<0.001	0.001	0.02 AO; 0.09 MAC	Below AO
Trichloroethene		mg/L	<0.001	0.001	0.005	Below MAC
2,4,6-Trichlorophenol		mg/L	<0.0001	0.0001	0.002	Below AO

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Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Health Canada Drinking Water - Organics - Continued					
Vinyl Chloride	mg/L	<0.002	0.002	0.002	Below MAC
Health Canada Drinking Water - Pesticides					
Aldicarb	mg/L	<0.0001	0.0001		
Aldrin	mg/L	<0.0005	0.0005		
Dieldrin	mg/L	<0.0005	0.0005		
Atrazine	mg/L	<0.0001	0.0001	0.005	Below MAC
Deethylatrazine	mg/L	<0.0001	0.0001	0.005	Below MAC
Deisopropylatrazine	mg/L	<0.0001	0.0001	0.005	Below MAC
Didealkylatrazine	mg/L	<0.0001	0.0001	0.005	Below MAC
Azinphos-methyl	mg/L	<0.0005	0.0005	0.02	Below MAC
Bendiocarb	mg/L	<0.0001	0.0001		
Bromoxynil	mg/L	<0.0001	0.0001	0.005	Below MAC
Carbaryl	mg/L	<0.0001	0.0001	0.09	Below MAC
Carbofuran	mg/L	<0.0001	0.0001	0.09	Below MAC
Chlorpyrifos	mg/L	<0.0005	0.0005	0.09	Below MAC
Cyanazine	mg/L	<0.0001	0.0001		
2,4-D	mg/L	<0.0001	0.0001	0.1	Below MAC
Diazinon	mg/L	<0.0001	0.00010	0.02	Below MAC
Dicamba	mg/L	<0.0001	0.0001	0.12	Below MAC
Diclofop-methyl	mg/L	<0.0002	0.0002	0.009	Below MAC
Dimethoate	mg/L	<0.0005	0.0005	0.02	Below MAC
Dinoseb	mg/L	<0.0001	0.0001		
Diuron	mg/L	<0.0001	0.0001	0.15	Below MAC
Malathion	mg/L	<0.0001	0.0001	0.19	Below MAC
MCPA	mg/L	<0.0001	0.0001	0.1	Below MAC
Methoxychlor	mg/L	<0.0005	0.0005		
Metolachlor	mg/L	<0.0005	0.0005	0.05	Below MAC
Metribuzin	mg/L	<0.0005	0.0005	0.08	Below MAC
Parathion	mg/L	<0.0005	0.0005		
Phorate	mg/L	<0.0005	0.0005	0.002	Below MAC
Picloram	mg/L	<0.0001	0.0001	0.19	Below MAC
Simazine	mg/L	<0.0001	0.0001	0.01	Below MAC
Terbufos	mg/L	<0.0005	0.0005	0.001	Below MAC
Triallate	mg/L	<0.0001	0.00010		
Trifluralin	mg/L	<0.0001	0.0001	0.045	Below MAC
Health Canada DW - Pesticides - Surrogate Recovery					
TPP	Surrogate	%	115	50-140	
3,5-DCBA	Surrogate	%	74	50-140	
BDMC	Surrogate	%	61	50-140	

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Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Health Canada DW - Pesticides - Surrogate Recovery - Continued					
Monuron	Surrogate	%	74	50-140	
Haloacetic Acids - Water					
Monochloroacetic Acid	µg/L	<2.0	2.0		
Monobromoacetic Acid	µg/L	<2.0	2.0		
Dichloroacetic Acid	µg/L	4.4	2.0		
Trichloroacetic Acid	µg/L	3.0	2.0		
Dibromoacetic Acid	µg/L	<2.0	2.0		
Total Haloacetic Acids (HAA5)	µg/L	7.4	10.0	80	Below MAC
2,3-Dibromopropionic acid	%	100	50-150		

Approved by: 
 Benjamin Morris, B.Sc
 Operations Manager

Methodology and Notes

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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Alkalinity - Titration Method, 2320 B	Feb 24, 2021	Element Edmonton - Roper Road
Alkalinity, pH, and EC in water	APHA	* Conductivity, 2510 B	Feb 24, 2021	Element Edmonton - Roper Road
Alkalinity, pH, and EC in water	APHA	* pH - Electrometric Method, 4500-H+ B	Feb 24, 2021	Element Edmonton - Roper Road
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	Mar 1, 2021	Element Edmonton - Roper Road
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Feb 25, 2021	Element Edmonton - Roper Road
Approval-Edmonton	APHA	Checking Correctness of Analyses, 1030 E	Mar 1, 2021	Element Edmonton - Roper Road
Bromate in Water	APHA	* Single-Column Ion Chromatography with Electronic Suppression, 4110 C	Feb 25, 2021	Element Edmonton - Roper Road
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	Feb 25, 2021	Element Edmonton - Roper Road
Chlorate and Chlorite by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Feb 24, 2021	Element Edmonton - Roper Road
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl-E	Feb 24, 2021	Element Edmonton - Roper Road
Chlorine (Free) in water	APHA	* DPD Colorimetric Method, 4500-Cl G	Feb 24, 2021	Element Edmonton - Roper Road
Chlorine (Total) in water	APHA	* DPD Colorimetric Method, 4500-Cl G	Feb 24, 2021	Element Edmonton - Roper Road
Colour (Apparent) in water	APHA	* Visual Comparison Method, 2120 B	Feb 24, 2021	Element Edmonton - Roper Road
Cyanide (Dissolved) in water	Alta. Env. Method	* Cyanide, Simple Extractable (Automated Pyridine-Barbituric Acid Colorimetric Method), 06608L	Feb 26, 2021	Element Edmonton - Roper Road
Glyphosate - Water	US EPA	* Solvent Extractable Nonvolatile Compounds by HPLC/TS/MS or UV Detection, 8321 B	Feb 25, 2021	Element Calgary
Haloacetic Acids - Water	US EPA	* Determination of Haloacetic Acids and Dalapon in drinking water by liquid-liquid microextraction, derivatization, and gas chromatography with electron capture detection, 552.3	Feb 23, 2021	Element Calgary
HCGCMS Pesticides - Water	US EPA	* OC Pesticides by Gas Chromatography, 8081B	Feb 24, 2021	Element Calgary
HCGCMS Pesticides - Water	US EPA	* OP Compounds by Gas Chromatography: Capillary Column Techniq, 8141A	Feb 24, 2021	Element Calgary
HCLCMS Pesticides - Water	USGS	* Determination of Pesticides in Water by Graphitized Carbon-Based SPE & HPLC/MS, O-2060-1	Feb 25, 2021	Element Calgary
HCVOC - Water	US EPA	* Volatile Organic Compounds by GCMS / Purge and Trap for Aqueous Samples, 8260B/5030B	Feb 24, 2021	Element Calgary

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Company:		

Method Name	Reference	Method	Date Analysis Started	Location
Mercury (Total) in water	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Feb 24, 2021	Element Edmonton - Roper Road
Mercury (Total) in water	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	Feb 24, 2021	Element Edmonton - Roper Road
Metals ICP-MS (Total) in water	APHA/USEPA	* Metals By Inductively Coupled Plasma/Mass Spectrometry, APHA 3125 B / USEPA 200.2, 200.8		Element Edmonton - Roper Road
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8		Element Edmonton - Roper Road
Metals Trace (Dissolved) in water	APHA	Hardness by Calculation, 2340 B	Feb 24, 2021	Element Edmonton - Roper Road
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	Feb 24, 2021	Element Edmonton - Roper Road
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	Feb 24, 2021	Element Edmonton - Roper Road
Microcystin in water	EnviroLogix	Microcystins Analysis in Water by ELISA Method, Catalog Number EP022	Feb 25, 2021	Element Calgary
NDMA in water	Ext. Lab	Analysis performed by external laboratory, .	Mar 15, 2021	Pacific Rim Laboratories Inc.
Nitritotriacetic acid in water	Ext. Lab	Analysis performed by external laboratory, .	Feb 25, 2021	Saskatchewan Research Council
PAH - Water	US EPA	* Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	Feb 24, 2021	Element Calgary
PCP - Water	US EPA	* Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	Feb 24, 2021	Element Calgary
Sulfide in water	APHA	* Gas Dialysis, Automated Methylene Blue Method, 4500-S2- E	Feb 26, 2021	Element Edmonton - Roper Road
Turbidity in Water	APHA	* Turbidity - Nephelometric Method, 2130 B	Feb 24, 2021	Element Edmonton - Roper Road

* Reference Method Modified

References

Alta. Env. Method	Alberta Environment Method
APHA	Standard Methods for the Examination of Water and Wastewater
APHA/USEPA	Standard Methods For Water/ Environmental Protection Agency
EnviroLogix	Envirologix QuantiPlate Kit for Microcystins
EPA	Environmental Protection Agency Test Methods - US
Ext. Lab	External Laboratory
US EPA	US Environmental Protection Agency Test Methods
USGS	U.S. Geological Survey National Water Quality Laboratory

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, Sept 2020
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants

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Guideline Comments (does not apply to private groundwater wells).
Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

Comments:

- Mar 18, 2021 - Report was issued to correct the total metals result on sample 1475716-1 previously reported incorrectly due to a volume error on previous report 2597110.
- Mar 18, 2021 - Sample 1475716-1; 7399234: Sample 1475716-1: the repeated result for ICP-MS total metals analysis differs significantly from the original. The cause of the difference was an incorrect dilution factor.
- Mar 23, 2021 - Report was issued to include missing Aluminum, Calcium, Iron, Magnesium, Manganese, Potassium, Silicon, Sodium and Sulfur analysis on sample 1.
Previous report 2605019.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

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