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Report Transmission Cover Page

Bill To:	North Springbank Water Co-op	Project ID:	Q3-2018	Lot ID:	**1290650**
	31173 TWP. Road 251A	Project Name:	NSWC	Control Number:	C107670
	Calgary, AB, Canada	Project Location:		Date Received:	Aug 10, 2018
	T3Z 1E5	LSD:		Date Reported:	Sep 7, 2018
Attn:	Bryce Johnson	P.O.:		Report Number:	2313117
Sampled By:		Proj. Acct. code:			
Company:					

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

Delivery	Format	Deliverables
Email - Merge Reports	PDF	COC / Test Report
Email - Multiple Reports By Agreement	PDF	COA
Email - Multiple Reports By Agreement	PDF	COR
Email - Single Report	PDF	Invoice
Email - Single Report	Standard Crosstab With Tabs	Test Report

Notes To Clients:

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Analytical Report

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Reference Number	1290650-1
Sample Date	August 10, 2018
Sample Time	NA
Sample Location	
Sample Description	Schedule 4 / 11.6C
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	2.1	0.5		
Chlorine	Total	mg/L	0.4	0.1		
Chlorine	Free	mg/L	0.2	0.1		
Chloramine		mg/L	0.2	0.1	3	Below MAC
Chlorate	Dissolved	mg/L	0.2	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	24.0	0.2		
Iron	Total	mg/L	<0.05	0.05	0.3	Below AO
Magnesium	Total	mg/L	17.2	0.2		
Manganese	Total	mg/L	0.005	0.005	0.05	Below AO
Potassium	Total	mg/L	2.2	0.4		
Silicon	Total	mg/L	3.32	0.05		
Sodium	Total	mg/L	185	0.4	200	Below AO
Sulfur	Total	mg/L	59.4	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	0.0004	0.0002	0.01	Below MAC
Barium	Total	mg/L	0.017	0.001	1.0	Below MAC
Beryllium	Total	mg/L	<0.0001	0.0001		
Bismuth	Total	mg/L	<0.0005	0.0005		
Boron	Total	mg/L	0.051	0.002	5.0	Below MAC
Cadmium	Total	mg/L	0.00001	0.00001	0.005	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	0.006	0.001	1.0	Below AO
Lead	Total	mg/L	0.0002	0.0001	0.01	Below MAC
Lithium	Total	mg/L	0.042	0.001		
Molybdenum	Total	mg/L	0.005	0.001		

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Sample Matrix	Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Metals Total - Continued						
Nickel	Total	mg/L	<0.0005	0.0005		
Selenium	Total	mg/L	0.0003	0.0002	0.05	Below MAC
Silver	Total	mg/L	<0.00001	0.00001		
Strontium	Total	mg/L	0.367	0.001		
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	0.0014	0.0005	0.02	Below MAC
Vanadium	Total	mg/L	0.0002	0.0001		
Zinc	Total	mg/L	0.008	0.001	5.0	Below AO
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Below AO
Turbidity		NTU	0.2	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			8.27		7.0-10.5	Within OG Range
Temperature of observed pH		°C	20.9			
Electrical Conductivity	at 25 °C	µS/cm	1000	1		
Calcium	Dissolved	mg/L	23.2	0.2		
Magnesium	Dissolved	mg/L	16.8	0.2		
Sodium	Dissolved	mg/L	183	0.4	200	Below AO
Potassium	Dissolved	mg/L	2.1	0.4		
Iron	Dissolved	mg/L	<0.01	0.01	0.3	Below AO
Manganese	Dissolved	mg/L	<0.005	0.005	0.05	Below AO
Chloride	Dissolved	mg/L	12.7	0.4	250	Below AO
Fluoride		mg/L	0.80	0.05	1.5	Below MAC
Nitrate - N		mg/L	0.56	0.01	10	Below MAC
Nitrite - N		mg/L	<0.005	0.005	1	Below MAC
Nitrate and Nitrite - N		mg/L	0.56	0.01	10	Below MAC
Sulfate (SO4)	Dissolved	mg/L	174	0.9	500	Below AO
Hydroxide		mg/L	<5			
Carbonate		mg/L	<6			
Bicarbonate		mg/L	420			
P-Alkalinity	as CaCO3	mg/L	<5.0	5		
T-Alkalinity	as CaCO3	mg/L	344	5		
Total Dissolved Solids	Calculated	mg/L	618	1	500	Above AO
Hardness	Dissolved as CaCO3	mg/L	127.0			

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Sample Description	Schedule 4 / 11.6C
Sample Matrix	Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued						
Ionic Balance	Dissolved	%	97			
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						
Nitrilotriacetic Acid		mg/L	<0.1	0.1	0.4	Below MAC
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	0.008	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	0.014	0.001		
Dibromochloromethane		mg/L	0.005	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	0.027	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
Vinyl Chloride		mg/L	<0.002	0.002	0.002	Below MAC

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Sample Time	NA
Sample Location	
Sample Description	Schedule 4 / 11.6C
Sample Matrix	Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
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	%	110	50-140		
3,5-DCBA	Surrogate	%	74	50-140		
BDMC	Surrogate	%	93	50-140		
Monuron	Surrogate	%	92	50-140		

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Reference Number	1290650-1
Sample Date	August 10, 2018
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Sample Description	Schedule 4 / 11.6C
Sample Matrix	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Haloacetic Acids - Water					
Monochloroacetic Acid	µg/L	<2.0	2.0		
Monobromoacetic Acid	µg/L	<2.0	2.0		
Dichloroacetic Acid	µg/L	4.3	2.0		
Bromochloroacetic Acid	µg/L	<2.0	2.0		
Dibromoacetic Acid	µg/L	<2.0	2.0		
Trichloroacetic Acid	µg/L	3.0	2.0		
Total Haloacetic Acids (HAA6)	µg/L	7.3	2.0	80	Below MAC

Approved by:

Murray Klutz
Senior Agronomist

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).
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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	Aug 14, 2018	Exova Edmonton
Alkalinity, pH, and EC in water	APHA	*	Conductivity, 2510 B	Aug 14, 2018	Exova Edmonton
Alkalinity, pH, and EC in water	APHA	*	pH - Electrometric Method, 4500-H+ B	Aug 14, 2018	Exova Edmonton
Ammonium-N in Water	APHA	*	Automated Phenate Method, 4500-NH3 G	Aug 14, 2018	Exova Edmonton
Anions (Routine) by Ion Chromatography	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Aug 15, 2018	Exova Edmonton
Approval-Edmonton	APHA		Checking Correctness of Analyses, 1030 E	Aug 14, 2018	Exova Edmonton
Bromate in Water	APHA	*	Single-Column Ion Chromatography with Electronic Suppression, 4110 C	Aug 14, 2018	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA		High-Temperature Combustion Method, 5310 B	Aug 14, 2018	Exova Edmonton
Chlorate and Chlorite by Ion Chromatography	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Aug 15, 2018	Exova Edmonton
Chloride in Water	APHA	*	Automated Ferricyanide Method, 4500-Cl- E	Aug 14, 2018	Exova Edmonton
Chlorine (Free) in water	APHA	*	DPD Colorimetric Method, 4500-Cl G	Aug 13, 2018	Exova Edmonton
Chlorine (Total) in water	APHA	*	DPD Colorimetric Method, 4500-Cl G	Aug 13, 2018	Exova Edmonton
Colour (Apparent) in water	APHA	*	Visual Comparison Method, 2120 B	Aug 14, 2018	Exova Edmonton
Cyanide (Dissolved) in water	Alta. Env. Method	*	Cyanide, Simple Extractable (Automated Pyridine-Barbituric Acid Colorimetric Method), 06608L	Aug 14, 2018	Exova Edmonton
Glyphosate - Water	US EPA	*	Solvent Extractable Nonvolatile Compounds by HPLC/TS/MS or UV Detection, 8321 B	Aug 18, 2018	Exova Calgary
Haloacetic Acids - Water	US EPA	*	US EPA method, 552.3	Aug 30, 2018	Eurofins Scientific - Ottawa
HCGCMS Pesticides - Water	US EPA	*	OC Pesticides by Gas Chromatography, 8081B	Aug 10, 2018	Exova Calgary
HCGCMS Pesticides - Water	US EPA	*	OP Compounds by Gas Chromatography: Capillary Column Techniq, 8141A	Aug 10, 2018	Exova Calgary
HCLCMS Pesticides - Water	USGS	*	Determination of Pesticides in Water by Graphitized Carbon-Based SPE & HPLC/MS, O-2060-1	Aug 10, 2018	Exova Calgary
HCVOC - Water	US EPA	*	Volatile Organic Compounds by GCMS / Purge and Trap for Aqueous Samples, 8260B/5030B	Aug 10, 2018	Exova Calgary
Mercury (Total) in water	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Aug 14, 2018	Exova Edmonton
Mercury (Total) in water	US EPA	*	Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	Aug 14, 2018	Exova Edmonton
Metals ICP-MS (Total) in water	APHA/USEPA	*	Metals By Inductively Coupled Plasma/Mass Spectrometry, APHA 3125 B / USEPA 200.2, 200.8	Aug 13, 2018	Exova Edmonton

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Method Name	Reference		Method	Date Analysis Started	Location
Metals ICP-MS (Total) in water	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Aug 13, 2018	Exova Edmonton
Metals Trace (Dissolved) in water	APHA		Hardness by Calculation, 2340 B	Aug 15, 2018	Exova Edmonton
Metals Trace (Dissolved) in water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	Aug 15, 2018	Exova Edmonton
Metals Trace (Total) in water	APHA	*	Inductively Coupled Plasma (ICP) Method, 3120 B	Aug 13, 2018	Exova Edmonton
Microcystin in water	EnviroLogix		Microcystins Analysis in Water by ELISA Method, Catalog Number EP022	Aug 14, 2018	Exova Calgary
NDMA in water	Ext. Lab		Analysis performed by external laboratory, .	Sep 7, 2018	Pacific Rim Laboratories Inc.
Nitrilotriacetic acid in water	Ext. Lab		Analysis performed by external laboratory, .	Aug 29, 2018	Saskatchewan Research Council
PAH - Water	US EPA	*	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	Aug 13, 2018	Exova Calgary
PCP - Water	US EPA	*	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	Aug 13, 2018	Exova Calgary
Sulfide in water	APHA	*	Gas Dialysis, Automated Methylene Blue Method, 4500-S2- E	Aug 15, 2018	Exova Edmonton
Turbidity in Water	APHA	*	Turbidity - Nephelometric Method, 2130 B	Aug 14, 2018	Exova Edmonton

** 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, February 2017
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants (does not apply to private groundwater wells). Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

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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.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.
Results relate only to samples as submitted.

Exova Testing, calibrating, advising

www.exova.com ED 120-02

Invoice to:

Company: North Springbank Water Co-OP (NSWC)
Attention: Bryce
Phone: (403) 863 7863
Cell:
Fax:
E-mail: BryceJ@telus.net
Agreement ID:
Copy of report:

Report To:

Company:
Address:
Attention:
Phone: Same
Cell:
Fax:
E-mail 1:
E-mail 2:
Copy of invoice:

Report Results

		Regulatory Requirement	
E-Mail	✓	HCDWQG	
Mail		Ab Tier 1	
Online		SPIGEC	
Fax		BCCSR	
PDF	✓	Other (list below)	
Excel	✓		
QA/QC			

Project Information

Project ID: Q3 - 2018
Project Name: NSWC
Project Location:
Legal Location:
PO/AFE#:
Proj. Acct. Code:
Quote #

Sample Custody (please print)

Sampled by:
Company:

RUSH Priority

- Emergency (contact lab for turnaround and pricing)
- Priority 1-2 working days (100% surcharge)
- Urgent 2-3 working days (50% surcharge)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Date Required: Signature:

Special Instructions/Comments (please include contact information including ph. # if different from above).

Please include guidelines & limits

This section for Lab use only

Date/Time stamp: AUG 10 AM 10:49

	Site I.D.	Sample Description	Depth start in	Depth start cm	Depth end cm	Depth end m	Date/Time Sampled	Matrix	Sampling Method
1									
2									
3	S4	Schedule 4					18108110	water	grab
4									
5		HAA							
6		Chlorate							
7		Chlorite							
8		NDMA							
9									
10									
11									
12									
13									
14									
15									

Number of Containers ↓

Enter tests above (√ relevant samples below)

Indicate in the space allotted any deficiencies by the corresponding number.

1. Indicate any samples that were not packaged well
2. Indicate any samples not received in Exova supplies
3. Indicate any samples that were not clearly labeled
4. Indicate any samples not received within the required hold time or temp.
5. Indicate any missing or extra samples
6. Indicate any samples that were received broken
7. Indicate any samples where sufficient volume was not received
8. Indicate any samples received in an inappropriate container

ED 120-02

Submission of this form acknowledges acceptance of Exova's Standard Terms and Conditions (http://www.exova.com/about/terms-and-conditions/)

Please indicate any potentially hazardous samples

Page _____ of _____ Control # C 107670

Lot: 1290650 COC

Shipping: COD Y/ N
and size of coolers
Temp. received: 11.0°C
Delivery Method:
Waybill:
Received by: KB