



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

- Deep Well, Shallow Well, Surface Water, Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection? Yes No

- Chlorination, Ultraviolet Light, Ozone, Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection? Yes No

- Chlorination, Other

If other, specify details:

Does the Drinking Water System have Filtration? Yes No

Check all boxes that apply

- Cartridge Filter(s), Carbon Filter, Sand Filtration, Reverse Osmosis, Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date? Yes No

How do you Inform the System Users of the ERCP?

- Hand Delivered, Bulletin Board, Newspaper, Utility Bill Insert, Website, Other (specify details) Radio, Social Media

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

- Hand Delivered, Bulletin Board, Newspaper, Utility Bill Insert, Website, Other (specify details)

COMPLIANCE WITH OPERATING PERMIT

List the conditions of your Operating Permit (Contact the DWO for a copy if needed):

Are you in compliance with your Operating Permit? Yes No

BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS

How many bacteriological samples were collected during this reporting period? _____

What is the minimum required sampling frequency for this system? (#samples/month) _____

Additional sampling details:

Was the minimum required sampling frequency achieved? Yes No

Comments:

Bacteriological summary attached to this report? Yes No

If no, how do the users of the system view the results?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD

Was any chemical sampling conducted during reporting period? Yes No

If no, when were the last chemical samples conducted for this system? (date) Don't know

If yes, attach a list of the chemical results

If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.

Next scheduled full chemical test (date)

Parameter	Result	Corrective Action / Treatment / Comments

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring? Yes No

If yes, check all boxes that apply:

Chlorine Turbidity Other (details)

Are the results available on request? Yes

If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.

Additional Testing & Reason for Sampling	Corrective Action Taken

WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.) Yes No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action / Treatment

OPERATIONAL PROBLEMS

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.). Yes No

If yes, complete the table below; attach additional sheets if necessary.

Incident Date	Type of Operational Problem	Corrective Action Taken

MAJOR UPGRADES/REPAIRS & EXPENSES

Were there any major upgrades/repairs or any major costs incurred during this reporting period? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

FUTURE IMPROVEMENTS

Are there any plans for future improvements? Yes No

If yes, complete the table below; attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion

<p>Click here to enter a date. DATE COMPLETED:</p>	<p>COMPLETED BY:</p>
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BURNUM WATER SYSTEM

Facility Information

Location 175 Ingram Street Duncan
Type 15 - 300 Connections

Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S1 1866 Burnham Road	18-Dec-2023	LT1	LT1
S2 1785 Empress Road	11-Dec-2023	LT1	LT1
S1 1866 Burnham Road	04-Dec-2023	LT1	LT1
S2 1785 Empress Road	27-Nov-2023	LT1	LT1
S2 1785 Empress Road	20-Nov-2023	LT1	LT1
S2 1785 Empress Road	14-Nov-2023	LT1	LT1
S1 1866 Burnham Road	07-Nov-2023	LT1	LT1
S2 1785 Empress Road	30- Oct-2023	LT1	LT1
S1 1866 Burnham Road	23- Oct-2023	LT1	LT1
S2 1785 Empress Road	16- Oct-2023	LT1	LT1
S1 1866 Burnham Road	10- Oct-2023	LT1	LT1
S2 1785 Empress Road	04- Oct-2023	LT1	LT1
S1 1866 Burnham Road	25-Sep-2023	LT1	LT1
S2 1785 Empress Road	18-Sep-2023	LT1	LT1
S1 1866 Burnham Road	11-Sep-2023	LT1	LT1
S2 1785 Empress Road	05-Sep-2023	LT1	LT1
S1 1866 Burnham Road	29-Aug-2023	LT1	LT1
S2 1785 Empress Road	22-Aug-2023	LT1	LT1
S1 1866 Burnham Road	14-Aug-2023	LT1	LT1
S2 1785 Empress Road	08-Aug-2023	LT1	LT1
S1 1866 Burnham Road	01-Aug-2023	LT1	LT1
S2 1785 Empress Road	25-Jul-2023	LT1	LT1
S1 1866 Burnham Road	18-Jul-2023	LT1	LT1
S2 1785 Empress Road	11-Jul-2023	LT1	LT1
S1 1866 Burnham Road	04-Jul-2023	LT1	LT1
S2 1785 Empress Road	27-Jun-2023	LT1	LT1
S1 1866 Burnham Road	20-Jun-2023	LT1	LT1
S2 1785 Empress Road	12-Jun-2023	LT1	LT1
S1 1866 Burnham Road	05-Jun-2023	LT1	LT1
S2 1785 Empress Road	29-May-2023	LT1	LT1
S1 1866 Burnham Road	23-May-2023	LT1	LT1
S2 1785 Empress Road	16-May-2023	LT1	LT1
S1 1866 Burnham Road	08-May-2023	LT1	LT1
S2 1785 Empress Road	01-May-2023	LT1	LT1
S1 1866 Burnham Road	25-Apr-2023	LT1	LT1
S2 1785 Empress Road	17-Apr-2023	LT1	LT1
S1 1866 Burnham Road	11-Apr-2023	LT1	LT1
S2 1785 Empress Road	03-Apr-2023	LT1	LT1
S1 1866 Burnham Road	27-Mar-2023	LT1	LT1
S2 1785 Empress Road	21-Mar-2023	LT1	LT1
S1 1866 Burnham Road	13-Mar-2023	LT1	LT1
S2 1785 Empress Road	07-Mar-2023	LT1	LT1

BURNUM WATER SYSTEM

Facility Information

Location 175 Ingram Street Duncan
Type 15 - 300 Connections

Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S1 1866 Burnham Road	01-Mar-2023	LT1	LT1
S2 1785 Empress Road	21-Feb-2023	2	LT1
S1 1866 Burnham Road	13-Feb-2023	LT1	LT1
S2 1785 Empress Road	06-Feb-2023	LT1	LT1
S1 1866 Burnham Road	31-Jan-2023	LT1	LT1
S2 1785 Empress Road	24-Jan-2023	LT1	LT1
S1 1866 Burnham Road	17-Jan-2023	LT1	LT1
S2 1785 Empress Road	10-Jan-2023	LT1	LT1
S1 1866 Burnham Road	03-Jan-2023	LT1	LT1

BURNUM

SOURCE - Well 1 and Well 2

DISTRIBUTION - S1

			<i>Sample ID</i>	NORTHGATE WELL 1 AT LOT 17 PINDER PT (WTX 40CBF)	NORTHGATE WELL 2 AT 3220 PINDER PT (WTX 40CBF)	S1-1866 BURNHAM ROAD
			<i>Sampling Date</i>	02/07/23	02/07/23	08/21/23
			<i>Sampling Time</i>	09:27 AM	09:34 AM	10:15 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result4</i>
Nitrite (N)	1		mg/L	0.0115	0.0163	<0.0050
Nitrate (N)	10		mg/L	1.58	1.06	0.055
Conductivity			uS/cm	620	470	230
pH			pH	7.98	8.05	8.06
Total Dissolved Solids		500	mg/L	370	280	150
Alkalinity (PP as CaCO3)			mg/L	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)			mg/L	280	190	83
Bicarbonate (HCO3)			mg/L	340	230	100
Carbonate (CO3)			mg/L	<1.0	<1.0	<1.0
Hydroxide (OH)			mg/L	<1.0	<1.0	<1.0
Chloride (Cl)		250	mg/L	11	11	9.3
Sulphate (SO4)		500	mg/L	35	40	15
True Colour		15	Col. Unit	<5.0	<5.0	<5.0
Nitrate plus Nitrite (N)			mg/L	1.6	1.08	0.055
Langelier Index (@ 20C)			N/A	0.485	0.361	0.026
Langelier Index (@ 4C)			N/A	0.165	0.041	-0.224
Saturation pH (@ 20C)			N/A	7.2	7.48	8.03
Saturation pH (@ 4C)			N/A	7.52	7.8	8.28
Dissolved Fluoride (F)	1.5		mg/L	<0.050	0.11	0.13
Tannins and Lignins			mg/L	<0.2	<0.2	<0.2
Turbidity	see remark	see remark	NTU	0.7	0.22	0.19
Total Hardness (CaCO3)			mg/L	320	233	82
Total Aluminum (Al)	2900		ug/L	10.4	<3.0	4

BURNUM

SOURCE - Well 1 and Well 2

DISTRIBUTION - S1

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			<i>Sampling Date</i>	02/07/23	02/07/23	08/21/23
			<i>Sampling Time</i>	09:27 AM	09:34 AM	10:15 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result4</i>
Total Antimony (Sb)	6		ug/L	1.41	<0.50	<0.50
Total Arsenic (As)	10		ug/L	0.84	2.81	9.3
Total Barium (Ba)	2000		ug/L	155	103	28.5
Total Beryllium (Be)			ug/L	<0.10	<0.10	<0.10
Total Bismuth (Bi)			ug/L	<1.0	<1.0	<1.0
Total Boron (B)	5000		ug/L	250	338	615
Total Cadmium (Cd)	7		ug/L	<0.010	0.033	<0.010
Total Chromium (Cr)	50		ug/L	<1.0	<1.0	<1.0
Total Cobalt (Co)			ug/L	<0.20	<0.20	<0.20
Total Copper (Cu)	2000	1000	ug/L	3	3.06	5.55
Total Iron (Fe)		300	ug/L	12.7	<5.0	7.8
Total Lead (Pb)	5		ug/L	0.62	0.51	0.5
Total Manganese (Mn)	120	20	ug/L	23.1	51.3	1.6
Total Molybdenum (Mo)			ug/L	<1.0	1.1	2
Total Nickel (Ni)			ug/L	1.5	<1.0	<1.0
Total Selenium (Se)	50		ug/L	0.14	0.29	0.22
Total Silicon (Si)			ug/L	10100	6420	8650
Total Silver (Ag)			ug/L	<0.020	<0.020	<0.020
Total Strontium (Sr)	7000		ug/L	1710	1120	379
Total Thallium (Tl)			ug/L	<0.010	<0.010	<0.010
Total Tin (Sn)			ug/L	<5.0	<5.0	<5.0
Total Titanium (Ti)			ug/L	<5.0	<5.0	<5.0
Total Uranium (U)	20		ug/L	<0.10	0.14	<0.10

BURNUM

SOURCE - Well 1 and Well 2

DISTRIBUTION - S1

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			<i>Sampling Date</i>	02/07/23	02/07/23	08/21/23
			<i>Sampling Time</i>	09:27 AM	09:34 AM	10:15 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result4</i>
Total Vanadium (V)			ug/L	<5.0	<5.0	<5.0
Total Zinc (Zn)		5000	ug/L	5.6	<5.0	6.2
Total Zirconium (Zr)			ug/L	<0.10	<0.10	<0.10
Total Calcium (Ca)			mg/L	101	75.9	26
Total Magnesium (Mg)			mg/L	16.5	10.7	4.16
Total Potassium (K)			mg/L	0.889	1.01	0.292
Total Sodium (Na)		200	mg/L	12.8	11.1	11.8
Total Sulphur (S)			mg/L	11.4	13.3	4.6
Total Mercury (Hg)	1		ug/L	<0.0019	<0.0019	<0.0019
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.096	0.058	0.038
Total Organic Carbon (C)			mg/L	0.87	0.62	1.3
Total Nitrogen (N)			mg/L	1.69	1.13	0.093
Total Ammonia (N)			mg/L	<0.015	0.016	<0.015
Sulphide (as H2S)		0.05	mg/L	<0.0020	<0.0020	<0.0020
Total Sulphide		0.05	mg/L	<0.0018	<0.0018	<0.0018
Total Coliforms	0		CFU/100mL	0	0	1
E. coli	0		CFU/100mL	0	0	0
Heterotrophic Plate Count			CFU/mL	<1	<1	1
Fecal Coliforms			CFU/100mL	<1	<1	0
Non-Coliform (Background)			CFU/100mL	<1	<1	<1
Iron Bacteria			CFU/mL	<25	<25	<25
Sulphate reducing bacteria			CFU/mL	<75	<75	<75
Total Trihalomethanes	100		ug/L			42

BURNUM

SOURCE - Well 1 and Well 2

DISTRIBUTION - S1

			<i>Sample ID</i>	NORTHGATE WELL 1 AT LOT 17 PINDER PT (WTX 40CBF)	NORTHGATE WELL 2 AT 3220 PINDER PT (WTX 40CBF)	S1-1866 BURNHAM ROAD
			<i>Sampling Date</i>	02/07/23	02/07/23	08/21/23
			<i>Sampling Time</i>	09:27 AM	09:34 AM	10:15 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result4</i>
Bromodichloromethane			ug/L			6.9
Bromoform			ug/L			<1.0
Dibromochloromethane			ug/L			2.9
Chloroform			ug/L			32
Dalapon			ug/L			<5.0
Monochloroacetic Acid			ug/L			<5.0
Monobromoacetic Acid			ug/L			<5.0
Dichloroacetic Acid			ug/L			8.2
Trichloroacetic Acid			ug/L			14
Bromochloroacetic Acid			ug/L			<5.0
Dibromoacetic Acid			ug/L			<5.0
Total Haloacetic Acids	80		ug/L			22

BURNUM - Arsenic
DISTRIBUTION - Reservoir

			<i>Sample ID</i>	Reservoir Outlet for Total Arsenic (WTX 3FDC3)	RESERVOIR OUTLET FOR TOTAL ARSENIC (WTX 3FDC3)
			<i>Sampling Date</i>	02/21/23	08/21/23
			<i>Sampling Time</i>	11:22 AM	10:26 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result3</i>	<i>Result5</i>
Total Arsenic (As)	10		ug/L	6.43	8.57

Additional Arsenic Sampling

			<i>Sample ID</i>	WELL 3 (WTX 32862) PRE- TREATMENT	POST- TREATMENT WELL 3 (WTX 32862)	RESERVOIR OUTLET FOR TOTAL ARSENIC (WTX 3FDC3)	BW-WELL #3 (PRE-FILTER)	BW-WELL #3 (POST-FILTER)	BW-RESERVOIR FOR TOTAL ARSENIC (WTX 3FDC3)
			<i>Sampling Date</i>	10/24/23	10/24/23	10/30/23	11/21/23	11/21/23	11/21/23
			<i>Sampling Time</i>	10:15 AM	10:18 AM	02:48 PM	02:05 PM	02:05 PM	02:20 PM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result4</i>	<i>Result6</i>	<i>Result7</i>	<i>Result8</i>
Total Arsenic (As)	10		ug/L	20.1	23.7	8.8	20.5	11.4	6.26