

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

Click here to enter a date.

DATE COMPLETED:

COMPLETED BY:

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	16-Dec-2024	LT1	LT1
S2 1785 Empress Road	16-Dec-2024	LT1	LT1
S1 1866 Burnham Road	09-Dec-2024	LT1	LT1
S2 1785 Empress Road	03-Dec-2024	LT1	LT1
S1 1866 Burnham Road	26-Nov-2024	LT1	LT1
S2 1785 Empress Road	18-Nov-2024	LT1	LT1
S1 1866 Burnham Road	12-Nov-2024	QRWRT	QRWRT
S2 1785 Empress Road	05-Nov-2024	LT1	LT1
S1 1866 Burnham Road	28-Oct-2024	LT1	LT1
S2 1785 Empress Road	21-Oct-2024	LT1	LT1
S1 1866 Burnham Road	15-Oct-2024	LT1	LT1
S2 1785 Empress Road	07-Oct-2024	LT1	LT1
S1 1866 Burnham Road	02-Oct-2024	LT1	LT1
S2 1785 Empress Road	23-Sep-2024	LT1	LT1
S1 1866 Burnham Road	17-Sep-2024	LT1	LT1
S2 1785 Empress Road	09-Sep-2024	LT1	LT1
S1 1866 Burnham Road	03-Sep-2024	LT1	LT1
S2 1785 Empress Road	26-Aug-2024	LT1	LT1
S1 1866 Burnham Road	19-Aug-2024	LT1	LT1
S2 1785 Empress Road	13-Aug-2024	LT1	LT1
S1 1866 Burnham Road	07-Aug-2024	LT1	LT1
S2 1785 Empress Road	30-Jul-2024	LT1	LT1
S1 1866 Burnham Road	23-Jul-2024	LT1	LT1
S2 1785 Empress Road	15-Jul-2024	LT1	LT1
S1 1866 Burnham Road	08-Jul-2024	LT1	LT1
S2 1785 Empress Road	02-Jul-2024	LT1	LT1
S1 1866 Burnham Road	24-Jun-2024	LT1	LT1
S2 1785 Empress Road	17-Jun-2024	QRWRT	QRWRT
S1 1866 Burnham Road	12-Jun-2024	LT1	LT1
S2 1785 Empress Road	03-Jun-2024	LT1	LT1
S1 1866 Burnham Road	28-May-2024	LT1	LT1
S2 1785 Empress Road	21-May-2024	LT1	LT1
S1 1866 Burnham Road	13-May-2024	LT1	LT1
S2 1785 Empress Road	06-May-2024	LT1	LT1
S1 1866 Burnham Road	29-Apr-2024	LT1	LT1
S2 1785 Empress Road	22-Apr-2024	LT1	LT1
S1 1866 Burnham Road	15-Apr-2024	LT1	LT1
S2 1785 Empress Road	08-Apr-2024	LT1	LT1
S1 1866 Burnham Road	02-Apr-2024	LT1	LT1
S2 1785 Empress Road	25-Mar-2024	LT1	LT1
S1 1866 Burnham Road	18-Mar-2024	LT1	LT1
S2 1785 Empress Road	11-Mar-2024	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	05-Mar-2024	LT1	LT1
S2 1785 Empress Road	26-Feb-2024	LT1	LT1
S1 1866 Burnham Road	20-Feb-2024	LT1	LT1
S2 1785 Empress Road	13-Feb-2024	LT1	LT1
S1 1866 Burnham Road	05-Feb-2024	LT1	LT1
S2 1785 Empress Road	30-Jan-2024	LT1	LT1
S1 1866 Burnham Road	23-Jan-2024	LT1	LT1
S2 1785 Empress Road	15-Jan-2024	LT1	LT1
S1 1866 Burnham Road	08-Jan-2024	LT1	LT1
S2 1785 Empress Road	02-Jan-2024	LT1	LT1

BURNUM

SOURCE - Well 1 and Well 3

DISTRIBUTION - S1

			Sample ID	WELL 3 (WTX 32862)	WELL 1 (WTX 32860)	S1-1866 BURNHAM ROAD (WTX 2F4F4)
			Sampling Date	07/11/24	07/11/24	11/27/24
			Sampling Time	11:00 AM	11:10 AM	12:45 PM
Parameter Name	MAC	AO	Units	Result	Result2	Result3
Nitrite (N)	1		mg/L	<0.0050	<0.0050	<0.0050
Nitrate (N)	10		mg/L	0.124	<0.020	0.916
Conductivity			uS/cm	330	130	320
pH			pH	8.01	9.11	7.8
Total Dissolved Solids		500	mg/L	180	90	200
Alkalinity (PP as CaCO3)			mg/L	<1.0	9.9	<1.0
Alkalinity (Total as CaCO3)			mg/L	130	42	120
Bicarbonate (HCO3)			mg/L	150	27	140
Carbonate (CO3)			mg/L	<1.0	12	<1.0
Hydroxide (OH)			mg/L	<1.0	<1.0	<1.0
Chloride (Cl)		250	mg/L	9.4	4	11
Sulphate (SO4)		500	mg/L	20	9.2	27
True Colour		15	Col. Unit	<2.0	<2.0	<2.0
Nitrate plus Nitrite (N)			mg/L	0.124	<0.020	0.916
Langelier Index (@ 20C)			N/A	0.379	-0.063	0.101
Langelier Index (@ 4C)			N/A	0.13	-0.293	-0.148
Saturation pH (@ 20C)			N/A	7.64	9.18	7.7
Saturation pH (@ 4C)			N/A	7.88	9.41	7.95
Dissolved Fluoride (F)	1.5		mg/L	0.064	0.31	0.13
Tannins and Lignins			mg/L	<0.2	<0.2	<0.2
Turbidity	see remark	see remark	NTU	0.23	0.3	0.19
Total Hardness (CaCO3)			mg/L	143	9.88	130
Total Aluminum (Al)	2900		ug/L	3.2	<6.0	<3.0
Total Antimony (Sb)	6		ug/L	0.6	<1.0	<0.50
Total Arsenic (As)	10		ug/L	19.6	5.83	8.6
Total Barium (Ba)	2000		ug/L	6.3	<2.0	22.6
Total Beryllium (Be)			ug/L	<0.10	<0.20	<0.10
Total Bismuth (Bi)			ug/L	<1.0	<2.0	<1.0
Total Boron (B)	5000		ug/L	676	1810	826
Total Cadmium (Cd)	7		ug/L	<0.010	<0.020	<0.010
Total Chromium (Cr)	50		ug/L	<1.0	<2.0	<1.0
Total Cobalt (Co)			ug/L	<0.20	<0.40	<0.20
Total Copper (Cu)	2000	1000	ug/L	2.2	<0.40	5.55
Total Iron (Fe)		300	ug/L	<5.0	<10	<5.0
Total Lead (Pb)	5		ug/L	<0.20	<0.40	0.31
Total Manganese (Mn)	120	20	ug/L	1.8	<2.0	<1.0
Total Molybdenum (Mo)			ug/L	4.2	2.2	6.1
Total Nickel (Ni)			ug/L	<1.0	<2.0	<1.0
Total Selenium (Se)	50		ug/L	0.86	0.86	0.48
Total Silicon (Si)			ug/L	11200	15500	11300
Total Silver (Ag)			ug/L	<0.020	<0.040	<0.020
Total Strontium (Sr)	7000		ug/L	388	56.6	390
Total Thallium (Tl)			ug/L	<0.010	<0.020	<0.010
Total Tin (Sn)			ug/L	<5.0	<10	<5.0
Total Titanium (Ti)			ug/L	<5.0	<10	<5.0
Total Uranium (U)	20		ug/L	0.11	<0.20	<0.10
Total Vanadium (V)			ug/L	6.2	<10	<5.0
Total Zinc (Zn)		5000	ug/L	5.2	<10	8.4

BURNUM

SOURCE - Well 1 and Well 3

DISTRIBUTION - S1

			<i>Sample ID</i>	WELL 3 (WTX 32862)	WELL 1 (WTX 32860)	S1-1866 BURNHAM ROAD (WTX 2F4F4)
			<i>Sampling Date</i>	07/11/24	07/11/24	11/27/24
			<i>Sampling Time</i>	11:00 AM	11:10 AM	12:45 PM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result3</i>
Total Zirconium (Zr)			ug/L	<0.10	<0.20	<0.10
Total Calcium (Ca)			mg/L	44.8	3.96	41.5
Total Magnesium (Mg)			mg/L	7.51	<0.10	6.32
Total Potassium (K)			mg/L	0.067	<0.10	0.243
Total Sodium (Na)		200	mg/L	8.39	23.4	13.7
Total Sulphur (S)			mg/L	6.5	<6.0	7.8
Total Mercury (Hg)	1		ug/L	<0.0019	<0.0019	<0.0019
Total Total Kjeldahl Nitrogen (Calc)			mg/L	0.032	<0.020	<0.020
Total Organic Carbon (C)			mg/L	<0.50	<0.50	<0.50
Total Nitrogen (N)			mg/L	0.156	<0.020	0.922
Total Ammonia (N)			mg/L	<0.015	<0.015	<0.015
Sulphide (as H2S)		0.05	mg/L	0.0043	0.2	0.0029
Total Sulphide		0.05	mg/L	0.004	0.19	0.0027
Total Coliforms	0		CFU/100mL	0	0	0
E. coli	0		CFU/100mL	0	0	0
Heterotrophic Plate Count			CFU/mL	<1	<1	<1.0
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			6.9
Bromodichloromethane			ug/L			2.1
Bromoform			ug/L			1.1
Dibromochloromethane			ug/L			2.3
Chloroform			ug/L			1.3
Dalapon			ug/L			<5.0
Monochloroacetic Acid			ug/L			<5.0
Monobromoacetic Acid			ug/L			<5.0
Dichloroacetic Acid			ug/L			<5.0
Trichloroacetic Acid			ug/L			<5.0
Bromochloroacetic Acid			ug/L			<5.0
Dibromoacetic Acid			ug/L			<5.0
Total Haloacetic Acids	80		ug/L			<5.0

BURNUM - Arsenic

SOURCE - Well 3 & Blended

DISTRIBUTION - Reservoir & S1

			<i>Sample ID</i>	RESERVOIR OUTLET FOR TOTAL ARSENIC (WTX 3FDC3)	RESERVOIR OUTLET FOR TOTAL ARSENIC (WTX 3FDC3)	WELL 3 (WTX 32862) PRE- FILTER	WELL 3 (WTX 32862) POST- FILTER	BLENDED WELLS (WTX46EE6)	S1-1866 BURNHAM RD (WTX2F4F4)
			<i>Sampling Date</i>	02/08/24	08/13/24	08/22/24	08/22/24	08/28/24	08/28/24
			<i>Sampling Time</i>	10:10 AM	12:35 PM	9:30 AM	9:30 AM	10:40 AM	10:50 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result</i>	<i>Result2</i>	<i>Result3</i>	<i>Result4</i>	<i>Result5</i>	<i>Result6</i>
Total Arsenic (As)	10		ug/L	6.63	11.6	27.3	24.9	4.11	6.07