

**DRINKING WATER SYSTEM ANNUAL REPORT**

**Reporting Period:** January 1<sup>st</sup> to December 31<sup>st</sup>, (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)

**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):*

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**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?**

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**WATER QUALITY STANDARDS FOR POTABLE WATER**

<b>Parameter:</b>	<b>Standard:</b>	<b>Did this system meet standard?</b>	
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, <b>and</b> 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.**

<b>Date</b>	<b>TC/100ml</b>	<b>E.coli/100ml</b>	<b>Reason</b>	<b>Corrective Action</b>

**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. <b>DATE COMPLETED:</b></p>	<p><b>COMPLETED BY:</b></p>
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# BALD MOUNTAIN WATER SYSTEM

## Facility Information

Location 175 Ingram Street Duncan  
 Type 301 - 10,000 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S3 Lot 63	19-Dec-2023	LT1	LT1
S1 Reservoir	11-Dec-2023	LT1	LT1
S4 Lot 8	11-Dec-2023	LT1	LT1
S3 Lot 63	05-Dec-2023	LT1	LT1
S1 Reservoir	27-Nov-2023	LT1	LT1
S3 Lot 63	22-Nov-2023	LT1	LT1
S1 Reservoir	15-Nov-2023	LT1	LT1
S3 Lot 63	06-Nov-2023	LT1	LT1
S4 Lot 8	31- Oct-2023	LT1	LT1
S1 Reservoir	24- Oct-2023	LT1	LT1
S2 RAW WATER 9455 Marble Bay Road	24- Oct-2023	LT1	LT1
S3 Lot 63	17- Oct-2023	LT1	LT1
S4 Lot 8	10- Oct-2023	LT1	LT1
S3 Lot 63	03- Oct-2023	LT1	LT1
S1 Reservoir	26-Sep-2023	LT1	LT1
S3 Lot 63	19-Sep-2023	LT1	LT1
S4 Lot 8	12-Sep-2023	LT1	LT1
S3 Lot 63	05-Sep-2023	LT1	LT1
S1 Reservoir	29-Aug-2023	LT1	LT1
S3 Lot 63	21-Aug-2023	LT1	LT1
S4 Lot 8	15-Aug-2023	LT1	LT1
S3 Lot 63	09-Aug-2023	LT1	LT1
S1 Reservoir	31-Jul-2023	LT1	LT1
S3 Lot 63	24-Jul-2023	LT1	LT1
S4 Lot 8	17-Jul-2023	LT1	LT1
S1 Reservoir	10-Jul-2023	LT1	LT1
S7 Lot 74, Lot 71 Marble Bay Road	10-Jul-2023	LT1	LT1
S3 Lot 63	05-Jul-2023	LT1	LT1
S7 Lot 74, Lot 71 Marble Bay Road	05-Jul-2023	LT1	LT1
S1 Reservoir	26-Jun-2023	LT1	LT1
S3 Lot 63	19-Jun-2023	QRWRT	QRWRT
S2 RAW WATER 9455 Marble Bay Road	13-Jun-2023	LT1	LT1
S4 Lot 8	13-Jun-2023	LT1	LT1
S3 Lot 63	06-Jun-2023	QRWRT	QRWRT
S1 Reservoir	30-May-2023	LT1	LT1
S3 Lot 63	24-May-2023	LT1	LT1
S1 Reservoir	16-May-2023	LT1	LT1
S3 Lot 63	08-May-2023	LT1	LT1
S4 Lot 8	02-May-2023	LT1	LT1
S1 Reservoir	24-Apr-2023	LT1	LT1
S3 Lot 63	18-Apr-2023	LT1	LT1
S4 Lot 8	11-Apr-2023	LT1	LT1
S3 Lot 63	04-Apr-2023	LT1	LT1

# BALD MOUNTAIN WATER SYSTEM

## Facility Information

Location 175 Ingram Street Duncan

Type 301 - 10,000 Connections

## Facility Sampling History

Location	Date	Total Coliform	E. Coli/Enterococci
S1 Reservoir	28-Mar-2023	QRWRT	QRWRT
S3 Lot 63	20-Mar-2023	LT1	LT1
S4 Lot 8	13-Mar-2023	LT1	LT1
S3 Lot 63	06-Mar-2023	LT1	LT1
S1 Reservoir	01-Mar-2023	LT1	LT1
S1 Reservoir	27-Feb-2023	QRWRT	QRWRT
S4 Lot 8	14-Feb-2023	LT1	LT1
S3 Lot 63	06-Feb-2023	LT1	LT1
S1 Reservoir	30-Jan-2023	LT1	LT1
S3 Lot 63	23-Jan-2023	LT1	LT1
S4 Lot 8	16-Jan-2023	LT1	LT1
S3 Lot 63	09-Jan-2023	LT1	LT1
S1 Reservoir	04-Jan-2023	LT1	LT1

# BALD MOUNTAIN WATER

SOURCE - East, Middle and West Wells

DISTRIBUTION - S3

			<b>Sample ID</b>	S5-Lot 69-Well 1 (WTX 27AC4)	S6-Lot 70-Well 2 (WTX 27AC5)	S7-Lot 71-Well 3 (WTX 27AC6)	S3-LOT 63 MARBLE BAY RD (WTX 27AC7)
			<b>Sampling Date</b>	04/12/23	04/12/23	04/12/23	04/27/23
			<b>Sampling Time</b>	09:05 AM	09:18 AM	09:42 AM	08:50 AM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>	<b>Result2</b>	<b>Result3</b>	<b>Result4</b>
Nitrite (N)	1		mg/L	<0.0050	0.0083	<0.0050	<0.0050
Nitrate (N)	10		mg/L	4.08	4.77	1.21	4.47
Conductivity			uS/cm	260	260	140	260
pH			pH	7.42	7.24	7.01	7.21
Total Dissolved Solids		500	mg/L	130	150	72	160
Alkalinity (PP as CaCO3)			mg/L	<1.0	<1.0	<1.0	<1.0
Alkalinity (Total as CaCO3)			mg/L	110	98	57	100
Bicarbonate (HCO3)			mg/L	130	120	69	130
Carbonate (CO3)			mg/L	<1.0	<1.0	<1.0	<1.0
Hydroxide (OH)			mg/L	<1.0	<1.0	<1.0	<1.0
Chloride (Cl)		250	mg/L	5.9	7.9	2.2	8.8
Sulphate (SO4)		500	mg/L	1.7	1.2	1.9	1.7
True Colour		15	Col. Unit	<5.0	<5.0	<5.0	<5.0
Nitrate plus Nitrite (N)			mg/L	4.08	4.78	1.21	4.47
Langelier Index (@ 20C)			N/A	-0.377	-0.598	-1.35	-0.632
Langelier Index (@ 4C)			N/A	-0.628	-0.849	-1.6	-0.883
Saturation pH (@ 20C)			N/A	7.8	7.84	8.36	7.84
Saturation pH (@ 4C)			N/A	8.05	8.09	8.61	8.09
Dissolved Fluoride (F)	1.5		mg/L	0.059	<0.050	<0.050	<0.050
Tannins and Lignins			mg/L	<0.2	<0.2	<0.2	<0.2
Turbidity	see remark	see remark	NTU	1.1	1.7	1.7	0.11
Total Hardness (CaCO3)			mg/L	126	120	59.7	117
Total Aluminum (Al)	2900		ug/L	<3.0	<3.0	7.1	<3.0
Total Antimony (Sb)	6		ug/L	<0.50	<0.50	<0.50	<0.50
Total Arsenic (As)	10		ug/L	<0.10	0.17	<0.10	0.13

# BALD MOUNTAIN WATER

SOURCE - East, Middle and West Wells

DISTRIBUTION - S3

			<b>Sample ID</b>	S5-Lot 69-Well 1 (WTX 27AC4)	S6-Lot 70-Well 2 (WTX 27AC5)	S7-Lot 71-Well 3 (WTX 27AC6)	S3-LOT 63 MARBLE BAY RD (WTX 27AC7)
			<b>Sampling Date</b>	04/12/23	04/12/23	04/12/23	04/27/23
			<b>Sampling Time</b>	09:05 AM	09:18 AM	09:42 AM	08:50 AM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>	<b>Result2</b>	<b>Result3</b>	<b>Result4</b>
Total Barium (Ba)	2000		ug/L	9.8	10	3.4	9.7
Total Beryllium (Be)			ug/L	<0.10	<0.10	<0.10	<0.10
Total Bismuth (Bi)			ug/L	<1.0	<1.0	<1.0	<1.0
Total Boron (B)	5000		ug/L	<50	<50	<50	<50
Total Cadmium (Cd)	7		ug/L	0.061	0.018	0.012	<0.010
Total Chromium (Cr)	50		ug/L	<1.0	<1.0	<1.0	<1.0
Total Cobalt (Co)			ug/L	<0.20	<0.20	<0.20	<0.20
Total Copper (Cu)	2000	1000	ug/L	0.39	1.12	2.14	6.94
Total Iron (Fe)		300	ug/L	230	280	267	10.7
Total Lead (Pb)	5		ug/L	4.45	0.98	<0.20	0.28
Total Manganese (Mn)	120	20	ug/L	13.4	<b>23.5</b>	15.9	3.3
Total Molybdenum (Mo)			ug/L	<1.0	<1.0	<1.0	<1.0
Total Nickel (Ni)			ug/L	<1.0	<1.0	<1.0	<1.0
Total Selenium (Se)	50		ug/L	<0.10	<0.10	<0.10	<0.10
Total Silicon (Si)			ug/L	11600	12800	10800	11800
Total Silver (Ag)			ug/L	<0.020	<0.020	<0.020	<0.020
Total Strontium (Sr)	7000		ug/L	107	102	59.1	103
Total Thallium (Tl)			ug/L	<0.010	<0.010	<0.010	<0.010
Total Tin (Sn)			ug/L	<5.0	<5.0	<5.0	<5.0
Total Titanium (Ti)			ug/L	<5.0	<5.0	<5.0	<5.0
Total Uranium (U)	20		ug/L	<0.10	<0.10	<0.10	<0.10
Total Vanadium (V)			ug/L	<5.0	<5.0	<5.0	<5.0
Total Zinc (Zn)		5000	ug/L	43.2	83.2	33.1	10.4
Total Zirconium (Zr)			ug/L	<0.10	<0.10	<0.10	<0.10
Total Calcium (Ca)			mg/L	34.2	34.4	16.2	32.5



# BALD MOUNTAIN WATER

SOURCE - East, Middle and West Wells

DISTRIBUTION - S3

			<b>Sample ID</b>	S5-Lot 69-Well 1 (WTX 27AC4)	S6-Lot 70-Well 2 (WTX 27AC5)	S7-Lot 71-Well 3 (WTX 27AC6)	S3-LOT 63 MARBLE BAY RD (WTX 27AC7)
			<b>Sampling Date</b>	04/12/23	04/12/23	04/12/23	04/27/23
			<b>Sampling Time</b>	09:05 AM	09:18 AM	09:42 AM	08:50 AM
<b>Parameter Name</b>	<b>MAC</b>	<b>AO</b>	<b>Units</b>	<b>Result</b>	<b>Result2</b>	<b>Result3</b>	<b>Result4</b>
Total Magnesium (Mg)			mg/L	9.89	8.32	4.68	8.57
Total Potassium (K)			mg/L	0.466	0.476	0.39	0.463
Total Sodium (Na)		200	mg/L	4.95	4.62	3.79	5.3
Total Sulphur (S)			mg/L	<3.0	<3.0	<3.0	<3.0
Total Mercury (Hg)	1		ug/L	<0.0019	<0.0019	<0.0019	<0.0019
Total Total Kjeldahl Nitrogen (Calc)			mg/L	<0.10	<0.20	<0.020	<0.10
Total Organic Carbon (C)			mg/L	<0.50	<0.50	<0.50	<0.50
Total Nitrogen (N)			mg/L	3.75	4.44	1.21	4.03
Total Ammonia (N)			mg/L	<0.015	<0.015	<0.015	0.016
Sulphide (as H2S)		0.05	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Total Sulphide		0.05	mg/L	<0.0018	<0.0018	<0.0018	<0.0018
Total Coliforms	0		CFU/100mL	0	0	0	0
E. coli	0		CFU/100mL	0	0	0	0
Heterotrophic Plate Count			CFU/mL	1	<1	1	<1.0
Fecal Coliforms			CFU/100mL	<1	<1	<1	0
Non-Coliform (Background)			CFU/100mL	<1	<1	<1	<1
Iron Bacteria			CFU/mL	25	<25	<25	<25
Sulphate reducing bacteria			CFU/mL	<75	<75	<75	<75

# BALD MOUNTAIN WATER

SOURCE - East, Middle and West Wells

			<i>Sample ID</i>	S6-LOT 70-WELL 2 (WTX 27AC5)	S5-LOT 69-WELL 1 (WTX 27AC4)	S7-LOT 71-WELL 3 (WTX 27AC6)	Well Middle (S6) (WTX 27AC5)	Well East End (S5) (WTX 27AC4)	Well West End (S7) (WTX 27AC6)
			<i>Sampling Date</i>	04/27/23	04/27/23	04/27/23	05/04/23	05/04/23	05/04/23
			<i>Sampling Time</i>	09:45 AM	10:00 AM	10:20 AM	09:35 AM	09:50 AM	10:05 AM
<i>Parameter Name</i>	<i>MAC</i>	<i>AO</i>	<i>Units</i>	<i>Result5</i>	<i>Result6</i>	<i>Result7</i>	<i>Result8</i>	<i>Result9</i>	<i>Result10</i>
Nitrite (N)	1		mg/L	0.0076	<0.0050	<0.0050			
Nitrate (N)	10		mg/L	4.73	3.89	1.18			
Nitrate plus Nitrite (N)			mg/L	4.73	3.89	1.18			
Total Hardness (CaCO3)			mg/L	114	112	59			
Total Aluminum (Al)	2900		ug/L	<3.0	<3.0	4.3			
Total Antimony (Sb)	6		ug/L	<0.50	<0.50	<0.50			
Total Arsenic (As)	10		ug/L	0.19	0.11	<0.10			
Total Barium (Ba)	2000		ug/L	9.9	9.1	3.5			
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	<50	<50	<50			
Total Cadmium (Cd)	7		ug/L	0.012	0.144	0.01			
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	0.84	4.66	0.95			
Total Iron (Fe)		300	ug/L	64.4	251	186			
Total Lead (Pb)	5		ug/L	0.7	<b>29.4</b>	0.74	0.8	0.99	1.12
Total Manganese (Mn)	120	20	ug/L	<b>21.2</b>	10.9	15.1			
Total Molybdenum (Mo)			ug/L	<1.0	<1.0	<1.0			
Total Nickel (Ni)			ug/L	<1.0	<1.0	<1.0			
Total Selenium (Se)	50		ug/L	<0.10	<0.10	<0.10			
Total Silicon (Si)			ug/L	12100	10900	10500			
Total Silver (Ag)			ug/L	<0.020	<0.020	<0.020			
Total Strontium (Sr)	7000		ug/L	102	98.9	59.2			
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	<0.10	<0.10			
Total Vanadium (V)			ug/L	<5.0	<5.0	<5.0			
Total Zinc (Zn)		5000	ug/L	50.2	60.1	41.5			
Total Zirconium (Zr)			ug/L	<0.10	<0.10	<0.10			
Total Calcium (Ca)			mg/L	32.2	30.4	15.9			
Total Magnesium (Mg)			mg/L	8.21	8.77	4.67			
Total Potassium (K)			mg/L	0.477	0.436	0.382			
Total Sodium (Na)		200	mg/L	4.49	4.46	3.64			
Total Sulphur (S)			mg/L	<3.0	<3.0	<3.0			
Total Mercury (Hg)	1		ug/L	<0.0019	<0.0019	<0.0019			