

Wajed Shah Regional Drinking Water Officer Office of Drinking Water Environment and Climate Change Unit B – 284 Reimer Avenue Steinbach, MB R5G 0R5

March 21, 2025

Mr. Shah,

Re: 2024 Grunthal Public Water System Report

Please find attached our annual Public Water System Report for the Community of Grunthal.

This report will be posted on our website at **www.hanovermb.ca** by March 31, 2025 and hard copies were made available from our R.M.'s office at 28 Westland Drive in Mitchell, Manitoba. We notified residents that this report is available through our Facebook page.

If you have any questions or concerns, please contact Rob Driedger.

Sincerely,

landler :

Rob Driedger, C.E.T. Manager of Engineering & Utilities Phone: 204-346-7121 E-Mail: rob.driedger@hanovermb.ca

Grunthal Public Water System Annual Report

2024

Rural Municipality of Hanover March 1, 2025

Public Water System Annual Report

LUD of Grunthal – 2024

March 1, 2025

Name of Public Water System: Grunthal Public Water System

Name of legal owner: The Rural Municipality of Hanover

Contact: Rob Driedger, C.E.T., Manager of Engineering & Utilities Phone: (204) 346-7121 E-Mail: rob.driedger@hanovermb.ca

Website: www.hanovermb.ca

Water Systems Emergency #: (204) 326-4488

Name of Operators: Barry Broesky, Utility Operator, Class II Phone: (204) 371-0484 E-Mail: barry.broesky@hanovermb.ca

> Rob Friesen, Utility Operator, Class II Phone: (204) 371-8236 E-Mail: rob.friesen@hanovermb.ca

Introduction

1. Description of Water System

- 1.1 Water Supply Source
- 1.2 Intake Structures
- 1.3 Water Treatment Process
- 1.4 Distribution System
- 1.5 Storage Reservoirs
- 1.6 Number of Connections, Population and Types of Water Users
- 1.7 Classification and Certification

2. Disinfection System in Use

- 2.1 Types of disinfection system used
- 2.2 Equipment redundancy and monitoring requirements
- 2.3 Disinfectant residual overall performance results
- 3. List of Water Quality Standards
- 4. Water System Failure and Corrective Actions
- 5. Additional Records Required
- 6. Drinking Water Safety Orders on your System and Actions Take in Response
- 7. Warnings Issued or Charges Laid on the System in Accordance with Drinking water Safety Act
- 8. Major Expenses Incurred
- 9. Future System Expansion and/or Increased Production

10. Appendix

- a. Operators Certification
- b. Testing Summary
- c. Analyses
- d. Operating License for Public Water System
- e. Monthly Disinfection Reports
- f. Incident Advisory Notification Plan

Introduction

The 2024 Annual Report for the Grunthal Public Water Systems ability to produce safe potable water and to meet Provincial regulations.

1. Description of Water System

The Grunthal Water Treatment Plant provides potable drinking water to approximately 2125 residents within the community. Treated water produced at the water plant meets all health and aesthetic objectives as set forth in the Guidelines for *Canadian Drinking Water Quality*.

1.1 Water Supply Source

The Grunthal Water Treatment Plant receives groundwater from one main drilled well as a well as a back-up well. Both wells draw from a water source at roughly 80 feet to 90 feet below the ground surface. Then main well in use at the time produces water at approximately 10 liters per second and this raw water is pumped to the water treatment plant reservoir. The raw water does contain some iron that it picks up in the rock aquifer but these metals do not pose any health concerns.

1.2 Intake Structures

Not applicable.

1.3 Water Treatment Process

As the raw water enters the water treatment plant it is immediately treated with Chlorine for disinfection along with HIB-5, which is an iron sequester which keeps any iron particles from settling out of the water causing staining in the piping. Once treated, the water is then stored in a 295.5 m³ reservoir and a 1,195.62 m³ reservoir from where it can then be distributed throughout the watermain system.

1.4 Distribution System

Treated water from the reservoir is pumped through the mains into the distribution system via three 20hp variable drive duty pumps. The duty pumps distribute the water at pressures of around 60psi through 150mm and 200mm watermains throughout the community. The watermains currently consists of either Asbestos Cement (AC) or High Density Poly pipe (HDPE) construction.

1.5 Storage Reservoirs

As indicated above the storage reservoirs include a 295.5 m³ and 1,195.62 m³ reservoir that are above ground reservoirs.

1.6 Number of Connections, Population Served and Types of Water Users

There are approximately 629 water connections with the Grunthal Menno Home and Carleton Hatcheries being the largest users to date. Estimated population use is about 2125 people.

1.7 Classification and Certification

The Grunthal Water Treatment Plant is classified as a Class 1 Water Treatment Facility and is currently operated by two utility operators with certification under the Environment Act Water and Wasterwater Facility Operators Regulation. (See Appendix A – Operator Certification)

In addition the plant is regulated under license number PWS-09-325-03 and complies with The Drinking Water Safety Act.

2. Disinfection System in Use

2.1 Type of Disinfection System Used

The Grunthal Water Treatment Plant disinfects by adding 12% sodium hypochlorite solution to the water via a chlorinator pump.

2.2 Equipment Redundancy and Monitoring Requirements

As required by the *Drinking Water Safety Act*, the Grunthal Public Water System ensures continuous disinfection as maintained at the plant by keeping stock of all spare parts required for the chlorinator. In addition, a complete spare chlorinator is kept at the plant.

Disinfectant residuals are monitored daily at the water treatment plant and periodically in the distribution system and recorded on the appropriate monitoring forms. Monthly chlorination report forms are sent to the regional Drinking Water Officer at the end of each month.

2.3 Disinfectant Residual Overall Performance Results

For 2024, the Grunthal Public Water System was compliant in the audited time period. 100 % of the Free chlorine residual measurements taken at the Grunthal WTP passed and were above the limit of 0.50 mg/L

3. List of Water Quality Standards

The Province of Manitoba has adopted a number of water quality standards from the *Guidelines for Canadian Drinking Water Quality*, developed by Health Canada. The parameters are health-based and they express the maximum acceptable concentration for a groundwater supply source. Concentration values in excess constitute a health-related issue and require corrective actions. The 2023 results for the Grunthal Public Water System are summarized in the following table.

SOURCE	PARAMETER	STANDARD	FREQUENCY	TEST RESULTS
	TC & EC*	No TC of EC	Bi-Weekly	100%
	Disinfectant	WTP (>0.5 mg/l)	Daily	100%
		Distribution (0.1 mg/l)	Bi-Weekly	100%
	Lead	0.005 mg/l	As per instructions of the Drinking Water Officer	>0.050 µg/l Raw 0.070 µg/l Treated
	Arsenic	0.01 mg/l		0.36 µg/l Raw 0.40 µg/l Treated
ĸ	Benzene	.005 mg/l		>.00050 mg/l Raw
WATE	Fluoride	1.5 mg/l		.180mg/l Raw .169 mg/l Treated
		As Nitrate: 45 mg/l		>0.0010 mg/L
GROI	Nitrate	As Nitrogen: 10 mg/l	One Raw and One Treated water sample	.0839mg/l Raw .0.0956mg/L Treated
	Trichloroethylene	0.005 mg/l	three years	<0.00050 mg/L
	Tetrachloroethylene	0.01 mg/l	,	<u><</u> 0.00050 mg/L
	Uranium	0.02 mg/l		0.737 µg/L Raw 0.793 µg/L Treated
	Ethylbenzene	<0.00050 mg/l		<0.00050 mg/L
	Manganese	20 - 120 µg/L		44.8 µg/L
	Nitrite	1 mg/L		<0.0010 mg/L
	Toluene	0.06 mg/L		<0.00050 mg/L
	Total Xylenes	0.09 mg/L		<0.00050 mg/L

*Bacterial Testing: We test the raw water (untreated well water, the treated water leaving the treatment facility and the water in the distribution system within the Town of Grunthal, every two weeks (bi-weekly) for the presence of Total Coliform (TC) and E. Coli (EC) bacteria. If these bacteria are present in the water, it is an indication that disease-causing organisms mays also be present.

4. Water System Failures and Corrective Actions in 2024

No failure to report

5. Additional Records Required

None

6. Drinking Water Safety Order on your System and Actions Taken in Response

None

7. Warnings Issues or Charges Laid on the System in Accordance with the Drinking Water Safety Act

None

8. Major Expenses Incurred in 2024

Pump rebuild for \$9,217.60

9. Future System Expansion and/or Increased Population

In 2025, there is a new residential development constructed in the NW corner of the community. Approximately 35 new lots are being constructed.

10. Appendix

- a. Operators Certification
- b. Testing Summary
- c. Analyses
- d. Operating License for Public Water System
- e. Disinfection Reports
- f. Incident Advisory Notification Plan

Appendix A

Operators Certification

Water and Wastewater Facility Operators Certification Program

This is to certify

Barry A. Broesky

has qualified as aWater TreatmentClass IIWater DistributionClass IIWastewater TreatmentClass IIWastewater CollectionClass II

Operator

in accordance with the Water and Wastewater Facility Operators Regulation under The Environment Act.

Dated at Winnipeg, Manitoba

this 7th day of

 Certificate No.:
 2009-312

 Expires:
 2025 April 7

 Operator ID:
 00107

S. Koilen

Director Manitoba Conservation and Climate

April 2020.



Water and Wastewater Facility Operators Certification Program

This is to certify

Robert J. Friesen

has qualified as a

Water Treatment	Class II
Water Distribution	Class II
Wastewater Treatment	Class II
Wastewater Collection	Class II

Operator

in accordance with the Water and Wastewater Facility Operators Regulation under The Environment Act.

Dated at Winnipeg, Manitoba

anitoba this

9th day of

December 2020.

 Certificate No.:
 2015-260

 Expires:
 2025 December 9

 Operator ID:
 02505

S Koilen

Director Manitoba Conservation and Climate

Certificate is the property of Manitoba Conservation and Climate and must be surrendered upon request.



Appendix B

Testing Summary

[Batch		1000		Sample	1.		Field Tests		Microbiological Testa		
-	Received Date	Site	Evaluation	Matrix	Sample Name	Sampling Date	Chlorine, free, field mg/L	Chlorine, total, field mg/L	Temperature, as received "C	Coliforms, Escherichia coli [E. coli] MPN/100mL	Coliforms, total MPN/100mL	
WP2400716-001(1)	10-01-2024	85.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	09-01-2024		1	15.3	<1	<1	
WP2400716-002(1)	10-01-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	09-01-2024			15.3	4	<1	
WP2400716-003(1)	10-01-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd.	09-01-2024	0.82	0.98	15.3	<1	<1	
WP2401760-001(1)	24-01-2024	36.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	23-01-2024			13.1	<1	4	
WP2401760-002(1)	24-01-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	23-01-2024			13.1	<1	<1	
WP2401760-003 (1)	24-01-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	23-01-2024	0.96	1.38	13.1	<1	<1	
WP2402947-001(1)	07-02-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	06-02-2024			12.7	<1	4	
WP2402947-002 (1)	07-02-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	06-02-2024		1	12.7	<1	<1	
WP2402947-003 (1)	07-02-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 DISTRIBUTION @ COTTONWOOD RD.	06-02-2024	0.74	0.81	12.7	<1	<1	
WP2404116-001(1)	21-02-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	20-02-2024			9.9	<1	<1	
WP2404116-002(1)	21-02-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	20-02-2024			9.9	<1	<1	
WP2404116-003 (1)	21-02-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ COTTONWOOD RD	20-02-2024	0.82	1.04	9.9	<1	<1	
WP2405409-001 (1)	06-03-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	05-03-2024			13.8	<1	4	
WP2405409-002 (1)	06-03-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	05-03-2024		l.	13.8	<1	4	
WP2405409-003 (1)	06-03-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ COTTONWOOD RD	05-03-2024	0.68	0.86	13.8	<1	<1	
WP2406581-001(1)	20-03-2024	86,00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	19-03-2024		- F	12.2	<1	<1	
WP2406581-002(1)	20-03-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	19-03-2024			12.2	<1	<1	
WP2406581-003 (1)	20-03-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ MAIN ST	19-03-2024	3.11	4.2	12.2	<1	4	
WP2407620-001(1)	03-04-2024	\$6.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	02-04-2024			15.6	<1	<1	
WP2407620-002 (1)	03-04-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	02-04-2024			15.6	<1	a	
WP2407620-003 (1)	03-04-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ COTTONWOOD DRIVE	02-04-2024	0,72	0.93	15,6	4	<1	
WP2408834-001(1)	17-04-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	16-04-2024			14.8	<1	<1	
WP2408834-002 (1)	17-04-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	16-04-2024			14.8	<1	4	
WP2408834-003 (1)	17-04-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ COTTONWOOD RD	16-04-2024	0.82	0.94	14.8	<1.	<1	
WP2410032-001(1)	01-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	30-04-2024			16.4	<1	4	
WP2410032-002(1)	01-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	30-04-2024			16.4	<1	<1	
WP2410032-003 (1)	01-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ COTTONWOOD DR	30-04-2024	0.59	0.84	16.4	<1	4	
WP2411569-001 (1)	14-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @	13-05-2024	0.90	1.11	11.3	<1	<1	
WP2411819-001(1)	15-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	14-05-2024			17.6	<1	<1	
WP2411819-002 (1)	15-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	14-05-2024			17.6	<1	<1	
WP2411819-003(1)	15-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Road	14-05-2024	0.65	0.88	17.6	<1	<1	
WP2411820-001 (1)	15-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Hanover Ag Grounds	14-05-2024	0.80	1.12	17.6	<1	<1	
WP2413606-001(1)	29-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	28-05-2024			20.8	<1	<1	
WP2413606-002(1)	29-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 + TREATED	28-05-2024			20.8	<1	4	
WP2413606-003(1)	29-05-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ COTTONWOOD RD	28-05-2024	0.48	0.65	20.8	<1	<1	
WP2420086-001(1)	20-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ RESERVOIR #1	20-08-2024			15,5	<1	<1	

r	Grunthal Duncan B				Grunthal Duncan Bact	Fie	ald Tasts	Microhiological Tests		
	Remined Date	Sito	Evaluation	Materiu	Sample Name	Samaling Date	Chloring from field mg/l	Chloring total field mg/l	Coliforms Escherichia coli (E. coli) MPN/100ml	Coliforms total MRN/100ml
D2894	13.06.2024	96 00	Mithin Limit	Water/Drinking Water		11-06-2024	Chlorine, nee, neid nig/c	Chlorine, total, neld mg/c	<1	contornis, total wirty toom.
D3884	12.06-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	11-06-2024				
03004	12.06.2024	86.00	Mithin Limit	Water/Drinking Water	CRUNTHAL 2 DISTRIBUTION @ Cottonwood Pd	11-06-2024	0.67	0.89	<1	e1
03004	25-06-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	24.06.2024	0.07	0.05	<1	<1 <1
D4822	25-06-2024	86.00	Within Limit	Water/Drinking Water		24-06-2024			<1	<1
D4022	25-06-2024	96.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 DISTRIBUTION @ Cottonwood Pd	24-06-2024	0.65	0.91	<1	<1
D6729	10.07.2024	96.00	Within Limit	Water/Drinking Water	CRUNTHAL 1 - PAW	09-07-2024	0.00	0.51	<1	<1
05720	10.07.2024	86.00	Within Limit	Water/Drinking Water		09-07-2024			<1	<1
D5728	10-07-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood 8d	09-07-2024	0.55	0.75	<1	1
D6537	24-07-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	23-07-2024	0.00	0.15	<1	<1
D6537	24-07-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	23-07-2024		-	<1	<1
D6537	24-07-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Bd	23-07-2024	0.57	0.80	<1	<1
D7392	07-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	06-08-2024	0.01	0.00	<pre>////////////////////////////////////</pre>	1
D7392	07-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	06-08-2024			<1	<1
D7392	07-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Bd	06-08-2024	1.07	1.05	<1	<1
D8465	21-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	20-08-2024	10,	1105	<1	<1
D8465	21-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	20-08-2024			<1	<1
D8465	21-08-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	20-08-2024	0.67	0.94	<1	<1
D9339	04-09-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	03-09-2024			<1	<1
D9339	04-09-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	03-09-2024			<1	<1
D9339	04-09-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	03-09-2024	0.31	0.51	<1	<1
D10226	18-09-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	17-09-2024			<1	<1
D10226	18-09-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	17-09-2024			<1	<1
D10226	18-09-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	17-09-2024	1.64	1.92	<1	<1
D10988	02-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	01-10-2024			<1	<1
D10988	02-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	01-10-2024			<1	<1
D10988	02-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	01-10-2024	1.13	1.45	<1	<1
D11656	16-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	15-10-2024			<1	<1
D11656	16-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	15-10-2024			<1	<1
D11656	16-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	15-10-2024	0.66	0.91	<1	<1
D12331	30-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	29-10-2024			<1	<1
D12331	30-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	29-10-2024			<1	<1
D12331	30-10-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	29-10-2024	0.67	0.77	<1	<1
D13015	13-11-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	12-11-2024			<1	<1
D13015	13-11-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	12-11-2024			<1	<1
D13015	13-11-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	12-11-2024	0.75	0.85	<1	<1
D13746	27-11-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	26-11-2024			<1	<1
D13746	27-11-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	26-11-2024			<1	<1
D13746	27-11-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	26-11-2024	0.63	0.86	<1	<1
D14385	11-12-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	10-12-2024			<1	<1
D14385	11-12-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	10-12-2024			<1	<1
D14385	11-12-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	10-12-2024	0.67	1.08	<1	<1
D14898	23-12-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 1 - RAW	22-12-2024			<1	<1
D14898	23-12-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 2 - TREATED	22-12-2024			<1	<1
D14898	23-12-2024	86.00	Within Limit	Water/Drinking Water	GRUNTHAL 3 - DISTRIBUTION @ Cottonwood Rd	22-12-2024	0.71	1.09	<1	<1
		- C - C								

Appendix C

Analyses

The second s	WP2320502-001 (1)	WP2320502-002 (1)	WP2320502-003 (1)	WP2320502-004 (1)
Sample		No. of The Local Design of	E.c. August	
Sample Type Name	Water/Water	Water/Water	Water/Water	Water/Water
Sampling Date	22-08-2023	22-08-2023	22-08-2023	22-08-2023
ALS ID	WP2320502-001	WP2320502-002	WP2320502-003	WP2320502-004
Anions and Nutrients	Service Musella			
Ammonia, total (as N) mg/L	0,667	0.304	0.025	
Bromide mg/L	<0.050	0.120	<0.050	
Eluoride mg/L	0.180	42,1	0.169	
Nitrate (as N) mg/L	0,0839	<0.0050	0.0956	
Nitrite (as N) mg/L	<0,0010	<0.0010	<0.0010	
Sulfate (as SO4) mg/L	45.3	35.3	45.3	
Ion Balance	ARRANGE TO S			
Anion sum med/L	8,79	8.08	8.98	
Ion balance (APHA) %	2.06	1 40	9.32	
Ion balance (cations/anions) %	104	103	104	
Organic / Inorganic Carbon			States 1	
Carbon, dissolved organic [DOC] mg/L	2,92	1.84	3.09	
Carbon, total organic [TOC] mg/L	2,52	2.00	2,43	
Absorbance UV (@ 254pm) AU(cm	0.0460	0.0390	0.0380	
Alkalinity, bicarbonate (as CaCO3) mg/L	364	308	363	
Alkalinity, carbonate (as CaCO3) mg/L	<1.0	<1.0	<1.0	
Alkalinity, hydroxide (as CaCO3) mg/L	<1.0	<1.0	<1.0	
Alkalinity, total (as CaCO3) mg/L	364	308	363	
Colour, true CU	<5.0	<5.0	<5.0	
Lonductivity µS/cm	770	728	788	
Langelier index (@ 4°C) -	0.731	382	398	
Langelier index (@ 60°C)	1.49	1.40	1.56	
pH pH units	7,91	7.92	7.99	
pH, saturation (@ 4°C) pH units	7,18	7.28	7.19	
pH, saturation (@ 60°C) pH units	6.42	6.52	16,43	
Solids, total dissolved [TDS] mg/L	457	446	472	
Turbidity NTU	3 36	93.8	91.6	
Total Metals	3.30		1.40	Contraction of the second s
Aluminum, total µg/L	<3_0	<3.0	<3.0	<3.0
Antimony, total µg/L	<0.10	<0.10	<0.10	<0,10
Arsenic, total µg/L	0.36	0.22	0.40	0.37
Barium, total µg/L	382	229	376	363
Beryllium, total µg/L	<0.020	<0.020	<0.020	<0.020
Boron, total ug/L	78	36	82	83
Cadmium, total µg/L	<0.0050	<0.0050	<0.0050	<0.0050
Calcium, total µg/L	93600	87700	92300	91500
Cesium, total µg/L	<0.010	<0.010	<0.010	<0.010
Chromium, total µg/L	<0.50	<0.50	<0.50	<0.50
Cobalt, total µg/L	0,22	<0.10	0,21	0.16
Iron, total ug/l	495	1480	370	223
Lead, total µg/L	<0.050	<0.050	0.070	723
Lithium, total µg/L				0.124
Magaasium total ug/l	17.8	11.7	17.2	0.124 17.6
Magnesium, total µg/t	17.8 40500	11.7 39600	17.2 40600	0.124 17.6 39900
Maganese, total µg/L	17.8 40500 67.8	11,7 39600 83,3	17_2 40600 44_8	0.124 17.6 39900 35.9
Magnesium, total µg/L Manganese, total µg/L Molybdenum, total µg/L	17.8 40500 67.8 0.742	11.7 39600 83.3 0.879	17.2 40600 44.8 0,739	0.124 17.6 39900 35.9 0.750
Magnesuth, total µg/L Molybdenum, total µg/L Nickel, total µg/L Phosphonis total µg/L	17.8 40500 67.8 0.742 <0.50 56	11,7 39600 83,3 0.879 <0.50 71	17.2 40600 44.8 0.739 <0.50	0.124 17.6 39900 35.9 0.750 <0.50 6:20
Magnessum, total µg/L Manganes, total µg/L Nickel, total µg/L Phosphorus, total µg/L Phosphorus, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380	11.7 39600 83.3 0.879 <0.50 71 3020	17.2 40600 44.8 0.739 <0,50 693 4250	0.124 17.6 39900 35.9 0.750 <0.50 629 4190
Marganese, total µg/L Marganese, total µg/L Nickel, total µg/L Phosphorus, total µg/L Potassium, total µg/L Rubidium, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07	11.7 39600 83.3 0.879 <0.50 71 3020 1.56	17.2 40600 44.8 0.739 <0.50 693 4250 2.02	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88
Manganese, total µg/L Manganese, total µg/L Nickel, total µg/L Phosphorus, total µg/L Potassium, total µg/L Rubidium, total µg/L Selenium, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129	11.7 39600 83.3 0.879 <0.50 71 3020 1.56 0.134	17.2 40500 44.8 (0.739 <0.50 693 4250 2.02 0.118	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.108
Marganese, total µg/L Marganese, total µg/L Molybdenum, total µg/L Nickel, total µg/L Phosphorus, total µg/L Potassium, total µg/L Rubidium, total µg/L Selenium, total µg/L Silicon, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730	11.7 39600 83,3 0.879 <0.50 71 3020 1.56 0.134 10300	17.2 40500 44.8 0.739 <0.50 693 4250 2.02 0.118 9520	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.108 9360
Marganese, total µg/L Marganese, total µg/L Molybdenum, total µg/L Nickel, total µg/L Phosphorus, total µg/L Potassium, total µg/L Selenium, total µg/L Silicon, total µg/L Siliver, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010	11.7 39600 83,3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010	17.2 40500 44.8 0.739 0.50 693 4250 2.02 0.118 9520 <0.010	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.108 9360 <0.010
Marganese, total µg/L Marganese, total µg/L Molybdenum, total µg/L Phosphorus, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Selenium, total µg/L Silicon, total µg/L Silicon, total µg/L Silver, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571	11.7 39500 83,3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269	17.2 40500 44.8 0.739 0.50 693 4250 2.02 0.118 9520 <0.010 28700 554	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.108 9360 <0.010 28100 562
Wragness, total µg/L Manganess, total µg/L Molybdenum, total µg/L Phosphorus, total µg/L Potassium, total µg/L Rubidium, total µg/L Selenium, total µg/L Silicon, total µg/L Silicon, total µg/L Sodium, total µg/L Sodium, total µg/L Sodium, total µg/L Strontium, total µg/L Strontium, total µg/L Strontum, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 15800	11.7 39600 83.3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269 12500	17.2 40500 44.8 0.739 <0,50 693 4250 2.02 0.118 9520 <0.010 28700 554 16500	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.108 9360 <0.010 28100 556 15700
Wingtressum, total µg/L Manganese, total µg/L Molybdenum, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Rubidium, total µg/L Selenium, total µg/L Silicon, total µg/L Sodium, total µg/L Sodium, total µg/L Sodium, total µg/L Strontium, total µg/L Strontium, total µg/L Sulfur, total µg/L Fullruim, total µg/L Sulfur, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.20	11.7 39600 83.3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269 12500 0.35	17.2 40500 44.8 0.739 <0,50 693 4250 2.02 0.118 9520 <0.010 28700 554 16500 <0.20	0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.108 9360 <0.010 28100 556 16700 <0.20
Wingtressum, total µg/L Manganese, total µg/L Molybdenum, total µg/L Phosphorus, total µg/L Potassium, total µg/L Rubidium, total µg/L Silkon, total µg/L Soldium, total µg/L Strontium, total µg/L Sulfur, total µg/L Tellurium, total µg/L Thallium, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.20 <0.010	11.7 39600 83.3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269 12500 0.35 <0.010	17.2 40600 44.8 0.739 <0.50 693 4250 2.02 0.118 9520 <0.010 28700 554 16500 <0.20 <0.20	0.124 0.124 17.6 39900 35.9 0.750 <0.50 629 4190 1.88 0.08 9360 <0.010 28100 556 16700 <0.20 <0.20 <0.010
Wingtressum, total µg/L Manganese, total µg/L Nickel, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Rubidium, total µg/L Selenium, total µg/L Silicon, total µg/L Sodium, total µg/L Silicon, total µg/L Sodium, total µg/L Strontium, total µg/L Strontium, total µg/L Tellurium, total µg/L Thallium, total µg/L Thallium, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 225500 571 16800 <0.20 <0.20 <0.010	11.7 39600 83.3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269 12500 0.35 <0.010 <0.35 <0.010 <0.010 <0.10	17.2 40600 44.8 0.739 <0.50 693 4250 2.02 0.118 9520 <0.010 28700 554 16500 <0.20 <0.20 <0.10 <0.10	0.124 17.6 39900 35.9 0.750 (0.50 629 4190 1.88 0.08 9360 <0.010 28100 556 16700 <0.20 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.0100 <0.01000 <0.01000 <0.01000 <0.01000 <0.01000 <0.010000 <0.010000 <0.010000 <0.010000 <0.01000000 <0.01000000 <0.01000000000000000000
Wingtressum, total µg/L Manganese, total µg/L Molybdenum, total µg/L Phosphorus, total µg/L Potassium, total µg/L Rubidium, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Sodium, total µg/L Sodium, total µg/L Sodium, total µg/L Sulfur, total µg/L Tellurium, total µg/L Thorium, total µg/L Thorium, total µg/L Tin, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.20 <0.010 <0.20 <0.010 <0.10	11.7 39600 83.3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269 12500 0.35 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.10	17.2 40500 44.8 0.739 (.50 693 4250 2.02 0.118 9520 (.0.10 28700 554 16500 (.0.20 (.0.10 (.0.10 (.0.10 (.0.10)	0.124 17.6 39900 35.9 0.750 (0.50 629 4190 1.88 0.088 9360 <0.010 28100 556 16700 <0.20 <0.010 <0.20 <0.010 <0.10 <0.10 <0.10 <0.10
Wingtressum, total µg/L Manganese, total µg/L Mickel, total µg/L Phosphorus, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Sodium, total µg/L Sodium, total µg/L Sodium, total µg/L Sulfur, total µg/L Tellurium, total µg/L Tellurium, total µg/L Thorium, total µg/L Tin, total µg/L Tin, total µg/L Tin, total µg/L Tin, total µg/L Titanium, total µg/L	17.8 40500 67.8 0.742 40.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.20 <0.010 <0.20 <0.010 <0.20 <0.10 <0.10 <0.30 <0.10	11.7 39500 83.3 0.879 <0.50 71 3020 1.56 0.134 10300 <0.010 12000 269 12500 0.35 <0.010 <0.35 <0.010 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 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Wingtressum, total µg/L Manganese, total µg/L Nickel, total µg/L Phosphorus, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Rubidium, total µg/L Silicon, total µg/L Sodium, total µg/L Sodium, total µg/L Sodium, total µg/L Strontium, total µg/L Tellurium, total µg/L Thallium, total µg/L Thallium, total µg/L Thallium, total µg/L Thallum, total µg/L Tin, total µg/L Titanium, total µg/L Tungsten, total µg/L Turasten, total µg/L Tanalum, total µg/L Tanatum, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.20 <0.010 <0.20 <0.010 <0.10 <0.30 <0.30 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 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Wingtressum, total µg/L Manganese, total µg/L Nickel, total µg/L Phosphorus, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Store total µg/L Silicon, total µg/L Sodium, total µg/L Sodium, total µg/L Store total µg/L Store total µg/L Store total µg/L Tellurium, total µg/L Thallium, total µg/L Thalium, total µg/L Titanium, total µg/L Tungsten, total µg/L Yanadium, total µg/L Zinc, total µg/L Zinc, total µg/L Zinconium, total µg/L Zinc, total µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.010 <0.010 <0.00 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 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Warganese, total µg/L Manganese, total µg/L Mickel, total µg/L Phosphorus, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Silver, total µg/L Silver, total µg/L Silver, total µg/L Sodium, total µg/L Silver, total µg/L Sodium, total µg/L Sodium, total µg/L Strontium, total µg/L Tellurium, total µg/L Tellurium, total µg/L Thorium, total µg/L Tin, total µg/L Tin, total µg/L Vanadium, total µg/L Picronium, total µg/L Vanadium, total µg/L Picronium, total µg/L Notal µg/L Sinconium, total µg/L Notal µg/L	17.8 40500 67.8 0.742 <0.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.010 <0.010 <0.010 <0.010 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 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Marganese, total µg/L Marganese, total µg/L Molybdenum, total µg/L Nickel, total µg/L Phosphorus, total µg/L Rubidium, total µg/L Selenium, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Silicon, total µg/L Tellurium, total µg/L Tellurium, total µg/L Tellurium, total µg/L Titanium, total µg/L Titanium, total µg/L Titanium, total µg/L Zirconium, total µg/L Zirconium, total µg/L Silicon, total µg/L Disromechloromethane mg/L Bromodichloromethane mg/L Dibromochloromethane mg/L Dibromochloromethane mg/L Ethylbenzene mg/L Ethylbenzene mg/L Ethylbenzene mg/L	17.8 40500 67.8 0.742 40.50 66 4380 2.07 0.129 9730 <0.010 22500 571 16800 <0.20 <0.010 <0.20 <0.010 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.20 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.10 <0.30 <0.20 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 <0.00 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Trichloroethane, 1,1,1- mg/t	<0.00050	<0.00050	
Trichloroethane, 1,1,2- mg/L	<0.00050	<0.00050	
Trichloroethylene mg/l.	<0.00050	<0.00050	
Xylene, m+p- mg/l	<0.00040	<0.00040	
Xviene, o- mg/L	<0.00030	<0.00030	
Xylenes, total mg/L	<0.00050	<0.00050	
Volatile Organic Compounds Surrogate	s	A A LOUGH AND	N/NO
Bromofluorobenzene, 4- µg/L	8.8	9.1	
Difluorobenzene, 1,4- µg/L	10.2	10.4	

Appendix D

Operating License for Public Water System



OPERATING LICENCE FOR A PUBLIC WATER SYSTEM

LICENCE NUMBER: PWS-09-325-03

THE DRINKING WATER SAFETY ACT CHAPTER D101, C.C.S.M.

WATER SYSTEM CODE: 86.00

OPERATION ID: 6700

EFFECTIVE DATE: JUNE 1, 2023

EXPIRY DATE: MAY 31, 2028

IN ACCORDANCE WITH THE DRINKING WATER SAFETY ACT, THIS OPERATING LICENCE IS ISSUED PURSUANT TO SUBSECTION 8(1) TO:

RURAL MUNICIPALITY OF HANOVER: "THE LICENSEE"

FOR THE OPERATION OF THE **GRUNTHAL PUBLIC WATER SYSTEM**, WHICH INCLUDES SECURE WELLS, TREATMENT FACILITIES, WATER STORAGE RESERVOIRS, AND DISTRIBUTION LINES, SUBJECT TO THE ATTACHED TERMS AND CONDITIONS.

THIS LICENCE DOES NOT AFFECT THE LICENSEE'S OBLIGATIONS WITH RESPECT TO COMPLIANCE WITH ALL APPLICABLE MUNICIPAL, PROVINCIAL, AND FEDERAL LEGISLATION. THIS LICENCE SUPERSEDES ALL PREVIOUS LICENCES FOR THIS PUBLIC WATER SYSTEM.

Digitally signed by Sacha Janzen Date: 2023.09.19 09:43:59 -05'00'

DATE: September 19, 2023

Sacha Janzen A/Director, Office of Drinking Water

TERMS AND CONDITIONS

1. GENERAL

- 1.1. The Licensee shall operate the public water system in accordance with all applicable requirements of The Drinking Water Safety Act and its regulations, and the requirements of this licence. In the event that specific terms and conditions of this licence imposed under the authority of subsection 8(3) of the Act exceed the general requirements of the Act and regulations, the specific requirements of this licence shall apply.
- 1.2. The Licensee shall obtain approval from the Office of Drinking Water prior to making any significant alterations to the water source, the water treatment process, the water storage facilities, or the water distribution system.
- 1.3. This licence may be amended by the director where, in the opinion of the director, an amendment is necessary and the amendment will not negatively impact the safety of water obtained from the water system, or effective environmental management.
- 1.4. The Licensee may request an amendment to this licence by submitting an amendment application to the Office of Drinking Water.
- 1.5. This licence may be suspended or cancelled by the director for any of the reasons identified in Section 11 of Manitoba Regulation 40/2007, Drinking Water Safety Regulation or due to a failure to comply with any term or condition of this licence.
- 1.6. The Licensee shall provide written notice to the Office of Drinking Water of any change in ownership of the water system within seven days of the transfer of ownership.
- 1.7. The Licensee shall provide written notice to the Office of Drinking Water of any changes in the operational status of the water system, such as a permanent cessation of service, or changing the length of service from year-round to seasonal or the opposite.
- 1.8. The director of the Office of Drinking Water, medical officer of health or drinking water officer may enter any water system facility as necessary to carry out the provisions of The Drinking Water Safety Act and its regulations.
- 1.9. The Licensee shall post a copy of the first page of this licence at the water treatment facility.
- 1.10. The Licensee shall keep a copy of this licence in its entirety at a location established by the drinking water officer and ensure all operators are familiar with its terms and conditions.
- 1.11. The Licensee shall apply for renewal of this licence at least 60 days prior to its expiry.

2. OPERATION - GENERAL

- 2.1. The Licensee shall operate all water system facilities, control systems, equipment, any reservoirs/cisterns and/or distribution lines as efficiently as possible, inspect them on a regular basis, maintain them in good working order, and ensure that the water system is protected from the risks associated with contamination.
- 2.2. The Licensee shall ensure that all chemicals and components that may come into contact with potable water are certified safe for potable water use through AWWA Standards, ANSI/NSF Standard 60 or 61, Health Canada, or other standards acceptable to the director.
- 2.3. No alternate water source shall be brought into service without the consent of the drinking water officer and the maintenance of adequate cross connection control between the alternate source and the primary source.
- 2.4. The Licensee shall follow the requirements as specified in *Operational Guideline ODW-OG-02 Seasonal Water Systems Start-up Shut-down Procedures* for any portion(s) of the distribution system that operate on a seasonal basis.
- 2.5. The Licensee shall have re-assessments of the water system infrastructure and water supply sources completed by a qualified person, who is not an employee of the water system, in accordance with assessment checklist GW by March 1, 2025, and every five years thereafter. The Licensee may instead have the assessment completed by a qualified professional engineer, who is not an employee of the water system, in accordance with terms of reference for engineering assessments.
- 2.6. The Licensee shall, upon request from the Office of Drinking Water, submit or resubmit a compliance plan, in a form satisfactory to the director, to address any noncompliance issues identified at the time.

3. OPERATION - EMERGENCIES

- 3.1. The Licensee shall ensure that disinfection is undertaken following construction, repair or maintenance activities on the water system, in accordance with applicable AWWA standards, or Manitoba Water Services Board specifications, or any other standards approved by the director. A copy of all associated test results must be kept available for review by the Office of Drinking Water for a minimum of 24 months.
- 3.2. The Licensee shall ensure that all equipment used for disinfection is maintained in effective working order and keep available for immediate use all spare parts and chemical supplies as may be necessary to ensure continuous disinfection, including a spare disinfection unit, if necessary.
- 3.3. The Licensee shall immediately notify the Office of Drinking Water of any condition that may affect the ability of the water system to produce or deliver safe drinking water including but not limited to treatment upsets or bypass conditions, contamination of the source water or treated water, a disinfection system failure, or a distribution system failure.
- 3.4. If a medical officer of health, the director of the Office of Drinking Water, or a drinking water officer issues a water advisory on the water system, the Licensee shall provide notice of the advisory to all water users in accordance with the advisory notification plan or by a method acceptable to the issuer.

PWS-09-325-03

4. WATER QUALITY/TREATMENT STANDARDS

4.1. The Licensee shall operate the water system in a manner that achieves the water quality/treatment standards specified in Table 1, as determined through the monitoring requirements specified in Table 2:

	Fubio 1: Fruibi Quality, Froutmont Otaniaurao
Parameter	Quality
i di difictei	Standard
Total caliform	Less than one total coliform bacteria detectable per 100 mL in all treated
	and distributed water
	Less than one E. coli bacteria detectable per 100 mL in all treated and
E. COII	distributed water
	A free chlorine residual of at least 0.5 mg/L in water entering the
	distribution system following a minimum contact time of 20 minutes
Chlorine Residual	
	A free chlorine residual of at least 0.1 mg/L at all times at any point in
	the water distribution system
Arsenic	Less than or equal to 0.01 mg/L
Benzene	Less than or equal to 0.005 mg/L
Ethylbenzene	Less than or equal to 0.14 mg/L
Fluoride	Less than or equal to 1.5 mg/L
	Less than or equal to 0.005 mg/L based on a sample(s) collected at a
Lead	cold water tap or other appropriate location where water may be used
	for drinking or food preparation
Manganese	Less than or equal to 0.12 mg/L
Nitrata	Less than or equal to 45 mg/L measured as nitrate (10 mg/L measured
Millale	as nitrogen)
Nitrito	Less than or equal to 3 mg/L measured as nitrite (1 mg/L measured as
INITILE	nitrogen)
Trichloroethylene	Less than or equal to 0.005 mg/L
Tetrachloroethylene	Less than or equal to 0.01 mg/L
Toluene	Less than or equal to 0.06 mg/L
Total Xylenes	Less than or equal to 0.09 mg/L
Uranium	Less than or equal to 0.02 mg/L

Table 1: Water Quality/Treatment Standards

- 4.2. If a bacteriological standard is not met, the Licensee shall immediately undertake the applicable corrective actions as listed in "Schedule A" of Manitoba Regulation 41/2007, Drinking Water Quality Standards Regulation.
- 4.3. If a microbial, chemical, radiological, or physical standard is not met, the Licensee shall immediately undertake the applicable corrective actions specified in "Schedule C" of Manitoba Regulation 41/2007, the Drinking Water Quality Standards Regulation.
- 4.4. The Licensee shall maintain in effective working order chlorination and treated water storage equipment and controls designed to achieve a minimum of 20 minutes of chlorine contact time prior to water entering the distribution system.

5. WATER QUALITY MONITORING

5.1.	The Licensee shall	ensure monitoring	is com	pleted as	set out in	Table 2.
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Table 2: Monitoring Schedule

Parameter	Monitoring Requirement
Bacteriological (total coliform and <i>E. coli</i>)	Biweekly sampling program with each set of samples consisting of one raw, one treated, and a minimum of one distribution sample Consecutive sample sets to be separated by at least 12 days
Free Chlorine (treated water)	One sample per day of water entering the distribution system following at least 20 minutes of contact time
Free Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
Total Chlorine (treated water)	One sample per day of water entering the distribution system following at least 20 minutes of contact time
Total Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
General Chemistry (parameter list provided by Office of Drinking Water)	One raw and one treated water sample once every three years
Total Metals (distribution system)	One sample taken at the same time(s) as general chemistry sampling at a mid-point in the distribution system.
Lead	As per the instructions of the drinking water officer
Manganese	Monitoring included in the general chemistry and total metals analysis
Other Parameters	As per the instructions of the drinking water officer

- 5.2. The Licensee shall ensure that an accredited laboratory, as specified in section 35 of Manitoba Regulation 40/2007 the Drinking Water Safety Regulation, undertake the following analysis required in Table 2:
 - a) bacteriological (total coliform and E. coli)
 - b) general chemistry
 - c) manganese
 - d) total metals
 - e) any other parameter required by the drinking water officer

and that all samples are collected, handled, and submitted in a manner that is satisfactory to the accredited laboratory.

- 5.3. The Licensee shall ensure that parameters listed in Table 2 but not specified in clause 5.2 are measured utilizing certified water quality monitoring equipment and methods approved by the latest edition of *Standard Methods for the Examination of Water and Wastewater* published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation.
- 5.4. The Licensee shall ensure that raw water samples are taken on an alternating basis in instances where more than one water supply source is used.
- 5.5. The Licensee shall ensure that all water quality monitoring equipment is properly maintained and calibrated by a qualified person according to manufacturer recommendations and that records are maintained to that effect.

5.6. The Licensee shall ensure that sampling within the distribution system takes place at varied locations acceptable to the drinking water officer.

6. RECORD-KEEPING AND REPORTING

- 6.1. The Licensee shall maintain in a secure location all construction drawings for the life of the water system components.
- 6.2. The Licensee shall retain in chronological order for a minimum of 24 months all information specified in subsection 34(2) of Manitoba Regulation 40/2007, Drinking Water Safety Regulation.
- 6.3. The Licensee shall ensure the information identified in clause 6.2 is available for inspection by any member of the public during normal business hours at the office of the water supplier or at a location convenient to the users of the system.
- 6.4. The Licensee shall record disinfectant residual measurements on the monthly disinfection report or other forms satisfactory to the director.
- 6.5. The Licensee shall keep one copy of all monthly report forms required in this licence, and forward the original copy to the drinking water officer within seven days after the end of each calendar month.
- 6.6. The Licensee shall record all distribution system measurements specified in *Table 2: Monitoring Schedule* on the chain of custody form (laboratory submission form) which accompanies the bacteriological sample bottles to the laboratory.
- 6.7. The Licensee shall ensure that water metering devices at the water treatment plant or storage reservoir are maintained in good working order and that flow meter readings are recorded on a daily basis and such records are made available for inspection by a drinking water officer.
- 6.8. The Licensee shall submit an annual report to the director by March 31st of each year on the operation of the water system in the immediately preceding calendar year. The report shall include the information as set out in subsection 32(2) of Manitoba Regulation 40/2007, Drinking Water Safety Regulation.
- 6.9. The Licensee shall inform the public, in a form satisfactory to the director, when an annual report has been prepared and identify how a free copy can be obtained.
- 6.10. The Licensee shall make a copy of each annual report available to the public at no charge on an internet website within two weeks of the issuance of the report, unless otherwise approved by the director. The annual report shall remain available to the public for at least one year.
- 6.11. The Licensee shall maintain and submit an advisory notification plan to the drinking water officer by May 1st of each year. The plan must include a detailed description of communication tools and methods to be used to notify the public of a drinking water emergency, considering key contacts, fan-outs, critical customers, susceptible or difficult-to-reach sub-groups, and template notices where applicable.

Appendix E

Disinfection Reports



Water System Name: GRENTHAL	Water System Code: <u>86.0</u>
Month: JANUART Year: 2024 Type of Mea	asurement Device: <u>Electrication</u>
Operator-in-charge (Print): <u>Bankt Brochur</u>	Other Operators (Print): Rog FRIEDEN
Daily Consumption Units:	STEPH Douse
Flow Meter for Daily Consumption: (circle choice) Ray (Tracted)	No Motoring

on: (circle choice) Raw Treated No Metering

Date	Time	Initiale	Residua	ls (mg/L)	Daily	
Date	Tutte	initials	Free	Total	Consumption	
1	9:ec	B.B.	0.87	1.27	854	
2	7:45	K.B	0.85	1.2.2	850	
3	7:45	R.B.	0.73	1.08	925	
4	8.00	B.B.	0.88	1.30	963	
5	800	B.B.	0.78	1.15	905	
6	8.00	8.B.	0.75	1.14	871	
7	10.30	R.B.	0.83	1.19	495	
8	8:00	RF.	0,87	1.15	928	
9	7:00	RIF.	0.84	1.28	912	
10	8.00	R.F.	1.08	1.46	944	
11	\$'30	R.F.	0.92	1.28	915	
12	8:30	RIF	0.87	1.19	949	
13	8:30	RIK,	0.81	1.13	896	
14	1- 00	R.F.	0.89	1.38	1075	
15	9:00	R.C.	099	1.04	793	
16	8:30	RIF	1.00	1.30	890	

Date	Time	Initiala	Residua	s (mg/L)	Daily	
Date	Time	muais	Free	Total	Consumption	
17	6.00	RIF	0.82	1.17	816	
18	7:00	R.F.	091	1.27	960	
19	7:00	RF	9.96	1.34	926	
20	815	R.R.	1.05	1.41	952	
21	10:30	88.	1.29	1.57	1047	
22	7:30	B.R.	1.08	1.53	815	
23	8.00	88	0.66	1.01	970	
24	7:30	RA	0.91	1.28	909	
25	8.00	RIL	1.517	1.62	1007	
26	8:00	RIF.	1.36	1.47	957	
27	9:30	R.F.	0.95	1.35	1067	
28	9:45	RIF.	1.19	1.64	1031	
29	8:00	8.8	1.10	1.49	911	
30	8:00	BB.	0.91	1.37	991	
31	7:45	88	1.06	1.41	980	
		28,914				

Residuals at Distribution Sample Locations

Date	Time	Initiale	Lonation	Residua	Residuals (mg/L)	
	Time	Initials	Location	Free	Free Total	
9	9:00	RIF	Corbin which find	0.82	0.98	
23	9:15	B.B.	Correnwood Ro.	0.96	1.38	

Submitted by (Print): BARRY BROENINY Signature:



Water System Name: GRUNTHAL	Water System Code: &	
Month: FEBRUARY Year: 2024 Type of	Measurement Device: <u>ELEOTRONIC</u>	_
Operator-in-charge (Print): <u>BARKY BREENLY</u>	Other Operators (Print): Other Operators (Print):	
Daily Consumption Units:3	LEPH DUVAL	

Flow Meter for Daily Consumption: (circle choice) Raw Treated No Metering

Data	Time	Initiala	Residual	s (mg/L)	Daily	
Date	Time	muais	Free	Total	Consumption	
1	7:45	88	1.11	1.45	1016	
2	8:30	BB	0.90	1.28	1044	
3	8 20	RB.	0.80	1.17	956	
4	9:30	8.8.	28.0	1.23	1090	
5	7.00	R.F.	0.63	0.86	์สีเว	
6	7.30	R.F	0 69	0.88	1040	
7	8:30	R.F.	0.51	065	1096	
8	7:30	R.F.	0.63	0.74	1006	
9	7:30	RIF	0 81	0 90	1063	
10	9:30	R.K	1.02	135	1138	
11	6:30	ROF	0.53	0.65	886	
12	800	88	0.64	0.94	1677	
13	8:00	8.8.	0.52	0.95	818	
14	Stee	B.B.	0.70	1.05	795	
15	8:00	8.8.	0.74	1.12	793	
16	8:30	B.B.	0.75	1.13	825	

Dete	Time	Time		s (mg/L)	Daily	
Date	Ime	Initials	Free	Total	Consumption	
17	8.00	B.B.	0.76	1.12	764	
18	9.45	8 B.	0.76	1.13	880	
19	7:30	R.B.	0.76	1.15	695	
20	7:30	R.R.	0.84	1.20	8/4	
21	7:30	R.F.	0.67	0.81	\$15	
22	8:00	R.F.	0.92	109	821	
23	7.00	RIF.	0.81	1.14	800	
24	9:00	R.F.	0.70	0.98	875	
25	6 30	R.F.	0.81	1.13	729	
26	8:00	5.0	0.66	1.05	846	
27	8:15	5.D.	0.7	1.03	826	
28	8:15	5.D.	0.61	1.07	812	
29	8:00	8.8	0.71	1.10	FEET 814	
30						
31						
		Total	Monthly Cor	nsumption	25.262	

Residuals at Distribution Sample Locations

Deta	Time	Initials	Lasatian	Residual	s (mg/L)
Date	IIme	Initials	Location	Free	Total
06	9!30	R.F.	Cuttonness R.I.	0,74	0.81
20	9:3c	R.F	Cottonioni RJ.	0.82	1.04
			1000		

Submitted by (Print): BARRY BROESKI Signature:



Water System Name: GRONTHAL	Water System Code: <u>86.0</u>
Month: <u>Maren</u> Year: <u>2024</u> Type of Mea	surement Device: ELECTRONIC
Operator-in-charge (Print): <u>BARRY BROGNLY</u>	Other Operators (Print): Kos FRIEGEN
Daily Consumption Units:	LIEPH DUOL

Flow Meter for Daily Consumption: (circle choice) Raw Treated No Metering

Dete	Time	Initiala	Residual	s (mg/L)	Daily
Date	Time	initials	Free	Total	Consumption
1	8:00	B.B.	0.80	1.12	831
2	Sice	R.R.	0.72	1.10	782
3	10 00	RR	0.76	1.14	864
4	2:00	R.R	0.83	1.16	-715-
5	7:30	R.F.	0.76	1.08	813
6	7:30	R.F.	0.57	0.42	797
7	7:30	RF	6.71	1.11	794
8	7:30	R.F.	0.81	1.29	795
9	1:15	R.F.	1.01	1,301	869
10	12:00	RIF	1.01	1.21	8417
11	815	B.B.	0.89	1.28	672
12	7:45	BB	0.86	1.25	787
13	7.45	88.	0.94	1.21	821
14	8:00	BB.	0.85	1.24	814
15	8:00	B.B.	0.87	1.26	828
16	8:00	BB.	0.87	1.24	805

D -4-	These		Residual	Daily	
Date	Time	Initials	Free	Total	Consumption
17	10 00	8.8	0.90	1.30	915
18	7.30	R.F.	045	1.31	730
19	7.30	R.F	0.93	1.27	820
20	8:00	R.F.	0.86	LH	855
21	8:00	R.F.	0.912	1.12	820
22	8:00	RF	0.98	1,30	824
23	91:30	R.F.	0.94	1.23	859
24	12:15	RIF	0.96	1.26	908
25	9:00	R.C.	0.98	1.19	688
26	9.00	R.F.	1 121	1.41	849
27	6:00	RIF	1.37	1.78	731
28	8:30	R.S.	1.42	1.72	841
29	6:30	R.F.	1.20	1.56	672
30	7:00	B.B.	1.03	1.40	723
31	9:30	8.8.	0.93	1.33	858
		24957			

Residuals at Distribution Sample Locations

Deta Time Initiala				Residuals (mg/L)		
Date	Time	Initials	Location	Free Total	Total	
5	9:30	R.F.	Cottonwal RJ.	0.68	0.86	
19	11:00	B.R.	Contraduces Ro.	0.74	1.12	
				/		

Submitted by (Print): BALIN BROESKY Signature:



Vater System Name: Grunthal	Water System Code:
Ionth: APREL Year: 2029	Type of Measurement Device: ELECTRONIC
perator-in-charge (Print): Fr.+4	(n Other Operators (Print): Browny Browsky
aily Consumption Units:	Steph DUVAL

low Meter for Daily Consumption: (circle choice) Raw Treated No Metering

Data	Time	Initiala	Residuals (mg/L)		Daily
Date	IIme	initials	Free	Total	Consumption
1	$\gamma: \mathcal{O}_0$	RIF	1.02	1.32	636
2	7:00	RA	0.93	1.01	783
3	7:30	R.S.	0 79	045	752
4	7:30	R.R.	0.95	1.21	7418
5	7:30	RIE	096	1.07	793
6	9:30	RIF	0.94	1.30	836
7	12:00	R.F.	0.89	1.25	843
8	8:00	BB.	0.92	1.28	627
9	8:00	B.R.	0.88	1.33	797
10	8 00	R.B.	0.90	1.31	811
11	7:45	R.B.	0.91	1.30	744
12	8 30	88	0.94	1.29	805
13	7:15	B.B.	0.71	1.19	712
14	11:30	B.B.	0.80	1.21	959
15	7.30	R.F.	0.73	1.04	631
16	8.30	R.F.	0.82	1.09	796

Data	The	Initiala	Residual	s (mg/L)	Daily
Date	lime	Initials	Free	Totai	Consumption
17	7:30	R.F.	0.83	1.04	769
18	7:00	RIF.	0.70	0.88	784
19	8:00	RIF	0.64	0.71	818
20	10:00	RIE	0.99	1.23	855
21	Statin		É	+== · /	E3 819
22	734.15	B.B.	0.70	1.2006	613 705
23	7:30	B.B.	670	0.96	705
24	7:30	B.B.	0.71	1.07	707
25	8:00	8.8.	0.72	1.03	120
26	8 45	R.B.	0.71	1.01	722
27	7:00	B.B.	0.68	0.96	658
28	11:30	B.B.	0.67	0.79	842
29	8:30	R.F.	0.72	1.12	618
30	7:30	RIR	0.75	1.09	692
31					
		22645			

lesiduals at Distribution Sample Locations

			Residual	s (mg/L)
lime	Initials	Location	Free	Total
9:45	Rife	(often when Drive	0.72	0.93
9:45	R.F.	Contemporary DREVE	0.81	0.914
9:30	R K	Cattonwas Drive	0,59	0.81
	Time 9:45 9:45 9:30	Time Initials 91:45 R.F. 91:45 R.F. 91:30 R.F. 91:30 R.F.	TimeInitialsLocation91:45R.F.(citon Web Drive91:45R.F.Cotton Web Drive91:30R.F.Cotton Web Drive91:30R.F.(atton Web Drive	TimeInitialsLocation9:45R.F.(citon when Drive0.729:45R.F.(citon when Drive0.829:30R.F.(citon when Drive0.829:30R.F.(citon when Drive0.591.30R.F.(citon when Drive0.59

Submitted by (Print): Rob Friesch

Signature:



Water System Name: GRUNTHAL	Water System Code: <u>86.0</u>
Month: MAY Year: 2024	Type of Measurement Device: ELECTRONSC
Operator-in-charge (Print): Rob Fries	Other Operators (Print): BARY BRUESKY
Daily Consumption Units:3	COLLEEN MOWAT

Flow Meter for Daily Consumption: (circle choice) Raw Treated No Metering

Dut	Time	In it is In	Residual	s (mg/L)	Daily
Date	Time	Initials	Free	Total	Consumption
1	7:30	RIE	0.70	0.92	729
2	7:15	R.F	0.82	1.06	681
3	7:00	RIF	0.69	0.74	703
4	9:00	7.5	0.98	1.18	822
5	12:00	RiF.	1.35	1.58	824
6	8:00	8.8.	1.35	1.79	562
7	7:45	B.B	1.10	1.53	716
8	8:45	B.B	0.99	1.38	754
9	7:45	R. R.	1.62	1.24	700
10	8 00	88.	0.71	1.01	751
11	6 3 c	B.B.	0.66	0.78	681
12	10:30	B.B	0.71	1.04	925
13	7.15	RF.	060	080	649
14	6.45	R.F.	094	1.21	777
15	8:30	R.F.	0.84	1.04	811
16	8 00	R.F.	0.81	1.05	894

			Residual	s (mg/L)	Daily
Date	Time	Initials	Free	Total	Consumption
17	7:00	R.F.	081	0.90	912
18	9:30	R.F.	0.80	0,97	788
19	Ried	RIF	0.87	1.14	803
20	10:00	21F.	0.91	1.05	592
21	8 00	8.8.	0.78	1.09	714
22	8:15	R.R.	0.81	1.13	754
23	8.00	88	0.77	1.16	143
24	8:15	BB.	0.82	1.21	777
25	7.00	B.B.	0.81	1.12	691
26	8:30	B.B.	0.75	1.13	761
27	7:30	RiF.	0.65	0.88	717
28	7:00	12, 12,	0,70	0.86	720
29	7:30	R.F.	0,76	0.95	786
30	7:30	Rik.	0 66	0,74	744
31	7:30	R.F.	079	1.02	822
	23,309				

Residuals at Distribution Sample Locations

		Residuals (mg/L)			
Date	Time	Initials	Location	Free	Total
14	10:30	12.5.	Cottonik on Rd.	064	0 88
28	P.	CM	Cetterwood Rd.	0,418	0,65

Submitted by (Print): Kob Friesen

Signature:



Vater System Name: Growfuel	Water System Code: 86 O
Nonth: Jul Year: 2024 Type of M	easurement Device: Electron. 2
)perator-in-charge (Print): <u>Rob Friesen</u>	_ Other Operators (Print): Bovry Broesky
Paily Consumption Units:	Steph Duval

low Meter for Daily Consumption: (circle choice) Ray Treated No Metering

		Initiala	Residua	ls (mg/L)	Daily	
Date	Time	Initials	Free	Total	Consumption	
1	10.00	2.F.	0,79	1.08	747	
_2	12:00	RIE	6.83	1.10	835	
3	8:30	BB.	0.82	1.15	596	
4	7:00	B.B.	0.71	1.08	728	
5	8:16	R.R.	0.79	1.13	787	
6	7:00	8.8	0.73	1.11	7.89	
7	6:45	8.8	0.72	1.11	768	
8	7:30	B.B.	0.74	1.13	785	
9	11:00	B.R.	0.72	1.12	864	
10	8.00	R.F.	0.76	1.03	637	
11	7:30	RE	0.70	092	743	
12	7.15	R.F.	0.88	1.08	715	
13	7:00	Rif	0.92	1.15	606	
14	7:30	RIF	0.92	1.38	667	
15	9:30	RIF	091	1.24	742	
16	12:30	RIF	0.29	1.04	-741	

Dete	75	La l Cala	Residual	s (mg/L)	Daily
Date	Time	Initials	Free	Total	Consumption
17	8:00	B.B.	0.75	1.08	504
18	8:00	RR	0.70	1.07	680
19	8:30	R.R.	0,71	1.69	640
20	8:00	R.R.	0.73	0.94	716
21	8:00	R.R.	0.70	1.03	808
22	7:45	B.B.	0.77	1.04	618
23	8.00	B.B.	0.76	1.10	597
24	8:30	RIF.	0.84	1.12	609
25	8:30	RIF	0.71	093	634
26	6.00	R.F.	0.78	1.04	419
27	8:00	R.F.	0.72	1.00	SOA
28	8:00	RIF	0,74	1.08	465
29	7:30	RIF	0.72	099	444
30	12:00	12.F.	0.75	1.00	545
31					—
		19,883			

lesiduals at Distribution Sample Locations

Deta	Times	1	1 ti - m	Residual	s (mg/L)
Date	ate lime initials Location	Free	Total		
11	9:20	Rih	Cilknow Drive	6.67	0.81
26	10:30	RIF	Collegeners Drive	0.66	091

Robt ripsin Signature!

ubmitted by (Print):



Nater System Name: GRUNTHAL	_Water System Code:86.0
Month: July Year: <u>2024</u> Type of Mea	surement Device: <u>ELECTRONIC</u>
Operator-in-charge (Print): <u>BARRY BROEDLY</u>	Other Operators (Print): ROB FRIESEN
Daily Consumption Units:3	STEPH DUVAL

Flow Meter for Daily Consumption: (circle choice) Raw Treated No Metering

	-	1-141-1-	Residual	s (mg/L)	Daily
Date	Time	Initials	Free	Total	Consumption
1	9:30	RIF	0.73	0.91	359
2	7:30	R.F.	0.76	1.412	447
3	6:00	R.F.	0.69	0.42	#52
4	8.00	RIF	0.68	1.04	518
5	9:30	RIK	0.65	0.90	521
6	8 15	8.8.	0.64	6,91	454
7	10:30	B.B.	0.58	0.87	538
8	7:00	R.F.	0.69	0.93	395
9	7:30	RiF	0.74	1.05	555
10	7:30	R.F.	0.82	1,04	560
11	7:30	RIF	0.741	1.01	561
12	9:00	R.F.	0,75	1.03	674
13	7:30	R.F.	0.74	1.00	519
14	12:00	R.F.	0,76	0.99	650
15	8:15	BB	0.70	1.01	418
16	2:00	RR	0.68	1.03	516

		L. Martin I.a.	Residuals (mg/L)		Daily
Date	Time	millais	Free	Total	Consumption
17	7:45	B.B.	0.69	1.02	485
18	8.00	B.R.	0.71	1.05	700
19	8.00 B	8.8	0.67	0.98	636
20	7:30	B.B.	0.69	1.0.3	487
21	7:30	BB	0.63	0.98	457
22	7:00	R.F.	0,72	1.35	463
23	7:00	R.F.	0.65	0.92	457
24	7:30	RIF.	0.68	098	502
25	7.00	R.C.	0.71	1.06	530
26	8:45	88.	0.75	1.04	601
27	10.15	R.F.	0.64	1.07	578
28	11,30	12112.	0.74	1.09	572
29	6:15	BB.	0.79	1.14	437
30	7:45	R.R.	0.75	1.09	698
31	8:45	B.B.	0.81	1.19	711
	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100				11 115.

Total Monthly Consumption 6,451

Residuals at Distribution Sample Locations

Date				Residuals (mg/L)	
	Time	Initials	Location	Free Total	Total
4	10:00	R.F.	(ottomics Drune	0.55	0.75
23	10:00	RIK	Cartherences Prime	0.57	0.80

Submitted by (Print): BARRY BROFILY Signature:



Water System Name: GRUNTHAL	Water System Code: <u>86.0</u>
Month: AUGUST Year: 2024 Type of	Measurement Device: FLECTRONIC
Operator-in-charge (Print): BARRY BROESKY	Other Operators (Print): ROB FRIEDEN
Daily Consumption Units:M ³	STEPH DULL

1. 2011 1.121 1.141

Flow Meter for Daily Consumption: (circle choice) Raw Treated No Metering

Data	Time	Initiala	Residua	ls (mg/L)	Daily
Date	Time	muais	Free	Total	Consumption
1	7:00	B.B.	0.78	1.17	575
2	9:45	8.8	0.83	1.22	751
3	6 00	88	1.29	1.61	548
4	9:15	8.8	1.34	1.69	661
5	8 oc	88	1.24	1.58	466
6	7:00	R.F.	1.14	1.74	605
7	8:00	Rif.	1.57	2.02	587
8	7:30	R.F.	1.25	1.72	592
9	7:30	RIF	1.04	1.43	524
10	7:30	R.F.	0 52	0 60	561
11	12:00	RIF	1.10	1.50	705
12	8:30	8.8.	0.60	095	\$512
13	8 15	8.8.	0.59	0.93	7.58
14	7:45	B.B.	1.27	1.58	750
15	7:45	88	0.92	1.21	614
16	8-30	8.8	0.88	1.16	586

Data	Time	Time Initials		s (mg/L)	Daily
Date	Time	muais	Free	Total	Consumption
17	7.30	8.8.	0.71	1.04	501
18	10.00	8.8.	0.60	0.96	560
19	7:00	RiF.	(0,74)	1.18	451
20	7:00	R.F.	1.22	1,80	597
21	7:00	R.F.	1.03	1.27	578
22	7:15	RIF	0.94	1.25	618
23	7:00	RIF	0.77	1.04	555
24	10:15	R.F.	0.68	0.88	718
25	8:30	R.C.	062	0.85	533
26	\$ 30	B.B.	0.71	0.91	\$84
27	8:15	R.R.	0.77	1.67	614
28	8:15	CM	0.72	1.25	580
29	8:15	cu	0.85	15-10	25 622
30	745	CM	0.71	0.95	558
31	6:45	BB.	0.80	1.20	587
					10 11-

Total Monthly Consumption 18,457

Residuals at Distribution Sample Locations

Date	Time	Initials	Leastion	Residua	ls (mg/L)
	Time	minais	Location	Free	Total
b	10 00	R.F.	Contonners Rd.	1.07	1.45
20	11:30	R.F.	Correnwoos Ro.	0.67	0.94

Submitted by (Print): BAZRY BROZSKY

Signature:



Water System Name: GRUNTHAL	Water System Code: _ <u>86_0</u>
Month: <u>SEPTEMBER</u> Year: <u>2024</u> Type of Me	easurement Device: ELECTRONIC
Operator-in-charge (Print): <u>BARLY BROESRY</u>	_ Other Operators (Print):
Daily Consumption Units:	COLLEEN MOWAT
Flow Mater for Daily Consumption: (circle choice) Ray Treated	No Motoring

Daily Consumption: (circle choice) Raw Treated No Metering

Data	Time	Initiale	Residuals (mg/L)		Daily
Date	Time	initiais	Free	Total	Consumption
1	10.00	B.B.	0.71	1.04	6.83
2	7:30	B.8.	C.54	0.91	508
3	7:30	R.F.	0.58	0.98	719
4	7:00	R.F.	0.85	1.25	669
5	7:30	R.F.	0.90	1.28	7.5.5
6	7:15	R.F.	0.96	1.24	575
7	10:30	2,r	0.90	1,29	660
8	11:30	R.F.	0.83	1.07	595
9	8:00	cu	0.65	1.04	494
10	7:45	R.8.	0.74	1.04	646
11	8.00	RR	0:78	1,04	661
12	7:15	on	0.76	102	578
13	7:15	CU	0.89	1.00	611
14	7:30	8.8.	0.77	1.00	Soc
15	10:15	8.8.	0.70	1.05	582
16	715	cn	Overtime	CONTRACT.	467

Dete	T	1-141-14	Residual	Daily	
Date	Tune	Initials	Free	Total	Consumptior
17	7:00	RIF	1.68	1.85-	503
18	7:15	Cu	159	1.79	482
19	7:20	a	.94	LIL	637
20	7:15	RIF.	1.00	1.34	7416
21	10.00	R.T.	0.92	1,08	606
22	12:45	R.F.	0.86	1.10	579
23	10:00	R.R.	0.55	0.78	470
24	8:30	B.B.	0.53	0.84	502
25	7:30	cu	0.60	0.91	470
26	7:30	a	0.59	0.86	508
27	7:15	cu	0.2	0.49	561
28	8:15	B.B.	0.67	0.93	508
29	9:00	8.8.	0.71	\$1.06	505
30	7:00	8.8.	0.77	1.12	397
31			_	-	

Total Monthly Consumption 17,165

Residuals at Distribution Sample Locations

Date	Time	build also	Leastler	Residual	Residuals (mg/L)	
	lime	Initials	Location	Free	Total	
03	11:10	R.F.	Contoninous Rd.	and the second	6	
17	10:30	R.C.	(ottonico) R2	1.64	1.92	

Submitted by (Print): BARKI BROESIN Signature:

Manitoba

Monthly Chlorination Report

Water System Name: GARUNTHAL	Water System Code: _ දිර, ට	
Month: October Year: 2024	Type of Measurement Device: <u>Electronic</u>	
Operator-in-charge (Print): Rob Frig	Sen Other Operators (Print): Bury	Bicesky
Daily Consumption Units:	Collegu	Mourit

Flow Meter for Daily Consumption: (circle choice) Raw Treated No Metering

Date	Time	Initiala	Residual	s (mg/L)	Daily	
Dale	Time	nindais	Free	Total	Consumption	
1	7:30	on	0.79		531	
2	4:30	ar	0.80	1.11	491	
3	4:30	car	ORG	1.15	493	
4	7:00	12.F	0.87	1.24	489	
5	7:30	R.F.	0.88	1.21	503	
6	12:30	R.F.	0.91	1.14	612	
7	4:30	an	0.86	1.02	361	
8	7:30	cu	0.93	1.15	526	
9	4 30	CU	D.84	1.21	482	
10	4:00	a	0.93	1.19	404	
11	H IS	cu	188	1.08	450	
12	7:30	8.B.	0.79	1.12	425	
13	10:00	8.B	0.77	1.11	454	
14	6:00	B.B.	0.74	1.09	305	
15	8:00	RIF	0.82	1.04	476	
16	8:00	Rik	0.80	1.13	4129	

Data	Time	Initiala	Residuals (mg/L)		Daily
Date	Time	initials	Free	Total	Consumption
17	8.00	RIF	0,78	1.07	627
18	7:00	PLF.	0.77	1.07	575
19	9:00	R.F.	0.86	0.96	463
20	10100	RIF	0,73	0.90	410
21	8:30	B.8.	0.79	1.07	368
22	4:30	cu	0.79	1.07	411
23	4:00	au	0,82	1.00	546
24	7:15	an	0.81	1.09	448
25	7:15	Ca	0.41	D-98	415
26	7:30	8.B.	0.82	1.07	391
27	10 00	B.B.	0.72	0.99	458
28	7:15	cu	0.74	1.13.	341
29	4.15	CM	0.89	1.04	457 4161
30	7:00	ar	0.46	1.07	443
31	4:15	or	045	1,12	420
		14261			

Residuals at Distribution Sample Locations

Date	Time	Initials		Residua	Residuals (mg/L)	
			Location	Free	Total	
Q+ Pt	830	car	Cottoner	1.13	1.45	
15	10:15	R.F.	a Contensiones R2.	0.66	0.91	
29	9:45	RF.	Cottonwood RJ.	2.67	77.0	
			-			

Signature:

Submitted by (Print): Rob Friesen



Water System Name: CRONTHAL	Water System Code: <u>86.0</u>	
Month: November Year: 2024 Type of Me	easurement Device: <u>Electronic</u>	-
Operator-in-charge (Print): <u>BARRY BROEFLY</u>	Other Operators (Print):	
Daily Consumption Units:	COLLEEN NOWAT	
Flow Meter for Daily Consumption: (circle choice) Rave Treated	No Metering	

Residuals (mg/L) Daily Date Time Initials Consumption Free Total 25 0,98 406 O^* 1 1:15 Cu R.F 2 9:30 4129 1.02 0.743 2:30 RIF 0.78 1.06 493 :15 4 CU D.98 0 208 418 5 CU 8 1.03 0 1 17. 6 Cei D. 13 30 n 93 2 7 0.83 CM 1.02 40 0.98 8 0.84 a 9 RR 0.73 0.96 7.00 383 10 10:20 8.8 0.69 0.90 509 11 8:48 R.R. 221 0.67 0.91 Con 12 1:15 405 0.83 1.15 Ca 13 13 .49 · D

34.

44

1.30

Date	Time	la Hiele	Residua	Daily	
	Time	Initials	Free	Total	Consumption
17	6:30	R.F.	1.09	1.71	338
18	H-30	au	0.89	1,20	412
19	7:15	cn	0.94	120	419
20	4:15	a	LOM	1.34	411
21	N=30	CU.	.01	1.34	412
22	7:30	a	0.74	1.23	444
23	7.00	8.8.	0.75	1.19	409
24	10:00	8.B.	0.63	6.98	477
25	6:00	RR	0.69	0.97	328
26	7:00	R.F.	a82	1d1	449
27	7:35	or	D.99	1,12	452
28	7:15	cu	0.91	1.01	434
29	7:30	cu	0.72	1,19	454
30	9:30	R.F.	0.89	1.05	495
31					
			Monthly Cor	nsumption	12,575

Residuals at Distribution Sample Locations

cui

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2F

1:15

9:30

14

15

16

Date	Time	Initials		Residuals (mg/L)	
			Location	Free	Total
Nou 12	8:00	on	Cettonwood	0.45	0.65
26	9100	RF	Cotton wood drive	0.65	0.86

DR

H8

1.59

19

454

Signature:



Water System Name: (7RONTHAL	Water System Code: <u>86.0</u>
Month: <u>December</u> Year: <u>1014</u> T	ype of Measurement Device: <u>Electronuc</u>
Operator-in-charge (Print): Barrier Brace	Silly Other Operators (Print): Cost Frienzus
Daily Consumption Units: \mathscr{M}^3	Line Donal

Flow Meter for Daily Consumption: (circle choice) Raw (Treated No Metering

Data	Time	Initials	Residual	s (mg/L)	Daily	
Date	nne	muais	Free	Total	Consumption	
1	12:30	RIF	0.92	1.25	518	
2	8.20	8.8	0.83	1.21	348	
3	8:30	B.B.	0.80	1.16	4.86	
4	8:30	6.12	0.81	1.16	449	
5	8 00	8.8	0.84	1.22	414	
6	8:00	R.F.	0.78	1.26	421	
7	6:30	B.8	0.97	1.35	370	
8	10.00	8.8	0.85	1.22	477	
9	8:30	RIF	045	1.26	368	
10	7:00	R.F.	0.79	0,97	407	
11	7:00	R.F.	0.29	1.12	412	
12	7:00	RF	0.93	1.20	421	
13	7:00	R.F	0.98	1.24	485	
14	7:00	RIF.	0,97	1.28	509	
15	7:30	R.C.	0.87	1.12	395	
16	7:30	B.B.	0.86	1.07	434	

Data	Time	Initiala	Residual	ls (mg/L)	Daily		
Date	Time	initials	Free	Total	Consumption		
17	8.00	B.B	0.98	1.26	431		
18	7:00	RR	0.89	1.28	46.0		
19	7.30	B.B	0.85	1.24	454		
20	7:00	R.B	0.71	1,17	455		
21	7:00	R.R	0.81	1.19	432		
22	7:30	8.R.	0.81	1.18	439		
23	5:45	RR	0.78	1.15	392		
24	8:00	RR	0.80	1.15	503		
25	6:15	8.8.	0.80	1.16	431		
26	8:15	R.B.	0.79	1.14	426		
27	8:45	B.B.	0.79	1.14	438		
28	10:15	RIF.	0.82	1.06	4/53		
29	12:00	R.F.	0,85	1.17	425		
30	9:30	R.R.	0.78	1.03	347		
31	9:30	R.R.	0.90	1.16	4150		
				or and the construction of the second	1770ie-		

Total Monthly Consumption 13575

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residua	Residuals (mg/L)	
				Free	Total	
10	11:45	RR	Corresponding	0.6.7	1.08	
22	15:45	B.B.	COTTONINOOD RD.	0.71	1.09	

Submitted by (Print): BALLY ERCENT

Signature:

Appendix F

Incident Advisory Notification Plan



Grunthal Advisory Notification Plan

March 31, 2025

The Grunthal Water system has one water treatment plant which provides water for the town of Grunthal MB.

If there is a water quality issue with the system, please contact our Water and Wastewater Treatment Operator Barry Broesky at 204-371-0484, or Rob Friesen at 204-371-8236. Our Engineering and Utilities Manager Rob Driedger can also be contacted at 204-346-7121, along with the provincial Drinking Water Officer (DWO) Sarah Belisle, at 204-371-5065 or 204-346-6346. A voice conversation must be had with a Drinking Water Officer. If those numbers do not work call the emergency line, at 1-855-944-4888. Using the attached Emergency action chart the DWO, Operators and Manager will determine the appropriate actions to take to rectify the situation.

Customers in the affected area(s) will be notified by the municipalities Facebook page and website, as well as the electronic community billboards. Critical customers will be notified by phone and paper notice, and in isolated incidents localized canvassing may also be carried out.



