



**2023**

# Annual Report

On Drinking Water Quality



CITY OF STEINBACH

225 Reimer Avenue, Steinbach, Manitoba | [Steinbach.ca](http://Steinbach.ca)

# INTRODUCTION

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The City of Steinbach, Manitoba strives to provide high quality drinking water in sufficient quantity to meet the needs of the public. It is our goal to do so in a safe, cost-effective manner while remaining in compliance with the regulatory requirements governing the provision of drinking water.

It is our belief that the public has a right to access information related to the drinking water they consume. To that end, the following report has been prepared for Steinbach water system users in accordance with the Drinking Water Safety Act 32(1).

The Annual Report for the City of Steinbach summarizes the Water Utility's ability to produce safe potable water and meet provincial regulations.

# 1. DESCRIPTION OF THE WATER SYSTEM

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The Steinbach Public Water System provides potable drinking water to a population of 17,806 residents (2021 Census). Treated water produced from the water treatment plant meets all health objectives as stated in the Guidelines for Canadian Drinking Water Quality.

The City of Steinbach is supplied by two separate water production systems.

**System 1** was constructed as the City demands grew and is able to produce 9000 m<sup>3</sup> with the following facilities:

- Raw Water Pumping Station #1 and reservoirs (1964)
- Water Tower (1972)
- Water Treatment Plant (1979)
- Treated Water Pumping Station #2 and Reservoir (1999).

**System 2** (2019), was designed for 9000 m<sup>3</sup> with phase one constructed for 4500 m<sup>3</sup>. This is a secondary source to distribution system contained in one location and supports system 1. Planning and design has been completed for future expansion as the City demand increases. System 2 (Pumping Station #3) includes:

- Raw Water Reservoirs
- Water Treatment Plant
- Treated Water Reservoirs and Pumping system

## 1.1. Water Supply Source

The City of Steinbach has five wells that draw water from the limestone aquifer. The wells range from 67 to 74 meters in depth and individual well supplies vary from 1,932 to 3409 liters per minute.

Ground source water often contains metals and minerals and in the case of the limestone aquifer we draw from the primary elements in the water are Iron and Calcium carbonate. These do not pose health concerns; rather they are known as aesthetic water quality parameters.

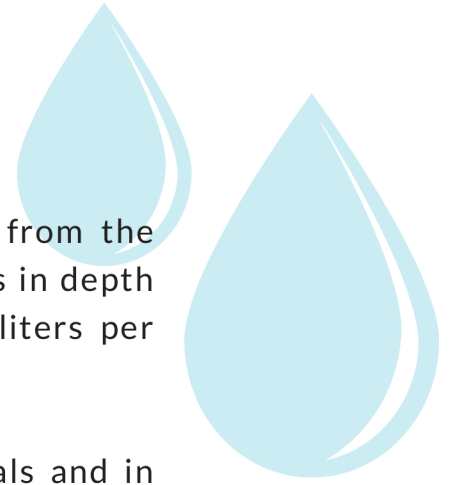
## 1.2. Water Treatment Process

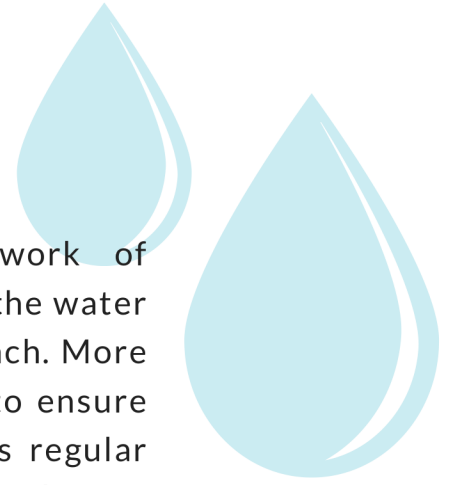
Iron is a metal that can cause laundry and plumbing fixture staining problems. In addition, these materials can build up in the distribution pipes and cause reduced flow.

Calcium carbonate causes hardness in water that diminishes the ability of the water to react with soap and form lather. Calcium also forms scale deposits in kettles and hot water tanks that can reduce the life expectancy of these appliances.

The current water treatment process is designed to remove iron to residuals less than .30mg/L. Hardness in the water is a quality where people have individual preferences about the amount they desire in their water. Our water is slightly over the aesthetic limit of 200mg/L. Individual homeowners, who desire softer water, have the ability to install softeners to suit their needs.

[View Treatment Process Drawings \(pages 14 & 15\).](#)





### 1.3. Distribution System

The water distribution system consists of a network of underground pipes used to carry the treated water from the water treatment facility to the homes and businesses in Steinbach. More than 96 km of water piping is interconnected (looped) to ensure that fresh safe water is continuously supplied. There is regular watermain flushing and testing carried out in the distribution system to ensure potable water is delivered to all consumers. The utility also provides fire protection by maintaining more than 700 fire hydrants connected to the distribution system.

### 1.4. Storage Reservoirs:

#### Raw Water Reservoirs:

- Two underground (1964) each with a capacity of 570,000 liters (125,000 Imp. Gal.)
- Two underground (2019) with a capacity of 2,130,000 liters (468,534 Imp. Gal.)

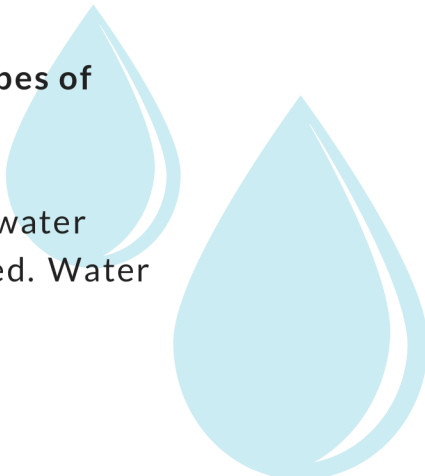
#### Treated water reservoirs:

- One elevated (1972) with a capacity of 1,820,000 liters (400,344 Imp. Gal.)
- Two underground (1999) with a capacity of 8,578,000 liters (1,866,896 Imp. Gal.)
- Two underground (2019) with a capacity of 3,928,000 liters (864,039 Imp. Gal.)

The combined capacity of all reservoirs is approximately 2-3 days of storage depending on demand. The treatment and storage of all water is designed for continual movement so the water stays fresh.

### 1.5. Number of Connections, Population Served and Types of Water Users:

The Steinbach distribution system is comprised of 5,565 water service connections. All service connections are metered. Water is provided to a large demographic.



Residential	5,161
Government	31
Commercial	317
Industrial	26
Municipal, University, School, Hospital	30

### 1.6. Classification and Certification:

[View Facility Classification Certificates \(pages 16 - 18\).](#)

In accordance with the Facility Classification and operator certification fall under Manitoba Water and Wastewater Facility Operators Regulation under the Environment Act. The City has the following Operators available:

#### *Water Treatment*

Class II - 9 Certified Operators  
Class I - 2 Certified Operator  
Operator In Training - 1 registered

#### *Water Distribution*

Class III - 5 Certified Operators  
Class II - 6 Certified Operators  
Class I - 1 certified operators  
Operator In Training - 0 registered

## 2. DISINFECTION SYSTEM

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The final step in the treatment of safe water is disinfection. Disinfection is the selective destruction or inactivation of potential disease-causing organisms in water. As per the Drinking Water Safety Act, the Steinbach Waterworks department must ensure that a disinfectant residual of at least:

- 0.5 mg of free chlorine per litre of water is detectable at the point where water enters the distribution system, after a minimum contact time of 20 minutes.
- 0.1 mg of free chlorine per litre of water is detectable at all times at any point in the distribution network.

### 2.1. Type of Disinfection System Used:

The Steinbach Water System disinfects with Chlorine gas and Sodium Hypochlorite.

### 2.2. Equipment Redundancy and Monitoring Requirements:

As required by the Drinking Water Safety Act, the City of Steinbach Public Water System ensures continuous disinfection is maintained by keeping three complete chlorinators in stock as well as spare parts required for repairs.

### 2.3. Disinfectant Residual Overall Performance / Results:

In this reporting period, there were no low residuals leaving the distribution pumping stations. Disinfectant residuals are monitored daily at the water treatment plants 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.

### 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 (MAC) for a groundwater supply source. Concentration values in excess constitute a health-related issue and require corrective actions. The full listing of Canadian Drinking Water Quality Standards can be seen on the Government of Canada website - [Guidelines for Canadian Drinking Water Quality](#).

For this reporting period the results for the Steinbach Public Water System are summarized in the following tables:

#### Water Plant System 1:

Parameter	Units	Canadian Guidelines (mg/L)	23-Aug-2023
<b>RAW WATER WELL #__2__</b>			
Arsenic	mg/L	<or= 0.01	0.00015
Benzene	mg/L	<or= 0.005	<0.00050
Ethylbenzene	mg/L	<or= 0.14	<0.00050
Fluoride (F)	mg/L	MAC 1.5	0.308
Lead (Pb)	mg/L	MAC 0.005	0.000080
Manganese, total	mg/L	MAC 0.12	0.00909
Nitrate -N	mg/L	MAC 10	<0.0050
Nitrite-N	mg/L	MAC 3.2	<0.0010
Trichloroethylene	mg/L	<or= 0.005	<0.00050
Tetrachloroethylene	mg/L	<or= 0.01	<0.00050
Toluene	mg/L	<or= 0.06	<0.00050
Total Xylenes	mg/L	<or= 0.09	<0.00050
Uranium	mg/L	<or= 0.02	<0.000010
Hardness (Total as CaCO3)	mg/L	AO <or= 200	168
<b>TREATED WATER PUMPING STATION #2</b>			
Arsenic	mg/L	<or= 0.01	0.00019
Fluoride (F)	mg/L	MAC 1.5	0.684
Lead (Pb)	mg/L	MAC 0.005	0.000808
Manganese, total	mg/L	MAC 0.12	0.00137
Nitrate -N	mg/L	MAC 10	0.0096
Nitrite-N	mg/L	MAC 3.2	<0.0010
Uranium	mg/L	<or= 0.02	0.000010
Hardness (Total as CaCO3)	mg/L	AO <or= 200	248



## Water Plant System 2:

Parameter	Units	Canadian Guidelines (mg/L)	23-Aug-2023
<b>RAW WATER WELL #__4__</b>			
Arsenic	mg/L	<or= 0.01	0.00021
Benzene	mg/L	<or= 0.005	<0.00050
Ethylbenzene	mg/L	<or= 0.14	<0.00050
Fluoride (F)	mg/L	MAC 1.5	0.385
Lead (Pb)	mg/L	MAC 0.005	<0.00050
Manganese, total	mg/L	MAC 0.12	0.00591
Nitrate -N	mg/L	MAC 10	<0.0050
Nitrite-N	mg/L	MAC 3.2	<0.0010
Trichloroethylene	mg/L	<or= 0.005	<0.00050
Tetrachloroethylene	mg/L	<or= 0.01	<0.00050
Toluene	mg/L	<or= 0.06	<0.00050
Total Xylenes	mg/L	<or= 0.09	<0.00050
Uranium	mg/L	<or= 0.02	0.000015
Hardness (Total as CaCO3)	mg/L	AO <or= 200	243
<b>TREATED WATER PUMPING STATION #3</b>			
Arsenic	mg/L	<or= 0.01	0.00016
Fluoride (F)	mg/L	MAC 1.5	0.672
Lead (Pb)	mg/L	MAC 0.005	<0.000084
Manganese, total	mg/L	MAC 0.12	0.00063
Nitrate -N	mg/L	MAC 10	0.0162
Nitrite-N	mg/L	MAC 3.2	<0.0010
Uranium	mg/L	<or= 0.02	0.000021
Hardness (Total as CaCO3)	mg/L	AO <or= 200	236

[View full list of the Total Water Analysis \(starts at page 19\).](#)

### 3.1. Monitoring

**3.1.1. Bacterial Testing:** We test the raw water (untreated well water), the treated water (leaving the water treatment facility) and the water in the distribution system (within the City of Steinbach) every week 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 may also be present.

In this reporting period, the routine weekly testing had one positive sample in the raw water. The treatment and disinfection processes were properly neutralizing any possible bacteria so there was no resampling required.

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.

The City of Steinbach Public Water System follows the Bacteriological Standards, which are found in the [Manitoba Drinking Water Safety Act](#).

- (a) less than one E. coli detectable per 100ml; and
- (b) less than one total coliform detectable per 100 ml

[View Steinbach 2023 Bacteria Summary \(starts at page 29\).](#)

**3.1.2. Turbidity Testing:** Turbidity is a measurement of the clarity of water. We use turbidity to tell us how well our treatment system is working to remove particles and other contaminants that can cause the water to look cloudy and affect our disinfection processes. Turbidity is tested daily as the raw water enters the treatment facilities, after each filter, leaving the treatment facilities and as it leaves Pumping Stations into the distribution system.

**3.1.3. Iron Testing:** The limestone aquifer has naturally occurring iron levels above the aesthetic limits established by Health Canada's Guideline of Canadian Living Drinking Water Quality. Elevated iron levels do not pose a risk to health. However, excessive iron can produce unpleasant tastes and odours in the water, and can cause the water to appear discoloured and stain plumbing fixtures and laundry. Our treatment process removes iron. Iron levels are monitored as the water enters and leaves the treatment facility.

## 4. WATER SYSTEM INCIDENTS AND CORRECTIVE ACTIONS

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**4.1. Watermain Repairs:** As shown in the following chart, a total of 12 watermain repairs occurred in the distribution. For details of each site repair, please contact the Waterworks Department.

### 2023 Watermain repair summary

Date	Location	Duration (hrs)	Free CL2 Res.	Turbidity (NTU)
Apr. 6	144 Maplewood St.	10	0.49	4.08
Apr. 11	190 Maplewood St.	8	0.63	3.09
Apr. 19	114 Reimer Ave.	8.5	0.69	3.55
May 3	1 Southpark Dr.	5	0.56	2.26
July 12	64 PTH 12 N.	12.5	0.54	3.59
Aug. 15	478 Cottonwood Bend, 421 Cottonwood Dr.	8.5	0.63	1.98
Aug. 21	324/6 Third St.	8	0.58	4.64
Sept. 12	120 Barkman Ave.	7	0.67	2.93
Oct. 4	326 Hanover St.	10	0.68	3.86
Dec. 4	6/7 Beaver Cres.	9	0.8	1.64
Dec. 21	375 Loewen Blvd.	10	0.53	3.5

**4.2. Corrective Action Reports:** A corrective action report provides information on incidents in the treatment and distribution systems that had the ability to affect the water quality. The report describes the situation, reasons, and the action taken to ensure public safety and proper water quality. In this reporting period there were 2 corrective action reports submitted.

[View Corrective Action Reports \(starts at page 38\).](#)

## 5. ADDITIONAL RECORDS REQUIRED

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As part of the Manitoba Health-Shared Health fluoridation program, water samples are collected on a daily basis from the treated water reservoir and tested on site. Daily fluoride results are recorded, and a 14-day composite sample is submitted bi-weekly to an approved lab for analysis. The maximum acceptable concentration (MAC) is 1.5 mg/L. The optimal fluoride level is 0.70 mg/L. The Steinbach Public Water System strives to maintain a 0.75 mg/L fluoride level and in 2023, fluoride levels did not exceed 1.85 mg/L in daily tests and 0.78 mg/L in any of the 2-week composite sample results.

In this reporting period, the regulatory act required daily sample results regarding chlorine levels to be submitted.

[View Daily Sample Results \(starts at page 40\).](#)

## 6. DRINKING WATER SAFETY ORDERS AND ACTIONS TAKEN

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In this reporting period, no Drinking Water Safety Orders were issued for the City of Steinbach Public Water System.

## 7. BOIL WATER ADVISORY ISSUES AND ACTIONS TAKEN IN RESPONSE

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In this reporting period, no Boil Water Advisories were issued for the City of Steinbach Public Water System.

## 8. DRINKING WATER OFFICER (DWO) INSPECTIONS

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No inspections were performed in this reporting period.

## 9. WARNINGS ISSUED OR CHARGES LAID on the system in Accordance with the Drinking Water Safety Act

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In this reporting period, no warnings were issued to the City of Steinbach Public Water System in accordance with section 32(1) of Drinking Water Safety Regulation.

## 10. MAJOR EXPENSES INCURRED

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In this reporting period, the utility spent **\$16,309.36** on facility repairs.

## 11. FUTURE SYSTEM EXPANSION AND/OR INCREASED PRODUCTION

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The City of Steinbach has the following projects in planning for the next 5 years:

- **Watermain Renewals** – Loewen Blvd & PTH 12N Intersection, Hanover St, Penner St, Barkman Ave (First to Main), First St (Lumber to Reimer), Reimer Ave (Main to Brandt), Third St (Barkman to Friesen), Barkman Ave (First to Fourth), Fourth St (Lumber to Barkman), Hospital St (Loewen to Hanover), Home St (Hospital to Loewen)
- **Capital Projects** – 3rd Well at Pumping Station #3, Water Tower Inspection and Restoration

## 12. CONTACT INFORMATION

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For general inquiries, contact the City of Steinbach Waterworks Department:

Phone: 204-346-6214

Email: [mheppner@steinbach.ca](mailto:mheppner@steinbach.ca)

Address: 51 Millwork Drive, Steinbach, MB

Regular Business Hours (Monday to Friday) are  
7:30am - 11:30am and 12:00 - 4:00pm

To report an issue with your water supply call:

Manager, Waterworks – Mike Heppner

Phone: 204-346-6214

Cell: 204-326-0680

Water Treatment Plant Operator – Allen Sterk

Cell: 204-371-8987



**24-HOUR  
EMERGENCY  
204-346-6232**

INFORMATION IS ALSO  
AVAILABLE ON THE  
CITY'S WEBSITE AT  
[WWW.STEINBACH.CA](http://WWW.STEINBACH.CA)

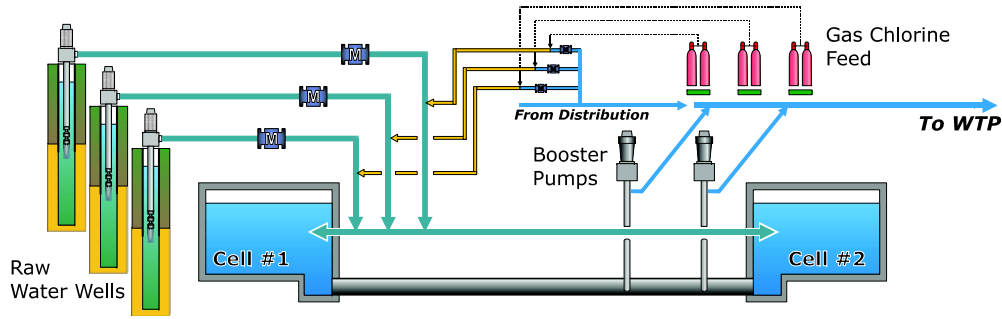
# CITY OF STEINBACH PRIMARY WATER SUPPLY SYSTEM PROCESS SCHEMATIC



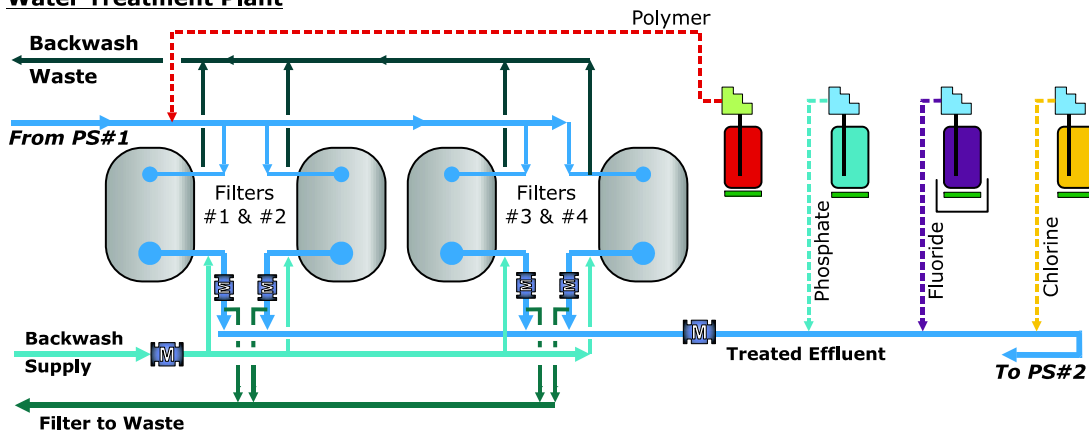
**CITY OF STEINBACH  
WATERWORKS**

Magnetic Flow Meter

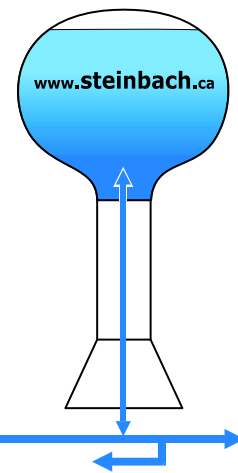
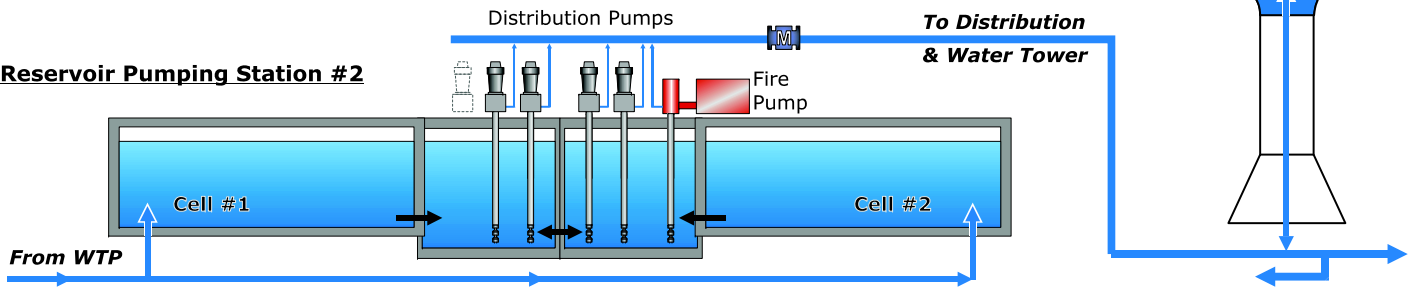
## Pumping Station #1



## Water Treatment Plant

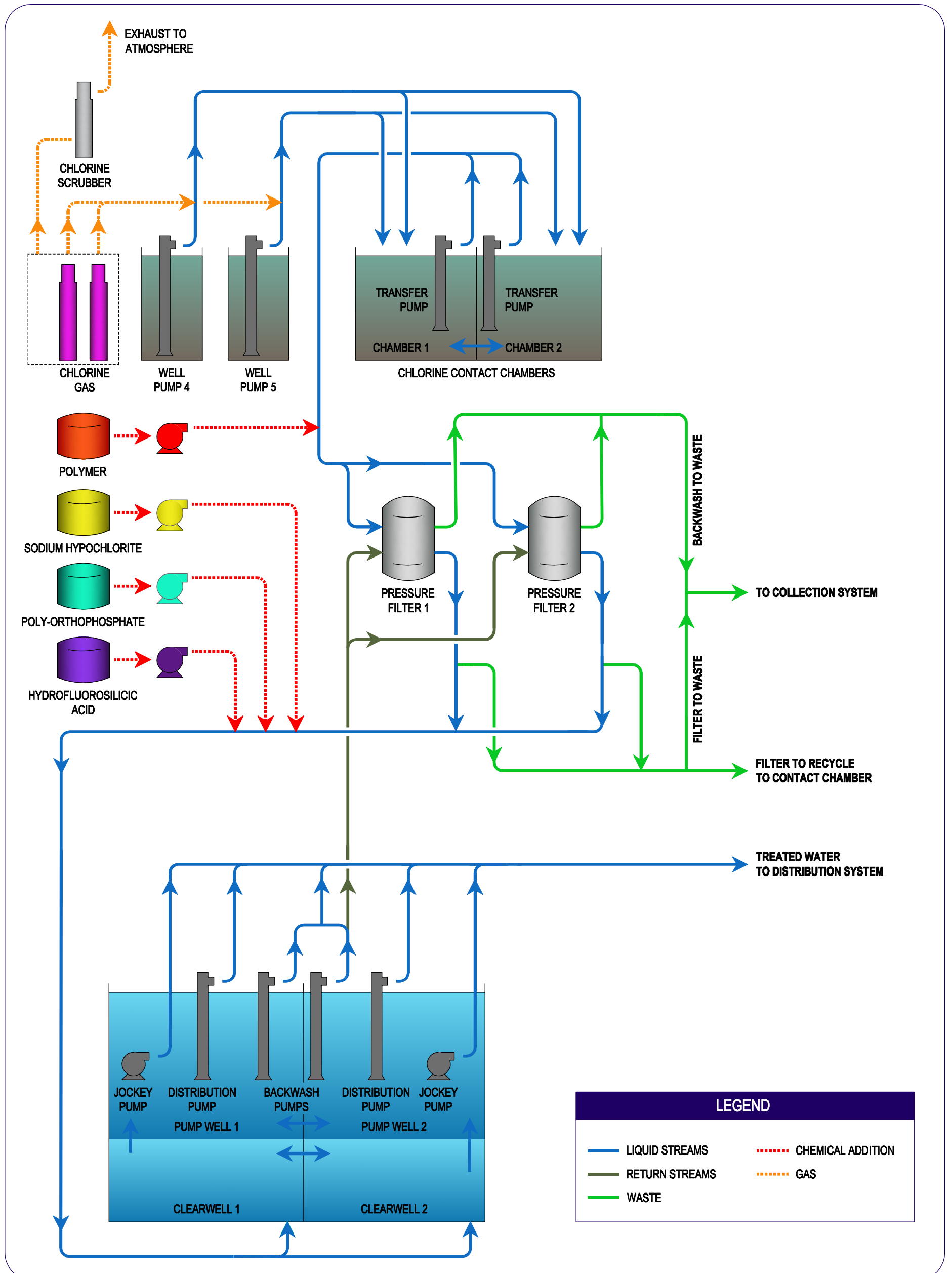


## Reservoir Pumping Station #2



City of Steinbach Process Schematic

## PUMPING STATION 3 SECONDARY SUPPLY SYSTEM PROCESS SCHEMATIC



LEGEND	
<span style="color: blue;">—</span>	LIQUID STREAMS
<span style="color: green;">—</span>	WASTE
<span style="color: brown;">—</span>	RETURN STREAMS
<span style="color: red; font-weight: bold;">- - -</span>	CHEMICAL ADDITION
<span style="color: orange; font-weight: bold;">- - -</span>	GAS



This is to certify that the

*City of Steinbach Pumping Station #3*

owned by

*City of Steinbach*

has been classified as a

*Class 2 Water Treatment Facility*

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

**Dated at** Winnipeg, Manitoba **this** 24<sup>th</sup> **day of** April 2020

Certificate No.: 2020-011

*S. Kohlen*

Director

Manitoba Sustainable Development

Certificate is the property of Manitoba Sustainable Development and must be surrendered upon request.

# Water and Wastewater Facility Operators Certification Program

This is to certify that the

*City of Steinbach Water Treatment Plant*

owned by

*City of Steinbach*

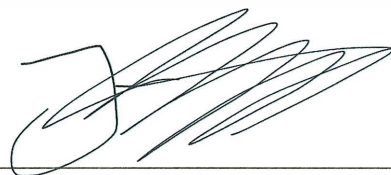
has been classified as a

*Class 2 Water Treatment*

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

**Dated at** Winnipeg, Manitoba **this** 1<sup>st</sup> **day of** December 2022.

Certificate No.: 2007-332



Manitoba Environment, Climate and Parks

# Water and Wastewater Facility Operators Certification Program

This is to certify that the

*City of Steinbach Distribution Facility*

owned by

*City of Steinbach*

has been classified as a

*Class 3 Water Distribution Facility*

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

**Dated at** Winnipeg, Manitoba **this** 23<sup>rd</sup> **day of** February 2018.

Certificate No.: 2018-009



Director

Manitoba Sustainable Development

Certificate is the property of Manitoba Sustainable Development and must be surrendered upon request.

**Manitoba** 



## Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	RAW WELL #3	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #5	----
Client sampling date / time					07-Mar-2023 09:08	07-Mar-2023 10:30	07-Mar-2023 08:26	07-Mar-2023 08:17	----	
Analyte	CAS Number	Method	LOR	Unit	WP2302662-001	WP2302662-002	WP2302662-003	WP2302662-004	-----	
					Result	Result	Result	Result	----	
<b>Physical Tests</b>										
Absorbance, UV (@ 254nm)	----	E404	0.0050	AU/cm	0.0600	0.0380	0.0320	0.0470	----	
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290	1.0	mg/L	441	373	365	388	----	
Alkalinity, hydroxide (as OH)	14280-30-9	E290	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	----	
Colour, true	----	E329	5.0	CU	<5.0	<5.0	<5.0	18.2	----	
Conductivity	----	E100	2.0	µS/cm	610	605	587	587	----	
Hardness (as CaCO3), dissolved	----	EC100	0.50	mg/L	284	246	233	238	----	
Langelier index (@ 15°C)	----	EC105	0.010	-	1.08	0.855	0.902	0.997	----	
Langelier index (@ 20°C)	----	EC105	0.010	-	1.16	0.929	0.976	1.07	----	
Langelier index (@ 25°C)	----	EC105	0.010	-	1.23	0.999	1.04	1.14	----	
Langelier index (@ 4°C)	----	EC105	0.010	-	0.913	0.681	0.729	0.823	----	
Langelier index (@ 60°C)	----	EC105	0.010	-	1.67	1.44	1.49	1.58	----	
Langelier index (@ 77°C)	----	EC105	0.010	-	1.87	1.64	1.69	1.78	----	
pH	----	E108	0.10	pH units	8.28	8.17	8.26	8.31	----	
Solids, total dissolved [TDS]	----	E162-L	3.0	mg/L	306	312	296	283	----	
Turbidity	----	E121	0.10	NTU	13.3	<0.10	<0.10	11.9	----	
Transmittance, UV (@ 254nm)	----	E404	1.0	% T/cm	87.1	91.6	92.9	89.7	----	
pH, saturation (@ 4°C)	----	EC105	0.010	pH units	7.37	7.49	7.53	7.49	----	
pH, saturation (@ 15°C)	----	EC105	0.010	pH units	7.19	7.31	7.36	7.31	----	
pH, saturation (@ 20°C)	----	EC105	0.010	pH units	7.12	7.24	7.28	7.24	----	
pH, saturation (@ 25°C)	----	EC105	0.010	pH units	7.05	7.17	7.21	7.17	----	
pH, saturation (@ 60°C)	----	EC105	0.010	pH units	6.61	6.73	6.77	6.73	----	
pH, saturation (@ 77°C)	----	EC105	0.010	pH units	6.41	6.53	6.57	6.53	----	
<b>Anions and Nutrients</b>										
Ammonia, total (as N)	7664-41-7	E303	0.010	mg/L	0.893	<0.010	<0.010	0.798	----	
Bromide	24959-67-9	E235.Br	0.10	mg/L	<0.10	<0.10	<0.10	<0.10	----	
Chloride	16887-00-6	E235.Cl	0.50	mg/L	4.07	25.7	24.7	15.3	----	
Fluoride	16984-48-8	E235.F	0.020	mg/L	0.311	0.706	0.704	0.378	----	
Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	<0.020	<0.020	<0.020	<0.020	----	



## Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	RAW WELL #3	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #5	----
Client sampling date / time					07-Mar-2023 09:08	07-Mar-2023 10:30	07-Mar-2023 08:26	07-Mar-2023 08:17	----	
Analyte	CAS Number	Method	LOR	Unit	WP2302662-001	WP2302662-002	WP2302662-003	WP2302662-004	-----	
					Result	Result	Result	Result	----	
<b>Anions and Nutrients</b>										
Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	----	
Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	<0.30	2.02	1.52	0.55	----	
<b>Organic / Inorganic Carbon</b>										
Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	3.68	3.62	2.72	2.86	----	
Carbon, total organic [TOC]	----	E355-L	0.50	mg/L	3.34	2.90	2.65	3.01	----	
<b>Ion Balance</b>										
Anion sum	----	EC101A	0.10	meq/L	7.36	6.92	6.74	6.94	----	
Cation sum (total)	----	EC101A	0.10	meq/L	6.95	6.56	6.30	6.62	----	
Ion balance (cations/anions)	----	EC101A	0.01	%	94.4	94.8	93.5	95.4	----	
Ion balance (APHA)	----	EC101A	0.010	%	-2.86	-2.67	-3.37	-2.36	----	
<b>Total Metals</b>										
Aluminum, total	7429-90-5	E420	0.0030	mg/L	<0.0030	<0.0030	0.0034	<0.0030	----	
Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Arsenic, total	7440-38-2	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	0.00016	----	
Barium, total	7440-39-3	E420	0.00010	mg/L	0.567	0.422	0.186	0.198	----	
Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	
Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	
Boron, total	7440-42-8	E420	0.010	mg/L	0.144	0.186	0.204	0.194	----	
Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Calcium, total	7440-70-2	E420	0.050	mg/L	58.4	51.7	47.7	49.8	----	
Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000012	0.000015	<0.000010	<0.000010	----	
Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Copper, total	7440-50-8	E420	0.00050	mg/L	0.0125	0.00939	0.00221	0.00247	----	
Iron, total	7439-89-6	E420	0.010	mg/L	1.16	0.013	0.136	1.31	----	
Lead, total	7439-92-1	E420	0.000050	mg/L	0.000300	0.000411	0.000083	<0.000050	----	
Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0165	0.0189	0.0182	0.0188	----	
Magnesium, total	7439-95-4	E420	0.0050	mg/L	35.9	29.5	28.8	30.4	----	
Manganese, total	7439-96-5	E420	0.00010	mg/L	0.00801	0.00019	0.00082	0.00644	----	



## Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	RAW WELL #3	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #5	----
Client sampling date / time					07-Mar-2023 09:08	07-Mar-2023 10:30	07-Mar-2023 08:26	07-Mar-2023 08:17	----	
Analyte	CAS Number	Method	LOR	Unit	WP2302662-001	WP2302662-002	WP2302662-003	WP2302662-004	-----	
					Result	Result	Result	Result	----	
<b>Total Metals</b>										
Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000784	0.00117	0.00116	0.00110	----	
Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	0.534	0.420	<0.050	----	
Potassium, total	7440-09-7	E420	0.050	mg/L	4.20	4.65	4.73	4.81	----	
Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00256	0.00310	0.00296	0.00293	----	
Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	
Silicon, total	7440-21-3	E420	0.10	mg/L	8.27	7.60	6.83	7.10	----	
Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	
Sodium, total	7440-23-5	E420	0.050	mg/L	20.1	32.9	32.8	32.4	----	
Strontium, total	7440-24-6	E420	0.00020	mg/L	0.373	0.344	0.361	0.368	----	
Sulfur, total	7704-34-9	E420	0.50	mg/L	<0.50	0.94	0.59	<0.50	----	
Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	
Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	
Thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Titanium, total	7440-32-6	E420	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	----	
Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Uranium, total	7440-61-1	E420	0.000010	mg/L	<0.000010	0.000032	0.000022	0.000015	----	
Vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0196	0.0045	0.0083	0.0089	----	
Zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	
<b>Dissolved Metals</b>										
Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	----	
Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.548	0.415	0.184	0.190	----	
Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	----	
Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	
Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.173	0.199	0.216	0.209	----	



## Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	RAW WELL #3	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #5	----
Client sampling date / time					07-Mar-2023 09:08	07-Mar-2023 10:30	07-Mar-2023 08:26	07-Mar-2023 08:17	----	
Analyte	CAS Number	Method	LOR	Unit	WP2302662-001	WP2302662-002	WP2302662-003	WP2302662-004	-----	
					Result	Result	Result	Result	----	
<b>Dissolved Metals</b>										
Cadmium, dissolved	7440-43-9	E421	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	
Calcium, dissolved	7440-70-2	E421	0.050	mg/L	56.4	50.5	46.5	47.2	----	
Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000011	0.000015	<0.000010	<0.000010	----	
Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00143	0.00929	0.00199	0.00067	----	
Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	----	
Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	0.000262	<0.000050	<0.000050	----	
Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0164	0.0197	0.0183	0.0183	----	
Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	34.7	29.0	28.4	29.3	----	
Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00768	0.00011	<0.00010	0.00600	----	
Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000766	0.00110	0.00115	0.00104	----	
Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	0.547	0.407	<0.050	----	
Potassium, dissolved	7440-09-7	E421	0.050	mg/L	4.23	4.68	4.95	4.72	----	
Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00264	0.00312	0.00293	0.00298	----	
Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	----	
Silicon, dissolved	7440-21-3	E421	0.050	mg/L	8.20	7.38	6.38	6.61	----	
Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	
Sodium, dissolved	7440-23-5	E421	0.050	mg/L	19.7	31.6	31.7	30.7	----	
Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.372	0.336	0.368	0.367	----	
Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	<0.50	0.78	<0.50	<0.50	----	
Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	----	
Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	----	
Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	0.00011	<0.00010	<0.00010	----	
Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	----	
Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	----	
Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	<0.000010	0.000030	0.000024	0.000012	----	



## Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	RAW WELL #3	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #5	----
Client sampling date / time					07-Mar-2023 09:08	07-Mar-2023 10:30	07-Mar-2023 08:26	07-Mar-2023 08:17	----	
Analyte	CAS Number	Method	LOR	Unit	WP2302662-001	WP2302662-002	WP2302662-003	WP2302662-004	-----	
					Result	Result	Result	Result	----	
<b>Dissolved Metals</b>										
Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0012	0.0103 <sup>RRV</sup>	0.0107	0.0029	----	
Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	----	
Dissolved metals filtration location	----	EP421	-	-	Laboratory	Laboratory	Laboratory	Laboratory	----	
<b>Volatile Organic Compounds</b>										
Acetone	67-64-1	E611D	20	µg/L	<20	----	----	<20	----	
Benzene	71-43-2	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Bromodichloromethane	75-27-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Bromoform	75-25-2	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Bromomethane	74-83-9	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Carbon tetrachloride	56-23-5	E611D	0.20	µg/L	<0.20	----	----	<0.20	----	
Chlorobenzene	108-90-7	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Chloroform	67-66-3	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dibromochloromethane	124-48-1	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dibromoethane, 1,2-	106-93-4	E611D	0.20	µg/L	<0.20	----	----	<0.20	----	
Dichlorobenzene, 1,2-	95-50-1	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichlorobenzene, 1,3-	541-73-1	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichlorobenzene, 1,4-	106-46-7	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichlorodifluoromethane	75-71-8	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloroethane, 1,1-	75-34-3	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloroethane, 1,2-	107-06-2	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloroethylene, 1,1-	75-35-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloroethylene, cis-1,2-	156-59-2	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloroethylene, trans-1,2-	156-60-5	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloromethane	75-09-2	E611D	1.0	µg/L	<1.0	----	----	<1.0	----	
Dichloropropane, 1,2-	78-87-5	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloropropylene, cis+trans-1,3-	542-75-6	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Dichloropropylene, cis-1,3-	10061-01-5	E611D	0.30	µg/L	<0.30	----	----	<0.30	----	
Dichloropropylene, trans-1,3-	10061-02-6	E611D	0.30	µg/L	<0.30	----	----	<0.30	----	





## Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	RAW WELL #3	TREATED PS#2 400 HESPELER	TREATED PS#3 246 PARK RD. WEST	RAW WELL #5	----
Client sampling date / time					07-Mar-2023 09:08	07-Mar-2023 10:30	07-Mar-2023 08:26	07-Mar-2023 08:17	----	
Analyte	CAS Number	Method	LOR	Unit	WP2302662-001	WP2302662-002	WP2302662-003	WP2302662-004	-----	
					Result	Result	Result	Result	----	
<b>Volatile Organic Compounds</b>										
Ethylbenzene	100-41-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Hexane, n-	110-54-3	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Methyl ethyl ketone [MEK]	78-93-3	E611D	20	µg/L	<20	----	----	<20	----	
Methyl isobutyl ketone [MIBK]	108-10-1	E611D	20	µg/L	<20	----	----	<20	----	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Styrene	100-42-5	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Tetrachloroethane, 1,1,1,2-	630-20-6	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Tetrachloroethane, 1,1,2,2-	79-34-5	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Tetrachloroethylene	127-18-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Toluene	108-88-3	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Trichloroethane, 1,1,1-	71-55-6	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Trichloroethane, 1,1,2-	79-00-5	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Trichloroethylene	79-01-6	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Trichlorofluoromethane	75-69-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Vinyl chloride	75-01-4	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
Xylene, m+p-	179601-23-1	E611D	0.40	µg/L	<0.40	----	----	<0.40	----	
Xylene, o-	95-47-6	E611D	0.30	µg/L	<0.30	----	----	<0.30	----	
Xylenes, total	1330-20-7	E611D	0.50	µg/L	<0.50	----	----	<0.50	----	
BTEX, total	----	E611D	1.0	µg/L	<1.0	----	----	<1.0	----	
<b>Hydrocarbons</b>										
F1 (C6-C10)	----	E581.F1-L	25	µg/L	<25	----	----	<25	----	
F1-BTEX	----	EC580	25	µg/L	<25	----	----	<25	----	
<b>Hydrocarbons Surrogates</b>										
Dichlorotoluene, 3,4-	95-75-0	E581.F1-L	1.0	%	81.7	----	----	86.5	----	
<b>Volatile Organic Compounds Surrogates</b>										
Bromofluorobenzene, 4-	460-00-4	E611D	1.0	%	105	----	----	105	----	
Difluorobenzene, 1,4-	540-36-3	E611D	1.0	%	102	----	----	102	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.



## Analytical Results Evaluation

				Client sample ID						
Matrix: Water				STEINBACH 1 RAW PUMP STATION #2 WELL #1	STEINBACH 1 RAW PUMP STATION #3 WELL#4	STEINBACH 2 TREATED PUMP RAW STATION #2	STEINBACH 2 TREATED PUMP STATION #3	STEINBACH 3 DIST MID POINT @ OUTDOOR RINK	STEINBACH 3 DIST MID POINT @OPERATORS BLD	----
Sampling date/time				22-Aug-2023 00:00	22-Aug-2023 08:30	22-Aug-2023 10:40	22-Aug-2023 08:40	22-Aug-2023 11:15	22-Aug-2023 09:40	----
Sub-Matrix				Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2320427-001	WP2320427-002	WP2320427-003	WP2320427-004	WP2320427-005	WP2320427-006	-----
<b>Physical Tests</b>										
Absorbance, UV (@ 254nm)	----	E404/WP		0.0620	0.0410	0.0400	0.0290	----	----	----
Alkalinity, bicarbonate (as CaCO3)	----	E290/WP	mg/L	329	279	281	269	----	----	----
Alkalinity, carbonate (as CaCO3)	----	E290/WP		13.8	11.8	<1.0	8.0	----	----	----
Alkalinity, hydroxide (as CaCO3)	----	E290/WP	mg/L	<1.0	<1.0	<1.0	<1.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/WP		343	291	279	277	----	----	----
Colour, true	----	E329/WP	CU	<5.0	<5.0	<5.0	<5.0	----	----	----
Conductivity	----	E100/WP		550	530	558	538	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	mg/L	278	243	248	236	----	----	----
Langelier index (@ 4°C)	----	EC105A/WP		1.09	0.958	0.870	0.900	----	----	----
Langelier index (@ 60°C)	----	EC105A/WP	-	1.84	1.71	1.62	1.65	----	----	----
pH	----	E108/WP		8.49	8.48	8.40	8.44	----	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	mg/L	317	305	325	303	----	----	----
Turbidity	----	E121/WP		12.9	13.8	0.38	<0.10	----	----	----
pH, saturation (@ 4°C)	----	EC105A/WP	pH units	7.40	7.52	7.53	7.54	----	----	----
Transmittance, UV (@ 254nm)	----	E404/WP		86.7	91.0	91.2	93.5	----	----	----
pH, saturation (@ 60°C)	----	EC105A/WP	pH units	6.65	6.77	6.78	6.78	----	----	----
<b>Anions and Nutrients</b>										
Ammonia, total (as N)	7664-41-7	E303/WP		0.943	0.706	<0.010	<0.010	----	----	----
Bromide	24959-67-9	E235.Br-L/WP	mg/L	<0.050	<0.050	<0.050	<0.050	----	----	----
Chloride	16887-00-6	E235.Cl-L/WP		7.40	18.3	26.8	25.6	----	----	----
Fluoride	16984-48-8	E235.F/WP	mg/L	0.308	0.385	0.684	0.672	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/WP		<0.0050	<0.0050	0.0096	0.0162	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/WP	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP		<0.30	1.30	1.77	1.26	----	----	----
<b>Organic / Inorganic Carbon</b>										



## Analytical Results Evaluation

Matrix: Water				Client sample ID	STEINBACH 1 RAW PUMP STATION #2 WELL #1	STEINBACH 1 RAW PUMP STATION #3 WELL#4	STEINBACH 2 TREATED PUMP RAW STATION #2	STEINBACH 2 TREATED PUMP STATION #3	STEINBACH 3 DIST MID POINT @ OUTDOOR RINK	STEINBACH 3 DIST MID POINT @OPERATORS BLD	----
				Sampling date/time	22-Aug-2023 00:00	22-Aug-2023 08:30	22-Aug-2023 10:40	22-Aug-2023 08:40	22-Aug-2023 11:15	22-Aug-2023 09:40	----
				Sub-Matrix	Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2320427-001	WP2320427-002	WP2320427-003	WP2320427-004	WP2320427-005	WP2320427-006	-----	
<b>Organic / Inorganic Carbon</b>											
Carbon, dissolved organic [DOC]	----	E358-L/WP	mg/L	4.16	3.32	3.48	3.26	----	----	----	
Carbon, total organic [TOC]	----	E355-L/WP		3.54	2.68	2.95	2.59	----	----	----	
<b>Ion Balance</b>											
Anion sum	----	EC101A/WP	meq/L	7.08	6.38	6.40	6.32	----	----	----	
Cation sum (total)	----	EC101A/WP		6.88	6.50	6.52	6.23	----	----	----	
Ion balance (cations/anions)	----	EC101A/WP	%	97.2	102	102	98.6	----	----	----	
Ion balance (APHA)	----	EC101A/WP		-1.43	0.932	0.929	-0.717	----	----	----	
<b>Total Metals</b>											
Aluminum, total	7429-90-5	E420/WP	µg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	----	
Antimony, total	7440-36-0	E420/WP		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	----	
Arsenic, total	7440-38-2	E420/WP	µg/L	0.15	0.21	0.19	0.16	0.18	0.16	----	
Barium, total	7440-39-3	E420/WP		471	224	424	197	436	194	----	
Beryllium, total	7440-41-7	E420/WP	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	----	
Bismuth, total	7440-69-9	E420/WP		<0.050	<0.050	<0.050	<0.050	0.058	<0.050	----	
Boron, total	7440-42-8	E420/WP	µg/L	134	168	151	176	160	174	----	
Cadmium, total	7440-43-9	E420/WP		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	----	
Calcium, total	7440-70-2	E420/WP	µg/L	55800	49500	51200	49800	53100	49100	----	
Cesium, total	7440-46-2	E420/WP		0.012	0.011	0.015	<0.010	0.013	<0.010	----	
Chromium, total	7440-47-3	E420/WP	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	
Cobalt, total	7440-48-4	E420/WP		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	----	
Copper, total	7440-50-8	E420/WP	µg/L	16.8	1.75	17.9	6.35	31.7	34.6	----	
Iron, total	7439-89-6	E420/WP		1250	1100	197	108	138	59	----	
Lead, total	7439-92-1	E420/WP	µg/L	0.080	<0.050	0.808	0.084	0.347	0.150	----	
Lithium, total	7439-93-2	E420/WP		18.2	19.9	19.2	18.7	20.5	19.0	----	
Magnesium, total	7439-95-4	E420/WP	µg/L	33800	29100	29200	27200	28500	28000	----	



## Analytical Results Evaluation

Matrix: Water				Client sample ID	STEINBACH 1 RAW PUMP STATION #2 WELL #1	STEINBACH 1 RAW PUMP STATION #3 WELL#4	STEINBACH 2 TREATED PUMP RAW STATION #2	STEINBACH 2 TREATED PUMP STATION #3	STEINBACH 3 DIST MID POINT @ OUTDOOR RINK	STEINBACH 3 DIST MID POINT @OPERATORS BLD	----
Sampling date/time				22-Aug-2023 00:00	22-Aug-2023 08:30	22-Aug-2023 10:40	22-Aug-2023 08:40	22-Aug-2023 11:15	22-Aug-2023 09:40	----	
Sub-Matrix				Water	Water	Water	Water	Water	Water	----	
Analyte	CAS Number	Method/Lab	Unit	WP2320427-001	WP2320427-002	WP2320427-003	WP2320427-004	WP2320427-005	WP2320427-006	-----	
<b>Total Metals</b>											
Manganese, total	7439-96-5	E420/WP		9.09	5.91	1.37	0.63	1.08	0.43	----	
Molybdenum, total	7439-98-7	E420/WP	µg/L	0.668	1.10	1.12	1.16	1.19	1.16	----	
Nickel, total	7440-02-0	E420/WP		<0.50	<0.50	<0.50	1.12	0.74	<0.50	----	
Phosphorus, total	7723-14-0	E420/WP	µg/L	<50	<50	550	421	521	402	----	
Potassium, total	7440-09-7	E420/WP		4580	5270	5020	5180	5030	5270	----	
Rubidium, total	7440-17-7	E420/WP	µg/L	2.75	3.32	3.27	3.28	3.18	3.13	----	
Selenium, total	7782-49-2	E420/WP		0.109	0.164	0.068	0.086	0.054	0.072	----	
Silicon, total	7440-21-3	E420/WP	µg/L	7580	6430	7310	6450	6650	6450	----	
Silver, total	7440-22-4	E420/WP		<0.010	0.010	<0.010	<0.010	<0.010	<0.010	----	
Sodium, total	7440-23-5	E420/WP	µg/L	24900	32500	32700	31600	32100	32400	----	
Strontium, total	7440-24-6	E420/WP		356	355	347	367	361	375	----	
Sulfur, total	7704-34-9	E420/WP	µg/L	<500	860	1070	620	650	740	----	
Tellurium, total	13494-80-9	E420/WP		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	----	
Thallium, total	7440-28-0	E420/WP	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	----	
Thorium, total	7440-29-1	E420/WP		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	----	
Tin, total	7440-31-5	E420/WP	µg/L	0.19	<0.10	0.14	0.16	0.12	0.16	----	
Titanium, total	7440-32-6	E420/WP		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	----	
Tungsten, total	7440-33-7	E420/WP	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	----	
Uranium, total	7440-61-1	E420/WP		<0.010	0.015	<0.010	0.021	<0.010	0.019	----	
Vanadium, total	7440-62-2	E420/WP	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	----	
Zinc, total	7440-66-6	E420/WP		<3.0	3.6	12.1	<3.0	<3.0	3.5	----	
Zirconium, total	7440-67-7	E420/WP	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	----	
<b>Volatile Organic Compounds</b>											
Benzene	71-43-2	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	
Bromodichloromethane	75-27-4	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----	
Bromoform	75-25-2	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	



## Analytical Results Evaluation

Matrix: Water				Client sample ID	STEINBACH 1 RAW PUMP STATION #2 WELL #1	STEINBACH 1 RAW PUMP STATION #3 WELL#4	STEINBACH 2 TREATED PUMP RAW STATION #2	STEINBACH 2 TREATED PUMP STATION #3	STEINBACH 3 DIST MID POINT @ OUTDOOR RINK	STEINBACH 3 DIST MID POINT @OPERATORS BLD	----
				Sampling date/time	22-Aug-2023 00:00	22-Aug-2023 08:30	22-Aug-2023 10:40	22-Aug-2023 08:40	22-Aug-2023 11:15	22-Aug-2023 09:40	----
				Sub-Matrix	Water	Water	Water	Water	Water	Water	----
Analyte	CAS Number	Method/Lab	Unit	WP2320427-001	WP2320427-002	WP2320427-003	WP2320427-004	WP2320427-005	WP2320427-006	-----	
<b>Volatile Organic Compounds</b>											
Chloroform	67-66-3	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----	
Dibromochloromethane	124-48-1	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	
Dichloromethane	75-09-2	E611D/WP	mg/L	<0.0010	<0.0010	----	----	----	----	----	
Ethylbenzene	100-41-4	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----	
Tetrachloroethylene	127-18-4	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	
Toluene	108-88-3	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----	
Trichloroethane, 1,1,1-	71-55-6	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	
Trichloroethane, 1,1,2-	79-00-5	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----	
Trichloroethylene	79-01-6	E611D/WP		<0.00050	<0.00050	----	----	----	----	----	
Xylene, m+p-	179601-23-1	E611D/WP	mg/L	<0.00040	<0.00040	----	----	----	----	----	
Xylene, o-	95-47-6	E611D/WP		<0.00030	<0.00030	----	----	----	----	----	
Xylenes, total	1330-20-7	E611D/WP	mg/L	<0.00050	<0.00050	----	----	----	----	----	
BTEX, total	----	E611D/WP		<0.0010	<0.0010	----	----	----	----	----	
<b>Volatile Organic Compounds Surrogates</b>											
Bromofluorobenzene, 4-	460-00-4	E611D/WP	%	89.4	89.6	----	----	----	----	----	
Diffuorobenzene, 1,4-	540-36-3	E611D/WP		102	102	----	----	----	----	----	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Key:

	2023		
Collection Date	Sample Identification	TC	EC
Jan-3-23	Well #3	0	0
Jan-3-23	Well #5	0	0
Jan-3-23	PS#2 400 Hespeler St.	0	0
Jan-3-23	PS#3 316 Park Rd West	0	0
Jan-3-23	Timber Falls HWY 52W	0	0
Jan-3-23	Clearspring Mall PTH Hwy #12N	0	0
Jan-3-23	PS#1 515 Main St.	0	0
Jan-3-23	Lift #3 2 Life Sciences Parkway	0	0
Jan-10-23	Well #1	0	0
Jan-10-23	Well #4	0	0
Jan-10-23	PS#2 400 Hespeler St.	0	0
Jan-10-23	PS#3 316 Park Rd West	0	0
Jan-10-23	City Hall 225 Reimer	0	0
Jan-10-23	Hwy #12 N Enns Bros.	0	0
Jan-10-23	Lift #6	0	0
Jan-10-23	Outdoor Rink	0	0
Jan-17-23	Well #2	0	0
Jan-17-23	Well #5	0	0
Jan-17-23	PS#2 400 Hespeler St.	0	0
Jan-17-23	PS#3 316 Park Rd West	0	0
Jan-17-23	Lift #2 330 Loewen Blvd.	0	0
Jan-17-23	55 Plus 10 Chrysler Gate	0	0
Jan-17-23	Aquatic Centre Park RD. East	0	0
Jan-17-23	Lift #3 2 Life Sciences Parkway	0	0
Jan-25-23	Well #3	0	0
Jan-25-23	Well #4	0	0
Jan-25-23	PS#2 400 Hespeler St.	0	0
Jan-25-23	PS#3 316 Park Rd West	0	0
Jan-25-23	Timber Falls HWY 52W	0	0
Jan-25-23	Clearspring Mall PTH Hwy #12N	0	0
Jan-25-23	PS#1 515 Main St.	0	0
Jan-25-23	The Hospital	0	0
Jan-31-23	Well #1	0	0
Jan-31-23	Well #5	0	0
Jan-31-23	PS#2 400 Hespeler St.	0	0
Jan-31-23	PS#3 316 Park Rd West	0	0
Jan-31-23	City Hall 225 Reimer	0	0
Jan-31-23	Hwy #12 N Enns Bros.	0	0
Jan-31-23	Lift #6	0	0
Jan-31-23	Outdoor Rink	0	0
Feb-7-23	Well #2	0	0
Feb-7-23	Well #4	0	0
Feb-7-23	PS#2 400 Hespeler St.	0	0
Feb-7-23	PS#3 316 Park Rd West	0	0

Feb-7-23	Lift #2 330 Loewen Blvd.	0	0
Feb-7-23	55 Plus 10 Chrysler Gate	0	0
Feb-7-23	Aquatic Centre Park RD. East	0	0
Feb-7-23	Lift #3 2 Life Sciences Parkway	0	0
Feb-14-23	Well #3	0	0
Feb-14-23	Well #5	0	0
Feb-14-23	PS#2 400 Hespeler St.	0	0
Feb-14-23	PS#3 316 Park Rd West	0	0
Feb-14-23	Timber Falls HWY 52W	0	0
Feb-14-23	Clearspring Mall PTH Hwy #12N	0	0
Feb-14-23	PS#1 515 Main St.	0	0
Feb-14-23	The Hospital	0	0
Feb-21-23	Well #1	0	0
Feb-21-23	Well #4	0	0
Feb-21-23	PS#2 400 Hespeler St.	0	0
Feb-21-23	PS#3 316 Park Rd West	0	0
Feb-21-23	City Hall 225 Reimer	0	0
Feb-21-23	Hwy #12 N Enns Bros.	0	0
Feb-21-23	Lift #6	0	0
Feb-21-23	Outdoor Rink	0	0
Feb-28-23	Well #2	0	0
Feb-28-23	Well #5	0	0
Feb-28-23	PS#2 400 Hespeler St.	0	0
Feb-28-23	PS#3 316 Park Rd West	0	0
Feb-28-23	Lift #2 330 Loewen Blvd.	0	0
Feb-28-23	55 Plus 10 Chrysler Gate	0	0
Feb-28-23	Aquatic Centre Park RD. East	0	0
Feb-28-23	Lift #3 2 Life Sciences Parkway	0	0
Mar-7-23	Well #3	0	0
Mar-7-23	Well #4	0	0
Mar-7-23	PS#2 400 Hespeler St.	0	0
Mar-7-23	PS#3 316 Park Rd West	0	0
Mar-7-23	Timber Falls HWY 52W	0	0
Mar-7-23	Clearspring Mall PTH Hwy #12N	0	0
Mar-7-23	PS#1 515 Main St.	0	0
Mar-7-23	The Hospital	0	0
Mar-14-23	Well #1	0	0
Mar-14-23	Well #5	0	0
Mar-14-23	PS#2 400 Hespeler St.	0	0
Mar-14-23	PS#3 316 Park Rd West	0	0
Mar-14-23	City Hall 225 Reimer	0	0
Mar-14-23	Hwy #12 N Enns Bros.	0	0
Mar-14-23	Lift #6	0	0
Mar-14-23	Outdoor Rink	0	0
Mar-21-23	Well #2	0	0
Mar-21-23	Well #4	0	0
Mar-21-23	PS#2 400 Hespeler St.	0	0

Mar-21-23	PS#3 316 Park Rd West	0	0
Mar-21-23	Lift #2 330 Loewen Blvd.	0	0
Mar-21-23	55 Plus 10 Chrysler Gate	0	0
Mar-21-23	Aquatic Centre Park RD. East	0	0
Mar-21-23	Lift #3 2 Life Sciences Parkway	0	0
Mar-28-23	Well #3	0	0
Mar-28-23	Well #5	0	0
Mar-28-23	PS#2 400 Hespeler St.	0	0
Mar-28-23	PS#3 316 Park Rd West	0	0
Mar-28-23	Timber Falls HWY 52W	0	0
Mar-28-23	Clearspring Mall PTH Hwy #12N	0	0
Mar-28-23	PS#1 515 Main St.	0	0
Mar-28-23	The Hospital	0	0
Apr-4-23	Well #1	0	0
Apr-4-23	Well #4	0	0
Apr-4-23	PS#2 400 Hespeler St.	0	0
Apr-4-23	PS#3 316 Park Rd West	0	0
Apr-4-23	City Hall 225 Reimer	0	0
Apr-4-23	Hwy #12 N Enns Bros.	0	0
Apr-4-23	Lift #6	0	0
Apr-4-23	Outdoor Rink	0	0
Apr-11-23	Well #2	0	0
Apr-11-23	Well #5	0	0
Apr-11-23	PS#2 400 Hespeler St.	0	0
Apr-11-23	PS#3 316 Park Rd West	0	0
Apr-11-23	Lift #2 330 Loewen Blvd.	0	0
Apr-11-23	55 Plus 10 Chrysler Gate	0	0
Apr-11-23	Aquatic Centre Park RD. East	0	0
Apr-11-23	Lift #3 2 Life Sciences Parkway	0	0
Apr-18-23	Well #3	0	0
Apr-18-23	Well #4	0	0
Apr-18-23	PS#2 400 Hespeler St.	0	0
Apr-18-23	PS#3 316 Park Rd West	0	0
Apr-18-23	Timber Falls HWY 52W	0	0
Apr-18-23	Clearspring Mall PTH Hwy #12N	0	0
Apr-18-23	PS#1 515 Main St.	0	0
Apr-18-23	The Hospital	0	0
Apr-25-23	Well #1	0	0
Apr-25-23	Well #5	0	0
Apr-25-23	PS#2 400 Hespeler St.	0	0
Apr-25-23	PS#3 316 Park Rd West	0	0
Apr-25-23	City Hall 225 Reimer	0	0
Apr-25-23	Hwy #12 N Enns Bros.	0	0
Apr-25-23	Lift #6	0	0
Apr-25-23	Outdoor Rink	0	0
May-2-23	Well #2	0	0
May-2-23	Well #4	0	0



May-2-23	PS#2 400 Hespeler St.	0	0
May-2-23	PS#3 316 Park Rd West	0	0
May-2-23	Lift #2 330 Loewen Blvd.	0	0
May-2-23	55 Plus 10 Chrysler Gate	0	0
May-2-23	Aquatic Centre Park RD. East	0	0
May-2-23	Lift #3 2 Life Sciences Parkway	0	0
May-9-23	Well #3	1	0
May-9-23	Well #5	0	0
May-9-23	PS#2 400 Hespeler St.	0	0
May-9-23	PS#3 316 Park Rd West	0	0
May-9-23	Timber Falls HWY 52W	0	0
May-9-23	Clearspring Mall PTH Hwy #12N	0	0
May-9-23	PS#1 515 Main St.	0	0
May-9-23	City Operations 51 Millwork Dr.	0	0
May-16-23	Well #1	0	0
May-16-23	Well #4	0	0
May-16-23	PS#2 400 Hespeler St.	0	0
May-16-23	PS#3 316 Park Rd West	0	0
May-16-23	City Hall 225 Reimer	0	0
May-16-23	Hwy #12 N Enns Bros.	0	0
May-16-23	Lift #6	0	0
May-16-23	Outdoor Rink	0	0
May-23-23	Well #2	0	0
May-23-23	Well #5	0	0
May-23-23	PS#2 400 Hespeler St.	0	0
May-23-23	PS#3 316 Park Rd West	0	0
May-23-23	Lift #2 330 Loewen Blvd.	0	0
May-23-23	55 Plus 10 Chrysler Gate	0	0
May-23-23	Aquatic Centre Park RD. East	0	0
May-23-23	Lift #3 2 Life Sciences Parkway	0	0
May-30-23	Well #3	0	0
May-30-23	Well #4	0	0
May-30-23	PS#2 400 Hespeler St.	0	0
May-30-23	PS#3 316 Park Rd West	0	0
May-30-23	Timber Falls HWY 52W	0	0
May-30-23	Clearspring Mall PTH Hwy #12N	0	0
May-30-23	PS#1 515 Main St.	0	0
May-30-23	City Operations 51 Millwork Dr.	0	0
June-6-23	Well #1	0	0
June-6-23	Well #5	0	0
June-6-23	PS#2 400 Hespeler St.	0	0
June-6-23	PS#3 316 Park Rd West	0	0
June-6-23	City Hall 225 Reimer	0	0
June-6-23	Hwy #12 N Enns Bros.	0	0
June-6-23	Lift #6	0	0
June-6-23	Outdoor Rink	0	0
June-13-23	Well #2	0	0

June-13-23	Well #4	0	0
June-13-23	PS#2 400 Hespeler St.	0	0
June-13-23	PS#3 316 Park Rd West	0	0
June-13-23	Lift #2 330 Loewen Blvd.	0	0
June-13-23	55 Plus 10 Chrysler Gate	0	0
June-13-23	Aquatic Centre Park RD. East	0	0
June-13-23	Lift #3 2 Life Sciences Parkway	0	0
June-20-23	Well #3	0	0
June-20-23	Well #5	0	0
June-20-23	PS#2 400 Hespeler St.	0	0
June-20-23	PS#3 316 Park Rd West	0	0
June-20-23	Timber Falls HWY 52W	0	0
June-20-23	Clearspring Mall PTH Hwy #12N	0	0
June-20-23	PS#1 515 Main St.	0	0
June-20-23	City Operations 51 Millwork Dr.	0	0
June-27-23	Well #1	0	0
June-27-23	Well #4	0	0
June-27-23	PS#2 400 Hespeler St.	0	0
June-27-23	PS#3 316 Park Rd West	0	0
June-27-23	City Hall 225 Reimer	0	0
June-27-23	Hwy #12 N Enns Bros.	0	0
June-27-23	Lift #6	0	0
June-27-23	Outdoor Rink	0	0
July-4-23	Well #2	0	0
July-4-23	Well #5	0	0
July-4-23	PS#2 400 Hespeler St.	0	0
July-4-23	PS#3 316 Park Rd West	0	0
July-4-23	Lift #2 330 Loewen Blvd.	0	0
July-4-23	55 Plus 10 Chrysler Gate	0	0
July-4-23	Aquatic Centre Park RD. East	0	0
July-4-23	Lift #3 2 Life Sciences Parkway	0	0
July-11-23	Well #3	0	0
July-11-23	Well #4	0	0
July-11-23	PS#2 400 Hespeler St.	0	0
July-11-23	PS#3 316 Park Rd West	0	0
July-11-23	Timber Falls HWY 52W	0	0
July-11-23	Clearspring Mall PTH Hwy #12N	0	0
July-11-23	PS#1 515 Main St.	0	0
July-11-23	City Operations 51 Millwork Dr.	0	0
July-18-23	Well #1	0	0
July-18-23	Well #5	0	0
July-18-23	PS#2 400 Hespeler St.	0	0
July-18-23	PS#3 316 Park Rd West	0	0
July-18-23	City Hall 225 Reimer	0	0
July-18-23	Hwy #12 N Enns Bros.	0	0
July-18-23	Lift #6	0	0
July-18-23	Outdoor Rink	0	0

July-28-23	Well #2	0	0
July-28-23	Well #4	0	0
July-28-23	PS#2 400 Hespeler St.	0	0
July-28-23	PS#3 316 Park Rd West	0	0
July-28-23	Lift #2 330 Loewen Blvd.	0	0
July-28-23	55 Plus 10 Chrysler Gate	0	0
July-28-23	Aquatic Centre Park RD. East	0	0
July-28-23	Lift #3 2 Life Sciences Parkway	0	0
Aug-1-23	Well #3	0	0
Aug-1-23	Well #5	0	0
Aug-1-23	PS#2 400 Hespeler St.	0	0
Aug-1-23	PS#3 316 Park Rd West	0	0
Aug-1-23	Timber Falls HWY 52W	0	0
Aug-1-23	Clearspring Mall PTH Hwy #12N	0	0
Aug-1-23	PS#1 515 Main St.	0	0
Aug-1-23	City Operations 51 Millwork Dr.	0	0
Aug-8-23	Well #1	0	0
Aug-8-23	Well #4	0	0
Aug-8-23	PS#2 400 Hespeler St.	0	0
Aug-8-23	PS#3 316 Park Rd West	0	0
Aug-8-23	City Hall 225 Reimer	0	0
Aug-8-23	Hwy #12 N Enns Bros.	0	0
Aug-8-23	Lift #6	0	0
Aug-8-23	Outdoor Rink	0	0
Aug-15-23	Well #2	0	0
Aug-15-23	Well #5	0	0
Aug-15-23	PS#2 400 Hespeler St.	0	0
Aug-15-23	PS#3 316 Park Rd West	0	0
Aug-15-23	Lift #2 330 Loewen Blvd.	0	0
Aug-15-23	55 Plus 10 Chrysler Gate	0	0
Aug-15-23	Aquatic Centre Park RD. East	0	0
Aug-15-23	Lift #3 2 Life Sciences Parkway	0	0
Aug-22-23	Well #3	0	0
Aug-22-23	Well #4	0	0
Aug-22-23	PS#2 400 Hespeler St.	0	0
Aug-22-23	PS#3 316 Park Rd West	0	0
Aug-22-23	Timber Falls HWY 52W	0	0
Aug-22-23	Clearspring Mall PTH Hwy #12N	0	0
Aug-22-23	PS#1 515 Main St.	0	0
Aug-22-23	City Operations 51 Millwork Dr.	0	0
Aug-29-23	Well #1	0	0
Aug-29-23	Well #5	0	0
Aug-29-23	PS#2 400 Hespeler St.	0	0
Aug-29-23	PS#3 316 Park Rd West	0	0
Aug-29-23	City Hall 225 Reimer	0	0
Aug-29-23	Hwy #12 N Enns Bros.	0	0
Aug-29-23	Lift #6	0	0

Aug-29-23	Outdoor Rink	0	0
Sept-5-23	Well #2	0	0
Sept-5-23	Well #4	0	0
Sept-5-23	PS#2 400 Hespeler St.	0	0
Sept-5-23	PS#3 316 Park Rd West	0	0
Sept-5-23	Lift #2 330 Loewen Blvd.	0	0
Sept-5-23	55 Plus 10 Chrysler Gate	0	0
Sept-5-23	Aquatic Centre Park RD. East	0	0
Sept-5-23	Lift #3 2 Life Sciences Parkway	0	0
Sept-12-23	Well #3	0	0
Sept-12-23	Well #5	0	0
Sept-12-23	PS#2 400 Hespeler St.	0	0
Sept-12-23	PS#3 316 Park Rd West	0	0
Sept-12-23	Timber Falls HWY 52W	0	0
Sept-12-23	Clearspring Mall PTH Hwy #12N	0	0
Sept-12-23	PS#1 515 Main St.	0	0
Sept-12-23	City Operations 51 Millwork Dr.	0	0
Sept-19-23	Well #1	0	0
Sept-19-23	Well #4	0	0
Sept-19-23	PS#2 400 Hespeler St.	0	0
Sept-19-23	PS#3 316 Park Rd West	0	0
Sept-19-23	City Hall 225 Reimer	0	0
Sept-19-23	Hwy #12 N Enns Bros.	0	0
Sept-19-23	Lift #6	0	0
Sept-19-23	Outdoor Rink	0	0
Sept-26-23	Well #2	0	0
Sept-26-23	Well #5	0	0
Sept-26-23	PS#2 400 Hespeler St.	0	0
Sept-26-23	PS#3 316 Park Rd West	0	0
Sept-26-23	Lift #2 330 Loewen Blvd.	0	0
Sept-26-23	55 Plus 10 Chrysler Gate	0	0
Sept-26-23	Aquatic Centre Park RD. East	0	0
Sept-26-23	Lift #3 2 Life Sciences Parkway	0	0
Oct-3-23	Well #3	0	0
Oct-3-23	Well #4	0	0
Oct-3-23	PS#2 400 Hespeler St.	0	0
Oct-3-23	PS#3 316 Park Rd West	0	0
Oct-3-23	Timber Falls HWY 52W	0	0
Oct-3-23	Clearspring Mall PTH Hwy #12N	0	0
Oct-3-23	PS#1 515 Main St.	0	0
Oct-3-23	City Operations 51 Millwork Dr.	0	0
Oct-10-23	Well #1	0	0
Oct-10-23	Well #5	0	0
Oct-10-23	PS#2 400 Hespeler St.	0	0
Oct-10-23	PS#3 316 Park Rd West	0	0
Oct-10-23	City Hall 225 Reimer	0	0
Oct-10-23	Hwy #12 N Enns Bros.	0	0

Oct-10-23	Lift #6	0	0
Oct-10-23	Outdoor Rink	0	0
Oct-17-23	Well #2	0	0
Oct-17-23	Well #4	0	0
Oct-17-23	PS#2 400 Hespeler St.	0	0
Oct-17-23	PS#3 316 Park Rd West	0	0
Oct-17-23	Lift #2 330 Loewen Blvd.	0	0
Oct-17-23	55 Plus 10 Chrysler Gate	0	0
Oct-17-23	Aquatic Centre Park RD. East	0	0
Oct-17-23	Lift #3 2 Life Sciences Parkway	0	0
Oct-24-23	Well #3	0	0
Oct-24-23	Well #5	0	0
Oct-24-23	PS#2 400 Hespeler St.	0	0
Oct-24-23	PS#3 316 Park Rd West	0	0
Oct-24-23	Timber Falls HWY 52W	0	0
Oct-24-23	Clearspring Mall PTH Hwy #12N	0	0
Oct-24-23	PS#1 515 Main St.	0	0
Oct-24-23	City Operations 51 Millwork Dr.	0	0
Oct-31-23	Well #1	0	0
Oct-31-23	Well #4	0	0
Oct-31-23	PS#2 400 Hespeler St.	0	0
Oct-31-23	PS#3 316 Park Rd West	0	0
Oct-31-23	City Hall 225 Reimer	0	0
Oct-31-23	Hwy #12 N Enns Bros.	0	0
Oct-31-23	Lift #6	0	0
Oct-31-23	Outdoor Rink	0	0
Nov-7th-23	Well #2	0	0
Nov-7th-23	Well #5	0	0
Nov-7th-23	PS#2 400 Hespeler St.	0	0
Nov-7th-23	PS#3 316 Park Rd West	0	0
Nov-7th-23	Lift #2 330 Loewen Blvd.	0	0
Nov-7th-23	55 Plus 10 Chrysler Gate	0	0
Nov-7th-23	Aquatic Centre Park RD. East	0	0
Nov-7th-23	Lift #3 2 Life Sciences Parkway	0	0
Nov-14-23	Well #3	0	0
Nov-14-23	Well #4	0	0
Nov-14-23	PS#2 400 Hespeler St.	0	0
Nov-14-23	PS#3 316 Park Rd West	0	0
Nov-14-23	Timber Falls HWY 52W	0	0
Nov-14-23	Clearspring Mall PTH Hwy #12N	0	0
Nov-14-23	PS#1 515 Main St.	0	0
Nov-14-23	City Operations 51 Millwork Dr.	0	0
Nov-21-23	Well #1	0	0
Nov-21-23	Well #5	0	0
Nov-21-23	PS#2 400 Hespeler St.	0	0
Nov-21-23	PS#3 316 Park Rd West	0	0
Nov-21-23	City Hall 225 Reimer	0	0

Nov-21-23	Hwy #12 N Enns Bros.	0	0
Nov-21-23	Lift #6	0	0
Nov-21-23	Outdoor Rink	0	0
Nov-28-23	Well #2	0	0
Nov-28-23	Well #4	0	0
Nov-28-23	PS#2 400 Hespeler St.	0	0
Nov-28-23	PS#3 316 Park Rd West	0	0
Nov-28-23	Lift #2 330 Loewen Blvd.	0	0
Nov-28-23	55 Plus 10 Chrysler Gate	0	0
Nov-28-23	Aquatic Centre Park RD. East	0	0
Nov-28-23	Lift #3 2 Life Sciences Parkway	0	0
Dec-5-23	Well #3	0	0
Dec-5-23	Well #5	0	0
Dec-5-23	PS#2 400 Hespeler St.	0	0
Dec-5-23	PS#3 316 Park Rd West	0	0
Dec-5-23	Timber Falls HWY 52W	0	0
Dec-5-23	Clearspring Mall PTH Hwy #12N	0	0
Dec-5-23	PS#1 515 Main St.	0	0
Dec-5-23	City Operations 51 Millwork Dr.	0	0
Dec-12-23	Well #1	0	0
Dec-12-23	Well #4	0	0
Dec-12-23	PS#2 400 Hespeler St.	0	0
Dec-12-23	PS#3 316 Park Rd West	0	0
Dec-12-23	City Hall 225 Reimer	0	0
Dec-12-23	Hwy #12 N Enns Bros.	0	0
Dec-12-23	Lift #6	0	0
Dec-12-23	Outdoor Rink	0	0
Dec-19-23	Well #2	0	0
Dec-19-23	Well #5	0	0
Dec-19-23	PS#2 400 Hespeler St.	0	0
Dec-19-23	PS#3 316 Park Rd West	0	0
Dec-19-23	Lift #2 330 Loewen Blvd.	0	0
Dec-19-23	55 Plus 10 Chrysler Gate	0	0
Dec-19-23	Aquatic Centre Park RD. East	0	0
Dec-19-23	Lift #3 2 Life Sciences Parkway	0	0
Dec-27-23	Well #3	0	0
Dec-27-23	Well #4	0	0
Dec-27-23	PS#2 400 Hespeler St.	0	0
Dec-27-23	PS#3 316 Park Rd West	0	0
Dec-27-23	Timber Falls HWY 52W	0	0
Dec-27-23	Clearspring Mall PTH Hwy #12N	0	0
Dec-27-23	PS#1 515 Main St.	0	0
Dec-27-23	City Operations 51 Millwork Dr.	0	0

**CORRECTIVE ACTION REPORT**



WATER SYSTEM: Steinbach Public Water System WATER SYSTEM CODE: 219.00

LOCATION OF NON-COMPLIANCE INCIDENT (ex. Water Plant): Pu m Stati no

OPERATOR: Allen Sterk Signature: [Signature]

**TYPE OF NON-COMPLIANCE INCIDENT:**

- Low disinfectant residual entering the distribution system, 21(1) MR 40/2007
- Low disinfectant residual in the distribution system, 22 MR 40/2007
- Filtered water turbidity exceeding the turbidity standard, 6(1) MR 41/2007
- Low positive total coliform (< 10 CFU/100mL), 3 MR 41/2007
- Other

**INITIAL TEST RESULTS:**

0.01 DATE: Aug-9-2023

**DESCRIPTION OF CORRECTIVE ACTIONS TAKEN (attach additional sheets if required):**

On August 9th we cleaned and calibrated the Chlorine analyzer at Pumping station #2. That is the reason for the 23 readings less than 0.50 PPM

TEST RESULTS AFTER CORRECTIVE ACTIONS: [ ] DATE: Aug-9-2023

(attach laboratory results if applicable)

**EMERGENCY REPORTING IS REQUIRED WHERE A POTENTIAL HEALTH RISK IS INVOLVED. FOLLOW THE INSTRUCTIONS OF YOUR DRINKING WATER OFFICER ON SITUATIONS REQUIRING IMMEDIATE REPORTING.**

DISTRIBUTION:

FORWARD THE ORIGINAL TO YOUR DRINKING WATER OFFICER WITH YOUR MONTHLY DISINFECTION OR TURBIDITY MONITORING REPORT  
RETAIN A COPY FOR YOUR RECORDS

Contact your Drinking Water Officer with any comments, questions or concerns.

**CORRECTIVE ACTION REPORT**



WATER SYSTEM: Steinbach Public Water System WATER SYSTEM CODE: 219.00

LOCATION OF NON-COMPLIANCE INCIDENT (ex. Water Plant): Pump Station

OPERATOR: Allen Sterk Signature: *Allen Sterk*

**TYPE OF NON-COMPLIANCE INCIDENT:**

- Low disinfectant residual entering the distribution system, 21(1) MR 40/2007
- Low disinfectant residual in the distribution system, 22 MR 40/2007
- Filtered water turbidity exceeding the turbidity standard, 6(1) MR 41/2007
- Low positive total coliform (< 10 CFU/100mL), 3 MR 41/2007
- Other

**INITIAL TEST RESULTS:**

0.00 DATE: Mar-6-23

**DESCRIPTION OF CORRECTIVE ACTIONS TAKEN (attach additional sheets if required):**

On March 6th 2023 we cleaned the Distribution Chlorine Analyzer. That is why the SCADA tracked 51 readings under 0.50PPM

TEST RESULTS AFTER CORRECTIVE ACTIONS:                      DATE: April 3-23

(attach laboratory results if applicable)

**EMERGENCY REPORTING IS REQUIRED WHERE A POTENTIAL HEALTH RISK IS INVOLVED. FOLLOW THE INSTRUCTIONS OF YOUR DRINKING WATER OFFICER ON SITUATIONS REQUIRING IMMEDIATE REPORTING.**

DISTRIBUTION:

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Contact your Drinking Water Officer with any comments, questions or concerns.



# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: January

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine (ppm)	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:53 AM	RM	RM	1.03	1.00	1.41	0.97	0.93	1402		2582
2	8:42 AM	RM	RM	0.96	0.92	1.23	0.92	0.90	1331		3535
3	9:32 AM	AS	DH	0.94	0.92	1.17	0.94	0.90	1351		3265
4	10:34 AM	AS	DH	1.02	0.94	1.32	0.99	0.93	1430		3197
5	10:29 AM	AS	AS	0.99	1.03	1.31	1.08	1.04	1551		3214
6	11:05 AM	AS	AS	1.07	1.10	1.39	1.10	1.06	1585		2686
7	8:54 AM	DL	DL	1.07	1.09	1.38	1.12	1.06	1612		2980
8	9:00 AM	DL	DL	1.18	1.18	1.48	1.17	1.12	1685		3468
9	10:37 AM	AS	DH	1.06	1.09	1.39	1.10	1.06	1590		3922
10	10:52 AM	AS	DH	1.04	1.07	1.25	1.06	1.03	1528		3333
11	9:02 AM	AS	DH	1.06	1.03	1.37	1.04	1.00	1493		3896
12	10:20 AM	AS	AP	1.00	0.99	1.39	1.04	0.99	1496		3847
13	10:43 AM	AS	AP	1.06	1.01	1.37	1.01	0.96	1454		2854
14	8:52 AM	AP	AP	1.00	0.94	1.31	0.93	0.93	1341		2942
15	8:54 AM	AP	AP	0.99	0.92	1.20	0.92	0.90	1322		3397
16	10:59 AM	AS	AP	0.95	0.91	1.24	0.89	0.87	1281		3040
17	9:09 AM	AS	AP	0.95	0.95	1.11	0.97	0.87	1391		3310
18	10:30 AM	AS	DH	1.03	1.04	1.32	1.05	1.02	1508		2978
19	8:59 AM	AS	AP	1.08	1.03	1.35	1.03	1.02	1484		3312
20	9:23 AM	AS	DH	0.96	1.03	1.25	0.98	0.93	1414		2950
21	9:22 AM	AS	AS	0.99	0.91	1.31	0.94	0.90	1359		3153
22	8:45 AM	AS	AS	0.83	0.93	1.15	0.88	0.85	1274		3126
23	8:16 AM	AS	DH	0.87	0.84	1.17	0.89	0.85	1276		3407
24	8:50 AM	AS	AS	0.93	0.88	1.19	0.97	0.88	1398		3318
25	8:11 AM	AS	DH	0.99	0.98	1.30	1.00	0.91	1441		3340
26	8:37 AM	AS	DH	1.02	1.08	1.32	1.08	1.00	1549		3028
27	8:15 AM	DH	DH	1.03	1.04	1.35	1.02	0.97	1464		3252
28	8:49 AM	RM	RM	0.94	0.98	1.25	0.99	0.97	1430		3201
29	8:50 AM	RM	RM	0.89	0.91	1.26	0.91	0.78	1305		2948
30	8:55 AM	AS	AS	0.83	0.74	1.13	0.86	0.75	1240		3303
31	8:37 AM	AS	AS	1.02	1.04	1.33	1.07	0.93	1542		3035

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

Andy Froese (OIC) AF  
 Allen Sterk (OIC) AS  
 Rudy Martens (OIC) RM  
 David Loewen (OIC) DL

Marvin Penner MP  
 Alec Plett AP  
 Darren Henton DH  
 Jesse Bilewitch JB

Mike Heppner (OIC) MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: January

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine (ppm)	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	7:42 AM	RM	RM	0.76	0.77	0.96	0.77	0.61	1105		1346
2	7:40 AM	RM	RM	0.69	0.70	0.92	0.70	0.56	1005		1344
3	8:00 AM	AS	DH	0.66	0.64	0.83	0.64	0.54	918		1375
4	8:23 AM	AS	DH	0.59	0.61	0.77	0.64	0.47	923		1332
5	8:18 AM	AS	DH	0.69	0.71	0.90	0.72	0.57	1039		1351
6	8:36 AM	AS	AS	0.72	0.72	0.92	0.74	0.48	1072		1308
7	7:50 AM	DL	DL	0.84	0.84	1.08	0.81	0.70	1173		1353
8	8:08 AM	DL	DL	0.82	0.84	1.07	0.80	0.71	1155		1363
9	8:46 AM	AS	DH	0.80	0.79	1.01	0.76	0.70	1095		829
10	8:10 AM	AS	DH	0.72	0.77	0.94	0.75	0.72	1080		721
11	8:05 AM	AS	DH	0.67	0.68	0.86	0.70	0.65	1008		762
12	8:12 AM	AS	AP	0.71	0.74	0.95	0.74	0.66	1060		760
13	8:20 AM	AS	AP	0.70	0.72	0.92	0.83	0.61	1190		1238
14	7:38 AM	AP	AP	0.85	0.85	1.08	0.87	0.70	1256		1348
15	7:41 AM	AP	AP	0.94	0.96	1.20	0.92	0.79	1327		1391
16	8:13 AM	AP	AP	0.84	0.82	1.03	0.82	0.75	1176		1315
17	8:09 AM	AS	DH	0.78	0.81	0.93	0.82	0.75	1188		1349
18	8:08 AM	AS	DH	0.85	0.84	1.14	0.83	0.76	1200		1353
19	8:02 AM	AS	DH	0.86	0.88	1.10	0.89	0.81	1275		1338
20	8:13 AM	AS	DH	0.84	0.87	1.10	0.85	0.78	1229		1318
21	8:16 AM	AS	AS	0.82	0.89	1.08	0.84	0.79	1204		1304
22	7:43 AM	AS	AS	0.85	0.81	1.14	0.82	0.75	1184		1429
23	8:23 AM	AS	AP	0.85	0.85	1.13	0.84	0.76	1204		1297
24	8:07 AM	AS	DH	0.86	0.82	1.09	0.82	0.76	1181		1275
25	7:25 AM	AS	AS	0.83	0.85	1.15	0.85	0.76	1227		1409
26	8:20 AM	AS	AS	0.84	0.86	1.17	0.85	0.78	1223		1391
27	8:46 AM	DL	DL	0.96	0.84	1.13	0.86	0.77	1241		1290
28	7:40 AM	RM	RM	0.77	0.80	0.98	0.77	0.70	1108		1347
29	7:43 AM	RM	RM	0.70	0.73	0.88	0.78	0.69	1123		1346
30	8:22 AM	DL	DL	0.67	0.74	0.96	0.78	0.71	1124		1332
31	8:12 AM	AS	DH	0.67	0.79	0.84	0.78	0.69	1127		1386

Submitted By (Print):

Allen Sterk

Signature:



**Operators:**

Andy Froese (OIC) AF  
 Allen Sterk (OIC) AS  
 Rudy Martens (OIC) RM  
 David Loewen (OIC) DL

Marvin Penner MP  
 Alec Plett AP  
 Darren Henton DH  
 Jesse Bilewitch JB

Mike Heppner (OIC) MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: **CITY OF STEINBACH**

Water System Code: **219.00**

Month: **February**

Year: **2023**

Flow Meter or Daily Consumption:     **Treated**    

Daily Consumption Units: **All units in m<sup>3</sup>**

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:00 AM	AS	DH	1.06	1.07	1.36	1.07	1.02	1534		3671
2	10:47 AM	AS	DH	1.03	0.97	1.33	0.98	0.95	1415		2901
3	10:23 AM	AS	AS	0.93	0.94	1.23	0.93	0.80	1334		2897
4	8:40 AM	DH	DH	0.84	0.90	1.10	0.87	0.81	1250		3067
5	8:47 AM	DH	DH	0.78	0.81	1.04	0.83	0.81	1192		2836
6	8:03 AM	AS	DH	0.76	0.80	1.00	0.81	0.78	1170		3485
7	8:59 AM	AS	AP	0.78	0.75	0.93	0.83	0.72	1194		3032
8	7:25 AM	AS	DH	0.91	0.88	1.17	0.90	0.84	1293		3402
9	8:36 AM	AS	DH	0.93	0.88	1.20	0.91	0.87	1307		3146
10	8:00 AM	AS	AP	1.01	0.96	1.31	0.98	0.93	1407		3327
11	8:51 AM	AP	AP	0.97	0.93	1.28	0.94	0.93	1355		3130
12	9:00 AM	AP	AP	0.98	0.89	1.17	0.92	0.87	1331		3002
13	8:00 AM	AS	DH	0.95	0.93	1.17	0.93	0.90	1345		2698
14	8:00 AM	AS	AS	0.88	0.88	1.15	0.90	0.87	1294		3531
15	10:52 AM	AS	DH	0.82	0.88	1.13	0.91	0.87	1317		3513
16	10:10 AM	AS	AS	0.87	0.93	1.23	0.87	0.73	1249		3523
17	10:16 AM	AS	DH	0.83	0.81	1.09	0.82	0.76	1176		2878
18	8:50 AM	DL	DL	0.77	0.79	1.04	0.82	0.79	1177		3233
19	8:57 AM	DL	DL	0.84	0.83	1.07	0.81	0.79	1167		2717
20	8:47 AM	DL	DL	0.83	0.80	1.05	0.81	0.79	1164		3487
21	8:58 AM	DH	AP	0.83	0.82	1.08	0.82	0.79	1174		3049
22	10:13 AM	DH	DH	0.91	0.86	1.16	0.91	0.82	1305		2918
23	8:28 AM	DH	DH	0.93	0.97	1.23	0.94	0.60	1355		3379
24	9:54 AM	DH	DH	0.96	0.92	1.22	0.94	0.90	1347		2773
25	8:32 AM	DH	DH	0.92	0.94	1.22	0.93	0.90	1336		2968
26	8:39 AM	DH	DH	0.93	0.88	1.18	0.89	0.87	1274		2899
27	9:03 AM	DH	DH	0.83	0.85	1.10	0.86	0.84	1237		3607
28	8:53 AM	DH	RM	0.88	0.87	1.17	0.84	0.81	1217		3498
29											
30											
31											

Submitted By (Print):

*Allen Sterk*

Signature:

*Allen Sterk*

**Operators:**

Andy Froese (OIC) AF  
 Allen Sterk (OIC) AS  
 Rudy Martens (OIC) RM  
 David Loewen (OIC) DL

Marvin Penner MP  
 Alec Plett AP  
 Darren Henton DH  
 Jesse Bilewicz JB

Mike Heppner (OIC) MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: February

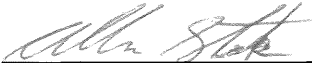
Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:45 AM	AS	DH	0.71	0.78	0.94	0.73	0.64	1045		1331
2	8:45 AM	AS	DH	0.68	0.71	0.91	0.71	0.62	1024		1308
3	7:58 AM	AS	DH	0.73	0.75	0.96	0.76	0.67	1092		1327
4	7:43 AM	DH	DH	0.89	0.83	1.05	0.81	0.69	1164		1335
5	7:39 AM	DH	DH	0.84	0.84	1.02	0.81	0.71	1169		1412
6	8:42 AM	AS	DH	0.82	0.86	1.08	0.85	0.72	1227		1298
7	8:12 AM	AS	AP	0.83	0.92	0.99	0.88	0.78	1271		886
8	6:10 AM	AS	DH	0.77	0.82	1.00	0.80	0.73	1154		1451
9	8:04 AM	AS	DH	0.77	0.77	0.95	0.77	0.69	1113		1346
10	8:15 AM	AS	AS	0.75	0.79	1.01	0.80	0.70	1152		1331
11	7:43 AM	AP	AP	0.79	0.85	1.02	0.83	0.73	1192		1342
12	7:40 AM	AP	AP	0.82	0.83	1.03	0.84	0.75	1213		1361
13	8:05 AM	AS	AP	0.81	0.86	1.02	0.85	0.75	1221		1897
14	8:05 AM	AS	DH	0.84	0.85	1.01	0.86	0.79	1243		1615
15	8:08 AM	AS	DH	0.85	0.86	1.07	0.85	0.79	1227		1339
16	8:20 AM	AS	DH	0.83	0.86	1.11	0.86	0.74	1244		1329
17	8:07 AM	AS	DH	0.81	0.86	1.07	0.84	0.80	1217		1323
18	7:53 AM	DL	DL	0.84	0.81	0.98	0.81	0.75	1164		1347
19	7:56 AM	DL	DL	0.80	0.81	1.01	0.81	0.73	1164		1338
20	7:51 AM	DL	DL	0.81	0.79	0.99	0.79	0.74	1144		1357
21	8:15 AM	DL	AP	0.65	0.76	0.88	0.76	0.71	1094		1377
22	8:18 AM	DH	DH	0.69	0.73	0.94	0.73	0.68	1053		1337
23	8:25 AM	DH	AP	0.74	0.78	0.98	0.78	0.68	1126		1308
24	8:02 AM	DH	DH	0.78	0.80	0.99	0.81	0.74	1172		1322
25	7:34 AM	DH	DH	0.89	0.83	1.06	0.84	0.75	1206		1341
26	7:38 AM	DH	DH	0.81	0.83	1.02	0.82	0.75	1179		1358
27	7:59 AM	DH	DH	0.74	0.79	0.98	0.78	0.71	1126		1334
28	7:55 AM	DH	RM	0.75	0.73	0.94	0.76	0.71	1090		1371
29											
30											
31											

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

- |                         |                     |
|-------------------------|---------------------|
| Andy Froese (OIC)   AF  | Marvin Penner   MP  |
| Allen Sterk (OIC)   AS  | Alec Plett   AP     |
| Rudy Martens (OIC)   RM | Darren Henton   DH  |
| David Loewen (OIC)   DL | Jesse Bilewicz   JB |

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: March


Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	10:02 AM	DH	DH	0.87	0.76	1.06	0.80	0.75	1148		3266
2	10:12 AM	AS	DH	0.86	0.75	1.10	0.81	0.74	1164		3143
3	10:19 AM	AS	DH	0.82	0.79	1.08	0.81	0.79	1163		2854
4	8:50 AM	AS	AS	0.88	0.80	1.16	0.83	0.76	1189		3102
5	8:48 AM	AS	AS	0.83	0.83	1.12	0.85	0.82	1218		3036
6	8:53 AM	AS	DH	0.90	0.91	1.18	0.89	0.55	1286		3654
7	10:38 AM	AS	AS	0.91	0.92	1.25	0.93	0.89	1337		3048
8	10:02 AM	AS	DH	0.92	0.94	1.18	0.94	0.92	1353		3003
9	10:32 AM	AS	AS	0.88	0.90	1.21	0.91	0.89	1308		2851
10	9:01 AM	AS	DH	0.85	0.91	1.11	0.89	0.86	1286		2886
11	8:42 AM	RM	RM	0.86	0.87	1.10	0.87	0.86	1258		2772
12	8:42 AM	RM	RM	0.88	0.84	1.18	0.84	0.83	1161		3354
13	10:40 AM	AS	AS	0.87	0.83	1.14	0.86	0.83	1235		3022
14	9:15 AM	AS	AP	0.89	0.86	1.16	0.86	0.84	1241		3265
15	10:15 AM	AS	AP	0.88	0.84	1.16	0.85	0.84	1217		3193
16	10:15 AM	DH	AP	0.90	0.87	1.15	0.86	0.84	1245		3226
17	10:28 AM	AS	DH	0.90	0.89	1.09	0.91	0.87	1304		2725
18	8:53 AM	AP	AP	0.88	0.93	1.14	0.97	0.90	1392		3051
19	8:50 AM	AP	AP	1.00	1.04	1.21	1.02	0.99	1471		3194
20	9:53 AM	AS	AP	0.96	1.00	1.18	1.02	0.99	1475		3448
21	9:01 AM	AS	AP	0.94	0.97	1.16	0.95	0.90	1363		3057
22	8:59 AM	AS	DH	0.92	0.88	1.15	0.88	0.87	1268		3421
23	11:00 AM	AS	AS	0.88	0.84	1.16	0.90	0.84	1291		3162
24	9:56 AM	AS	DL	0.89	0.98	1.18	0.93	0.89	1341		2867
25	8:45 AM	DL	DL	0.88	0.92	1.23	0.91	0.89	1306		3109
26	8:55 AM	DL	DL	0.97	0.91	1.16	0.96	0.89	1376		3206
27	8:58 AM	DH	DH	0.96	1.00	1.11	1.00	0.99	1438		3585
28	10:40 AM	AS	DH	0.86	0.97	1.12	0.93	0.86	1334		3261
29	10:22 AM	AS	AS	0.95	0.95	1.22	0.94	0.89	1347		3007
30	10:10 AM	AS	AP	0.94	0.94	1.21	0.93	0.89	1336		4170
31	10:22 AM	AS	AP	0.96	0.94	1.21	0.93	0.86	1335		2945

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH  
 Jesse Bilewicz | JB

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: March

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:01 AM	DH	DH	0.74	0.73	0.91	0.74	0.69	1072		1363
2	8:26 AM	AS	DH	0.78	0.75	0.93	0.76	0.67	1101		1328
3	8:16 AM	AS	DH	0.85	0.81	1.00	0.81	0.76	1162		1289
4	7:46 AM	AS	AS	0.75	0.79	0.99	0.79	0.71	1130		1337
5	7:38 AM	AS	AS	0.75	0.77	0.97	0.78	0.71	1121		1375
6	7:57 AM	AS	DH	0.76	0.79	0.98	0.77	0.00	1111	51	1351
7	8:08 AM	AS	DH	0.83	0.80	1.05	0.83	0.71	1193		1334
8	8:18 AM	AS	DH	0.93	0.90	1.19	0.88	0.82	1270		1370
9	8:08 AM	AS	AS	0.86	0.86	1.16	0.87	0.80	1257		1318
10	8:06 AM	AS	DH	0.91	0.89	1.17	0.87	0.83	1257		1335
11	7:47 AM	RM	RM	0.86	0.83	1.15	0.83	0.79	1200		1309
12	7:37 AM	RM	RM	0.86	0.83	1.11	0.80	0.77	1109		1365
13	8:08 AM	AS	AS	0.84	0.75	1.07	0.78	0.73	1127		1363
14	8:24 AM	AS	DH	0.85	0.76	0.99	0.84	0.71	1212		1333
15	7:58 AM	AS	AP	0.85	0.90	1.07	0.90	0.83	1300		1327
16	7:58 AM	DH	AP	0.81	0.87	1.04	0.87	0.80	1254		1355
17	8:10 AM	AS	AP	0.82	0.84	1.04	0.85	0.80	1225		1318
18	7:42 AM	AP	AP	0.83	0.85	1.03	0.85	0.79	1231		1347
19	7:40 AM	AP	AP	0.80	0.85	1.04	0.86	0.80	1237		1350
20	7:57 AM	AS	AP	0.82	0.85	1.06	0.85	0.78	1229		1354
21	8:16 AM	AS	AP	0.77	0.84	0.91	0.83	0.78	1194		1337
22	8:01 AM	AS	DH	0.78	0.81	0.99	0.82	0.75	1186		1360
23	8:31 AM	AS	AS	0.77	0.82	1.02	0.83	0.77	1189		1332
24	8:12 AM	AS	DL	0.88	0.82	1.02	0.86	0.76	1238		1325
25	7:55 AM	DL	DL	0.85	0.88	1.00	0.86	0.81	1237		1349
26	8:00 AM	DL	DL	0.78	0.83	0.98	0.83	0.77	1200		1340
27	7:56 AM	DH	DH	0.74	0.82	0.95	0.77	0.73	1111		1353
28	8:10 AM	AS	DH	0.73	0.74	0.89	0.76	0.63	1099		1337
29	7:59 AM	AS	DH	0.77	0.78	0.98	0.79	0.74	1143		1367
30	8:14 AM	AS	DH	0.79	0.77	0.99	0.79	0.71	1141		322
31	7:55 AM	AS	DH	0.70	0.78	0.93	0.80	0.69	1154		994

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH  
 Jesse Bilewicz | JB

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: April


Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:34 AM	DH	DH	0.90	0.95	1.18	0.94	0.92	1355		2872
2	8:30 AM	DH	DH	0.89	0.90	1.18	0.90	0.89	1296		3378
3	10:25 AM	AS	AS	0.90	0.94	1.23	0.94	0.92	1353		3078
4	10:08 AM	AS	AS	0.86	0.93	1.13	0.91	0.88	1310		3201
5	10:58 AM	AS	AP	0.92	0.91	1.24	0.91	0.73	1310		3020
6	10:37 AM	AS	AP	0.91	0.94	1.19	0.95	0.91	1363		2592
7	8:56 AM	AP	AP	0.95	0.95	1.25	0.95	0.91	1368		2919
8	8:56 AM	AP	AP	0.98	0.98	1.29	1.02	0.97	1465		3019
9	8:26 AM	AP	AP	1.00	1.03	1.26	1.01	0.97	1451		3341
10	10:12 AM	AS	AP	0.92	0.92	1.20	0.93	0.91	1343		3472
11	8:37 AM	AS	AP	0.95	0.97	1.21	0.95	0.91	1371		3369
12	10:10 AM	AS	AP	0.95	0.93	1.24	0.93	0.89	1338		3146
13	10:08 AM	AS	DH	0.97	0.87	1.21	0.92	0.86	1330		3074
14	8:35 AM	AS	RM	0.91	0.94	1.19	0.95	0.93	1365		2598
15	8:44 AM	RM	RM	0.88	0.93	1.19	0.92	0.90	1325		3113
16	9:25 AM	RM	RM	0.84	0.88	1.14	0.92	0.87	1322		3344
17	10:33 AM	AS	AS	0.99	0.97	1.28	0.97	0.93	1390		3570
18	10:45 AM	AS	DH	0.97	0.95	1.22	0.94	0.93	1350		3415
19	11:00 AM	AS	AS	0.98	0.93	1.28	0.96	0.90	1380		3042
20	10:30 AM	AS	AS	0.94	0.93	1.22	0.94	0.91	1355		3024
21	10:19 AM	AS	DH	0.93	0.93	1.21	0.94	0.91	1356		2897
22	8:50 AM	AS	AS	0.95	0.96	1.24	0.95	0.94	1368		3110
23	8:53 AM	AS	AS	0.93	0.94	1.25	0.94	0.88	1358		3626
24	10:15 AM	AS	AS	0.90	1.05	1.19	0.99	0.92	1424		3469
25	9:45 AM	AS	AS	0.86	1.02	1.14	0.93	0.85	1335		2897
26	9:58 AM	AS	DH	0.93	0.94	1.20	0.95	0.91	1369		3253
27	9:58 AM	AS	AS	0.95	0.97	1.17	0.97	0.94	1392		3171
28	10:14 AM	AS	DH	0.89	0.95	1.15	0.92	0.89	1332		2905
29	8:55 AM	DL	DL	0.87	0.91	1.13	0.90	0.87	1299		3002
30	8:51 AM	DL	DL	0.92	0.86	1.16	0.91	0.84	1307		3270
31											

Submitted By (Print): Allen Sterk

Signature: 

Operators:  
 Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH  
 Jesse Bilewicz | JB

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: **CITY OF STEINBACH**

Water System Code: **219.00**

Month: **April**


Year: **2023**

Flow Meter or Daily Consumption: **Treated**

Daily Consumption Units: **All units in m<sup>3</sup>**

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	7:33 AM	DH	DH	0.72	0.73	0.91	0.73	0.68	1051		1343
2	7:34 AM	DH	DH	0.72	0.73	0.93	0.73	0.67	1051		1389
3	8:14 AM	AS	DH	0.70	0.70	0.88	0.70	0.60	1009		1340
4	8:20 AM	AS	DH	0.73	0.70	0.90	0.70	0.63	1004		1345
5	8:18 AM	AS	AP	0.73	0.65	0.91	0.71	0.60	1024		1327
6	8:07 AM	AS	AP	0.71	0.73	0.89	0.73	0.68	1056		1326
7	7:44 AM	AP	AP	0.75	0.71	0.94	0.76	0.65	1099		1341
8	7:38 AM	AP	AP	0.85	0.84	1.05	0.85	0.75	1229		1351
9	7:45 AM	AP	AP	0.89	0.88	1.16	0.86	0.74	1241		1346
10	8:07 AM	AS	AP	0.86	0.87	1.09	0.86	0.79	1244		1338
11	8:10 AM	AS	AP	0.80	0.84	0.94	0.82	0.72	1177		1350
12	8:10 AM	AS	AP	0.75	0.77	0.98	0.77	0.68	1114		1351
13	8:12 AM	AS	DH	0.77	0.76	0.99	0.77	0.65	1102		1321
14	8:12 AM	AS	AS	0.75	0.75	0.97	0.75	0.65	1084		1338
15	7:39 AM	RM	RM	0.76	0.76	1.05	0.77	0.65	1110		1391
16	8:20 AM	RM	RM	0.77	0.75	0.98	0.76	0.65	1091		1332
17	8:24 AM	AS	DH	0.85	0.79	1.08	0.83	0.68	1199		1333
18	7:56 AM	AS	DH	0.85	0.82	0.99	0.85	0.68	1217		1333
19	8:35 AM	AS	AS	0.88	0.89	1.12	0.88	0.76	1267		1345
20	8:40 AM	AS	AS	0.87	0.89	1.12	0.86	0.80	1245		1341
21	8:36 AM	AS	AS	0.77	0.82	1.03	0.86	0.71	1233		1295
22	7:46 AM	AS	AS	0.90	0.89	1.09	0.87	0.75	1259		1349
23	7:54 AM	AS	AS	0.80	0.82	1.03	0.86	0.74	1232		1362
24	7:55 AM	AS	DH	0.88	0.87	1.12	0.86	0.77	1244		1357
25	8:20 AM	AS	DH	0.81	0.83	1.01	0.87	0.76	1252		1337
26	8:01 AM	AS	DH	0.94	0.92	1.16	0.89	0.78	1280		1349
27	8:06 AM	AS	DH	0.81	0.83	1.01	0.86	0.76	1233		1339
28	8:07 AM	AS	DH	0.85	0.85	1.09	0.83	0.75	1193		1320
29	7:49 AM	DL	DL	0.85	0.84	1.05	0.81	0.75	1172		1342
30	7:56 AM	DL	DL	0.81	0.84	1.04	0.80	0.74	1154		1368
31											

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

- Andy Froese (OIC) AF
- Allen Sterk (OIC) AS
- Rudy Martens (OIC) RM
- David Loewen (OIC) DL

- Marvin Penner MP
- Alec Plett AP
- Darren Henton DH
- Jesse Bilewicz JB

Mike Heppner (OIC) MH



# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: May

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	9:55 AM	AS	DH	0.92	0.91	1.14	0.93	0.89	1341		3705
2	9:48 AM	AS	DH	0.90	0.91	1.09	0.93	0.89	1340		3134
3	10:19 AM	AS	AS	0.87	0.89	1.14	0.89	0.86	1281		3234
4	9:07 AM	AS	DH	0.91	0.88	1.14	0.88	0.83	1263		3437
5	9:03 AM	AS	AP	0.89	0.87	1.11	0.86	0.83	1237		2974
6	8:57 AM	AP	AP	0.86	0.83	1.11	0.84	0.80	1209		3112
7	8:55 AM	AP	AP	0.86	0.84	1.11	0.82	0.77	1178		2916
8	9:11 AM	DH	DH	0.78	0.81	1.01	0.83	0.80	1200		3541
9	11:14 AM	DH	DH	0.81	0.89	1.04	0.87	0.80	1246		3185
10	10:08 AM	DH	DH	0.82	0.88	1.12	0.92	0.86	1323		3749
11	10:12 AM	DH	DH	0.84	0.91	1.11	0.91	0.85	1308		3461
12	10:00 AM	DH	AP	0.92	0.87	1.17	0.89	0.85	1285		3413
13	9:00 AM	DH	DH	0.94	0.88	1.18	0.95	0.88	1373		3760
14	8:48 AM	DH	DH	0.85	0.94	1.14	0.97	0.93	1395		4262
15	10:25 AM	AS	AS	1.00	0.98	1.26	0.98	0.96	1413		4404
16	10:47 AM	AS	DH	0.86	0.92	1.11	0.94	0.90	1356		4056
17	10:05 AM	AS	DH	1.00	0.96	1.27	0.93	0.76	1345		3276
18	10:18 AM	AS	DH	0.90	0.89	1.13	0.89	0.85	1285		3006
19	8:54 AM	AS	DH	0.90	0.87	1.12	0.89	0.85	1283		3703
20	8:43 AM	AS	AS	0.97	0.91	1.21	0.95	0.88	1373		3876
21	8:51 AM	AS	AS	0.96	0.96	1.23	0.95	0.92	1372		3616
22	8:53 AM	AS	AS	0.91	0.92	1.14	0.95	0.86	1367		5226
23	9:43 AM	AS	DH	0.98	0.99	1.20	1.02	0.95	1467		4539
24	9:10 AM	AS	DH	1.00	1.00	1.28	1.05	0.98	1516		3837
25	9:05 AM	AS	AS	1.06	1.07	1.37	1.08	1.04	1552		5657
26	10:25 AM	AS	DH	1.02	1.05	1.33	1.08	1.04	1550		5127
27	8:46 AM	RM	RM	1.05	1.08	1.41	1.08	1.04	1553		5152
28	8:40 AM	RM	RM	1.00	1.01	1.32	1.00	0.98	1438		6589
29	10:44 AM	AS	AS	1.01	0.94	1.28	1.00	0.95	1446		5317
30	10:45 AM	AS	DH	0.83	1.03	1.18	1.07	1.02	1536		4629
31	10:28 AM	AS	DH	1.07	1.09	1.38	1.12	1.05	1616		5675

Submitted By (Print): Allen Sterk

Signature: 

- Operators:**  
 Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

- Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: **CITY OF STEINBACH**

Water System Code: **219.00**

Month: **May**

Year: **2023**

Flow Meter or Daily Consumption:     **Treated**    

Daily Consumption Units: **All units in m<sup>3</sup>**

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	7:59 AM	AS	DH	0.79	0.79	1.02	0.79	0.71	1139		1345
2	8:05 AM	AS	DH	0.75	0.77	0.90	0.79	0.60	1141		1339
3	8:09 AM	AS	AP	0.82	0.85	1.07	0.85	0.71	1219		1349
4	8:16 AM	AS	DH	0.79	0.80	1.01	0.82	0.70	1175		1327
5	8:04 AM	AS	AP	0.81	0.84	1.03	0.84	0.71	1211		1337
6	7:42 AM	AP	AP	0.79	0.80	0.97	0.84	0.72	1208		1337
7	7:38 AM	AP	AP	0.87	0.90	1.11	0.88	0.76	1269		1355
8	7:55 AM	DH	DH	0.76	0.81	0.97	0.82	0.69	1178		1355
9	7:55 AM	DH	DH	0.74	0.81	0.95	0.81	0.70	1163		1350
10	8:07 AM	DH	DH	0.70	0.75	0.86	0.75	0.69	1073		1341
11	8:11 AM	DH	DH	0.80	0.75	1.02	0.78	0.65	1124		1311
12	7:53 AM	DH	AP	0.80	0.81	1.04	0.77	0.69	1111		1343
13	7:52 AM	DH	DH	0.80	0.80	1.02	0.82	0.69	1174		1341
14	7:43 AM	DH	DH	0.78	0.78	1.02	0.81	0.70	1160		1357
15	8:08 AM	AS	DH	0.85	0.86	1.14	0.86	0.76	1245		1344
16	8:08 AM	AS	DH	0.85	0.86	1.02	0.84	0.78	1206		1334
17	8:07 AM	AS	DH	0.78	0.77	1.01	0.82	0.71	1179		1344
18	8:24 AM	AS	AS	0.82	0.85	1.13	0.84	0.72	1208		1339
19	8:05 AM	AS	DH	0.81	0.77	1.04	0.82	0.70	1185		1309
20	7:49 AM	AS	AS	0.88	0.89	1.20	0.87	0.78	1249		1341
21	7:50 AM	AS	AS	0.79	0.78	1.05	0.84	0.73	1205		1346
22	7:50 AM	AS	AS	0.89	0.91	1.20	0.87	0.80	1254		1396
23	8:23 AM	AS	AS	0.75	0.78	1.00	0.81	0.72	1161		1339
24	8:10 AM	AS	DH	0.85	0.83	1.07	0.81	0.71	1171		1333
25	8:11 AM	AS	DH	0.78	0.74	1.00	0.78	0.67	1119		1356
26	8:10 AM	AS	DH	0.79	0.77	1.01	0.78	0.75	1126		1303
27	7:43 AM	RM	RM	0.75	0.74	1.00	0.75	0.66	1078		1339
28	7:40 AM	RM	RM	0.72	0.71	0.88	0.73	0.64	1045		1371
29	8:13 AM	AS	DH	0.74	0.71	0.97	0.70	0.63	1011		1334
30	8:06 AM	AS	DH	0.66	0.66	0.80	0.69	0.61	989		1368
31	8:28 AM	AS	DH	0.75	0.70	0.96	0.74	0.63	1064		1327

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

Water System Name: CITY OF STEINBACH

# Pumping Station #2

Water System Code: 219.00

Month: June

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	10:30 AM	AS	AS	1.09	1.17	1.46	1.17	1.09	1685		5838
2	9:10 AM	AS	AS	1.17	1.13	1.57	1.14	1.12	1649		6249
3	8:51 AM	DL	DL	1.08	1.16	1.48	1.10	1.04	1577		7173
4	9:10 AM	DL	DL	1.09	1.07	1.46	1.05	1.01	1513		5762
5	9:53 AM	AS	AP	1.06	1.00	1.35	1.04	0.98	1496		7697
6	9:00 AM	AS	AP	1.02	1.20	1.35	1.04	0.89	1499		6521
7	10:25 AM	AS	AP	1.09	0.83	1.41	0.94	0.80	1358		4204
8	10:05 AM	AS	AS	1.05	0.95	1.35	1.01	0.95	1451		4878
9	10:25 AM	AS	AS	1.07	1.01	1.32	1.03	1.01	1479		4430
10	8:35 AM	DH	DH	1.02	1.00	1.33	1.01	0.95	1457		5310
11	9:40 AM	AS	AS	0.96	0.92	1.24	0.95	0.92	1374		6359
12	10:23 AM	AS	AS	0.97	1.03	1.37	1.02	0.14	1469		6309
13	9:06 AM	AS	AP	1.00	1.08	1.41	1.05	1.00	1508		6399
14	10:35 AM	AS	AS	1.06	1.01	1.42	1.01	0.86	1459		5494
15	10:32 AM	AS	AS	1.08	1.02	1.42	1.09	1.01	1570		5766
16	10:14 AM	AS	AS	1.13	1.11	1.46	1.13	1.10	1632		4572
17	8:53 AM	AS	AS	1.06	1.11	1.41	1.11	1.08	1594		4969
18	8:54 AM	AS	AS	1.06	1.06	1.40	1.08	1.05	1551		6534
19	9:00 AM	AS	AS	1.07	1.05	1.41	1.04	1.02	1496		7612
20	8:54 AM	AS	AP	1.06	1.11	1.47	1.09	1.02	1565		6915
21	10:30 AM	AS	AP	1.10	1.10	1.50	1.08	1.05	1560		5345
22	10:16 AM	AP	AP	1.07	1.02	1.39	1.03	0.99	1488		4389
23	10:42 AM	AP	AP	1.04	0.97	1.33	0.98	0.96	1404		3874
24	8:43 AM	AP	AP	1.03	0.94	1.32	0.98	0.93	1414		3758
25	8:55 AM	AP	AP	0.96	0.93	1.20	0.95	0.91	1363		4892
26	10:55 AM	AS	AS	0.90	0.91	1.14	0.93	0.91	1344		5609
27	8:58 AM	AS	AP	0.94	0.93	1.21	0.96	0.91	1382		4914
28	10:35 AM	AS	AS	0.94	0.97	1.25	0.97	0.94	1395		4699
29	10:08 AM	AS	DH	0.93	0.93	1.22	0.96	0.91	1378		4562
30	10:10 AM	AS	DH	0.97	1.00	1.30	0.98	0.94	1418		4911
31											

Submitted By (Print): Darren Henton

Signature: 

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: June

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:10 AM	AS	DH	0.75	0.81	1.00	0.77	0.71	1110		1342
2	8:10 AM	AS	DH	0.73	0.71	0.96	0.80	0.63	1145		1302
3	7:46 AM	DL	DL	0.78	0.95	1.01	0.94	0.70	1348		1363
4	8:11 AM	DL	DL	0.82	1.02	1.07	0.90	0.73	1290		1355
5	8:00 AM	AS	AP	0.84	0.82	1.06	0.82	0.74	1179		1322
6	8:06 AM	AS	AP	0.73	0.76	0.99	0.80	0.70	1156		1336
7	8:00 AM	AS	AP	0.81	0.83	1.05	0.82	0.67	1180		1362
8	8:16 AM	AS	AP	0.78	0.76	0.98	0.80	0.70	1157		1335
9	8:20 AM	AS	AS	0.82	0.85	1.11	0.84	0.73	1215		1316
10	7:39 AM	DH	DH	0.78	0.77	1.01	0.82	0.72	1186		1396
11	8:45 AM	AS	AS	0.79	0.85	1.13	0.85	0.71	1223		1314
12	8:07 AM	AS	AP	0.81	0.79	1.04	0.83	0.74	1202		1348
13	8:20 AM	AS	AP	0.80	0.85	0.98	0.83	0.77	1200		1333
14	8:22 AM	AS	AS	0.76	0.77	1.00	0.80	0.72	1146		1349
15	8:14 AM	AS	AS	0.80	0.78	1.03	0.77	0.69	1109		1334
16	8:03 AM	AS	AP	0.73	0.71	0.95	0.76	0.67	1090		1305
17	7:47 AM	AS	AS	0.78	0.78	1.01	0.75	0.67	1080		1343
18	7:51 AM	AS	AS	0.68	0.69	0.90	0.72	0.62	1042		1363
19	7:55 AM	AS	AS	0.71	0.74	0.99	0.75	0.63	1084		1346
20	8:08 AM	AS	AP	0.72	0.77	0.90	0.79	0.70	1136		1354
21	8:12 AM	AS	AP	0.73	0.75	0.95	0.77	0.67	1116		1362
22	8:04 AM	AP	AP	0.80	0.81	1.05	0.82	0.69	1185		1349
23	8:13 AM	AP	AP	0.76	0.77	0.90	0.79	0.67	1133		1279
24	7:27 AM	AP	AP	0.80	0.81	1.05	0.83	0.72	1191		1363
25	7:38 AM	AP	AP	0.74	0.76	0.99	0.78	0.68	1129		1362
26	8:42 AM	AS	AS	0.78	0.80	1.06	0.81	0.66	1161		1337
27	8:07 AM	AS	AS	0.75	0.75	0.95	0.77	0.67	1105		1346
28	8:13 AM	AS	AS	0.75	0.78	1.04	0.79	0.68	1131		1351
29	8:18 AM	AS	DH	0.73	0.73	0.95	0.75	0.62	1077		1324
30	8:01 AM	AS	DH	0.76	0.77	1.02	0.79	0.66	1144		1317
31											

Submitted By (Print): Darren Henton

Signature: 

**Operators:**

Andy Froese (OIC)   AF	Marvin Penner   MP
Allen Sterk (OIC)   AS	Alec Plett   AP
Rudy Martens (OIC)   RM	Darren Henton   DH
David Loewen (OIC)   DL	

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: July

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:34 AM	DH	DH	1.07	1.04	1.36	1.07	1.00	1534		5030
2	8:28 AM	DH	DH	1.10	1.07	1.42	1.08	1.06	1561		5032
3	8:38 AM	DH	DH	1.11	1.07	1.39	1.09	1.06	1565		5725
4	8:59 AM	DH	DH	1.10	1.07	1.41	1.06	1.03	1523		4689
5	9:02 AM	DH	DH	1.04	0.99	1.36	1.02	1.00	1466		4783
6	9:13 AM	DH	DH	1.02	1.03	1.33	1.04	1.00	1500		4719
7	8:48 AM	DH	DH	1.05	1.03	1.36	1.03	1.00	1486		4003
8	8:38 AM	RM	RM	0.99	1.03	1.38	1.03	1.00	1483		4156
9	8:40 AM	RM	RM	1.00	1.02	1.34	1.05	1.03	1507		4522
10	10:08 AM	AS	AS	1.02	1.03	1.40	1.07	1.03	1537		4256
11	8:51 AM	AS	AP	1.05	1.04	1.24	1.04	1.03	1502		4664
12	10:12 AM	AP	AP	1.04	1.02	1.36	1.03	1.00	1488		4814
13	10:37 AM	AS	AS	0.87	0.99	1.18	0.94	0.90	1361		4112
14	10:48 AM	AS	AS	0.98	0.88	1.29	0.90	0.87	1292		3565
15	9:38 AM	AP	AP	0.89	0.93	1.09	0.94	0.89	1347		3160
16	8:56 AM	AP	AP	0.92	0.93	1.25	0.94	0.92	1353		3577
17	10:13 AM	AS	AP	0.93	0.93	1.19	0.98	0.95	1406		4182
18	8:50 AM	AS	AP	0.95	1.00	1.22	1.02	0.98	1465		3822
19	10:42 AM	AS	AP	0.99	1.01	1.31	1.01	0.98	1456		3927
20	10:47 AM	AS	AS	1.01	1.01	1.31	1.00	0.95	1443		4941
21	10:58 AM	AS	AS	1.04	1.02	1.30	1.06	0.98	1526		4171
22	8:55 AM	DL	DL	1.03	1.09	1.40	1.09	1.07	1569		3870
23	8:54 AM	DL	DL	0.80	1.03	1.13	0.90	0.80	1290		4420
24	10:30 AM	AS	AS	0.80	0.79	1.04	0.80	0.77	1154		4669
25	10:55 AM	AS	AS	1.00	0.78	1.27	0.92	0.77	1319		3718
26	9:20 AM	AS	AS	0.93	0.99	1.23	0.96	0.94	1389		4643
27	10:44 AM	AS	AS	0.96	0.94	1.27	0.96	0.91	1386		4676
28	11:10 AM	AS	AS	0.99	0.94	1.25	0.99	0.94	1420		3405
29	8:53 AM	AS	AS	1.04	1.00	1.38	1.01	0.94	1457		4086
30	10:25 AM	AS	AS	1.05	1.03	1.51	1.05	1.00	1507		4311
31	10:40 AM	AS	AS	1.06	1.03	1.39	1.08	1.03	1562		4984

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**  
 Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: July

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	7:33 AM	DH	DH	0.79	0.77	1.02	0.81	0.66	1163		1343
2	7:32 AM	DH	DH	0.91	0.82	1.08	0.86	0.76	1242		1345
3	7:32 AM	DH	DH	0.82	0.80	1.05	0.82	0.68	1188		1370
4	8:11 AM	DH	DH	0.84	0.84	1.05	0.86	0.74	1234		1349
5	8:02 AM	DH	DH	0.87	0.81	1.10	0.84	0.70	1204		1331
6	8:00 AM	DH	DH	0.87	0.85	1.13	0.86	0.75	1239		1328
7	7:52 AM	DH	DH	0.81	0.83	1.11	0.86	0.69	1237		1337
8	7:37 AM	RM	RM	0.88	0.86	1.19	0.86	0.76	1243		1337
9	7:36 AM	RM	RM	0.88	0.86	1.16	0.83	0.78	1200		1373
10	8:16 AM	AS	AP	0.79	0.74	1.02	0.74	0.65	1068		1335
11	8:10 AM	AS	AP	0.75	0.71	0.93	0.73	0.63	1053		1338
12	7:54 AM	AP	AP	0.70	0.69	0.96	0.72	0.62	1037		1354
13	8:13 AM	AS	AP	0.74	0.75	0.99	0.74	0.62	1067		1323
14	8:14 AM	AS	AS	0.69	0.68	0.94	0.71	0.58	1020		1307
15	8:29 AM	AP	AP	0.75	0.76	1.02	0.76	0.63	1099		1287
16	7:39 AM	AP	AP	0.73	0.70	0.96	0.78	0.63	1117		1373
17	8:17 AM	AS	AP	0.86	0.85	1.08	0.83	0.70	1189		1338
18	8:15 AM	AS	AP	0.74	0.75	0.94	0.80	0.67	1158		1342
19	8:17 AM	AS	AP	0.90	0.89	1.16	0.87	0.72	1258		1325
20	8:22 AM	AS	AS	0.80	0.82	1.12	0.87	0.72	1258		1346
21	8:32 AM	AS	AS	0.98	0.97	1.26	0.87	0.72	1252		1323
22	7:49 AM	DL	DL	0.84	0.86	1.14	0.93	0.79	1337		1339
23	7:43 AM	DL	DL	1.00	1.02	1.31	0.93	0.79	1337		1381
24	8:05 AM	AS	AP	0.89	0.90	1.19	0.96	0.81	1380		1341
25	8:20 AM	AS	AP	0.98	1.03	1.23	1.00	0.88	1439		1326
26	7:57 AM	AS	AP	0.88	0.93	1.15	0.97	0.83	1396		1342
27	8:25 AM	AS	AS	0.97	1.00	1.29	0.98	0.86	1411		1334
28	8:20 AM	AS	AS	0.92	0.92	1.18	0.96	0.82	1387		1310
29	7:53 AM	AS	AS	1.01	1.03	1.32	1.01	0.90	1457		1341
30	7:52 AM	AS	AS	0.91	0.94	1.24	1.02	0.86	1462		1387
31	8:28 AM	AS	AS	1.06	1.08	1.38	1.03	0.90	1490		1345

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

- |                         |                    |
|-------------------------|--------------------|
| Andy Froese (OIC)   AF  | Marvin Penner   MP |
| Allen Sterk (OIC)   AS  | Alec Plett   AP    |
| Rudy Martens (OIC)   RM | Darren Henton   DH |
| David Loewen (OIC)   DL |                    |

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: August

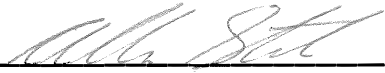
Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	11:02 AM	AS	DH	1.03	1.09	1.24	1.09	1.06	1571		4199
2	11:05 AM	AS	AS	1.09	1.05	1.41	1.04	1.03	1499		4694
3	10:24 AM	AS	AS	1.01	0.99	1.32	1.00	0.97	1439		4584
4	8:25 AM	AS	AS	1.01	0.99	1.32	1.01	0.97	1461		4508
5	8:52 AM	AP	AP	1.06	0.98	1.36	1.01	0.97	1448		4210
6	8:22 AM	AP	AP	1.06	1.01	1.37	1.01	0.97	1449		4063
7	9:02 AM	AP	AP	1.07	0.99	1.36	1.04	0.97	1493		4666
8	8:42 AM	DH	AP	0.98	1.05	1.26	1.06	1.02	1529		3553
9	7:48 AM	DH	DH	1.02	1.02	1.31	0.98	0.01	1412	23	4310
10	8:57 AM	DH	DH	0.90	0.92	1.19	0.95	0.91	1364		4035
11	10:15 AM	DH	DH	0.92	0.93	1.23	0.93	0.91	1343		2945
12	8:42 AM	DH	DH	0.86	0.89	1.15	0.90	0.85	1290		3311
13	8:43 AM	DH	DH	0.92	0.85	1.20	0.90	0.82	1295		4023
14	10:20 AM	AS	DH	0.93	0.90	1.20	0.94	0.89	1358		4298
15	10:00 AM	AS	AS	0.95	0.94	1.23	0.98	0.92	1418		4362
16	9:42 AM	AS	AS	1.02	1.00	1.29	1.00	0.95	1440		4125
17	11:00 AM	AS	AS	0.97	0.95	1.23	0.98	0.92	1407		4799
18	11:00 AM	AS	AS	1.01	1.00	1.28	1.02	0.98	1468		3918
19	9:08 AM	RM	RM	1.00	1.01	1.26	0.99	0.95	1431		4005
20	8:45 AM	RM	RM	1.04	1.00	1.39	1.00	0.95	1435		4442
21	11:00 AM	AS	AS	1.06	0.99	1.39	1.05	0.98	1506		3572
22	8:54 AM	AS	AS	1.09	1.06	1.38	1.05	1.02	1511		4354
23	10:55 AM	AS	AS	1.04	1.04	1.37	1.01	0.96	1458		3771
24	10:24 AM	AS	AP	0.96	1.00	1.29	1.00	0.96	1441		4371
25	10:15 AM	AS	AS	0.96	0.97	1.19	0.99	0.96	1425		3376
26	8:45 AM	AS	AS	0.97	0.99	1.31	1.00	0.93	1435		4042
27	9:45 AM	AS	AS	1.01	1.01	1.33	1.02	0.99	1473		4384
28	10:09 AM	AS	RM	0.98	1.00	1.30	1.05	0.99	1506		4577
29	10:03 AM	AS	AS	1.14	1.05	1.39	1.11	1.02	1604		4733
30	10:53 AM	AS	AS	1.09	1.14	1.38	1.10	1.03	1591		4693
31	10:43 AM	AS	AS	1.06	1.06	1.38	1.07	1.03	1540		4392

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

- Andy Froese (OIC) AF
- Allen Sterk (OIC) AS
- Rudy Martens (OIC) RM
- David Loewen (OIC) DL

- Marvin Penner MP
- Alec Plett AP
- Darren Henton DH

Mike Heppner (OIC) MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: August

Year: 2023

Flow Meter or Dally Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:00 AM	AS	DH	0.93	0.93	1.15	0.93	0.86	1341	1338	
2	8:25 AM	AS	AS	0.89	0.86	1.15	0.85	0.75	1219	1326	
3	8:00 AM	AS	AS	0.82	0.79	1.08	0.80	0.71	1158	1264	
4	6:55 AM	AS	AS	0.76	0.77	1.01	0.77	0.68	1114	1404	
5	7:37 AM	AP	AP	0.72	0.74	0.96	0.78	0.67	1122	1423	
6	8:43 AM	AP	AP	0.75	0.78	1.03	0.78	0.66	1121	1277	
7	7:54 AM	AP	AP	0.74	0.74	0.97	0.77	0.66	1116	1353	
8	8:13 AM	DH	AP	0.72	0.78	0.92	0.77	0.64	1103	1354	
9	8:20 AM	DL	DL	0.67	0.70	0.95	0.73	0.64	1049	1313	
10	8:03 AM	DH	DH	0.76	0.75	1.01	0.74	0.62	1068	1361	
11	8:04 AM	DH	DH	0.66	0.68	0.91	0.72	0.62	1036	1318	
12	7:43 AM	DH	DH	0.73	0.78	1.03	0.77	0.63	1115	1322	
13	7:34 AM	DH	DH	0.71	0.71	0.94	0.78	0.65	1121	1397	
14	8:14 AM	AS	DH	0.83	0.87	1.05	0.86	0.71	1239	1306	
15	8:02 AM	AS	AS	0.77	0.79	0.96	0.88	0.71	1261	1353	
16	8:22 AM	AS	AS	0.76	0.82	1.06	0.85	0.75	1222	1351	
17	8:24 AM	AS	AS	0.78	0.86	1.14	0.81	0.70	1163	1362	
18	8:46 AM	AS	AS	0.79	0.72	1.10	0.79	0.61	1143	1324	
19	8:08 AM	RM	RM	0.85	0.84	1.15	0.85	0.74	1229	1317	
20	7:45 AM	RM	RM	0.80	0.78	1.07	0.81	0.70	1171	1349	
21	8:15 AM	AS	AS	0.81	0.83	1.12	0.85	0.75	1219	1363	
22	8:23 AM	AS	AP	0.77	0.81	0.94	0.83	0.73	1189	1328	
23	8:21 AM	AS	AS	0.82	0.84	1.10	0.85	0.69	1219	1334	
24	8:00 AM	AS	AP	0.78	0.80	1.08	0.82	0.70	1174	1346	
25	8:20 AM	AS	AS	0.79	0.83	1.09	0.84	0.73	1207	1310	
26	7:47 AM	AS	AS	0.78	0.79	1.06	0.82	0.69	1178	1408	
27	8:46 AM	AS	AS	0.89	0.86	1.16	0.85	0.72	1227	1333	
28	8:43 AM	AS	AS	0.77	0.78	1.06	0.79	0.67	1139	1374	
29	8:10 AM	AS	DL	0.74	0.77	1.00	0.77	0.68	1112	1303	
30	8:32 AM	AS	AS	0.69	0.73	1.01	0.75	0.67	1079	1317	
31	8:11 AM	AS	AS	0.81	0.79	1.06	0.78	0.70	1130	1356	

Submitted By (Print):

Allen Sterk

Signature:

*Allen Sterk*

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH



# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: September

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	10:45 AM	AS	AS	1.04	1.02	1.33	1.04	1.00	1492		4085
2	8:54 AM	DL	DL	0.90	1.00	1.21	0.96	0.90	1389		4882
3	8:44 AM	DL	DL	0.88	0.92	1.19	0.92	0.90	1328		4414
4	9:01 AM	DL	DL	0.94	0.92	1.23	0.93	0.87	1334		4911
5	10:08 AM	AS	AS	0.97	0.91	1.27	0.95	0.90	1366		3759
6	10:20 AM	AS	AS	1.07	0.97	1.34	0.90	0.79	1299		3789
7	10:30 AM	AS	AS	0.82	0.81	1.11	0.85	0.79	1221		4210
8	10:06 AM	AS	AS	0.95	0.92	1.29	0.91	0.85	1317		3814
9	8:53 AM	DL	DL	0.97	0.91	1.21	0.90	0.85	1296		3644
10	8:54 AM	DL	DL	0.92	0.87	1.18	0.88	0.85	1266		4092
11	10:00 AM	AS	DH	0.88	0.86	1.14	0.88	0.85	1260		5357
12	10:55 AM	AS	AS	0.98	0.94	1.30	0.97	0.91	1399		3991
13	10:23 AM	AS	DH	1.01	0.98	1.26	0.97	0.94	1396		3815
14	10:26 AM	AS	DH	0.92	0.94	1.22	0.96	0.73	1376		3822
15	10:03 AM	AS	DH	0.95	0.94	1.22	0.94	0.91	1347		3002
16	8:41 AM	DH	DH	0.94	0.91	1.23	0.95	0.88	1369		3408
17	8:27 AM	DH	DH	0.94	0.99	1.26	0.98	0.94	1415		3928
18	9:53 AM	AS	DH	0.98	0.94	1.26	0.97	0.94	1401		4061
19	10:42 AM	AS	DH	0.93	0.96	1.17	0.94	0.91	1359		3884
20	10:25 AM	AS	DH	1.05	0.92	1.29	1.00	0.91	1436		3636
21	9:07 AM	AS	DH	0.96	1.04	1.23	0.98	0.89	1410		3690
22	10:05 AM	AS	DH	0.99	0.93	1.26	0.92	0.89	1324		3067
23	8:43 AM	AS	AS	0.94	0.90	1.22	0.92	0.86	1330		3327
24	8:40 AM	AS	AS	0.98	0.93	1.25	0.94	0.89	1351		3609
25	10:19 AM	AS	DH	0.93	0.91	1.18	0.95	0.90	1371		3824
26	9:00 AM	AS	AP	0.99	1.01	1.30	1.00	0.96	1437		3697
27	9:55 AM	AS	DH	1.04	0.97	1.21	0.98	0.96	1409		3626
28	9:58 AM	AS	DH	1.06	0.98	1.30	0.98	0.93	1411		3401
29	9:56 AM	AS	DH	1.02	0.95	1.31	0.95	0.93	1372		2947
30	8:43 AM	RM	RM	0.99	0.94	1.30	0.95	0.90	1372		3364
31											

Submitted By (Print): Darren Henton

Signature: 

**Operators:**

Andy Froese (OIC)   AF	Marvin Penner   MP
Allen Sterk (OIC)   AS	Alec Plett   AP
Rudy Martens (OIC)   RM	Darren Henton   DH
David Loewen (OIC)   DL	

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: September

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:20 AM	AS	AS	0.69	0.73	0.99	0.76	0.63	1089		1314
2	7:53 AM	DL	DL	0.84	0.80	1.07	0.78	0.70	1130		1345
3	7:57 AM	DL	DL	0.87	0.83	1.13	0.88	0.75	1273		1343
4	7:58 AM	DL	DL	0.92	0.96	1.20	0.92	0.82	1325		1346
5	8:00 AM	AS	DH	0.76	0.84	0.97	0.82	0.76	1178		1376
6	8:40 AM	AS	AS	0.85	0.85	1.13	0.85	0.71	1228		1325
7	8:12 AM	AS	AP	0.87	0.82	1.11	0.89	0.76	1275		1335
8	8:18 AM	AS	AS	1.01	0.96	1.36	0.96	0.84	1382		1332
9	7:46 AM	DL	DL	0.97	0.90	1.28	0.93	0.82	1334		1333
10	7:55 AM	DL	DL	0.96	0.93	1.30	0.91	0.83	1313		1372
11	8:19 AM	AS	DH	0.88	0.85	1.15	0.87	0.80	1259		1325
12	8:10 AM	AS	AS	0.95	0.90	1.13	0.89	0.76	1283		1363
13	8:20 AM	AS	DH	0.86	0.85	1.19	0.89	0.80	1279		1327
14	8:10 AM	AS	DH	0.96	0.93	1.26	0.91	0.82	1308		1344
15	8:18 AM	AS	DH	0.86	0.85	1.13	0.87	0.80	1257		1310
16	7:37 AM	DH	DH	0.88	0.88	1.21	0.87	0.76	1252		1340
17	7:34 AM	DH	DH	0.88	0.82	1.14	0.90	0.75	1294		1370
18	8:11 AM	AS	DH	0.93	0.95	1.22	0.94	0.85	1357		1335
19	8:16 AM	AS	DH	0.81	0.89	1.12	0.90	0.83	1293		1346
20	8:16 AM	AS	DH	0.93	0.88	1.16	0.87	0.75	1251		1338
21	8:05 AM	AS	DH	0.87	0.80	1.13	0.82	0.73	1177		1347
22	8:07 AM	AS	DH	0.95	0.83	1.22	0.91	0.73	1311		1304
23	7:43 AM	AS	AS	0.87	0.89	1.17	0.91	0.80	1311		1338
24	7:40 AM	AS	AS	0.87	0.91	1.19	0.91	0.79	1312		1397
25	7:54 AM	AS	DH	0.80	0.87	1.11	0.90	0.81	1293		1343
26	8:20 AM	AS	DH	0.86	0.94	1.07	0.93	0.82	1343		1329
27	8:08 AM	AS	AP	0.90	0.93	1.22	0.91	0.84	1314		1349
28	8:15 AM	AS	AP	0.83	0.86	1.13	0.90	0.79	1295		1282
29	7:16 AM	AS	DH	0.89	0.91	1.19	0.90	0.73	1292		1366
30	7:40 AM	RM	RM	0.79	0.83	1.10	0.87	0.78	1254		1348
31											

Submitted By (Print): Darren Henton

Signature: 

**Operators:**

Andy Froese (OIC)   AF	Marvin Penner   MP
Allen Sterk (OIC)   AS	Alec Plett   AP
Rudy Martens (OIC)   RM	Darren Henton   DH
David Loewen(OIC) DL	

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: October

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:50 AM	RM	RM	0.92	0.94	1.32	0.95	0.93	1361		3465
2	8:45 AM	RM	RM	0.89	0.93	1.26	0.95	0.90	1361		3598
3	8:49 AM	DH	AP	0.95	0.94	1.23	0.93	0.90	1341		3228
4	10:17 AM	DH	DH	0.89	0.88	1.21	0.88	0.84	1266		2890
5	8:50 AM	DH	RM	0.89	0.87	1.18	0.88	0.84	1261		3016
6	10:06 AM	DH	DH	0.88	0.88	1.18	0.90	0.87	1289		2545
7	8:31AM	DH	DH	0.93	0.88	1.23	0.92	0.87	1324		3085
8	8:43 AM	DH	DH	0.97	0.91	1.27	0.94	0.90	1358		2546
9	8:47 AM	DH	DH	0.98	0.95	1.26	0.94	0.90	1360		3325
10	8:55 AM	DH	DH	1.02	0.95	1.22	0.96	0.93	1384		3581
11	10:14 AM	DH	DH	1.02	0.95	1.29	1.00	0.93	1443		3456
12	10:51 AM	DH	DH	1.04	1.02	1.31	1.02	0.99	1472		2994
13	10:18 AM	DH	DH	1.01	0.99	1.24	1.02	1.00	1466		2775
14	8:48 AM	DL	DL	1.01	1.00	1.28	0.99	0.94	1423		2885
15	8:47 AM	DL	DL	1.01	0.97	1.23	1.01	0.94	1448		3530
16	10:37 AM	AS	AS	1.01	1.06	1.34	1.03	0.98	1482		2959
17	9:02 AM	AS	DL	1.05	1.00	1.24	1.01	0.98	1448		3563
18	10:43 AM	AS	AS	1.02	0.99	1.25	0.97	0.95	1404		3144
19	10:15 AM	AS	AS	0.93	0.96	1.18	0.98	0.95	1406		3222
20	10:06 AM	DH	AP	0.94	0.96	1.19	0.98	0.95	1407		2976
21	8:54 AM	AP	AP	0.93	0.96	1.22	0.97	0.95	1403		2670
22	8:45 AM	AP	AP	0.98	0.99	1.25	0.99	0.95	1422		3147
23	10:55 AM	AS	AS	0.98	0.99	1.23	1.01	0.98	1454		3076
24	10:42 AM	AS	AP	1.02	1.06	1.29	1.02	0.98	1471		3110
25	10:45 AM	AS	AS	0.97	0.99	1.26	0.99	0.95	1429		2900
26	10:43 AM	AS	AP	0.89	0.93	1.14	0.97	0.92	1400		3003
27	10:37 AM	AS	AP	1.00	1.04	1.30	1.02	0.95	1473		2491
28	8:55 AM	RM	RM	1.00	0.98	1.29	0.99	0.91	1425		3011
29	8:43 AM	RM	RM	1.01	1.03	1.35	1.03	0.97	1486		3564
30	10:35 AM	AS	AS	1.06	1.04	1.35	1.04	1.00	1495		2993
31	10:42 AM	AS	DH	1.03	1.01	1.28	1.02	0.97	1470		2880

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

- |                         |                    |
|-------------------------|--------------------|
| Andy Froese (OIC)   AF  | Marvin Penner   MP |
| Allen Sterk (OIC)   AS  | Alec Plett   AP    |
| Rudy Martens (OIC)   RM | Darren Henton   DH |
| David Loewen (OIC)   DL |                    |

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: October

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	7:46 AM	RM	RM	0.86	0.86	1.12	0.83	0.76	1199		1339
2	7:40 AM	RM	RM	0.76	0.76	1.03	0.78	0.71	1130		1377
3	8:12 AM	DH	AP	0.76	0.77	0.96	0.76	0.67	1097		1344
4	7:58 AM	DH	DH	0.69	0.71	0.95	0.75	0.66	1078		1312
5	7:55 AM	DH	RM	0.80	0.80	1.09	0.80	0.67	1154		1357
6	8:01 AM	DH	DH	0.76	0.75	1.02	0.82	0.67	1185		1311
7	7:37 AM	DH	DH	0.88	0.91	1.21	0.90	0.73	1301		1332
8	7:39 AM	DH	DH	0.89	0.90	1.20	0.90	0.80	1299		1347
9	7:40 AM	DH	DH	0.87	0.87	1.15	0.90	0.77	1290		1368
10	8:20 AM	DH	AP	0.92	0.94	1.20	0.93	0.82	1335		1345
11	7:53 AM	DH	DH	0.90	0.92	1.25	0.91	0.85	1308		1376
12	8:05 AM	DH	DH	0.84	0.84	1.16	0.88	0.75	1272		1300
13	7:58 AM	DH	DH	0.84	0.85	1.10	0.88	0.79	1264		1318
14	7:50 AM	DL	DL	0.90	0.91	1.28	0.92	0.81	1318		1332
15	7:51 AM	DL	DL	0.94	0.94	1.26	0.93	0.85	1342		1350
16	8:10 AM	AS	AS	0.87	0.88	1.17	0.91	0.81	1310		1344
17	8:00 AM	DH	DH	0.97	0.90	1.14	0.88	0.79	1269		1340
18	8:09 AM	AS	AS	0.86	0.80	1.15	0.85	0.73	1228		1355
19	8:18 AM	AS	AS	0.85	0.84	1.10	0.84	0.73	1207		1342
20	8:13 AM	DH	DH	0.87	0.82	1.13	0.81	0.72	1173		1312
21	7:42 AM	AP	AP	0.77	0.78	1.05	0.80	0.74	1146		1338
22	7:39 AM	AP	AP	0.81	0.79	1.08	0.80	0.74	1151		1384
23	8:08 AM	AS	AP	0.77	0.78	1.05	0.76	0.59	1099		1334
24	8:22 AM	AS	AP	0.69	0.69	0.88	0.70	0.66	1002		1334
25	8:25 AM	AS	AS	0.73	0.71	0.95	0.73	0.63	1051		1342
26	8:22 AM	AS	AS	0.71	0.73	0.96	0.74	0.68	1066		1358
27	8:33 AM	AS	AP	0.74	0.75	1.01	0.77	0.71	1109		1296
28	7:40 AM	RM	RM	0.77	0.77	1.05	0.77	0.72	1113		1340
29	7:42 AM	RM	RM	0.78	0.77	1.04	0.81	0.73	1163		1369
30	8:15 AM	AS	AP	0.85	0.84	1.10	0.83	0.80	1198		1339
31	8:19 AM	AS	DH	0.84	0.82	1.02	0.85	0.78	1220		1357

Submitted By (Print): Allen Sterk

Signature: 

- Operators:**
- |                         |                    |
|-------------------------|--------------------|
| Andy Froese (OIC)   AF  | Marvin Penner   MP |
| Allen Sterk (OIC)   AS  | Alec Plett   AP    |
| Rudy Martens (OIC)   RM | Darren Henton   DH |
| David Loewen (OIC)   DL |                    |

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: November

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	10:04 AM	AS	AS	1.05	1.02	1.31	1.04	1.00	1503		2944
2	8:42 AM	AS	AP	1.06	1.04	1.33	1.02	1.00	1470		3382
3	10:00 AM	AS	AS	0.99	0.96	1.28	0.96	0.91	1384		2868
4	8:43 AM	AS	AS	0.94	0.92	1.22	0.95	0.88	1373		3142
5	8:41 AM	AS	AS	0.95	0.94	1.28	0.96	0.91	1439		3179
6	10:27 AM	AS	AS	0.99	0.97	1.29	0.97	0.94	1395		3313
7	11:00 AM	AS	AS	0.95	0.94	1.18	0.96	0.91	1383		2918
8	10:09 AM	AS	AS	1.01	0.97	1.30	0.99	0.94	1428		2896
9	10:16 AM	AS	AS	0.95	0.98	1.27	0.98	0.95	1407		3190
10	10:04 AM	AS	DH	0.96	0.93	1.22	0.95	0.92	1366		2715
11	8:57 AM	DL	DL	1.03	0.98	1.31	0.97	0.92	1397		2970
12	8:47 AM	DL	DL	0.94	0.95	1.08	0.94	0.89	1356		3564
13	10:24 AM	AS	AS	0.93	0.87	1.18	0.91	0.86	1304		3760
14	10:27 AM	AS	DH	0.89	0.90	1.07	0.94	0.89	1354		3380
15	10:42 AM	AS	AS	1.04	0.97	1.25	0.99	0.92	1423		3375
16	10:39 AM	AP	AP	0.96	1.02	1.23	1.02	0.98	1468		3252
17	10:01 AM	DH	DH	0.96	1.03	1.23	1.04	0.95	1499		2918
18	8:32 AM	DH	DH	0.94	1.00	1.21	1.04	0.98	1491		3011
19	8:29 AM	DH	DH	0.93	1.03	1.19	0.94	0.87	1360		3614
20	10:41 AM	AS	AS	0.86	0.81	1.12	0.87	0.81	1250		3326
21	9:57 AM	AS	DH	0.85	0.95	1.16	0.88	0.82	1262		3317
22	10:25 AM	AS	DH	0.90	0.85	1.11	0.85	0.82	1223		3245
23	8:57 AM	AF	DH	0.87	0.80	1.12	0.88	0.79	1264		3565
24	10:27 AM	AS	AP	0.95	0.95	1.24	0.98	0.91	1411		2793
25	8:45 AM	AP	AP	1.01	0.99	1.29	1.00	0.94	1433		3089
26	8:46 AM	AP	AP	0.92	0.94	1.21	0.93	0.91	1339		3487
27	10:19 AM	AS	AP	0.88	0.90	1.16	0.90	0.62	1303		3152
28	10:34 AM	AS	AP	0.91	0.92	1.20	0.93	0.83	1344		3336
29	10:38 AM	AS	AP	0.93	0.93	1.18	0.95	0.92	1373		3229
30	9:51 AM	AS	AS	0.93	0.91	1.15	0.95	0.92	1363		3670
31											

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: November

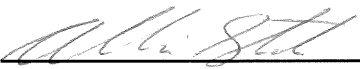
Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:37 AM	AS	AS	0.85	0.85	1.16	0.87	0.82	1254		1470
2	10:15 AM	AS	AP	0.86	0.86	1.15	0.88	0.80	1265		1182
3	8:10 AM	AS	AS	0.89	0.89	1.20	0.87	0.83	1259		1309
4	7:41 AM	AS	AS	0.82	0.83	1.15	0.86	0.78	1240		1365
5	7:43 AM	AS	AS	0.90	0.88	1.21	0.87	0.82	1312		1397
6	8:20 AM	AS	AS	0.86	0.84	1.17	0.86	0.80	1244		1332
7	8:13 AM	AS	DH	0.84	0.88	1.10	0.90	0.84	1296		1350
8	8:18 AM	AS	DH	0.85	0.91	1.18	0.93	0.84	1333		1335
9	8:12 AM	AS	DH	0.90	0.94	1.19	0.94	0.88	1360		1346
10	8:15 AM	AS	DH	0.88	0.91	1.16	0.92	0.86	1320		1316
11	7:50 AM	DL	DL	0.87	0.91	1.17	0.92	0.85	1325		1337
12	7:53 AM	DL	DL	0.90	0.90	1.22	0.92	0.85	1329		1281
13	8:09 AM	AS	DH	0.92	0.93	1.22	0.93	0.86	1343		1336
14	7:22 AM	AS	DH	0.85	0.88	1.03	0.86	0.83	1245		1350
15	8:16 AM	AS	AS	0.80	0.82	1.09	0.83	0.75	1195		1355
16	8:03 AM	AP	AP	0.76	0.80	1.06	0.80	0.75	1146		1344
17	8:00 AM	DH	DH	0.76	0.77	1.03	0.79	0.72	1136		1309
18	7:36 AM	DH	DH	0.79	0.76	1.03	0.77	0.72	1105		1338
19	7:34 AM	DH	DH	0.76	0.75	0.96	0.78	0.70	1118		1383
20	8:29 AM	AS	AS	0.75	0.77	1.03	0.77	0.71	1115		1340
21	8:18 AM	AS	DH	0.73	0.76	0.86	0.77	0.70	1112		1346
22	8:17 AM	AS	DH	0.75	0.77	0.98	0.77	0.69	1109		1318
23	7:54 AM	AF	DH	0.75	0.76	0.98	0.78	0.70	1128		1366
24	8:13 AM	AS	AP	0.81	0.80	1.04	0.82	0.74	1184		1316
25	7:40 AM	AP	AP	0.86	0.85	1.10	0.86	0.79	1240		1344
26	7:40 AM	AP	AP	0.84	0.86	1.12	0.86	0.77	1234		1385
27	8:31 AM	AS	AP	0.85	0.84	1.11	0.85	0.80	1223		1325
28	8:06 AM	AS	AP	0.90	0.85	1.06	0.87	0.80	1251		1352
29	8:16 AM	AS	AP	0.89	0.85	1.11	0.85	0.79	1220		1338
30	8:07 AM	AS	AP	0.82	0.82	1.06	0.83	0.77	1192		1215
31											

Submitted By (Print): Allen Sterk  
 Operators:  
 Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Signature:   
 Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #2

Water System Name: **CITY OF STEINBACH**

Water System Code: **219.00**

Month: **December**

Year: **2023**

Flow Meter or Daily Consumption:     **Treated**    

Daily Consumption Units: **All units in m<sup>3</sup>**

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	10:33 AM	AS	AP	0.95	0.94	1.21	0.99	0.92	1419		2389
2	8:45 AM	RM	RM	0.96	1.01	1.29	1.00	0.95	1443		3149
3	8:45 AM	RM	RM	0.96	1.00	1.29	0.97	0.95	1403		3665
4	10:22 AM	AS	DH	0.94	0.98	1.23	0.98	0.95	1417		3409
5	8:45 AM	AS	AP	0.91	0.95	1.17	0.96	0.92	1377		3221
6	10:39 AM	AS	AP	0.96	0.97	1.24	0.95	0.90	1369		3518
7	10:28 AM	AS	AP	0.87	0.88	1.16	0.85	0.81	1231		3165
8	10:43 AM	AS	AS	0.72	0.72	0.98	0.74	0.69	1072		2934
9	9:56 AM	AS	AS	0.72	0.72	0.95	0.76	0.70	1093		2774
10	8:39 AM	AS	AS	0.81	0.80	1.02	0.79	0.73	1131		3573
11	10:53 AM	AS	AS	0.82	0.83	1.08	0.81	0.76	1162		3256
12	10:07 AM	DH	DH	0.86	0.87	1.13	0.89	0.79	1285		3479
13	10:33 AM	DH	DH	0.90	0.91	1.17	0.94	0.88	1348		3309
14	10:01 AM	DH	DH	0.99	0.96	1.24	0.97	0.94	1394		3298
15	10:17 AM	DH	DH	0.96	0.96	1.28	0.97	0.94	1403		2902
16	8:57 AM	DL	DL	0.97	1.01	1.27	1.00	0.94	1447		3275
17	8:44 AM	DL	DL	1.00	1.00	1.29	1.02	0.97	1463		3472
18	10:45 AM	AS	AS	1.05	1.05	1.39	1.02	0.97	1463		3374
19	10:00 AM	AS	DH	0.95	1.00	1.25	0.98	0.93	1414		3341
20	10:31 AM	AS	DH	0.91	0.91	1.19	0.92	0.89	1331		3164
21	10:06 AM	AS	AS	0.91	0.92	1.26	0.93	0.90	1334		3381
22	10:09 AM	AS	AS	0.88	0.89	1.22	0.90	0.87	1296		2833
23	8:47 AM	RM	RM	0.87	0.86	1.17	0.88	0.84	1264		3151
24	8:50 AM	RM	RM	0.85	0.88	1.18	0.85	0.81	1231		2973
25	9:47 AM	RM	RM	0.80	0.83	1.13	0.85	0.81	1224		2245
26	8:48 AM	RM	RM	0.80	0.82	1.12	0.84	0.78	1214		3148
27	10:00 AM	AS	AS	0.85	0.87	1.15	0.87	0.81	1250		3233
28	10:49 AM	AS	AS	0.87	0.88	1.16	0.92	0.87	1320		3044
29	10:52 AM	KC	DH	0.94	0.94	1.24	0.92	0.87	1332		2998
30	9:10 AM	AS	AS	0.93	0.92	1.25	0.94	0.90	1355		3034
31	9:23 AM	AS	AS	0.99	0.94	1.31	0.96	0.87	1383		2530

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

Andy Froese (OIC) | AF  
 Allen Sterk (OIC) | AS  
 Rudy Martens (OIC) | RM  
 David Loewen (OIC) | DL

Marvin Penner | MP  
 Alec Plett | AP  
 Darren Henton | DH

Mike Heppner (OIC) | MH

# Monthly Chlorination Report

# Pumping Station #3

Water System Name: CITY OF STEINBACH

Water System Code: 219.00

Month: December

Year: 2023

Flow Meter or Daily Consumption: Treated

Daily Consumption Units: All units in m<sup>3</sup>

Date	Time	Operator in Charge	Operator Initials	Confirmatory Free Chlorine (ppm) *Portable	Confirmatory Free Chlorine (ppm) *Display	Total Chlorine	# of Free Chlorine Readings				Daily Consumption
							Avg.	Min.	Total	<STND	
1	8:00 AM	AS	AP	0.85	0.82	1.07	0.83	0.76	1194		1333
2	7:40 AM	RM	RM	0.80	0.82	1.05	0.83	0.76	1199		1360
3	7:55 AM	RM	RM	0.83	0.81	1.12	0.81	0.75	1167		1364
4	8:02 AM	AS	DH	0.80	0.78	1.06	0.79	0.75	1144		1331
5	8:16 AM	AS	AP	0.78	0.79	0.99	0.80	0.74	1155		1337
6	8:06 AM	AS	AP	0.78	0.80	1.01	0.81	0.73	1167		1293
7	7:51 AM	AS	AP	0.78	0.77	1.01	0.78	0.71	1127		1340
8	8:12 AM	AS	AS	0.77	0.77	1.01	0.79	0.71	1144		1351
9	8:17 AM	AS	AS	0.76	0.77	1.00	0.78	0.73	1130		1305
10	7:44 AM	AS	AS	0.78	0.78	1.01	0.80	0.74	1154		1397
11	8:31 AM	AS	AS	0.75	0.82	1.06	0.79	0.75	1142		1328
12	8:25 AM	DH	AP	0.76	0.78	1.03	0.78	0.74	1130		1370
13	8:00 AM	DH	DH	0.82	0.77	1.09	0.78	0.70	1130		1320
14	8:11 AM	DH	DH	0.81	0.80	1.03	0.81	0.75	1169		1335
15	8:06 AM	DH	DH	0.83	0.80	1.06	0.81	0.75	1164		1319
16	7:53 AM	DL	DL	0.85	0.81	1.12	0.82	0.74	1179		1347
17	7:56 AM	DL	DL	0.85	0.80	1.12	0.80	0.75	1149		1312
18	8:02 AM	AS	DL	0.79	0.77	1.06	0.79	0.73	1142		1361
19	8:17 AM	AS	DH	0.81	0.79	1.08	0.80	0.73	1151		1337
20	8:15 AM	AS	DH	0.86	0.78	1.07	0.81	0.72	1165		1327
21	8:00 AM	AS	AS	0.86	0.80	1.13	0.85	0.74	1228		1340
22	8:00 AM	AS	AS	0.85	0.85	1.08	0.86	0.79	1243		1333
23	7:43 AM	RM	RM	0.84	0.83	1.06	0.83	0.75	1200		1346
24	7:46 AM	RM	RM	0.78	0.80	1.04	0.81	0.75	1165		1414
25	8:48 AM	RM	RM	0.78	0.78	1.03	0.80	0.72	1149		1260
26	7:46 AM	RM	RM	0.78	0.76	0.99	0.79	0.72	1138		1360
27	8:09 AM	AS	DH	0.81	0.77	0.93	0.79	0.73	1134		1331
28	8:07 AM	AS	AS	0.72	0.74	0.98	0.75	0.69	1083		1368
29	8:06 AM	AS	DH	0.75	0.69	0.94	0.73	0.64	1049		1179
30	8:12 AM	AS	AS	0.68	0.66	0.89	0.79	0.72	1134		1346
31	8:18 AM	AS	AS	0.75	0.75	0.98	0.79	0.72	1134		1297

Submitted By (Print): Allen Sterk

Signature: 

**Operators:**

- |                         |                    |
|-------------------------|--------------------|
| Andy Froese (OIC)   AF  | Marvin Penner   MP |
| Allen Sterk (OIC)   AS  | Alec Plett   AP    |
| Rudy Martens (OIC)   RM | Darren Henton   DH |
| David Loewen (OIC)   DL |                    |

Mike Heppner (OIC) | MH