Public Works Quarterly Report – 2025



1st Quarterly Report - 2025

Streets and Parks Quarterly Report | Q1 2025



1602 tons of gravel were spread throughout the cities gravel roads.

- 9 New Construction Residential Inspections

- Staff continues to utilize the RTK to identify

- 3 Accessory Building Inspections

stormwater catch basins for future

<u>Stormwater -</u>

maintenance.

- 1 Pool Inspection



3700 yards of woodchips were hauled out from the lot across from the City Hall/Fire Station. Some of these chips have been used to create new nature walking trails in our parks.



316.8

Miles of Road Plowed





SALT

52 Events in Parks



137 Hrs Building Maintenance

There was actually some snow this year for staff to give our winners of the snow plow ride to school. Its fun to see the smile on the kids faces when they are dropped off at school.



105 Hrs Equipment Repair



Recycling



Recycling events are moved to the east end of Public Works. We are using the old building to temporarily store recycling until venders can pick it up after events. We are also accepting recyclables during the week by appointment only.







Water and Wastewater 1st Quarter Report

Winter-Spring 2025

To: City Council

Water Treatment Facility Report: The first quarter difference between 2024-2025 monthly and daily water usage.



For the first quarter of 2025, we pumped about three percent less finished water than in 2024. We have billed for 35.41 million gallons of water used, compared to pumping 35.08 million gallons of finished water. That is an excellent, water accounted for percentage.

Great news...One major condition that can affect our pumping rates is dry or drought conditions. The DNR classifies drought by intensity. None, abnormally dry, moderate, severe, extreme and exceptional. We are classified as none, compared to northern parts of the state that are experiencing severe conditions.

Water Treatment Facility Task:

TASK	DESCRIPTION	QUANTITY	UNITS
Inspect Facility Daily	Facility Inspection	63	Inspections
Operational Hours	Hours spent at facility.	126	Hours
Calculate Influent and Effluent	Calculate gallons pumped for both influent and effluent.	Daily	Calculation
Calculate Chemicals	Calculate treatment chemicals used daily.	Daily	Calculations
Chemical Adjustment	Adjust chemicals based on lab testing results.	As Needed	Chemical Adjustments
Daily Labs	Perform lab on chlorine, fluoride, orthophosphate, iron and manganese.	325	Labs
Well House	Inspect daily, take readings, drawdowns, and pump runtimes.	91	Inspections
Bacteria Samples	Take set of monthly MDH bacteria samples.	20	Samples Per Set



NaMnO4 or Sodium permanganate is used to remove manganese and radium in raw water. Chlorine, fluoride and Orthophosphate are added to the finished water when leaving the facility.

Water Treatment Facility Lab Results:

Disinfectant	Average Chlorine	.74	Mg/I
Before treatment	Average Raw Iron	.99	Mg/I
Before treatment	Average Raw Manganese	.071	Mg/I
Dental	Average Fluoride	.72	Mg/I
Facility removal rate	Iron Removal	99	%
Facility removal rate	Manganese Removal	87	%

Drinking Water 1st Quarter Summary:

<u>DNR Appropriations</u>: Staff continue to work with our DNR hydrologist to allow an increase with our water appropriations.

<u>**High Water Use</u>**: Over the winter months, staff continued to monitor high water use, using our Neptune 360 software. Here is just one example from March, of staff assisting one of our residents.</u>



This home was using over two hundred gallons of water an hour! Neptune 360 flagged it as high consumption. After staff reached out to the resident and scheduled an appointment, it was determined that leaking toilet was the cause. The resident was very grateful that this was found.

<u>District Two Asset Management</u>: Staff completed exercising over 300 gate valves. Each valve requires about 15 revolutions to close and 15 to open.

<u>Fire Hydrants</u>: Staff completed greasing over 400 hydrants prior to spring flushing. This is done bi-annually to ensure working order.

<u>Water Treatment Facility Maintenance</u>: Staff completed high service pump and well maintenance. This work includes oil changes and greasing, if needed. They also inspect the packing for correct leakage. They completed rebuilding our chlorine feed system. That work included making a new manifold and installing over 250 feet of tubing.

Wastewater Treatment Facility Report: Our monthly flow totals for the first

three months of 2025.





The graph below shows our new, 2026 daily and monthly max limit and our current chloride levels.

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Task	Description	Quantity	Units
Monthly Sampling	Perform required monthly sampling: 8 Influent 29 Constituents); 8 Effluent (50 Constituents:	230	Constituents
Operational Hours	Hours spent at facility.	520	Hours
Inspect Operations Building	Daily inspection of building.	63	Inspections
Inspect Pre-treatment Building	Daily inspection of building.	63	Inspections
Inspect Tertiary Building	Daily inspection of building.	63	Inspections
D.O Readings	Take Required D.O Readings.	90	D.O Readings
pH Readings	Take Required pH Readings.	90	pH Readings
Inspections	Inspect 8 lift stations daily and calculate pump runtimes.	496	Lift Station Inspections
Daily Lab	Process Control Test	216	Tests

Facility Report: Wastewater Treatment Facility Lab Results:

	Influent TSS	245	Mg/I
Limit: (15 mg/l)	Effluent TSS	0	Mg/I
Limit: (85 %)	TSS % Removal	100	% Removal
	Influent CBOD	221	Mg/I
Limit: (15 mg/l)	Effluent CBOD	0	Mg/I
Limit: (85 %)	CBOD % Removal	100	% Removal
	Influent Phosphorus	5.1	Mg/I
Limit: (1 mg/l)	Effluent Phosphorus	0	Mg/I
	Phosphorus % Removal	100	% Removal
	Influent Ammonia Nitrogen	27.4	Mg/I
Limit: (Seasonal) 1.4 mg/l	Effluent Ammonia Nitrogen	0	Mg/I
	Ammonia Nitrogen % Removal	100	% Removal

Summary: The wastewater treatment facility met all MPCA assigned limits this quarter.

Daily Tasks:

Locates	Process Locate Requests	25	Utility Locate Requests
Water/Sewer Connections	Inspect Water and Sewer	3	Inspections
Water Miscellaneous	Work orders:	5	Work Orders

First Quarter Events and Tasks:

<u>Chlorides:</u> Staff has started chloride sampling throught out the city using our eight lift station as a sample sites. Results of this project will be presented after all sampling is complete.

<u>Aeration Blower Maintanence:</u> Staff completed yearly maintanece on the three blowers. This includes oil changes, belt inspections, greasing, and filter changes.

<u>Biosolids Blower Maintanence</u>: Staff completed yearly maintanece on the three blowers. This includes oil changes, belt inspections, greasing, and filter changes.

<u>Rapid Mixer Maintanence</u>: Staff completed maintanence on the rapid mixer. This includes oil changes and greasing.

<u>Clarifier Maintanence</u>: Staff completed maintanence on the clarifier. This includes greasing and oil changes.

<u>UV System</u>: The UV system is up and running for the next eight months. This is used for disinfection of the wastewater.

<u>Met Council Wastewater Facility Tour:</u> Staff was able to go and tour the met treatment facility and meet met council staff. It was a great to see one of the largest facilities in the US in person.

<u>Cyber Security Training</u>: Staff attended a two day training session on cyber threats and how to limit our exposure to thew at our water and wastewater facilities.

<u>MPCA Compliance Inspection</u>: In February, the MPCA was here and completed a compliance inspection of our wastewater facility. This is done about every three years.

A Few Upcoming Projects This Year...and Next:

Woodbine and 229th project will begin soon. Replacement of the fifty year old watermain, curbstops and increasing its size will be a great benefit to the residents. This project will also eliminate one of the few remaining "path" roads.

Sanitary sewer jetting will take place early this summer to make sure that our sanitry collection system in in working order. This is done to eliminate any blockages.

Diamond maps and RTK work is continuing on storm water. Staff is locating all storm pond outfalls and other storm related structures. This will be completed this summer.

Programmable logic Controller (PLC) replacement at the water treatment facility and well house will be happening in May. This equipement is deemed " out of date" and no longer capable of any updates. The main function of this equipment is that it controls all operational functions.

Well 4 VFD replacement will be happen this latter this spring. The current one is over 12 years old and is starting to fail.

And looking into 2026...The water tower will be taken out of service in 2026 for month for a fresh coat of exterior paint. This will not be a complete sand blasting and paint job, but a preventative maintenace coat.