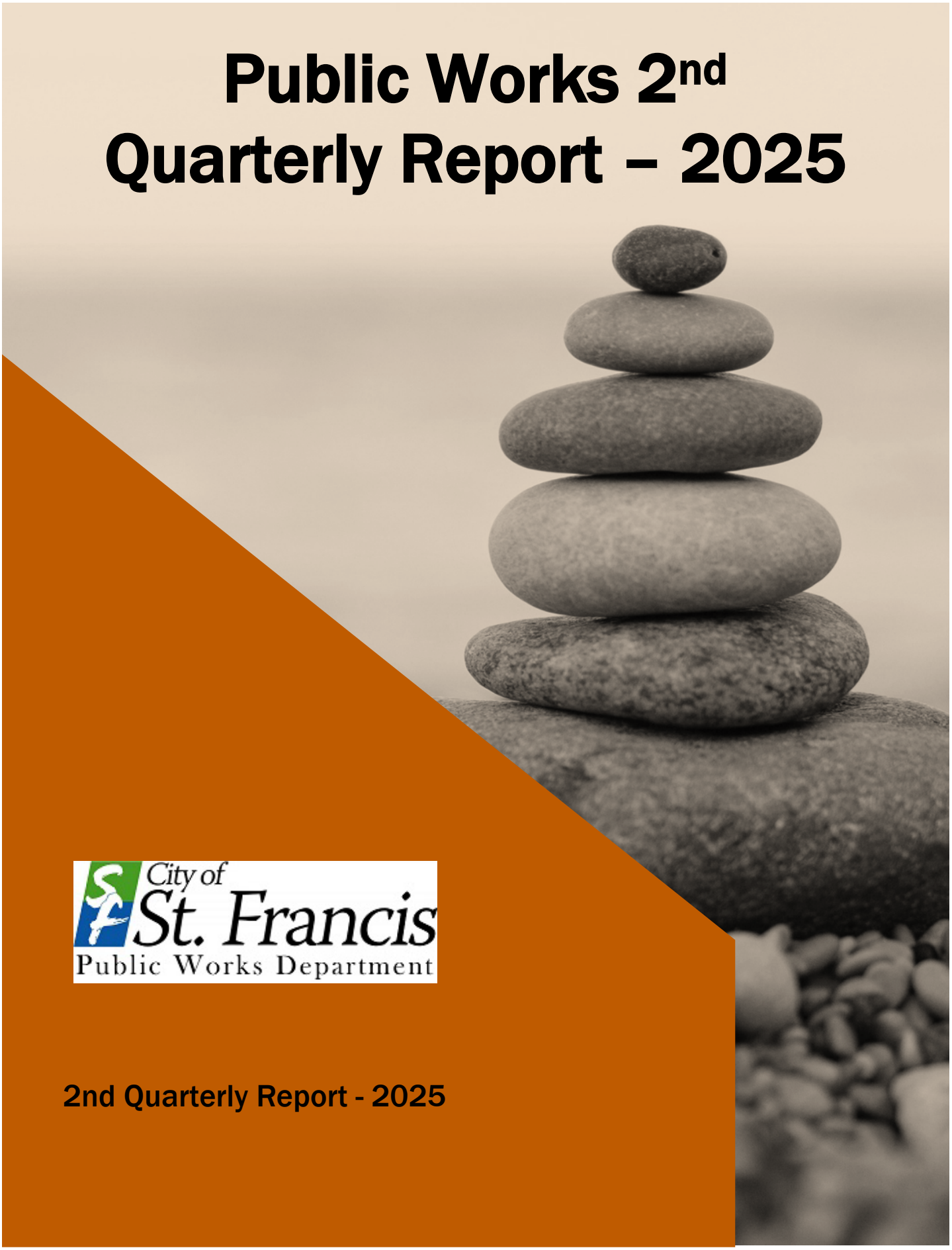
Public Works 2nd Quarterly Report – 2025



City of St. Francis
Public Works Department

2nd Quarterly Report - 2025

Streets and Parks Quarterly Report | Q2 2025

Before

After

The Gazebo at Woodbury Park was long over due for a new roof. The old roof was made from cedar shakes which were over 30 years old. The new roof is constructed with a new metal roof which is estimated to last about 50 years and will hold up against the elements better.

181
Ditch Mowing

72.9
Miles of Trail Mowing

636.02
Acres of Mowing

61
Events in Parks

147 Hrs
Building Maintenance

110 Hrs
Equipment Repair

173 Hrs
Equipment Maintenance

43.5
Miles of Road Graded

15
Call Ins

<u>Stormwater -</u>
- 18 Plan Reviews
- 14 New Construction, 3 Accessory Buildings, 1 Pool Inspection
- 27 hrs of RTKing to identify stormwater catch basins for future maintenance.
- 1 SW Pond Clean out
- Rain Garden - 1hr/week

18 - ROW Permits

238th Ave one of our gravel roads had 2 failing coverts which was causing the road to wash away. These culverts are estimated to be about 45-50 years old. 2 new longer culverts have been installed to allow for better slopping of the ditch bank.

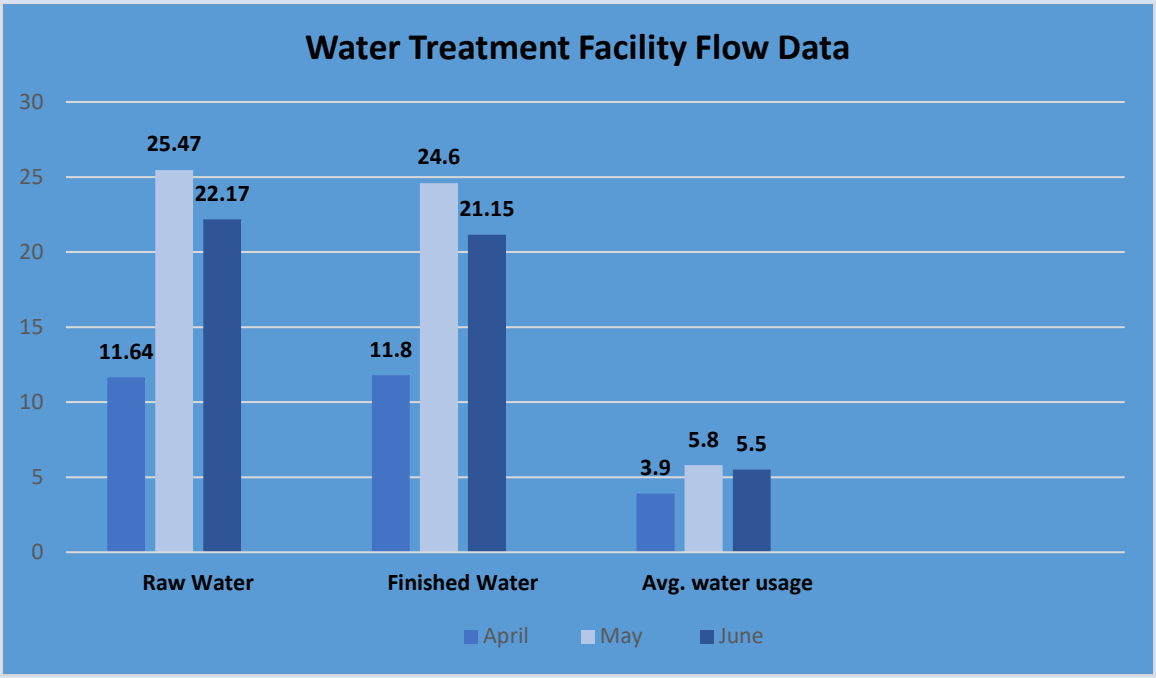
New flowers have been planted in Woodbury Park. Thank you St. Francis Ambassadors for the help.

Water and Wastewater 2nd Quarter Report

Spring-Summer 2025

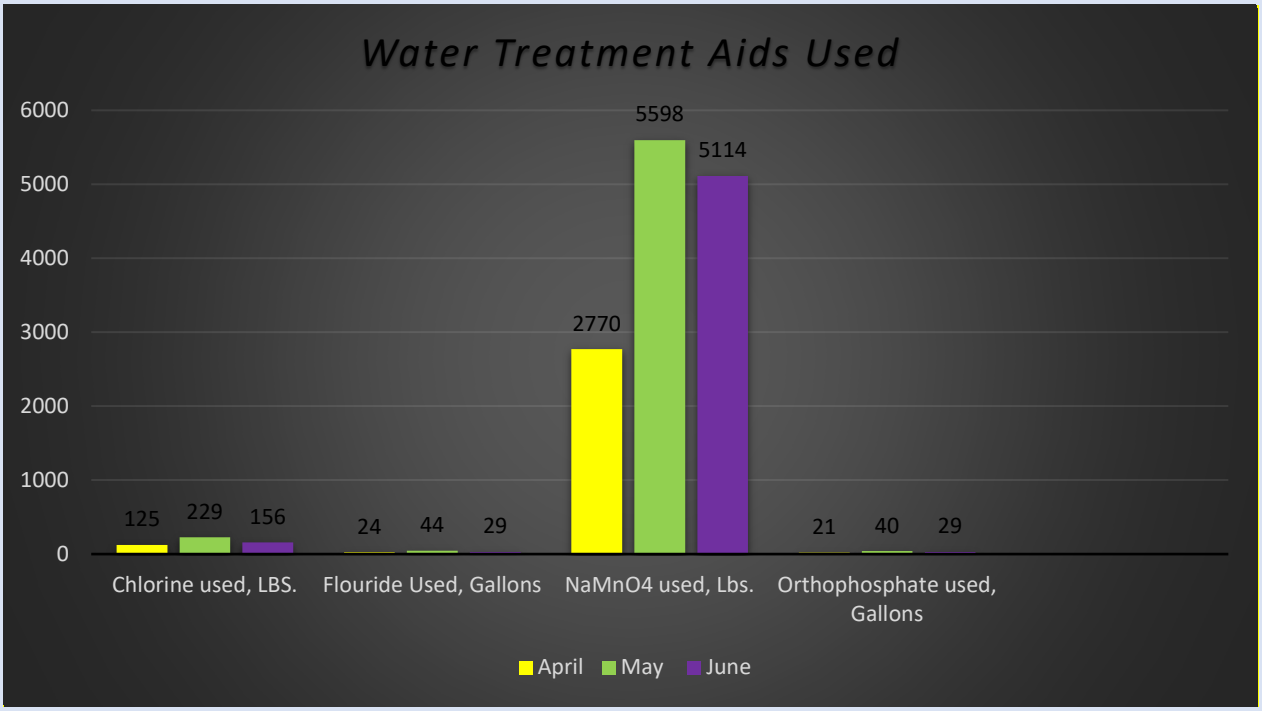
To: City Council

Water Treatment Facility Report: Below is a graph showing the second quarter flow data.



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

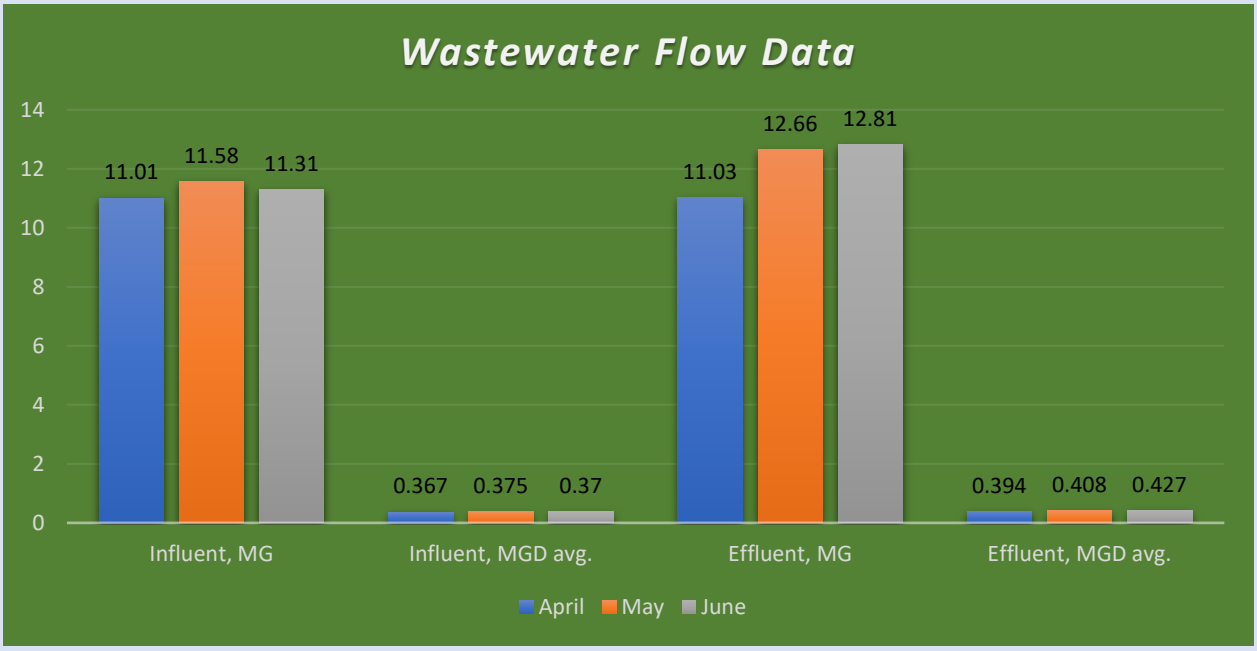
	Average Chlorine	.64	Mg/l
	Average Raw Iron	.91	Mg/l
	Average Raw Manganese	.082	Mg/l
	Average Fluoride	.64	Mg/l

	Iron Removal	99	%
	Manganese Removal	87	%

Water Treatment Facility Pumping Summary: We have pumped roughly twenty-five percent more raw water this year, compared to the same time last year.

Minnesota Department of Health: In May, the Department of Health was here and conducted a sanitary survey of our water system. This visit includes inspecting the water treatment facility, wellhouse and water tower for any deficiencies. None were found. They also collect total coliform samples for analysis, which I am happy to report, all came back negative!

Wastewater Treatment Facility Report: Below is a graph showing our daily flow for second quarter of 2025.



Task	Description	Quantity	Units
Monthly Sampling	Perform required monthly sampling: 8 Influent 29 Constituents); 8 Effluent (50 Constituents: Monitoring wells (25)	230	Constituents

Operational Hours	Hours spent at facility.	504	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	224	Mg/l
Limit: (15 mg/l)	Effluent TSS	0	Mg/l
Limit: (85 %)	**TSS % Removal**	**100**	**% Removal**
	Influent CBOD	218	Mg/l
Limit: (15 mg/l)	Effluent CBOD	0	Mg/l
Limit: (85 %)	**CBOD % Removal**	**100**	**% Removal**
	Influent Phosphorus	6.2	Mg/l
Limit: (1 mg/l)	Effluent Phosphorus	0	Mg/l
	Phosphorus % Removal	**100**	**% Removal**
	Influent Ammonia Nitrogen	28.4	Mg/l
Limit: (Seasonal) 1.4 mg/l	Effluent Ammonia Nitrogen	0	Mg/l
	Ammonia Nitrogen % Removal	**100**	**% Removal**

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

Locates	Process Locate Requests	98	Utility Locate Requests
Water/Sewer Connections	Inspect Water and Sewer	2	Inspections
Water Miscellaneous	Work orders: Meter inspections.	0	Work Orders

Chlorides: In May, staff implemented a city wide, chloride testing program to determine what areas of town have the highest concentration of chloride in wastewater. Staff utilized a portable sampler and sampled for seven days in each lift station, collecting three samples for the week. With the exception of three service areas, all other service areas exceeded the future calendar month average of 354 mg/l. This information will be used to assist with softener optimization and our rebate program.

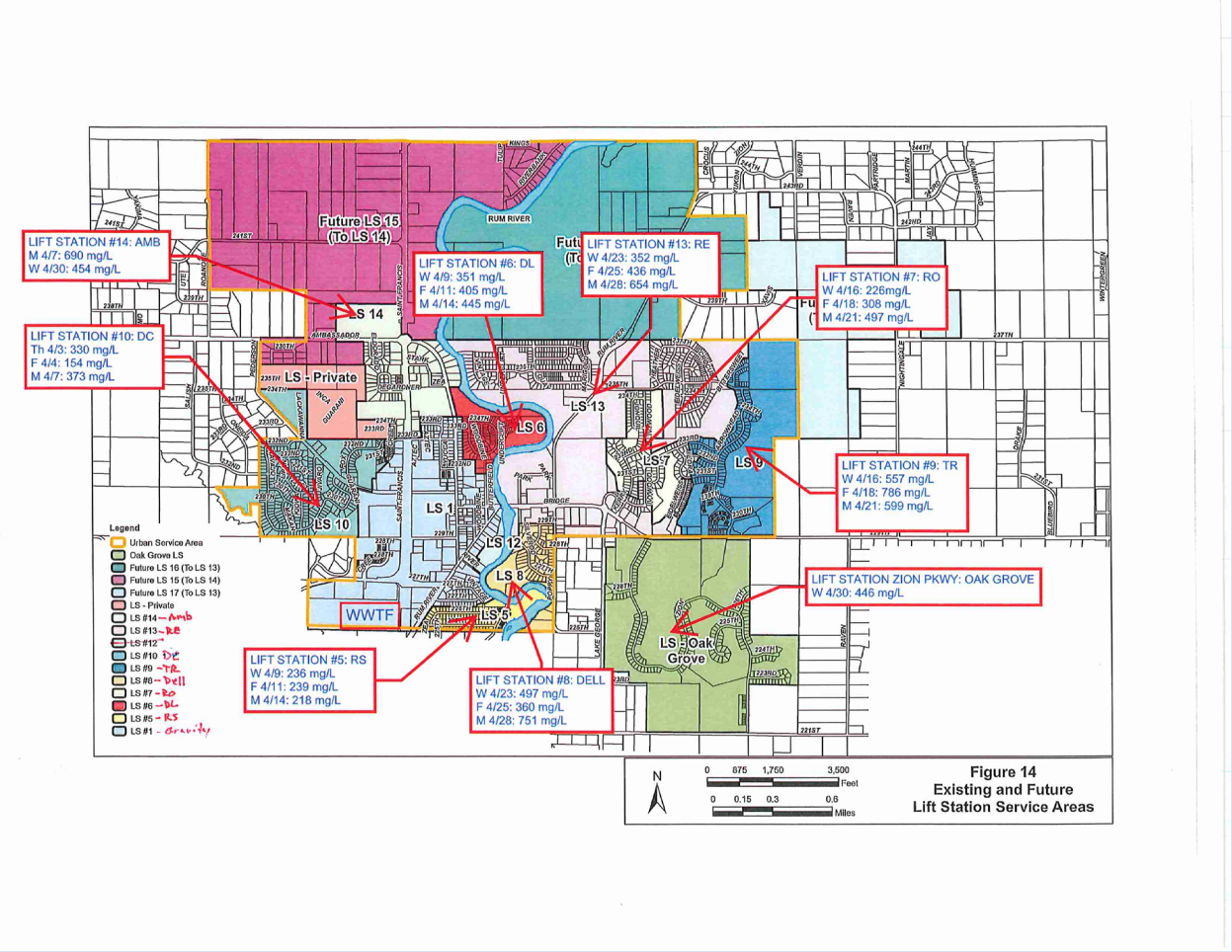


Figure 14
Existing and Future
Lift Station Service Areas

Completed Projects:

Water Tower: The RPZ for the fill station failed. A new one was ordered, installed and is operational.

Well House: Staff completed painting the exterior of the building.

Biosolids: Fergus Power pump completed the first part of solids pressing and tank cleaning. They will be back in September to finish.

Lift Station Maintanence: Staff completed maintanence on all the lift stations. This includes oil changes, clean out and alarm checks.

Hydrant Flushing: Staff completed hydrant flushing of over four hundred hydrants.

Gate Valve Exercising: Staff exercised gate valve to ensure working order.

DL-6 Lift Station: Staff had to repair pump cord and cap on one pump, and replace the seal in another.

PW/PD Cameras: Staff replaced all the lens caps on the cameras at our facility. The old caps were hindering image quality.

Thank you,

Parish Barten