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**TO:** Mayor and Council

**FROM:** Alyshia Neuman- Manager of Works and Operations

**DATE:** April 14, 2021

**RE:** 2<sup>nd</sup> Street SW Water Issues

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**ISSUE:**

Council has requested further investigation to solve the water issues for consumers on 2<sup>nd</sup> Street SW.

**BACKGROUND:**

There has been monthly follow up with Mr. Leach as per Councils request at the February 8<sup>th</sup> regular council meeting and he is still seeing some water issues at his property.

**ALTERNATIVES:**

- 1) Loop 3<sup>rd</sup> ST SW through Wadena Ave to 2<sup>nd</sup> ST SW
- 2) Dig in front of selected customers properties to inspect the main connection.
- 3) Flush more often from the end of 3<sup>rd</sup> ST SW when Turbidity is high or when there is a pattern of water complaints in the area.

**FINANCIAL IMPLICATIONS:**

Cost of looping 3<sup>rd</sup> ST SW through Wadena Ave to 2<sup>nd</sup> ST SW is quoted at \$22,000, this is a non-budgeted item.

Cost of digging the main in from of selected customers properties is quoted at \$2,500, this is also a non-budgeted item.

Flushing more has no financial impact.

**ANALYSIS:**

Overall, the water being distributed from the plant remains compliant and when it is not it is directly reported to the Environmental Project Officer for analysis of a precautionary boil water advisory if necessary. This corner of town has not been looped and is technically part of a "Tree-Branch" System. When consumers are not using the water, the flow slows down and only moves when there is demand. Looping the system would allow the water to move more frequently.

During the spring months there is still frost in the ground and when the temperature changes, we see an impact on our distribution pipes. Normally there is no flushing in the winter and with a low demand this causes normal sedimentation in the main pipes. This is eliminated when we do our spring flushing and maintenance program on fire hydrants. We also flush in the fall to prepare for winter.

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Performing a scheduled dig in front of consumers properties to ensure the connection to the main is in the correct position would eliminate the question of sedimentation issues at the connecting portion of the customers property and the water main but would not eliminate normal sedimentation in the overall water main.

By increased flushing, you do not allow as much normal sedimentation to settle in your water main but too much flushing puts a lot of stress on the Water Treatment plant to keep up with demand. If the Public works team were to track water complaints in this area and flush when needed this would aid in the overall quality of this section of town.

**ADMINISTRATIVE RECOMMENDATION(S):**

“Administration recommends to do more frequent flushing as needed to address the water issues in this area for this year”.