



Staff Report

January 3, 2023 Council Workshop Meeting

Professional Services Agreement for Pressure Reducing Valve (PRV) Study

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

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BACKGROUND: Pressure Reducing Valves (PRVs) are installed within the City's water system to automatically reduce high pressure in water lines to more manageable water pressures within specific zones, or areas, of the city. PRVs are particularly needed and important in communities like Camas with lots of elevation changes.

SUMMARY: As the City has grown over time, dozens of PRVs have been installed to manage pressure changes between different areas of the City. The Water System Plan Update recommends that an analysis of PRV settings be completed to confirm that PRV's are operating efficiently and to determine if there are any redundant PRV's that could be eliminated.



Figure 1: PRV Valve

EQUITY CONSIDERATIONS:

What are the desired results and outcomes for this agenda item?

More efficient operation of the water system and possible energy savings.

What's the data? What does the data tell us?

There may be some PRV's which need to be adjusted to optimize system pressures

How have communities been engaged? Are there opportunities to expand engagement?

Industrial customers that rely on certain water pressures will be notified of any pressure changes.

Who will benefit from, or be burdened by this agenda item?

Customers will benefit by more efficient operation of the water system which should reduce energy costs

What are the strategies to mitigate any unintended consequences?

Measuring of pressures at hydrants before and after any PRV adjustments

Does this agenda item have a differential impact on underserved populations, people living with disabilities, and/or communities of color? Please provide available data to illustrate this impact.

No

Will this agenda item improve ADA accessibilities for people with disabilities?

N/A

What potential hurdles exists in implementing this proposal (include both operational and political)?

None known.

How will you ensure accountabilities, communicate, and evaluate results?

If any significant changes are required, staff will inform Council Members and the affected public.

How does this item support a comprehensive plan goal, policy or other adopted resolution?

This item is identified in the City's Water System Plan that should be evaluated for operational efficiencies and energy savings.

BUDGET IMPACT: This PSA will be budgeted out of the Water Professional Services line item which has sufficient budget to cover these expenses.

RECOMMENDATION: This item is for Council's information only. Staff recommends this item be placed on the January 16th, 2023 Council Regular Meeting Agenda for Council's consideration.