

**TO: Eric Campbell, City Manager**  
**FROM: Mike Collins, Public Utilities**  
**DATE: October 4, 2021**  
**RE: Raw Water Supply Management Plan (RWSMP)**

**Summary:**

Since the original presentation to City Council in 2015 of the Harrisonburg **Raw Water Supply Management Plan (RWSMP)**, I have made annual presentations of progress regarding the recommendations within the plan. This presentation will provide an update to the progress made through the present.

**Background:**

The City is currently operating under the guidelines of the HPU “Raw Water Supply Management Plan”. The plan is a culmination of actions that have been organized with purpose to assure that the City of Harrisonburg will have adequate raw water to supply its future needs.

The Plan addresses Dry River, North River, South Fork Shenandoah River, Silver Lake and some potential future other sources of raw water supply.

**Key Issues:**

The plan requires the City to forecast its future raw water needs and to update the forecast annually. The Plan then identifies six major goals to securing the forecasted water supply need; the City has been suggested to:

- 1) Maintain compliance with Virginia Administrative Code for Regional and Local Water Supply.
- 2) Retain effective, and remain compliant with, the Virginia Water Withdrawal Permit #16-0730.
- 3) Pursuant to established retirement schedules, upgrade the raw water supply pipe from Dry River to the City WTP
- 4) Immediately upgrade Bridgewater Pump Station at North River and pursuant to established retirement schedules, upgrade the raw water supply pipe from North River to the Water Treatment Plant.
- 5) Formalize the future of Silver Lake by integrating the understanding of possible future dependency upon the waters against contract arrangements with the current user, the Town of Dayton.
- 6) Complete the South Fork Shenandoah River Project.

**Environmental Impact:**

The plan includes significant stewardship through environmentally sound principles such as minimum in-stream flow protection, conservation requirements and protection of aquatic environment from entrainment / impingement.

The plan also includes a best practice plan for energy and carbon footprint management.

**Fiscal Impact:**

- \$21,000,000 in future Capital Improvement Projects to the Western Raw Water System
  - \$ 6,000,000 VWWP intake screens 2023
  - \$ 5,000,000 11,000 feet waterline upgrade 2027
  - \$10,000,000 22,000 feet waterline upgrade 2032

**Prior Actions:**

- City Council supported the initial presentation and the updates.

**Alternatives:**

Significant alternatives have been considered over the past 30 years; the best practices have been adopted into the Plan.

**Community Engagement:**

Open for discussion at City Council

**Recommendation:**

City Council is an important project stakeholder and should be given opportunity for project input as desired.

**Attachments:**

- 1) Power point presentation

**Review:**

*The initiating Department Director will place in Legistar, in sequence of transmittal, the names of each department that must initial their review in order for this item to be placed on the City Council agenda. The completion of review only addresses the readiness of the issue for Council consideration. This does not address the recommendation for approval or denial of the issue.*