



## Staff Report

June 16, 2025 Council Workshop Meeting

Professional Services Agreement for UV Disinfection and Equipment Building  
Construction Assistance

Presenter: Rob Charles, Utilities Manager

Time Estimate: 10 minutes

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**BACKGROUND:** As equipment at the Waste Water Treatment Plant (WWTP) continues to age, it is necessary to upgrade and replace this equipment to keep the plant running efficiently and meeting permit requirements with the Department of Ecology. The equipment building houses multiple treatment components for the plant which will receive upgrades including two new aeration blowers, an additional centrifuge for solids drying, updated HVAC controls to help cool electrical areas and ventilate areas with high hydrogen sulfide content, and a new backup generator for the building. The septage receiving station and the ultraviolet (UV) components in a separate building will also be upgraded. Clarifier mechanisms in both of the primary clarifiers will be replaced with stainless steel components to prolong their life. Electrical controls will be replaced with newer technology. All these components need to be upgraded due to age of the equipment, older technology, lack of support from suppliers and vendors, or difficulty in obtaining replacement parts. The upgrades will allow the plant to operate more efficiently with less staff time devoted to repair of equipment or reduced down time when equipment is being repaired.

**SUMMARY:** At the regular council meeting, City Council will be considering awarding a contract to the low bid contractor for this work.

The City is proposing to have contract inspection completed by HDR, Inc. who have provided a scope of services perform full time inspection and construction documentation for the project. HDR, Inc have inspectors who have years of experience working and inspecting waster water upgrades.

It is important to have a full time inspector and project manager that are qualified to review the contractor's day to day, week to week and overall schedule so there are the least amount of impacts at the plant during construction. Weekly meetings, review of pay applications, and look ahead schedule coordination are critical to maintaining the overall project schedule.

The work involved with the contract is dictated by the contract specifications and requires that installation of equipment meets manufacturer recommendations for installation. The contractor

will also be required to have the plant treating wastewater during construction, which requires close coordination with the HDR team and city wastewater staff as older equipment is taken off line and replaced with new equipment. Start up of components is also a critical piece of the project to ensure that new and existing components of the plant are able to work together seamlessly.

Submittal review of equipment and materials, materials testing and special inspections will be provided by the HDR team. Construction Close Out Services includes review of contractor provided Operation and Maintenance Manuals for all new equipment and processes.



**Fig.1 Centrifuge Room in Equipment bldg.**



**Fig.2 Blower Room**



**Figures 3-5: Corroded Metal in Primary Clarifier Basin**



**Fig. 6 Generator**

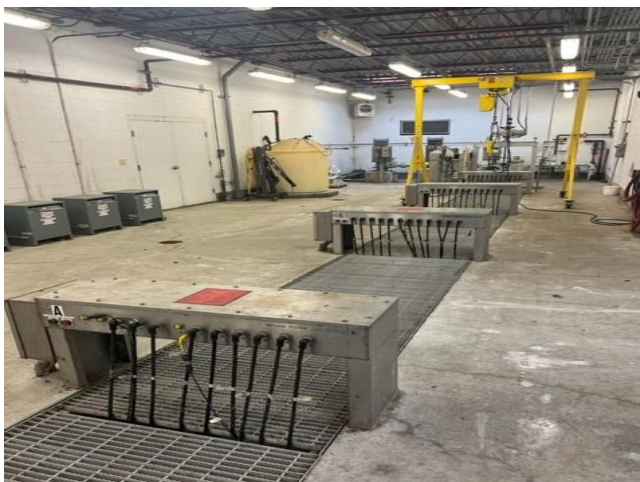




**Fig 7 Septage Receiving Station**



**Fig. 8 Electrical Room/ HVAC upgrades**



**Fig. 9 Ultraviolet (UV) Bank**



**Fig. 10 Septage Receiving Station**

**BENEFITS TO THE COMMUNITY:** Ensure that the upgrades are installed per the engineer's and manufacturers recommendations to provide the longest life to the city.

**BUDGET IMPACT:** The cost for the HDR, Inc. project is \$1,780,286 and will be covered by revenue bonds being issued by the city in the amount of \$14,000,000 for this project.

**RECOMMENDATION:** Staff recommends this item on the July 7, 2025 Council Regular Meeting Agenda for Council's consideration.