IMPACT STATEMENT

Legislation title:

Authorize a contract with Water Systems Consulting, Inc. for the development of an asset

management-based Pump Station System Plan for a total not-to-exceed amount of

\$379,120 (Ordinance)

Contact name:

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Presenter name:

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Purpose of proposed legislation and background information:

The purpose of this legislation is to authorize a professional, technical, and expertise contract with Water Systems Consulting, Inc. for the development of an asset management-based Pump Station System Plan ("PS System Plan").

One responsibility of the BES - Engineering Services Group is to address risks to its natural and man-made assets by assessing structural and capacity deficiencies within its combined and sanitary sewer systems. An important component of the City's sewer system are the pump stations. The City operates and maintains 99 wastewater pump stations in our service area, and the majority are over 60 years old. The combined replacement value of BES pump station assets is over \$1.0 Billion. Pump stations include complex mechanical, electrical, and structural components. Failure of pump stations due to age and condition can create significant problems in the operation of the sewer system, including increased risk of sanitary sewer overflows and regulatory fines. Without adequate condition assessment data on pump stations, BES lacks information to appropriately plan and scope capital projects to repair aging pump station components.

BES is creating the PS System Plan in order to improve knowledge of existing risks of Pump Station deterioration and failure; and to develop a prioritized approach for reducing those risks through a CIP project implementation plan. The Wastewater Group began hiring new staff to expand the Condition Assessment Program for Wastewater Treatment assets including pump stations in FY 2016-2017, however there is not currently a detailed pump station condition assessment methodology for that new team to implement. The PS System Plan will provide development and initial implementation of a detailed pump station condition assessment methodology and will develop an implementation plan to assist in ongoing work in the Condition Assessment Program.

Specifically, the System Plan will provide the City with the following:

- Development and initial implementation of a pump station condition assessment program with detailed mechanical, electrical and structural analysis;
- Training of BES staff for ongoing implementation of the pump station condition assessment program;
- Condition assessments on 10 high priority aging pump stations that includes a seismic resiliency evaluation;
- Risk analysis and project prioritization for pump stations; and
- A CIP Project implementation plan and budget analysis.

A formal Request for Proposal was conducted (RFP 00000464) in accordance with Chapter 5.68 of the Code of the City of Portland and three responsive proposals were received. An evaluation committee selected Water Systems Consulting, Inc. as a responsive and responsible proposer.

Financial and budgetary impacts:

The contract amount is \$379,120. Funding for the contract is provided in the Sewer System Operating Fund's Five-year Financial Plan for FY 2017-18 through FY 2021-22 within the professional services line item for system planning in the Asset Systems Management Division.

One primary outcome of the System Plan is to develop a short-term and long-term CIP budget and Implementation Plan for proper asset management of the pump station assets. The System Plan will not directly have any financial or budgetary impacts; however, it will include future CIP recommendations that will help the City responsibly manage its risk.

Community impacts and community involvement:

YES: Please complete the information below.

Does this action change appropriations?

NO: Skip this section

The System Plan does not contain any construction or other activities that will impact neighborhoods or ratepayers in the City of Portland service area.

Budgetary Impact Worksheet

Fund Center	Commitment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amount
	Fund Center					