

August 2, 2022 Board of County Commissioners Regular Meeting
Agenda Item #

SUBJECT

Approve Consultant Services Authorization 18-066-04 with Black and Veatch Corp. for the Horizontal Asset Risk Analysis project. (\$371,385 not-to-exceed, one-time expense)

DESCRIPTION

The County continues to expand their asset management program and is desirous of categorizing assets based on criticality and risk of failure. Using typical industry standards, the consultant will estimate the average life expectancy for each material type within the respective utility systems (potable, raw, reclaimed, and wastewater) for use in developing related risk criteria. Initial likelihood of failure (LOF) and consequence of failure (COF) criteria will be used to determine the risk for each horizontal asset (e.g., pipe size, work history, break history, age, etc.). Various tools will be developed as a result of this project including 1) a decision tree to support renewal and replacement planning for each of the County's respective utility systems, and 2) an ArcGIS on-line or PowerBI dashboard presenting the risk results summary. The County has requested the Consultant provide the engineering services in support of this project.

RECOMMENDATION

Request Board approve Consultant Services Authorization 18-066-04 with Black and Veatch Corp for the Horizontal Asset Risk Analysis project at a cost not to exceed \$371,385.

FISCAL IMPACT

Funding in the amount of \$371,385 is available in the Utilities five-year Community Investment Program Budget Repair and Rehabilitation Building and Non-Production Projects budget.

CONTACT INFORMATION

Charles Nichols

Asset Manager

(863) 298-4215

charlesnichols@polk-county.net