

X Capital

O&M

## 2018 – Shared Services/Facilities

<b>Project/Program Title</b>	Willow Brook Dam Enhancements
<b>Project Manager</b>	Kevin Duggan
<b>Project Number</b>	
<b>Status of Project</b>	Engineering
<b>Estimated Start Date</b>	April 1, 2016
<b>Estimated Completion Date</b>	September, 2019
<b>Work Plan Category</b>	Regulatory Mandated

**Work Description:** Phase I of the project involves the engineering design of the new spillway for the Willow Brook Dam in order to meet the new NYS DEC Storm requirements. Phase II will be the construction of the new spillway.

**Justification Summary:** The Willow Brook Dam, located at the north end of the Orange & Rockland Lakes in the Village of South Blooming Grove is classified as a Class C High Hazard Dam indicating the potential loss of life and property if a failure occurred. As such, the NYS DEC requires monthly inspections and an Emergency Action Plan (EAP). After the major Storms Irene and Sandy, The NYSDEC required every owner of a Class C dam to provide the State with an Engineering Assessment of the dam identifying the ability to meet the new requirements for a storm event. ORU retained the services of Paul C Rizzo to complete the assessment. The assessment indicated the current spillway is undersized to handle the new larger storm event. As such, a plan was submitted to bring the dam into compliance with the new regulations.

**Supplemental Information:** Additional information to reinforce the justification

- **Alternatives:** For O&R, the only alternative is to sell the property with the dam. A real estate assessment was taken. At this time, ORU does not plan on selling the property, thus requiring the company to meet the new standards by upgrading the spillway.
- **Risk of No Action:** No action will place the Company in violation of State regulations. We would be compelled to upgrade the dam to new standards.
- **Non-financial Benefits:** The benefits of the project is meeting the new State regulations. As part of the project, Rizzo will complete new maps showing the potential for flooding downstream. As we are upgrading the dam, this potential should be minimized.
- **Summary of Financial Benefits (if applicable) and Costs:** The financial benefit would be the reduction in potential lawsuits from both the State and local residents as we will be in compliance with the State regulations.

- Basis for Estimate: The consultant Engineer will provide a written estimate for the construction work after the design is approved by the DEC.

**Total Funding Level (\$000):**

**Request (\$000):**

<u>Request 2014</u>	<u>Request 2015</u>	<u>Request 2016</u>	<u>Request 2017</u>	<u>Request 2018</u>	<u>Request 2019</u>
		175		50.0	1725.0

**<sup>a</sup>Request by Elements of Expense:**

<u>EOE</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Labor						
M&S						
A/P			160		50.0	1,500.0
Other						
Overheads			15			225.0
<b>Total</b>						