



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 26, 2020

ITEM NO: 6

SUBJECT: CONDITION ASSESSMENT AND SEISMIC EVALUATION OF EMTMAN, UNIVERSITY HEIGHTS AND ROSS WATER STORAGE RESERVOIRS – WORK ORDER NO. 2102178 FOR EMTMAN RESERVOIR IN THE AMOUNT OF \$75,000, WORK ORDER NO. 2102181 FOR UNIVERSITY HEIGHTS RESERVOIR IN THE AMOUNT OF \$75,000, AND WORK ORDER NO. 2102182 FOR COOK RESERVOIR IN THE AMOUNT OF \$75,000 – TOTAL PROJECT COST OF \$225,000

ISSUES:

Consider the approval of the capital expenditure for Work Order No. 2102178 for the Condition Assessment and Seismic Evaluation of the Emtman Reservoir in the amount of \$75,000, Work Order No. 2102181 for the Condition Assessment and Seismic Evaluation of the University Heights Reservoir in the amount of \$75,000 and Work Order No. 2102182 for the Condition Assessment and Seismic Evaluation of the Ross Reservoir in the amount of \$75,000 for a total project cost of \$225,000.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Approve the capital expenditure for Work Order No. 2102178 in the amount of \$75,000 which includes all costs for the Condition Assessment and Seismic Evaluation of the Emtman Reservoir;
2. Approve the capital expenditure for Work Order No. 2102181 in the amount of \$75,000 which includes all costs for the Condition Assessment and Seismic Evaluation of the University Heights Reservoir;
3. Approve the capital expenditure for Work Order No. 2102182 in the amount of \$75,000 which includes all costs for the Condition Assessment and Seismic Evaluation of the Ross Reservoir; and
4. Authorize the City Manager, or designee, to execute supplemental agreements and any other documents necessary to effectuate the project described herein, as well as, the ability to make minor non-substantive changes including changes to each of the work order amounts but not-to-exceed the cumulative total of \$225,000 and in accordance with all purchasing policies.

BACKGROUND:

Riverside Public Utilities (RPU) owns and operates 16 water reservoirs with a combined storage capacity of 108.5 million gallons. The reservoirs are of varying sizes, ages and construction types. The reservoirs are assessed periodically to determine the condition, ensure they meet current standards and to identify any improvements needed. In Fiscal Year 2019/20, staff completed an assessment of the Sugarloaf and Alessandro Reservoirs. For Fiscal Year 2020/21, staff has selected the following reservoirs to undergo a condition assessment and seismic evaluation:

Reservoir Name	Capacity (Million Gallons)	Year of Construction
Emtman	5.0	1970
University Heights	5.0	1936
Ross	2.0	1977

DISCUSSION:

The proposed work includes isolating and draining each reservoir, performing an inspection of the interior and exterior of each reservoir, conducting a seismic evaluation, pressure washing the walls and ceilings of the reservoirs and sanitizing the reservoirs before returning them to service.

Staff is in the process of hiring a consultant from RPU's Consultant Panel to perform a Condition Assessment and Seismic Evaluation for this project. Staff is also in the process of hiring a contractor to pressure wash and sanitize the reservoirs before returning them to service. A budgetary amount for these services has been provided in this authorization.

This work is scheduled to occur during the winter season when water demands are low, and each reservoir will be drained in sequence in order to minimize disruption to the water system. The work will not affect service to RPU water customers.

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown		W.O. No. 2102178 (Emtman)	W.O. No. 2102181 (University Heights)	W.O. No. 2102182 (Ross)	Total Project
Work Type:	Performed By:	Amount:	Amount:	Amount:	Amount:
Project Management, Field Support and Engineering Support	Internal Staff	\$25,000.00	\$25,000.00	\$25,000.00	\$75,000.00
Condition Assessment and Seismic Evaluation	Vendor to be Determined	\$30,000.00	\$30,000.00	\$30,000.00	\$90,000.00

	(Consultant Panel)				
Pressure Wash and Cleaning	Vendor to be Determined (Informal Procurement)	\$20,000.00	\$20,000.00	\$20,000.00	\$60,000.00
Work Order Total:		\$75,000.00	\$75,000.00	\$75,000.00	\$225,000.00
Reimbursements:	None				
Anticipated Start Date:	December 2020				
Anticipated Duration:	3 Months				

Should there be a need to seek additional services using the formal procurement process, such items in excess of \$50,000 will be brought before the Board for consideration and action.

FISCAL IMPACT:

The total cost to complete the assessment of the three reservoirs is estimated at \$75,000 each, for a total cost of \$225,000. Sufficient funds are available in the Public Utilities' Facility Rehabilitation Account No. 6230000-470803.

Prepared by:	Todd L. Jorgenson, Utilities Assistant General Manager/Water
Approved by:	Todd M. Corbin, Utilities General Manager
Approved by:	Al Zelinka, FAICP, City Manager
Approved as to form:	Gary G. Geuss, City Attorney

Certifies availability of funds:	Edward Enriquez, Chief Financial Officer/City Treasurer
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Attachments:

1. Project Site Map
2. Presentation