

**Metropolitan Domestic Water Improvement District
Board of Directors Meeting**

July 8, 2019

**Approval and Award for Risk and Resilience Assessments including
Emergency Response Plan Updates for the District's Five Service Areas**

Synopsis

The Board is being requested to approve risk and resilience assessments including emergency response plan updates for the District's five service areas and award the work to KUV Consultants, LLC.

Background

In October 2018, the America's Water Infrastructure Act (AWIA) of 2018 was signed. One of the provisions of AWIA is that all public water systems with a population of 3,301 or greater must conduct a risk and resilience assessment. The risk assessment evaluates the vulnerabilities, threats, and consequences from potential hazards. Potential hazards and vulnerabilities can include natural, physical, cyber, and system failures.

Issues

The risk and resilience assessments need to be completed and a certification be sent to the United States Environmental Protection Agency (EPA) by a deadline based on the utilities population. Populations greater than 100,000 need to be complete by March 31, 2020, populations from 50,000 to 99,000 need to be complete by December 31, 2020, and populations between 3,301 and 49,999 need to be complete by June 30, 2021. In addition to these deadlines, the utilities must also update and certify their Emergency Response Plans within 6-months of completing the risk and resilience assessments.

The District's systems fall into the last category and the assessment is required to be completed by June 30, 2021 followed by the emergency response plan by December 31, 2021. Only Metro Main, Hub, and the Diablo Village service areas fall into this category. The Lazy B and E&T systems are below the 3,301; however, staff believes it to be prudent to do the assessment on these also.

AWIA does not call out any specific tools or methodology in performing the risk assessments as long as it addresses the requirements of the act. The requirements include risks from malevolent acts and natural hazards, resilience of physical and electronic assets, monitoring practices, financial infrastructure, chemical handling, and operation and maintenance. EPA is scheduled to establish a "Baseline on Malevolent Acts Relevant to Community Water Systems" by August of

2019 that will be used as a reference. The process for performing the District's risk assessment will be based on AWWA's J100 Standard, Risk and Resilience Management for Water and Wastewater Systems.

Staff is recommending that the District use a consultant certified in the J100 standard and experience with risk and resilience management in the water and wastewater sector. KUV Consultants assisted the District in 2004 with training for the vulnerability assessment that was completed in May of 2004. KUV Consultants has worked with many water providers in the state performing vulnerability assessments, security evaluations, and emergency preparedness. KUV Consultants currently has a cooperative purchasing contract with the City of Scottsdale for Water & Wastewater Vulnerability Assessment and Related Services. Staff is recommending that the District utilize this contract to complete the AWIA risk and resilience assessment.

The risk and resilience assessment was approved in the Fiscal Year 2020 budget in the amount of \$57,000 for all service areas. Based on the Scottsdale contract, KUV has provided a proposal to perform the risk and resilience assessment and emergency response plans for all the District's systems in the amount of \$53,110. All work will be completed before June 30, 2020.

Staff Recommendation

It is recommended by staff that the Board approve the risk and resilience assessment and emergency response plan updates and award the work to KUV Consultants in the amount not to exceed \$53,110. It is also recommended that the Board authorize the General Manager to approve up to an additional \$3,000 for any additional work needed.

Suggested Motion

I move to approve the risk and resilience assessment and emergency response plan updates and award the work to KUV Consultants in the amount not to exceed \$53,110 and to authorize the General Manager to approve up to an additional \$3,000 for any additional work needed.

Respectfully submitted,

Steven D. Shepard
Utility Superintendent

I concur with the above-noted recommendation.
Respectfully submitted,

Joseph Olsen, P.E.
General Manager