## Loma Alta Landslide and North Marin Line Valve Isolation Project Update

January 12, 2024
Operations Committee

## Loma Alta Landslide

- January 2023 rainfall events led to the Loma Alta Landslide at Old Railroad Grade in Unincorporated Fairfax, CA
- The Landslide occurred within an area owned by Marin County Open Space District
- Threatens the District's North Marin Line


Transmission System


NML
FROM SGTP

## North Marin Line Valve Project Location

- Old Railroad Grade, east of the Loma Alta Landslide
- Between the San Geronimo Treatment Plant and Smith Saddle Tanks at the junction of the North Marin Line and Fairfax Transmission Line



## North Marin Line Valve Project Scope

- Installed a 24-inch 3-valve cluster at NML and FTL junction - enhancing our operational resiliency, allowing us to efficiently manage water flow during unexpected events, such as the Loma Alta Landslide



## North Marin Line Valve Project Budget and Schedule

## - Schedule:

- October 9 and 10: On-call Contractor prepared the site
- October 10: Staff dewatered the system and Contractor successfully installed the 3 -valve cluster in a continuous operation to quickly restore water service
- Project Budget to Actuals Costs:
$\begin{array}{ll}\text { - Budget: } & \$ 200,000 \\ \text { - Actual: } & \$ 114,000\end{array}$


3-valve cluster assembly

## Next Steps

- Staff continue to monitor the slide for movement and impacts to the NML while the County pursues steps to repair the landslide
- Staff continue to perform ongoing leak surveys near the landslide to ensure that the NML does not become compromised by further earth movement
- Staff are prepared to install a temporary bypass around the landslide in the event that the NML becomes compromised

