



Russian River Watershed Resilience Pilot

North Marin Water District – Adaptation Strategies

- Water Management Infrastructure

Increase Stafford Lake Storage via the Stafford Dam Adjustable Spillway Gate Project which provides additional 726 AFY* of storage (*storage volume could increase if runoff captured more than once, especially with late/end of season storms and use of mini-FIRO).

Replace and upgrade North Marin Aqueduct (NMA) segment 4a (to 36 or 42-inch diameter) consistent with remaining NMA segments that were upgraded in 2014.

- Reservoir and River System Operations

Increase Stafford Lake Storage via the Stafford Dam Adjustable Spillway Gate Project and update Stafford Treatment Plant operations.

- Operations, Maintenance, Repair, Rehabilitation (O&MRR)

Ramp up O&MRR and Capital Improvement Program (CIP) spending over the next 20 years in line with 2025 Novato Water System Master Plan with focus on critical backbone infrastructure: pipelines, pump stations and storage tanks.

- Watershed and Floodplain Management

Divert captured stormwater in the lower watershed (just below Stafford Dam, Bowman Canyon Creek) and store in Stafford Lake, especially in dry years resulting in an additional supply (~93 to 629 AFY).

Expand the Marin County ALERT weather gage network (Marin One Rain) in the upper Novato Creek watershed (above Stafford Dam), including stream and rainfall gages.

- Science and Technology

Incorporate proven technology in the District's Stafford Dam Safety program such as real-time data automation of existing instrumentation (piezometers, toe drains, seismographs, security).

Expand the District's existing Advanced Metering Infrastructure (AMI) by installation of distribution meters at strategic locations to assist with water loss/leak detection.

- Policy and Regulations

Regularly review District Regulations related to water conservation to stay ahead of or at a minimum in line with state requirements.