



Sonoma Water

ENGINEERING AND RESOURCE PLANNING

MEMORANDUM

FILE:

DATE: 02/27/2019

TO: Technical Advisory Committee

FROM: Don Seymour
Water Resource Planning

SUBJECT: Regional Water Supply Resiliency Study

Sonoma Water provides wholesale water supply to cities and water districts in Sonoma and Marin counties. This service area includes the cities of Santa Rosa, Rohnert Park, Cotati, Sonoma and Petaluma; Town of Windsor; and the Valley of the Moon, North Marin and Marin Municipal water Districts (Retail Customers). Collectively, these cities and districts serve a population of approximately 600,000 people. Along with purchasing wholesale water from Sonoma Water, each of the Retail Customers also has local water supplies that are used to meet the demands of their customers.

Although the water systems of Sonoma Water and its Retail Customers are inter-connected, they are not operated or managed in a coordinated manner, especially in times of water shortage. The region would significantly benefit by leveraging the collective water resources and infrastructure of Sonoma Water and its Retail Customers to improve water supply reliability and resiliency through integrated water resources planning and management.

In an ongoing effort to improve the region's water supply resiliency and reliability, Sonoma Water has executed an agreement with Jacobs Engineering Group, Inc. (Jacobs) to prepare a regional water supply reliability study. The primary goal of the study is to develop an integrated water supply planning process that takes into account the sources of water supply for Sonoma Water and its Retail Customers, and their specific vulnerabilities (hydro-climatic, seismic, regulatory and/or infrastructure related). Regional operational and capital improvement planning can be better integrated with each agency still doing their own planning and development of alternative supplies, coupled with participation in regional decision-making and capital investments. This is particularly important because many Retail Customers draw water supply directly from turnouts to Sonoma

Water's transmission system. This project will enhance coordination and partnerships between Sonoma Water and its Retail Customers for improved regional integrated water supply planning. Under the agreement, Jacobs will prepare a scoping document/workplan that includes: (1) development of planning objectives; (2) identification of performance metrics and data needs; (3) evaluation and recommendations of a collaborative modeling platform for the decision support tool; (4) identification of preliminary water shortage scenarios to model; and (5) preparation of an implementation plan. It is anticipated that this first phase of work will be completed in the fall of 2019 at a not to exceed cost of \$163,728 from FY 2018/2019 appropriations from the Water Transmission fund. The second phase of the study will involve assisting in the implementation of the plan, pending funding and direction from Sonoma Water.