

Executive Summary

Introduction

The South Fork Water Board (SFWB) was formed in 1915 with the purpose of providing high-quality and safe potable drinking water to the growing populations of the City of Oregon City (Oregon City) and the City of West Linn (West Linn). The first SFWB supply project was construction of a gravity pipeline from the South Fork of the Clackamas River. Today, SFWB serves water to more than 65,000 people and owns and operates regional supply facilities including an intake on the Clackamas River, a raw water supply line, a surface water treatment plant (WTP), finished water transmission lines, a finished water pump station, and finished water storage facilities.

The primary objective of this master plan update is to evaluate the water supply system and update a 20-year capital improvement plan (CIP). A water system master plan, in accordance with Oregon Administrative Rule 333-061-0060, at a minimum provides a 20-year planning horizon for a water purveyor. The plan includes an analysis of the existing facilities with respect to the current and projected water demand on the municipality, the current and anticipated rules and regulations governing potable water supplies, and the age and physical condition of the conveyance and treatment facilities.

This report constitutes an update to SFWB's most recent master planning effort, the 2004 Water Master Plan (2004 WMP). The previous plan provided a CIP for SFWB to follow as the demand for water from the growing populations of Oregon City and West Linn entailed improvements to SFWB's conveyance and treatment facilities. MWH and CH2M updated the Water Master Plan in 2010. Again, SFWB selected MWH and CH2M to update the master plan in 2016 with a special emphasis on providing priority upgrades related to capacity and seismic deficiencies.

Report Organization

This report is organized into the following sections:

- Section 1—Population and Water Demand Projections
- Section 2—Evaluation of Water Treatment Plant
- Section 3—Evaluation of Existing Water Supply and Transmission Facilities
- Section 4—Evaluation of System Reliability
- Section 5 – Evaluation of an Alternate Water Supply
- Section 6—Seismic Resiliency Recommendations
- Section 7—Capital Improvement Plan