Appendix M

East Stanislaus Region Integrated Regional Water Management Plan

Infrastructure Life Spans
for Use in Benefit-Cost Analyses

Item	Life Expectancy	Source
Water Treatment Plants	20 to 50 years	USEPA, Sustainable Infrastructure for Water and Wastewater, http://www.epa.gov/waterinfrastructure/basicinformation.html#five
Pipes	15 to >100 years	USEPA, Sustainable Infrastructure for Water and Wastewater, http://www.epa.gov/waterinfrastructure/basicinformation.html#five
Reservoirs and Dams	50 to 80 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Treatment Plants - Concrete Structures	60 to 70 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Treatment Plants - Mechanical and Electrical	15 - 25 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Trunk Mains	65 to 95 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Pumping Stations - Concrete Strctures	60 to 70 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Pumping Stations - Mechanical and Electrical	25 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Distribution	60 to 95 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Interceptors	90 to 100 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Force Mains	25 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Collections	80 to 100 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Groundwater wells	30 to 50 years	Experience; Roscoe Moss *Case Study Increased Well Efficiency, Extended Lifetime and Reduced Maintenance through Selection of Stainless Stell Casing and Well Screen*
Pumps in new wells	10 years	Roscoe Moss *Case Study Increased Well Efficiency, Extended Lifetime and Reduced Maintenance through Selection of Stainless Stell Casing and Well Screen*
Study	5 years	
invasive species removal	3 to 5 years	
site restoration	50 to 100 years	