



NORTH BAY WATER REUSE PROGRAM
Water Supply Reliability through Regional Reuse

NBWRA Update

Napa Sanitation District
Board of Directors
March 2, 2016

Purpose

The purpose of NBWRA is to ~~provide~~ support recycled and other related water management opportunities to benefit ~~for~~ agricultural, urban, and environmental uses thereby reducing reliance on local and imported surface water and groundwater supplies. ~~and reducing the amount of treated effluent released to San Pablo Bay and its tributaries.~~



Objectives

NBWRA projects will promote the expanded beneficial use of recycled water and other related water management opportunities in the North Bay Region to:

- a) Offset urban and agricultural demands on surface water and groundwater supplies
- b) Enhance local and regional ecosystems
- c) Improve local and regional water supply reliability
- d) Maintain and protect public health and safety
- e) Promote sustainable practices
- ~~f) Give top priority to local needs for recycled water~~ Maximize the development of recycled water projects to the extent practicable, and
- g) Implement the Program ~~recycled water facilities~~ in an economically viable manner



Approved Phase 2 Program

Agency	Project Type	Project Title	Total Project Capital Costs (\$mil)	Title XVI Project Level EIR/EIS		Non- Title XVI Project Level EIR/EIS	Programmatic Level
Novato SD	Treatment	Novato SD WRP Capacity - 1st Expansion (+0.85 MGD)	\$4.8	\$4.8	\$6.2		
		Novato SD WRP Capacity - 2nd Expansion (+0.85 MGD)	\$4.8			\$4.8	
	Seasonal Storage	Option 1: Site Near Highway 37 (Tertiary) 150 AF	\$5.6				\$5.6
		Option 2: Site Near Highway 37 (Secondary) 150 AF	\$8.0				\$8.0
		Option 3: Hamilton Site (Secondary) 150AF	\$14.2				\$14.2
	Environmental Enhancement	Marin County Lower Novato Creek Project - Distribution	\$0.9	\$0.9			
		Marin County Lower Novato Creek Project - Restoration	\$21.5				\$21.5
		Turnout to Transitional Wetlands	\$0.6	\$0.6			
SVCSD	Seasonal Storage	Option 1: Mulas Site (Tertiary) 49 AF	\$2.4		\$6.2		\$2.4
		Option 2: Robledo Site (Tertiary) 49 AF	\$2.6	\$2.6			
	Distribution	Napa Road Pipeline	\$3.6	\$3.6			
SCWA	Groundwater Management	Valley of the Moon ASR	\$3.4	\$3.4	\$7.0		
		Sonoma ASR	\$3.6	\$3.6			
		Sonoma Valley Groundwater Management and Recharge Study	TBD				TBD
Petaluma	Treatment	Increase ECWRF Capacity	\$9.0	\$9.0	\$30.6		
	Seasonal Storage	Option 1a: Site Southeast of ECWRF (Secondary) 300 AF	\$14.3				\$14.3
		Option 1b: Site Southeast of ECWRF (Secondary) 150 AF	\$7.3				\$7.3
	Distribution	Urban Recycled Water Expansion	\$11.4	\$11.4			
		Agricultural Recycled Water Expansion Phase 1	\$4.2	\$4.2			
		Agricultural Recycled Water Expansion Phase 2	\$6.0	\$6.0			
		Agricultural Recycled Water Expansion Phase 3	\$6.5				\$6.5
Napa SD	Treatment	Soscol WRF Increased Filter Capacity	\$2.2	\$2.2	\$33.2		
	Operational Storage	Additional Soscol WRF Covered Storage	\$2.9	\$2.9			
		Napa State Hospital Storage Tank	\$7.4	\$0.0			\$7.4
	Seasonal Storage	Option 1a: Raise Existing Pond Levees (Secondary) 300 AF	\$9.9			\$9.9	
		Option 1b: Raise Existing Pond Levees (Secondary) 1,100 AF	\$30.2				
		Option 3a: Jameson Ranch Site (Tertiary) 600 AF	\$17.3	\$17.3			
	Distribution	MST Northern Loop	\$6.9	\$6.9			
		MST Eastern Extension	\$3.9	\$3.9			
			\$242	\$83	\$83	\$15	\$87

Feasibility Study Costs

Agency	Projects	Percent	4-Yr Feasibility Study Costs
Novato SD	\$11.0m	11.2%	\$461,541
Petaluma	\$30.6m	31.3%	\$1,289,843
SVCSD	\$6.2m	6.3%	\$259,617
SCWA	\$7.0m	7.2%	\$296,705
Napa SD	\$43.1m	44.0%	\$1,813,198
Total	\$97.9m	100%	\$4,120,905

