

Prop 1, Round 1 Grant – Project showcase

	Project Sponsor	Project Name
1	Avila Beach CSD	Wastewater Treatment Plant Improvements Project
2	Cambria CSD	WWTP Nutrient Removal and Efficiency Improvements
3	Cayucos Sanitary District	Cayucos Sustainable Water Project
4	City of San Luis Obispo	One Water SLO MBR/UV Component
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6	County of San Luis Obispo	Oceano 13th Street Drainage Project
7	Los Osos CSD	8th Street Well Construction

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12	San Simeon CSD	Reservoir Expansion Project - Phase 1 Distribution System
13	South SLO County Sanitation District	WWTP Redundancy Project
-	County of San Luis Obispo	Grant Admin

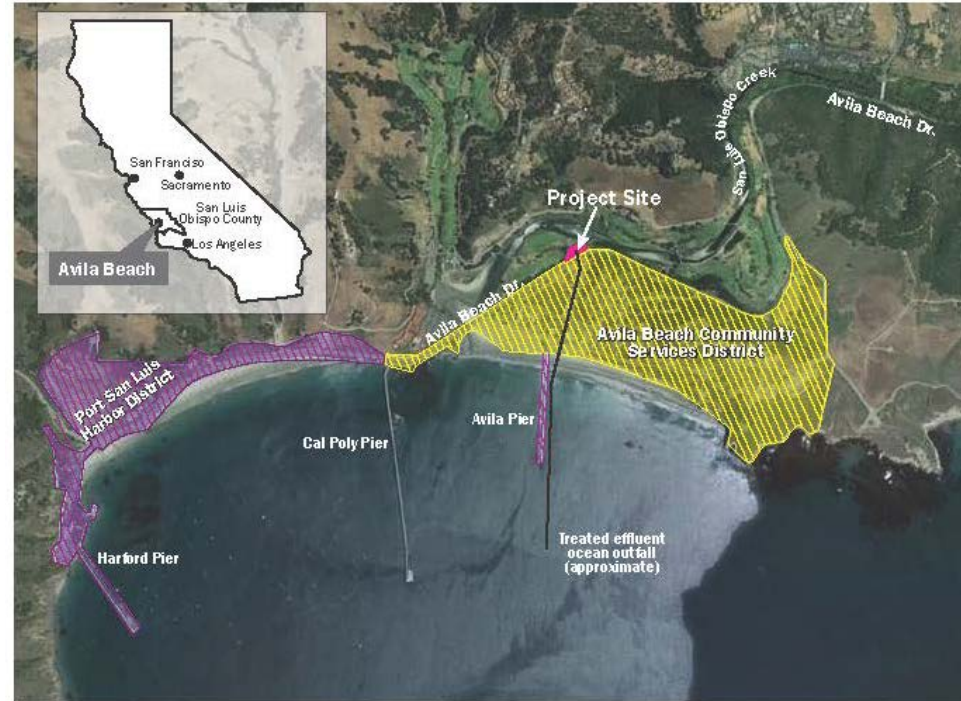


ABCSD WWTP Improvements Project

- Project Need
 - No existing treatment redundancy
 - Existing biological system cannot be taken out of service
 - Aging Facility
 - Future needs are beyond existing capacity

- Estimated Costs

Total Project Cost	Requested Grant Amount
\$2,535,200	\$1,267,600



ABCSD WWTP Improvements Project

- Components:

- Influent lift station improvements
- Side-stream MBR treatment process

- Benefits:

- Redundancy
- Improved effluent quality
- Ability to produce recycled water
- Protects water quality
- Reduces risk of spills

Statewide Priority	Project Applicability
Protect Important Ecosystem: Support of fish and wildlife	Lift station and treatment improvements increase capacity and improves treated water quality; reduces risk of spills
Protect Important Ecosystem: Improves Water Quality	Higher level of treatment (MBR) reduces contaminants in treated effluent
Prepares for Dry Periods	Side stream MBR treatment allows for production of recycled water

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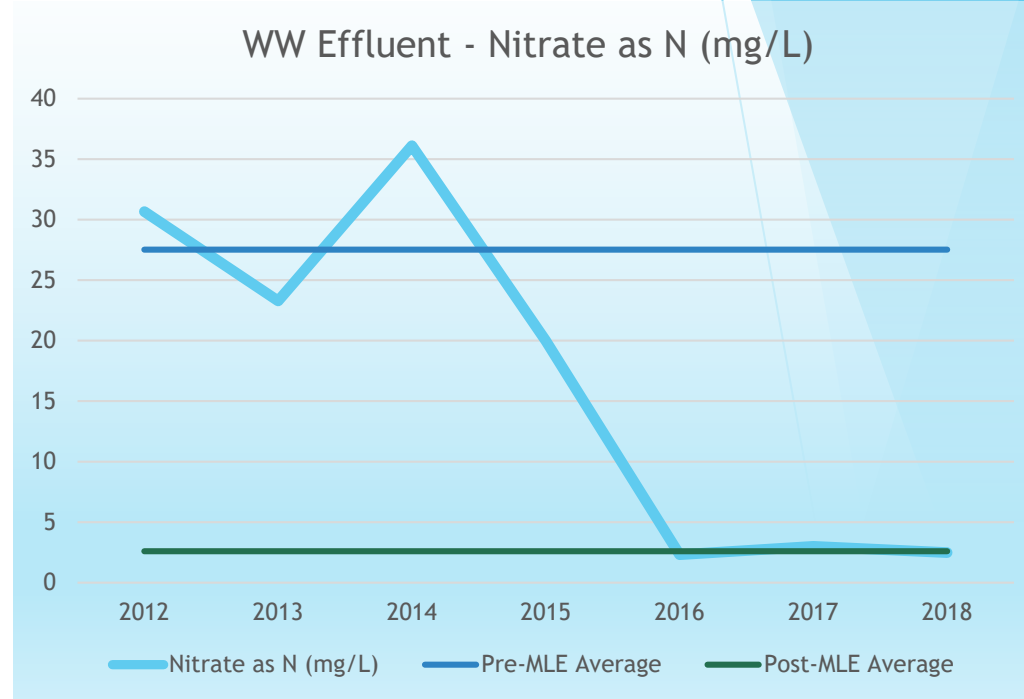
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WWTP Nutrient Removal and Efficiency Improvements

Project Component	Estimated Energy Savings (kWhr/yr)	Estimated Utility Cost Savings
Flow Equalization	(44,226)	(\$7,563)
MLE Process Upgrades	8,219	\$1,405
Blower Upgrades	780,513	\$133,468
TOTAL	744,506	\$127,310



Grant Request: \$1,745,624
CCSD Match: \$1,745,626
Total Project Cost: \$3,491,250

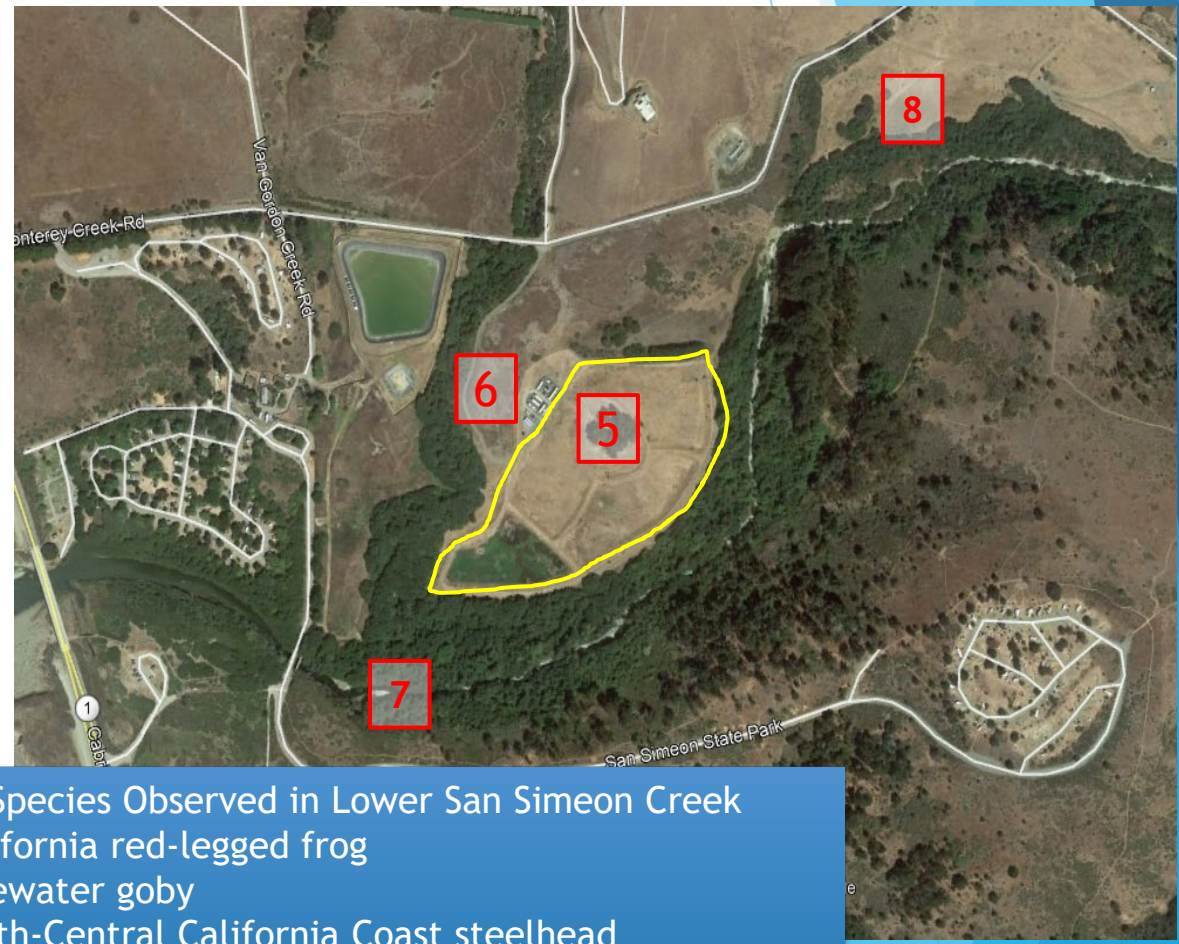
WWTP Nutrient Removal and Efficiency Improvements



- 1. Electrical Upgrades
- 2. Flow Equalization Tanks
- 3. MLE Upgrade
- 4. Blower Upgrades

- 5. Percolation Ponds
- 7. San Simeon Creek

- 6. Indirect Potable Reuse Facility
- 8. Reinjection Well



- Listed Species Observed in Lower San Simeon Creek
- California red-legged frog
 - Tidewater goby
 - South-Central California Coast steelhead

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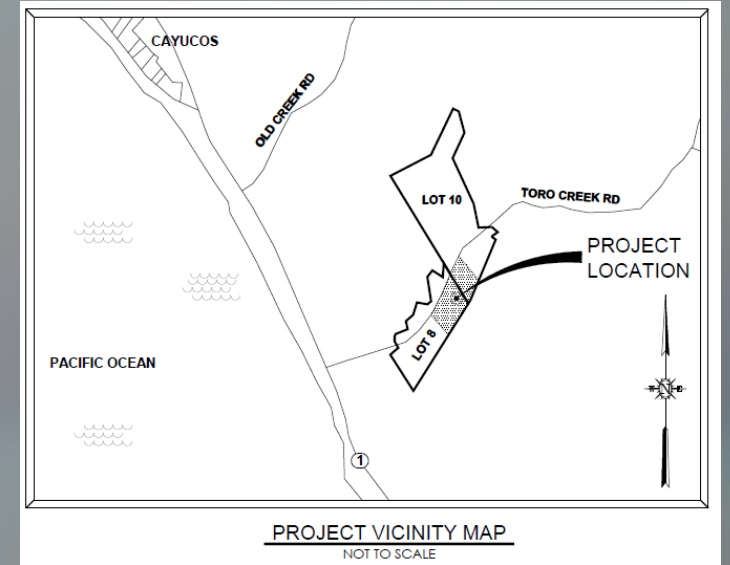
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CAYUCOS SUSTAINABLE WATER PROJECT



The goal of the Cayucos Sustainable Water Project (CSWP) is to provide the community of Cayucos with efficient, reliable and adaptable wastewater treatment, while producing a high-quality water supply that will benefit future generations. The Project unites the community of Cayucos and sets the framework for future deliveries of advanced treated water to the community. The CSWP will create a recycled water resource that can be used to augment supply for agricultural resources in a drought prone coastal aquifer. CSWP is needed to managed retreat of the current coastal infrastructure due to the 100 year flood and sea level rise considerations.



CAYUCOS SUSTAINABLE WATER PROJECT



IRWM Goals

1. Water Reuse and Recycling
2. Improvement to Water Quality
3. Storm Water & Water Supply Management
4. Climate Change Adaption – Sea Level Rise
5. Improve Regional Water Self Reliance
6. Ecosystem Benefits
7. New & Innovative Technology & Practices
8. Multi Benefit Project

Total Project Cost
\$25,000,000

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One Water SLO

Membrane Bioreactor (MBR) + Ultraviolet Disinfection (UV)
@ the Water Resource Recovery Facility (WRRF)



Project Drivers/Needs:

NPDES Requirements • Diversifying Water Supplies • Aging Infrastructure • Treatment Capacity

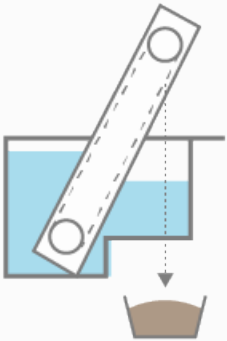


CITY OF SAN LUIS OBISPO

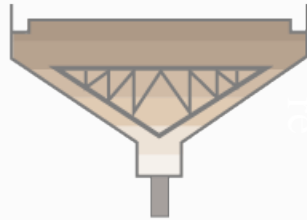
IRWM Implementation
Round 1 Grant Application

WRRF will utilize MBR and UV to achieve highest water quality

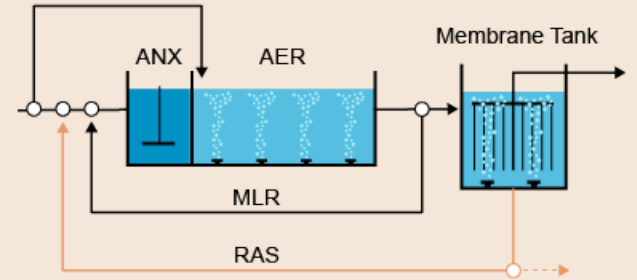
STEP 1 HEADWORKS



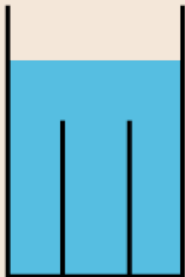
STEP 2 PRIMARY CLARIFIERS



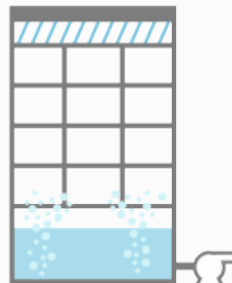
STEP 3 MBR



STEP 4 UV DISINFECTION



STEP 5 COOLING TOWERS



San Luis
Obispo
Creek

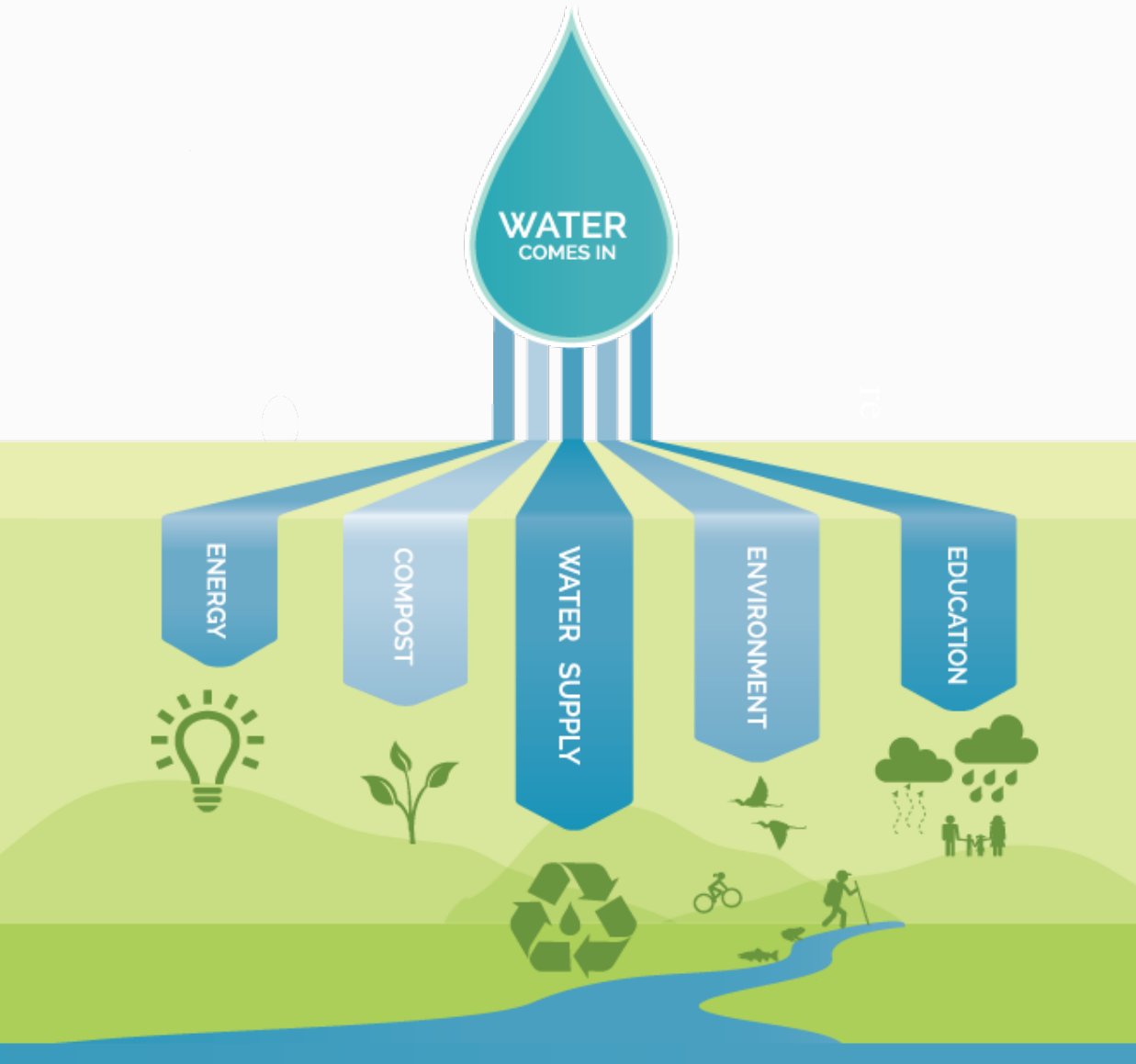


Recycled
Water
Customers

**Total Project
Cost:**
\$29,361,750

**Round 1 Grant
Request:**
\$3,166,014

New water resource offers water resiliency benefits!



- Increases water quality and reliability of supply
- Increases recycled water production
- Enhances freshwater habitat
- Protects downstream beneficial uses
- Key supporter of basin sustainability
- Opportunities for regional collaboration

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Mountain Springs Road Sedimentation Control Project

City of Paso Robles

Project Location →

Debris & sediment from 1,115-acre rural watershed flows into the city's disadvantaged community (DAC) area





- County & City partnership
- 10,000 sf sedimentation basin
- Total requested: \$1.3 million



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Oceano Drainage Project

-NEED-



- Decades long chronic flooding at intersection of Highway 1 and 13th Street
- Flooding affects commuters of Highway 1 which must then travel through residential neighbors of Oceano
- Emergency responders and local businesses are also affected



COUNTY
OF SAN LUIS
OBISPO

COUNTY OF SAN LUIS OBISPO

www.slocounty.ca.gov

Oceano Drainage Project

-Details-

- Project would construct two retention infiltrators and approximately 2,500 feet of storm drain pipe to convey drainage to new concrete detention basin near Arroyo Grande Creek
- Project is shovel ready and is anticipated to be in construction between June 2019 – March 2020

-Requested Grant Amount-

- \$1M is the requested grant amount
- \$4.44M matching from Non-State Fund sources
- \$1M matching from State Fund sources



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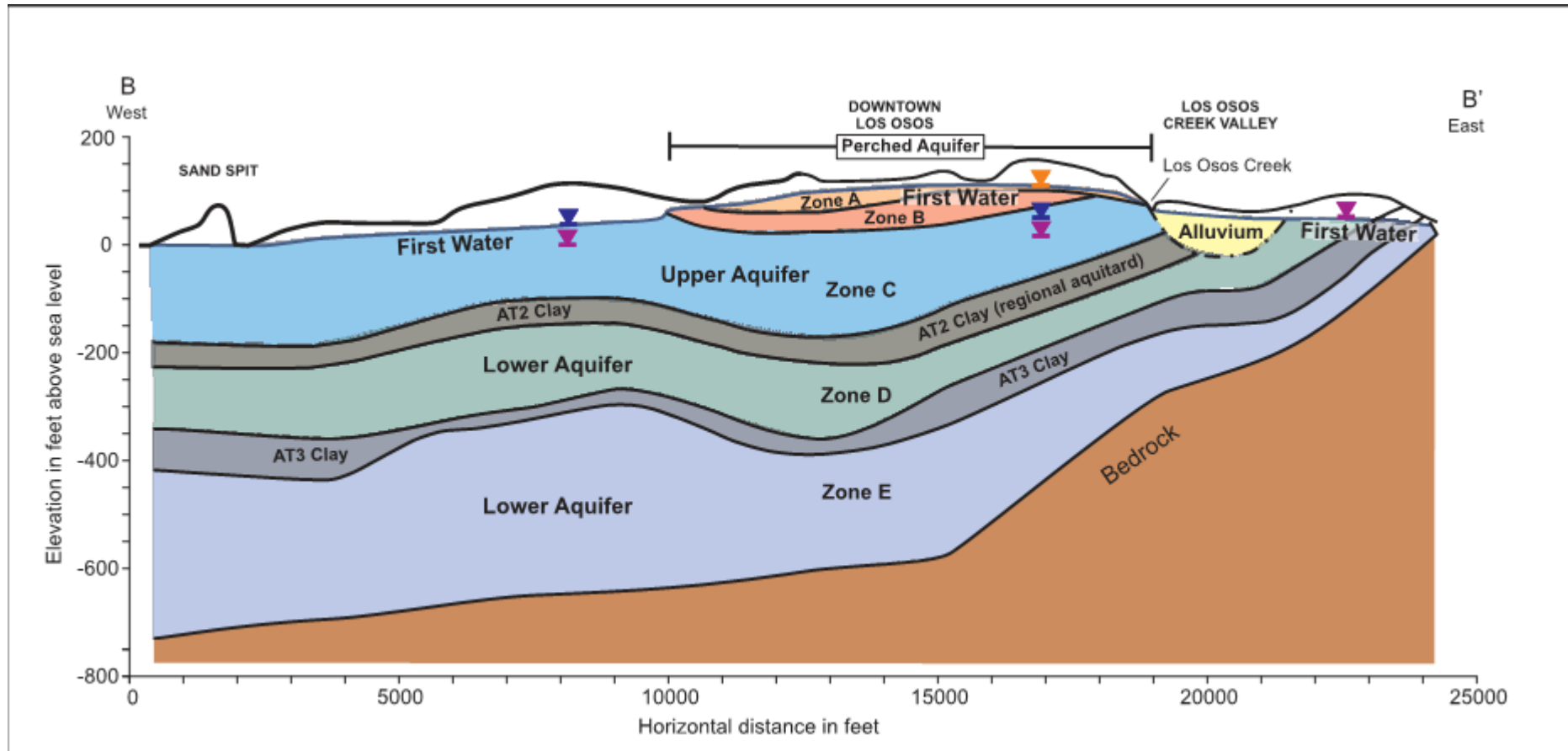




Los Osos Community Services District 8th Street Well Project/Program A

WATER QUALITY PROBLEMS

1. Water quality degradation of the upper aquifer (nitrates)
2. Seawater intrusion into the Lower aquifer





Los Osos Community Services District
8th Street Well Project/Program A

GOALS

1. Halt seawater intrusion into the Basin
2. Provide a sustainable supply for current population

MANAGE OUR BASIN

1. Conservation

Water Usage savings (dropped from 3,500 AFY to 2,000 AFY)

2. Programs A and B

Transfer groundwater production from the lower Aquifer to the Upper aquifer

3. Programs C and D

Shift production within the Lower Aquifer from the Western Area to the Central/eastern areas

8th Street Well Project shifts production from its current draw from the Lower Aquifer to the Upper Aquifer.

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Los Padres CCC Center Stormwater Treatment Project



Camp San Luis Obispo



PROJECT DETAILS

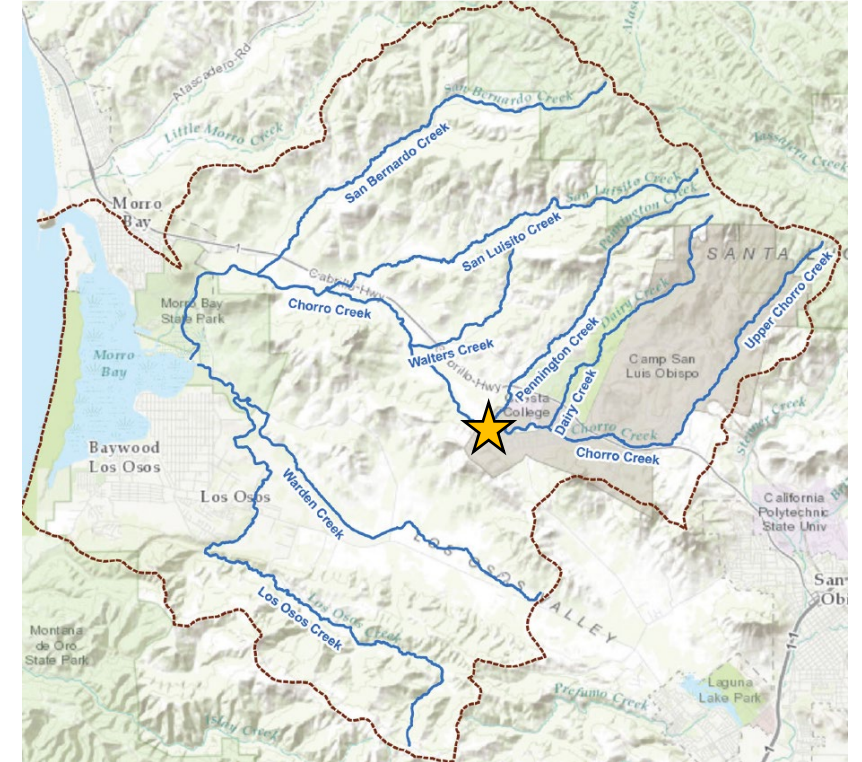
- Bioswales
- Rainwater capture
- Porous pavement
- Native plantings
- Greywater reuse

REQUESTED GRANT FUNDING

- \$1,180,000.99

NEED/BENEFITS

- Improves soil infiltration to reduce flooding
- Recharges groundwater and summer base flows in creeks
- Improves water quality
- Reduces heat sinks on landscape
- Reduces erosion/turbidity by reducing volume and speed of runoff
- Improves aesthetics



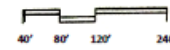
CCC Stormwater LID Typology Overview

185,900 gallons Rainwater
(non-potable indoor use, outdoor irrigation)
Heavy Metal and Sediment Filtration
Effective Capture
140,016 cf Stormwater Capture annually
6.90 acres of Habitat Restoration
7 Living/Working Units cooled by Solar Shading
0.7 acre Food Production and Learning Laboratory
6 New Outdoor Living Zones
9280 Native Plants for Restoration
Mechanical water capture
167,000 gallons Annual Greywater Reuse
High Educational Demonstration Area

Size: 20 acres
Stormwater Infiltration & Reuse:
164,867 CF

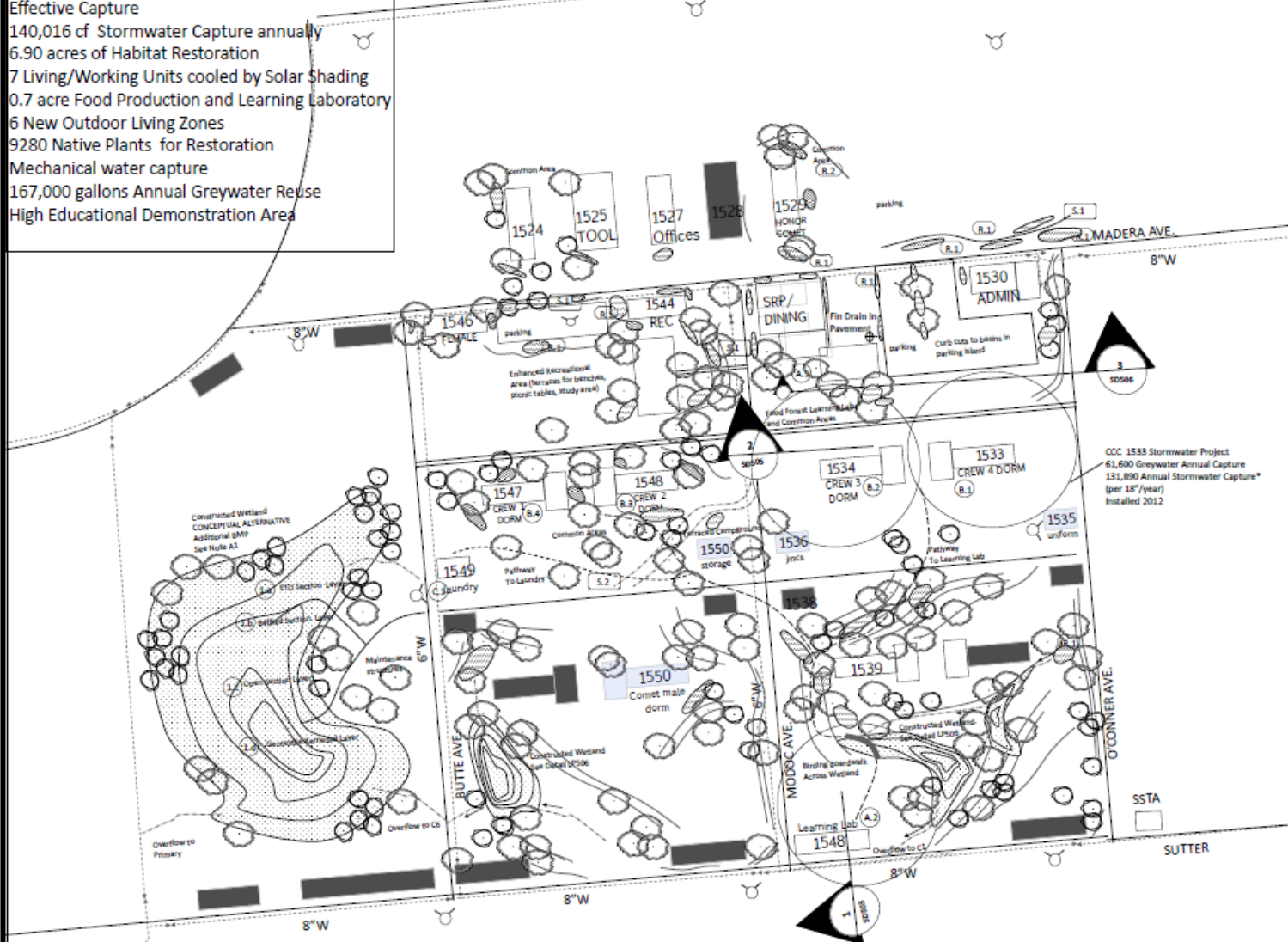
CCC Stormwater LID Typology Added Benefits

Climate Regulation. Shading south/west side of buildings with deciduous trees help cool buildings in summer, let in heat in winter.
Directing rainwater will increase water/nutrient supply to hardship existing trees to promote needed shade.
Climate Regulation conditions extremely optimum, utilities bills to decrease.
Ambient Climate Regulation. Shade within tree drip line cools ambient temperatures.
Grows of trees can help regulate localized heat sinks, especially near asphalt and open areas, as well as add humidity to air.
Public Demonstration key point
Reduction in flooding
Infiltration rain garden to promote drought tolerance and disease resistance in plants
Using rainwater abundant in minerals under these conditions will require less fertilization for producing garden areas, such as kitchen garden and Native Greenhouse Project
Infiltration rain garden to promote groundwater recharge for adjacent creek flow
Climate Change Buffering. Garden areas will provide creek pollutant buffering. Carbon will be sequestered by surface plantings as well as creating healthier soils ecosystems which capture carbon at a more rapid rate.
Ethetics, beautification, and promotion of CCC member morale as well as creating incentives toward hands on land stewardship.



LEGEND

- Infiltration Unit R1
- Infiltration Unit R2 (reclaimed water)
- Native, Upland Species, Keylist A, 12'-60'
- Native, Upland Species, Keylist B, 8'-18'
- GATE VALVE
- Constructed Wetland
- Bioswale, On-contour Type S1
- DIRECTIONAL SWALES Type S2
- Fire Hydrant
- Sub Sampling Station
- Rainwater Tank Collection
Indoor Non-potable use, Irrigation
- Rainwater Tank Collection



CALIFORNIA CONSERVATION CORP
CONCEPTUAL

PLAN CHECK
Date: _____
Approved: _____
Date: _____
Approved: _____
Comments: _____

Stormwater Master Conceptual Plan LID Typology California Conservation Corps Los Padres Center San Luis Obispo, CA

SCALE 1"=25'
Prepared by: SIERRA WATERSHED PROGRESSIVE
18653 main street
Groveland, ca 95321
209732.1800

PL101

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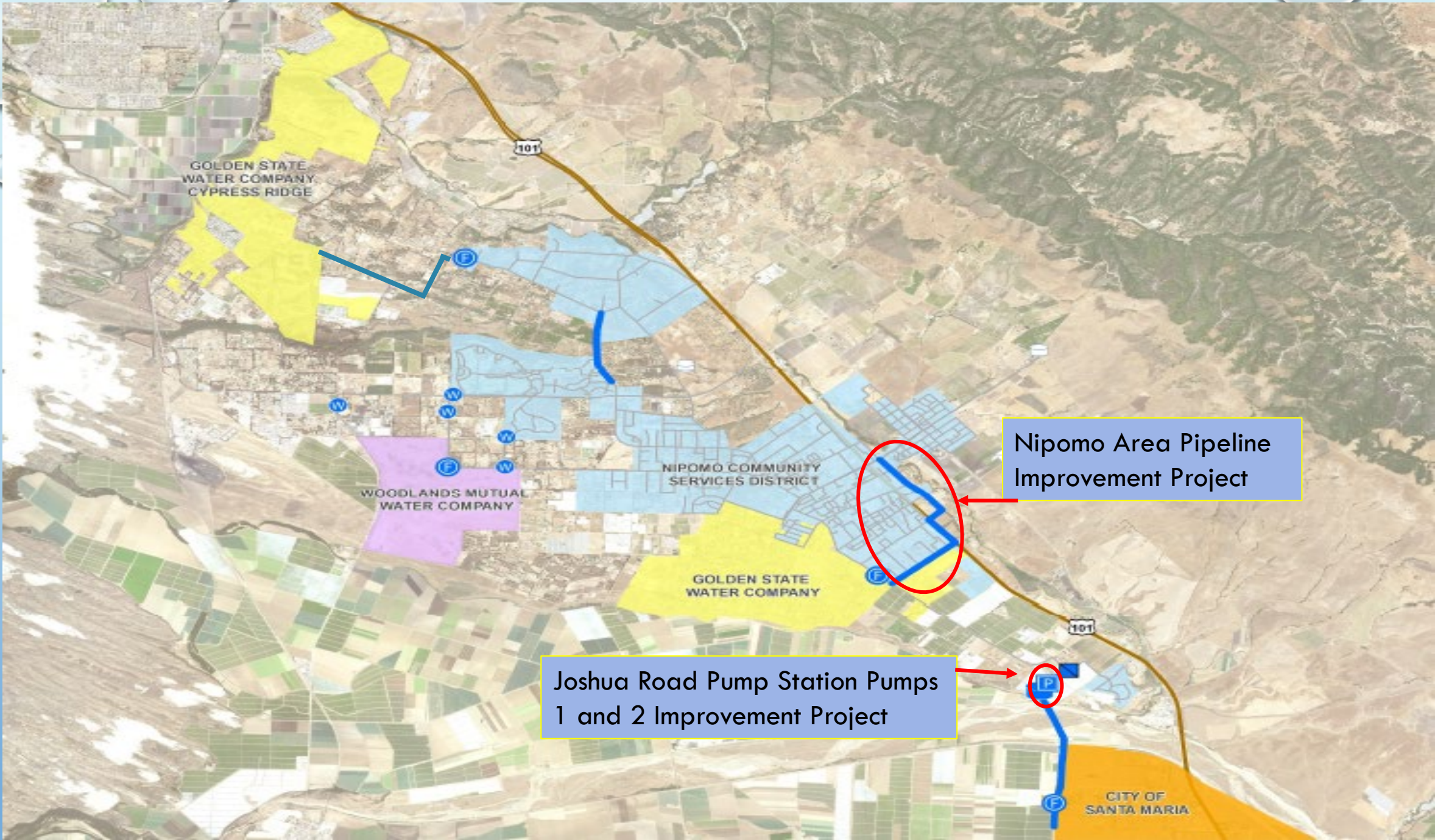


The **Nipomo Area Pipeline Improvement Project** and **Joshua Road Pump Station Pumps 1 and 2 Improvement Project (“Project”)** are the final elements of the Nipomo Supplemental Water Project (“NSWP”). The NSWP will convey and distribute up to 3,000 AF/Yr of water imported from the City of Santa Maria to the water purveyors on the Mesa.

In its final form, the NSWP is a regional water conveyance facility that integrates five separate water systems, Nipomo CSD, Woodlands Mutual Water Company, City of Santa Maria, Golden State Water Company Nipomo and Golden State Water Company Cypress Ridge.

Project addresses IRWM critical water resource needs: Water Supply, Groundwater, and Water Resource Management.

- Maximizes accessibility of water in the region by constructing a water conveyance system that imports water to the benefit of multiple agencies
- Integrates water distribution systems
- Will secure the Nipomo CSD’s current and future water demands
- Aids in the adequacy of water supply to surrounding water agencies by creating a regional water solution.
- Provides for a sustainable and dependable supply of potable water for rural areas limited
- Supports local groundwater management by making available import water to off-set groundwater pumping
- Addresses local basin management objectives by importing water from inland areas to coastal
- Supports a combined effort between multiple agencies to collaborate to manage water resources between urban, rural, and agricultural stakeholders.



GOLDEN STATE
WATER COMPANY
CYPRESS RIDGE

101

WOODLANDS MUTUAL
WATER COMPANY

NIPOMO COMMUNITY
SERVICES DISTRICT

GOLDEN STATE
WATER COMPANY

101

CITY OF
SANTA MARIA

Nipomo Area Pipeline
Improvement Project

Joshua Road Pump Station Pumps
1 and 2 Improvement Project

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OCEANO CA

WATER RESOURCE RELIABILITY PROJECTS

- THE OCEANO WATER RESOURCE RELIABILITY PROGRAM INCLUDES THREE COMPONENTS:
 - GROUNDWATER RECHARGE OF RECLAIMED WATER WITH CENTRAL COAST BLUE
 - STORMWATER RECHARGE – EFFORTS CONTINUE THROUGH STATE WATER BOARD TA PROGRAM
 - LEAK MANAGEMENT PROGRAM
- GRANT REQUEST IS FOR ONE OR TWO HIGH PRIORITY LEAK MANAGEMENT PROJECTS
 - REDUCE SYSTEM LEAKS AND WATER LOSSES
 - IMPROVE WATER USE EFFICIENCY – REPLACING NON STANDARD OBSOLETE/AGED WATERLINES
 - EXISTING 2” GALVANIZED LINES TO BE REPLACED BY 6-8” PVC
 - OTHER BENEFITS INCLUDE PRESSURE AND FLOW IMPROVEMENTS
- REQUEST IS CONSISTENT WITH ONGOING SUPPORT PROVIDED BY STATE WATER BOARD AND DWR GRANT AND TECHNICAL ASSISTANCE PROGRAMS





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CAPITAL IMPROVEMENT PROJECTS LIST

Project	Description	Priority	Existing (ft)	Proposed (ft)	Length (ft)
1-1	Cabrillo Hwy and Front St	1	-	8	400
1-3	Narrowing Dr Loop (North of Pier)	1	4	8	1750
1-4	Pier Ave (Lakeside to Hwy 1)	1	6	10	1140
1-5	Railroad St Alley (Truman to Air Park)	1	4.6	10	1000
1-6	Narrowing Dr, Truman, & Piering	1	1.24	8	1150
1-7	Strand Way (South of Utah)	1	4	8	235
1-8	Laguna Dr Alley (South of Utah)	1	4	8	330
1-9	Security Ct at Sunset Ln	1	-	8	280
1-10	Tank Inspections	1	-	-	-
1-11	Tank Re-Insulating and Re-coating	1	-	-	-
2-1	Jetty Ave Alley (Police to Fountain)	2	-	8	650
2-2	Creek Road (Sand Dollar to Railroad)	2	-	8	480
2-3	Railroad Street (Creek to 17th)	2	-	8	650
2-4	18th St at Wilmar Ave.	2	2	8	380
2-5	18th St at Wilmar St.	2	2.46	8	940

Project Number	Description	Priority	Existing (ft)	Proposed (ft)	Length (ft)
2-6	La Vista Ct at The Pike	2	4	8	435
2-7	Lancaster Dr at The Pike	2	4	8	1150
3-1	South 4th St Upgrade	3	2	8	200
3-2	Vista St (19th to 21st)	3	2	8	480
3-3	Warner St (19th to 21st)	3	2	8	480
3-4	22nd Street at Paso Robles St.	3	-	8	275
3-5	La Verne Avenue (21st to 24th)	3	4	8	600
3-6	23rd Street at Wilmar Ave.	3	4	8	300
3-7	Security Ct at Sunset Ln	3	2	8	280
3-8	Laguna Dr Alley (Utah to Juanita)	3	4	8	1195
3-9	Utah Ave Alleys (Strand Way to Laguna Alley)	3	3	8	390
3-10	Rochelle Way Loop	3	-	8	200
3-11	Tombard Dr at Merrittique	3	4	8	300
3-12	21st St at River Ave.	3	-	8	200
3-13	18th St at Wilmar Ave.	3	4	8	40

LEGEND

- 2" _____
 - 3" _____
 - 4" _____
 - 6" _____
 - 8" _____
 - 10" _____
 - 12" _____
- PRIORITY 1** _____
- PRIORITY 2** _____
- PRIORITY 3** _____
- PRESSURE VESSEL** 
- WATER WELL** 
- WATER TANK** 
- WHARF HYDRANT** 



REV	NO	DATE	REVISED	REVISIONS



DATE	3/20/2018
SCALE	1" = 400'
CAD NO.	171019
PROJECT NO.	171019

DRAWN BY	ALS
CHECKED BY	MAK

OCEANO COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM
CAPITAL IMPROVEMENT
PROJECT LOCATIONS
OCEANO, CALIFORNIA

Prop 1, Round 1 Grant – Project showcase

	Project Sponsor	Project Name
1	Avila Beach CSD	Wastewater Treatment Plant Improvements Project
2	Cambria CSD	WWTP Nutrient Removal and Efficiency Improvements
3	Cayucos Sanitary District	Cayucos Sustainable Water Project
4	City of San Luis Obispo	One Water SLO MBR/UV Component
5	County of San Luis Obispo	Mountain Springs Road Sedimentation Control
6	County of San Luis Obispo	Oceano 13th Street Drainage Project
7	Los Osos CSD	8th Street Well Construction

	Project Sponsor	Project Name
8	Morro Bay National Estuary Program	CCC Center Stormwater Treatment Project
9	Nipomo CSD	Supplemental Water Project, Final Phase
10	Oceano CSD	Water Resource Reliability Projects #1-2 & #1-9
11	San Simeon CSD	Coastal Hazards Response and Mitigation Plan
12	San Simeon CSD	Reservoir Expansion Project - Phase 1 Distribution System
13	South SLO County Sanitation District	WWTP Redundancy Project
-	County of San Luis Obispo	Grant Admin





SAN SIMEON COMMUNITY SERVICES DISTRICT

Reservoir Expansion Project – Phase 1

ISSUES

1. Water quality - Surface water intrusion struggle to meet potable water turbidity and contact time State Mandated requirements during rainy season Oct to May.
2. Reliability/Sustainability – Currently the community of 552 residents and 3,000 tourists rely on a **150,000 gallon reservoir.**
3. Safety – **Insufficient Fire Flow & Storage. 1.4 million gallons needed.**

GOALS

1. Increase water storage in phases
2. Replace pipes to increase water flow.



San Simeon Community Services District
Reservoir Expansion Project – Phase 1

MANAGE OUR RESOURCE

1. Conservation

- a. Existing Water Ordinance helps reduce water usage during drought.
- b. Water Usage savings currently **31gpd per capita**

2. Reservoir Expansion

- a. Bank water during wet seasons
- b. Slow water draw from wells during drought times. Which will reduce surface water intrusion impact.
- c. Have enough water in reserves in case of a fire.

GRANT SUBMITTAL

Prop 1 Grant submittal is a 400,000 gallon tank project and a distribution replacement line (8 in to 14 in). Which is Phase 1 of 4 phases. Engineering completed by June 2019, CEQA and permitting will be completed by October 2019.

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San Simeon Community Services District

SSCSD Coastal Hazards Response and Mitigation Plan

- The Coastal Hazards Response and Mitigation Plan (CHRMP) is a conditional requirement of the Coastal Development Permit for historic rip rap installed at the SSCSD Wastewater Treatment Plant
- Project is a planning effort required by the Coastal Commission for protection of water-dependent infrastructure and mitigation of coastal hazards for the Disadvantaged Community (DAC) of San Simeon





CHAMP Overview

- Relocated WWTP: Addresses requirement to plan for relocating coastal wastewater/recycled water infrastructure inland to avoid climate change impacts. Includes study of alternative sites, new water treatment technologies, construction, cost analysis and funding opportunities.
- Mitigation Plan: Includes planning for the mitigation of climate change/sea level rise impacts, including coastal erosion, flooding and storm surge inundation to protect vulnerable water infrastructure, ecological and habitat restoration and public access improvement.

Prop 1, Round 1 Grant – Project showcase

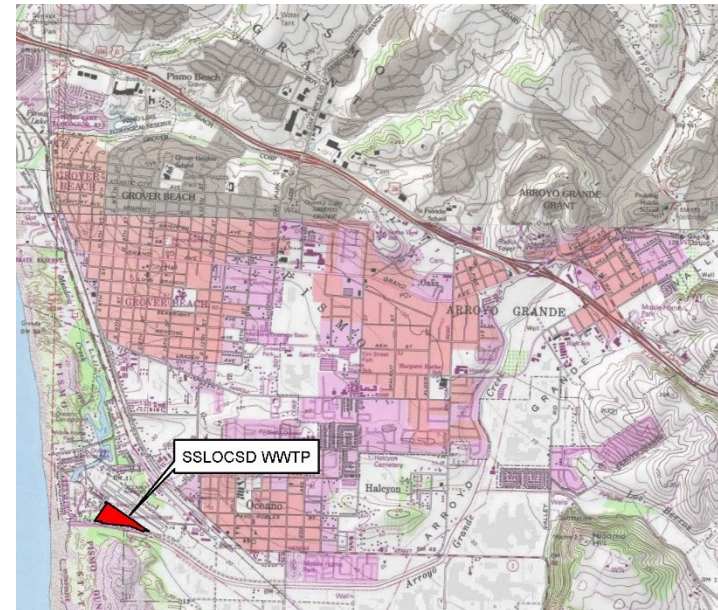
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SSLOCSD WWTP Redundancy Project

- Project Need
 - RWQCB requires redundancy for major processes
 - Existing plant in floodplain and near coast
 - Climate change will increase flood frequency per recent study



- Costs

Total Project Cost	Requested Grant Amount
\$27,900,000	\$1,000,000

SSLOCSO WWTP Redundancy Project

- Components:
 - New activated sludge basins and secondary clarifier
 - Floodproofing of critical facilities
 - “Shovel Ready” – Rate studies approved, permitting completed
- Benefits:
 - Redundancy
 - Improved effluent quality
 - Protects water quality
 - Reduces risk of spills
 - Improves flood protection

Statewide Priority	Project Applicability
Increase Flood Protection	Floodproofing of existing and new facilities is included
Protect Important Ecosystem: Support of fish and wildlife	Floodproofing will protect creeks and ocean from potential spills related to storm events
Protect Important Ecosystem: Improves Water Quality	Higher level of treatment reduces contaminants in treated effluent
Increase Operational Efficiency	New processes allow operators to take treatment units out of service for routine maintenance and to prevent emergencies

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Next RWMG Meeting

May 1st, 2019

10 am – 12 pm

SLO City Council Chambers

IRWM Stakeholder mailing list

<http://www.slocountywater.org/irwm>

