PRWFPA Board of Directors Meeting September 8, 2021



Item #1: Call to Order



Item #2: Roll Call



Item #3: Oral Communications from the Public on Items Not on the Agenda

(A maximum of three minutes on any subject not on the agenda)



Item #4: Oral Communications from the Board on Items Not on the Agenda



Item #5.A: Presentation Greater Hollister Area Draft Storm Water Resource Plan

Recommended Action: Approve













Overview

- Legislative Background
- Purpose of SWRP
- Agency Collaboration
- SWRP Boundary
- Identification & Prioritization of Projects
- Next Steps



Storm Water Grant Program

California State Water Resources Control Board



PURPOSE

 Promote beneficial use of storm water and dry weather runoff in California

FUNDING

- Prop 1 (AB 1471, Rendon) authorized
 \$7.545 billion for water projects
- Of this, \$200 million in grant funds for multi-benefit storm water management projects



Storm Water Resource Plan (SWRP)

Storm Water Resource Plan Guidelines



December 15, 2015

STATE WATER RESOURCES CONTROL BOARD
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



Appendix A: Checklist and Self-Certification Checklist Instructions: For each element listed below, review the applicable section in the Storm Water Resource Plan Guidelines and enter ALL of the following information. A Mork the box if the Storm Water Resource Plan, or a functional equivalent Plan, meets the provision. B. In the provision. 1. Title of document(s) that contain the information: 2. The chaptersection, and passe number(s) where the information is located within the document(s): 3. The entity(ses) that prepared the document(s): 4. The entity(ses) that prepared the document(s): 5. Where each document can be accessed (website address or attached). CHECKLIST AND SELF-CERTIFICATION CHECKLIST AND SELF-CERTIFICATION Mandatory Required Elements per California Water Code are Shaded YN Plan Element WATERSHED IDENTIFICATION (GUIDELINES SECTION VI.A) Plan is developed on a watershed and subvaluershed(s) for sitorm water resource | Plan is developed on a watershed basis, using boundaries as delineated by USGS, Calification, and includes a description and boundary map of each watershed and sub-watershed applicable in the passes of the comment group, and includes a description and boundary map of each watershed and sub-watershed applicable to the sub-watershed applicable in the sub-watershed applicable to the sub-watershed and sub-watershed and sub-watershed applicable to the sub-watershed and sub-watershed

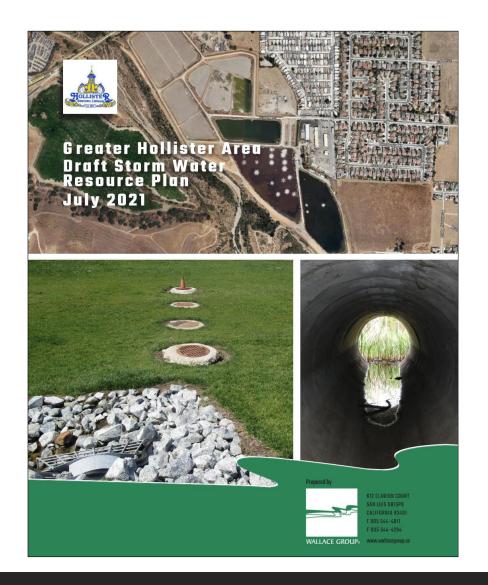
- A SWRP is required as a condition of receiving grant funds for storm water and dry weather runoff capture projects
- Division of Water Quality developed SWRP Guidelines consistent with the Water Code provisions enacted by SB 985
- Self-Certification Checklist



Prop 1 Round 2 Grant Funding

- In July 2020, the City of Hollister applied for Round 2 of Prop 1 Grant Funding
 - Industrial Wastewater Treatment Plant Upgrades for storm water diversion
 - Bridge Road Trash Capture
- Application was not selected, but favorably reviewed and placed first on the "standby" list
- Continued preparation of the SWRP





Greater Hollister Area Storm Water Resource Plan



Why is a SWRP Important?

- Watershed-based plan
- Focuses on existing landscapes to increase storm water capture and use
- Manages storm water as a resource
- Encourages multi-benefit projects
- Incorporates broader water management goals of the Integrated Regional Water Management Plan (IRWMP)



Organization of the SWRP



Introduction SWRP Objectives



Watershed Identification



Water Quality Compliance



Organization, Coordination, and Collaboration



Identification and Prioritization of Projects



Implementation Strategy and Schedule



Education, Outreach, and Public Participation



Pajaro River Watershed

- Spans four counties and four water districts
 - County of Monterey
 - County of San Benito
 - County of Santa Clara
 - County of Santa Cruz
 - Monterey County Water Resources Agency
 - San Benito County Water District
 - Santa Clara Valley Water
 - Santa Cruz County Flood Control and Water Conservation District Zone















Agency Collaboration

- City of Hollister is the submitting agency
- The Pajaro River Watershed Flood Prevention Authority was integral in establishing a regional SWRP that identifies the flood prevention and control needs of the Pajaro River Watershed





SWRP Boundary

- Based on eight subwatersheds tributary to the Pajaro River
 - San Benito River
 - Lower Pacheco Creek
 - Lower Pajaro River
 - Upper Pajaro River
 - Lower Uvas Creek
 - San Juan Canyon
 - Santa Ana Creek
 - Tequisquita Slough



Clean Water Act 303(d) Impaired Water Bodies

Pollutant/Stressor	Water Body								
Ammonia	Tequisquita Slough								
Allillollia	Pajaro River								
Daran	San Benito River								
Boron Chlordane									
	Pajaro River								
Chloride	Pajaro River								
Chlorophyll-a	Millers Canal								
Chlorpyrifos	Pajaro River								
Chromium	Pajaro River								
DDD	Pajaro River								
DDE	Pajaro River								
DDT	Pajaro River								
Diazinon	Pajaro River								
Dieldrin	Pajaro River								
	Millers Canal								
E. Coli	Pajaro River								
L. Coll	San Benito River								
	San Juan Creek								
Electrical Conductivity	San Benito River								
Fecal Coliform	Millers Canal								
	Pacheco Creek								
	Pajaro River								
	San Benito River								
	San Juan Creek								
	Tequisquita Slough								
	Millers Canal								
	Pacheco Creek								
Low Dissolved Oxygen	Pajaro River								
,,,	San Juan Creek								
	Teguisquita Slough								
Nitrate	Pajaro River								
PCBs	Pajaro River								
	Millers Canal								
	Pajaro River								
рН	San Benito River								
	Tequisquita Slough								
	Pajaro River								
Sedimentation/Siltation	San Benito River								
Sodium	Pajaro River								
Temperature	Millers Canal								
remperature	Millers Canal								
	Pajaro River								
Toxicity	San Juan Creek								
	Tequisquita Slough								
	Millers Canal								
To colo faller a	Pacheco Creek								
Turbidity	Pajaro River								
	San Juan Creek								
	Tequisquita Slough								



Project: Soap Lake Floodplain Preservation

Agency

Pajaro River Watershed Flood Prevention Authority

Benefit Categories Met

Flood Management Environmental Water Quality

Benefit Metric Value

9,100 acres of Habitat Protected

Maintains flood protection by protecting against a 35% increase (16,000 cfs) in 100-year peak flows

DAC Population= 5,003 persons

5 of the 15 points assigned for Project Location based on several of the existing conservation easements having already been acquired for the Project

Project Description

Soap Lake is a floodplain that acts like a natural detention basin, storing water and reducing peak flows that would otherwise increase flooding in the lower Pajaro River. The proposed project would not build any structural facilities, but instead would include obtaining flood easements for the land within the Soap Lake floodplain in order to maintain the current flood protection benefits by protecting the area from changes that would impact the flood protection properties of the floodplain.

The purchase of easements would restrict development and preserve agriculture and open space in the approximately 9,100 acre floodplain. This project would maintain the current hydrologic and hydraulic conditions at the project site and adjacent properties to minimize the effects of flooding on developments both within and downstream of the study area by preventing development on the property and additional flooding downstream. By maintaining the flow conditions in the Pajaro River, proposed downstream flood improvements will not have to increase in size and capacity, saving hundreds of millions of dollars and directly benefiting the Disadvantaged Communities of Watsonville and Pajaro. Flood prone land acquisition could also help create recreational opportunities, maintain agricultural land and open space, preserve riparian habitat and enhance ground water quality.

As of February 2017, approximately 4,564 acres of conservation easements (50%) have been acquired. Based on recent acquisitions in the floodplain, the estimated project costs range from \$23 million to \$70 million. The range represents the cost of acquiring floodplain easements or purchasing the property in fee title for the remaining 4,500 acres. See Figure 5-7 for a map of the existing conservation easements.

Identification of Projects

- Project Solicitation
 - City of Hollister
 - City of San Juan Bautista
 - County of San Benito
 - San Benito County Water District
 - Pajaro River Watershed Flood Prevention Authority

Project Cost Breakdown

Estimated Project Cost

\$23-\$70 million



Benefits Analysis

Quantitative Metrics

Benefit Category	Water Quality		ater pply	Flood Management	Environmental	Community
	Pollutant Load Reduction (%)	Volume Diverted to Treatment Plant (%)	Retention Capacity (Storm Event)	Peak Flow Managed (% Difference)	Habitat Created/Maintained	Serves DAC (pop.)
Score						
5	81-100	60-100	100-year	80-100	YES	over 5,000
4	61-80	40-60	50-year	60-80	-	3,001-5,000
3	41-60	20-40	25-year	40-60	-	1,001-3,000
2	21-40	10-20	10-year	20-40	-	500-1,000
1	1-20	0-10	95 th percentile	0-20	-	1-500
0	0	0	0	0	NO	0

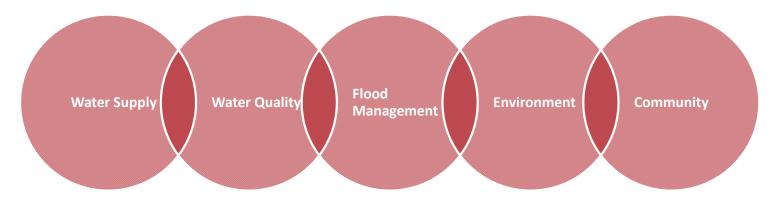
Multiple Benefits

Table 4. Storm Water Management Benefits										
Benefit Category	Main Benefit	Additional Benefit								
Water Quality while contributing to compliance with	Increased filtration and/or treatment	Nonpoint source pollution control								
applicable permit and/or TMDL requirements	of runoff	Reestablished natural water drainage and treatment								
Water Supply through groundwater management	Water supply reliability	Water conservation								
and/or runoff capture and use	Conjunctive use	Train consolitation								
Flood Management	Decreased flood risk by reducing runoff rate and/or volume	Reduced sanitary sewer overflows								
	Environmental and habitat protection and improvement, including; - wetland enhancement/creation;	Reduced energy use, greenhouse gas emissions, or provides a carbon sink								
Environmental	- riparian enhancement; and/or - instream flow improvement	Reestablishment of the natural hydrograph								
	Increased urban green space	Water temperature improvements								
Community	Employment opportunities provided	Community involvement								
	Public education	Enhance and/or create recreational and public use areas								



Prioritization of Projects

- Project Funding
- Project Location
- Quantitative Metrics
- Multi-Benefits Analysis



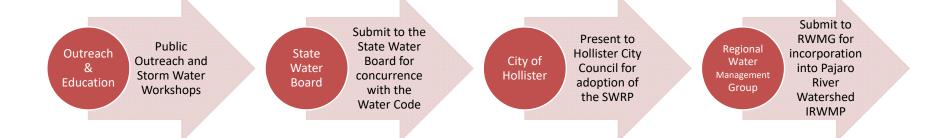


						Multiple Benefits Analysis																	
	Project	Project					Flood					ividitiple delicits Alidiysis											
	Funding	Location	Quantitative Metrics			Wat	ter Qua	ality	Water Supply Management			Environmental					Community						
Project Title	Permanent Funding? (10 points)	Project located on Public Lands? (15 points)	Quantitative Benefit Analysis Type	Quantitative Benefit Metrics Value	Points Assigned	Increased Infiltration and/or treatment of runoff (4 pts)	Nonpoint source pollution control (2 pts)	Reestablished natural water drainage and treatment (2 pts)	Water supply reliability (4 pts)	Conjunctive use (4 pts)	Decreased flood risk by reducing runoff rate	Reduced sanitary	Sewer overnows (2 pts) Environmental and habitat protection and improvement (4 pts)	Increased urban green space (4 pts)		Reestablishment of the natural hydrograph (2 pts)	Water temperature improvements (2 pts)	Employment opportunities provided (4 pts)	Community Involvement (2 pts)	Public Education (4 pts)	hance	Points Assigned	Project Scoring
IWTP Upgrade: South Street Diversion Structure Pond 2 Outlet Structure and Emergency Spillway Apricot Lane Trash Capture & Emergency Spillway Re-purpose Sewer PS to Stormwater PS Floating Islands & Decorative Fountains Percolation Pond Spillway	0	15	Storage Capacity Volume Diverted Environment DAC Population	10-year storm event (54 acre-feet) 11.4% of San Benito River tributary (10.5 acre-feet) Habitat Created 2,039 persons	12	×	x		×				x		×						×	18	45
Soap Lake Floodplain Preservation Project	0	5	Peak Flow Managed Environment DAC Population	35% Difference Habitat Managed 5,003 persons	12	×		×	×		×		×		×	×					×	24	41
Pacheco Reservoir Expansion	0	15	Peak Flow Managed	60% Difference	4	×			×		×		×			×				×		22	41
San Juan Bautista WWTP Regionalization with Hollister WWTP	0	15	Volume Diverted Pollutant Load Reduction	100% of San Juan Bautista WW Flows 69%	9	×			×	×	:											10	34
Nash Road Diversion	0	15	Volume Diverted Pollutant Load Reduction DAC Population	8.2% of San Benito River tributary (7.5 acre-feet) 44% 2,464 persons	7	×	×		×													10	32
Bridge Road Trash Capture	0	15	Pollutant Load Reduction DAC Population	76% 1,793 persons	7	×	×						×									10	32
San Benito Street Diversion	0	15	Volume Diverted Pollutant Load Reduction	11.0% of San Benito River tributary (10.1 acre-feet) 68%	6	×	×		×													10	31
Powell Street Underground Detention	0	15	Storage Capacity	25-year Storm Event (5.2 acre-feet)	3	×					×											8	26

SWRP Project Prioritization Table



Next Steps





Thank you

Questions?



Item #6: Consent Agenda (Items #6A-6G)

Recommended Action: Approve



Item #7: Items Removed from Consent Calendar for Discussion and Possible Action



Item #8A: Pajaro River Flood Risk Reduction Project Update

Recommended Action: Information

