

SAFE CLEAN WATER PROGRAM

Lower San Gabriel River Watershed

February 14, 2023
Watershed Coordinator
Update



PRESENTED BY:

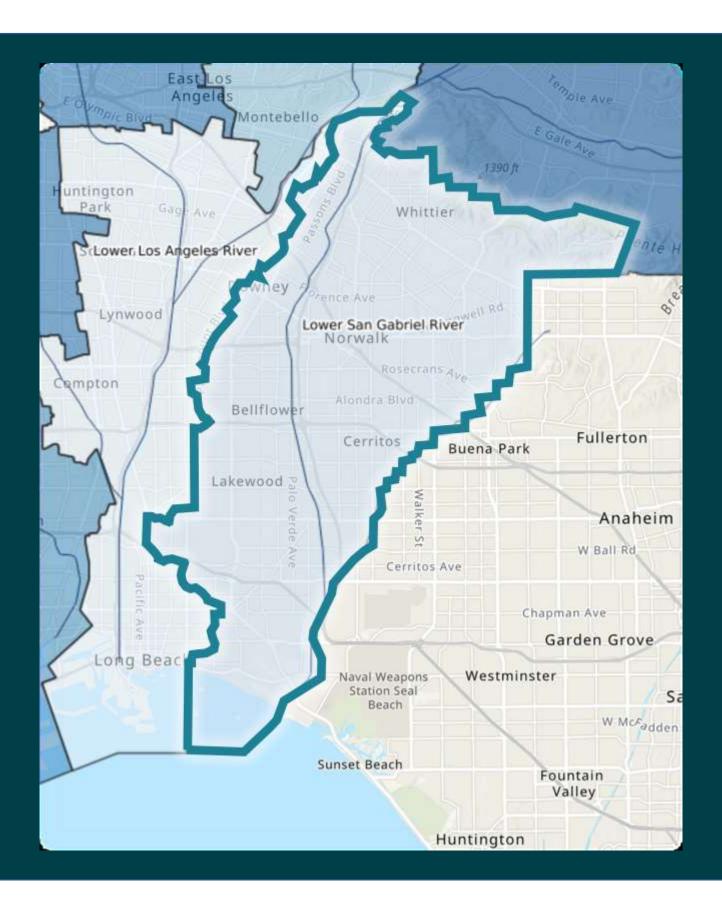
OhanaVets, Inc. Lower San Gabriel River Watershed Coordinator



LSGR - Watershed & Member Agencies

The Lower San Gabriel
River "LSGR" Watershed
Area represents the
lower portion of the San
Gabriel River starting at
Whittier Narrows. It
extends 20 miles
ending at the Pacific
Ocean.

LSGR is in the Gateway
Region of Los Angeles
County and includes 15
cities and
unincorporated LA
County in whole or in
part.



- Artesia
- Bellflower
- Cerritos
- Downey
- Hawaiian Gardens
- La Habra Heights
- La Mirada
- Lakewood
- Long Beach
- Norwalk
- Paramount
- Pico Rivera
- Santa Fe Springs
- Signal Hill
- Whittier
- Unincorporated LA County





REGIONAL PROGRAM ANNUAL FUNDING DISTRIBUTION

The percentage of funds received by each Watershed Area is proportional to the tax revenues collected within its boundaries



WATERSHED NAME	2022-23 REGIONAL TAX RETURN ESTIMATES					
Central Santa Monica Bay	\$17.42M					
Lower Los Angeles River	\$12.72M					
Lower San Gabriel River	\$16.7M					
North Santa Monica Bay	\$1.83M					
Rio Hondo	\$11.49M					
Santa Clara River	\$5.87M					
South Santa Monica Bay	\$17.58M					
Upper Los Angeles River	\$38.44M					
Upper San Gabriel River	\$18.78M					
ANNUAL REGIONAL TOTAL:	\$140.6M					





Increase water supply

CLEAN IT

Reduce volume of trash that reaches waterways and the ocean

MAKE IT SAFE

Eliminate toxins and chemicals from our waterways

MAKE IT FOR EVERYONE

Provide community benefits

VISION:

By modernizing our 100-year-old water system, we can better protect public health and our environment, and maximize a cleaner, locally controlled water supply.

HOW?

Through the funding of:

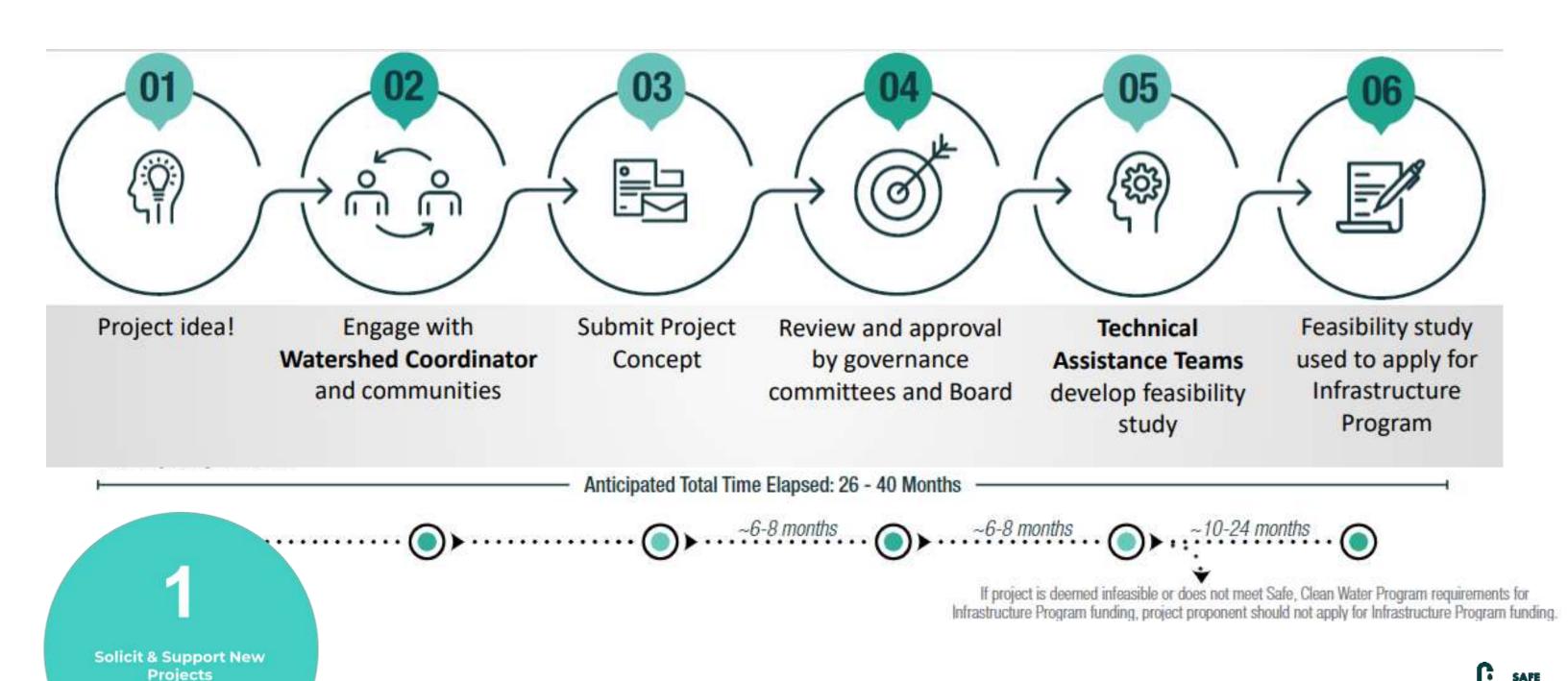
multi-benefit stormwater & urban runoff capture projects

WHO?





PROJECT DEVELOPMENT PROCESS:



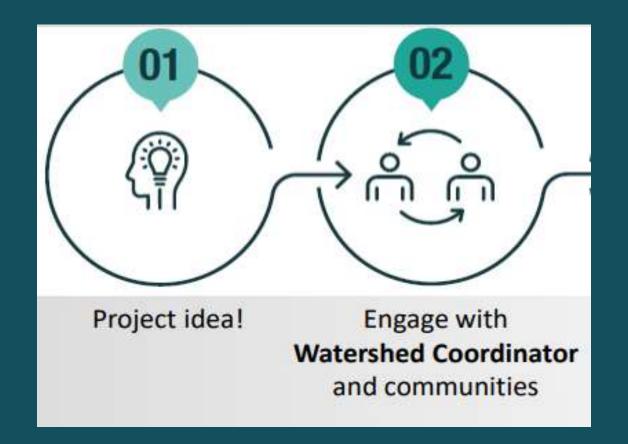
HAVE A PROJECT IDEA?

- ENGAGE WATERSHED COORDINATOR
- DEVELOP COMMUNITY ENGAGEMENT APPROACH
- DEVELOP PROJECT BENEFITS SUCH AS:

Solicit & Support New Projects

Identify parties with project ideas.

STEPS: 1 & 2





- Enhancing natural habitat and wetlands
- Increasing public access to waterways
- Creating new recreational opportunities
- Enhancing green spaces at schools
- Reducing local heat island effect







Workshops/Meetings/Education Events

WORKSHOPS and MEETINGS

- ☑ Integrated Regional Water Mgmt "IRWM" Lower SGR/Lower LAR Sub-Regional Steering Committee March
- ☑ Gateway Water Mgmt Authority Board April
- ☑ Rivers and Mountains Conservancy Board June
- ☑ Downey School District September 16
- ☐ Gateway Chamber Alliance **September 27**
- ✓ Infrastructure LA Initiative Presentation September 28
- ✓ Los Cerritos Wetlands Trust October 28
- ☑ Watertalks DAC Workshop Community Engagement Nov 30
- ☐ Adventure Park Project Groundbreaking February 22





Upcoming Activities

Newsletter



WATERSHED COORDINATOR TEAM UPDATE

We want you to be informed about what is happening in your area with water quality and the SafeCleanWater Program (SCWP). Explore these links for more information or how you can get become involved in your local watershed area. Click on the button below to visit the SafeCleanWater website.

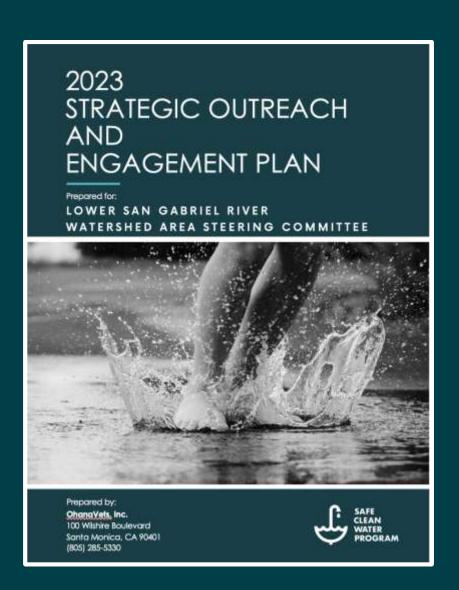
Stakeholder Contact List

Continued outreach and engagement to local city, NGOs, and School Districts in our watershed area.

2
Community
Engagement

Cather input on community
needs that SCW projects can
help fulfill

SOEP update 2023







Workshops/Meetings/Education Events

EDUCATIONAL OUTREACH

- ✓ Downey Touch-a-Truck CWV Education Trailer May 7
- Sorensen Park Harvest Festival November 17
- Los Cerritos Wetlands Holiday Tour December 10
- ☐ Water Festival Al Robles Ctr May 2023
- Earth Walk City of Lakewood March/April 2024



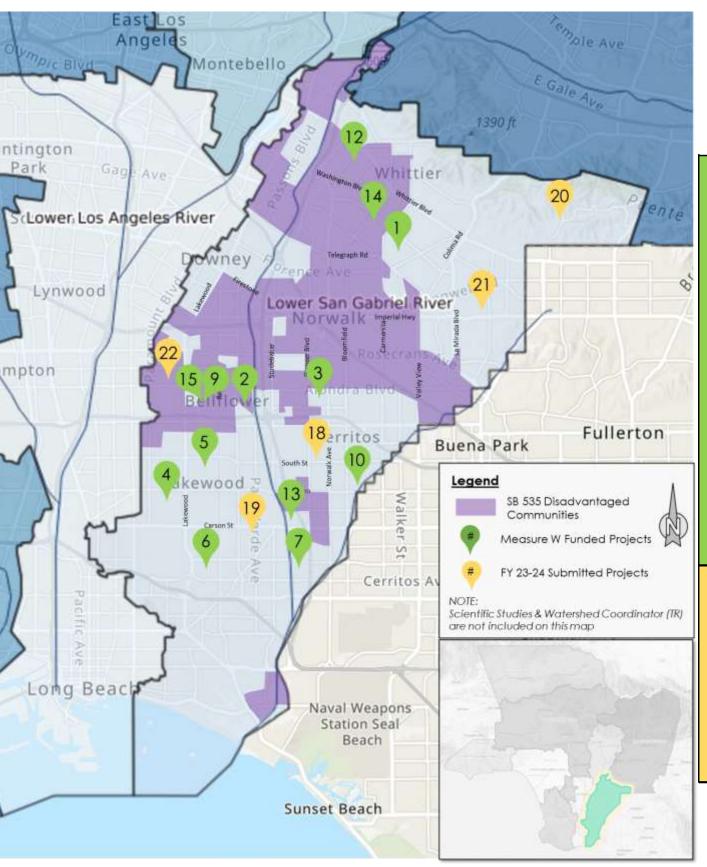


Public Education

Educate the public about SCWP projects in their communities



LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION



	Project Name	DAC Benefit	BMP Type	Planning/Design	Construction	O&M	Techncial Resource/ Scientific Study	Cost Share	Measure W Funding	SIP Year	Project Developer
				\$M	\$M	\$M	\$M	\$M	\$M		Unincorp.
	1 Adventure Park Multi-Benefit Stormwater Capture	N	D		\$ 13.5			\$ 15.0	\$ 13.5	20-21	County Area of Whittier
	2 Caruthers Park	Υ				\$ 0.9		\$ 13.0	\$ 0.9	20-21	Bellflower
	3 Hermosillo Park	Υ	1	\$ 4.1	\$ 16.0				\$ 20.1	20-21	Norwalk
	4 Bolivar Park	Y	 -			\$ 1.3		\$ 11.0	\$ 1.3	20-21	Lakewood
	5 Mayfair Park , Skylinks Golf Course at Wardlow	Y	T			\$ 1.3		\$ 15.0	\$ 1.3	20-21	Lakewood
	Stormwater Capture Project	N	T	\$ 2.7	\$ 7.8				\$ 10.4	20-21	Long Beach
	7 El Dorado Regional Project	Υ	T	\$ 3.0				\$ 0.1	\$ 3.0	20-21	Long Beach
	8 Watershed Coordinator	N/A	TR				\$ 1.0		\$ 1.0	20-21	LACFCD
eq	9 Bellflower Simms Park Stormwater Capture	Υ	Т	\$ 2.1				\$ 5.6	\$ 2.1	21-22	Bellflower
Funded	10 Cerritos Sports Complex	Υ	T	\$ 2.4					\$ 2.4	21-22	Cerritos
Ξ.	11 Gateway Area Path Finding Analysis	N/A	SS				\$ 0.1		\$ 0.1	21-22	GWMA
	12 Sorensen Park Multi-Benefit	Υ	TR				\$ 0.3		\$ 0.3	21-22	LA County PW
	13 Lakewood Equestrian Center	Υ	T	\$ 1.1				\$ 0.4	\$ 1.1	22-23	Lakewood
	14 York Field Stormwater Capture	Υ	- 1	\$ 1.9				\$ 0.6	\$ 1.9	22-23	Whittier
	15 Bellflower Simms Park Stormwater Capture	Υ	Т		\$ 13.7			\$ 0.9	\$ 13.7	22-23	Bellflower
	Gateway Area Path Finding Analysis Ph 2	N/A	SS				\$ 0.2		\$ 0.2	22-23	GWMA
	17 Microplastics in LA County Stormwater	N/A	SS				\$ 0.2	\$ 0.1	\$ 0.2	22-23	Dr. A. Gray, UC Riverside
	SubTotal			\$ 17.3	\$ 51.0	\$ 3.4	\$ 1.9		\$ 73.5		
	18 Artesia Park Urban Runoff Capture	Υ	Т	\$ 1.6					\$ 1.6	23-24	Artesia
Suc	19 Heartwell Park at Palo Verde Channel Stormwater Capture	Ν	T	\$ 1.5	\$ 1.8				\$ 3.3	23-24	Long Beach
t :atio	20 La Habra Heights Stormwater Treament and Reuse	Y	BF		\$ 0.7				\$ 0.7	23-24	La Habra Heights
3-24 oplic	21 La Mirada Creek Park	Ν	BR		\$ 5.8			\$ 1.0	\$ 5.8	23-24	La Mirada
FY 23-24 Project Applications	22 Progress Park Stormwater Capture	Υ	I	\$ 2.2				\$ 2.2	\$ 2.2	23-24	Paramount
	23 Regional Pathogen Reduction	N/A	SS				\$ 1.0		\$ 1.0	23-24	GWMA
	Targeted Human Waste Source Reduction Strategy	N/A	SS				\$ 0.5		\$ 0.5	23-24	GWMA
	Subtotal			\$ 5.3	\$ 8.3	\$ -	\$ 1.5		\$ 15.0		
	Total	\$ 22.6	\$ 59.3	\$ 3.4	\$ 5.2		\$ 88.6				
'	LEGEND										

BMP Type: BF=Biofiltration; BR=Bioretention; D= Diversion to Sanitary Sewer; I = Infiltration Facility; T = Treatment Facility; TR = Technical Resource: SS = Scientific Study Located in SB 535 Disadvantaged Communities

ARTESIA PARK URBAN RUNOFF CAPTURE PROJECT



Regional urban runoff capture facility located at Artesia Park beneath the open space of the existing park surface.

PROJECT LEAD: City of Artesia

Treatment Facility BMP TYPE:

LOCATED IN DISADVANATED COMMUNITY(DAC)?

No

BENEFITS DAC? Yes

SCORING COMMITTEE 61 **SCORE**

TOTAL MEASURE W **FUNDING REQUEST:**

FUNDING YEAR

Year 1

\$1,568,876 (Design)

No

AMOUNT

\$1,568,876

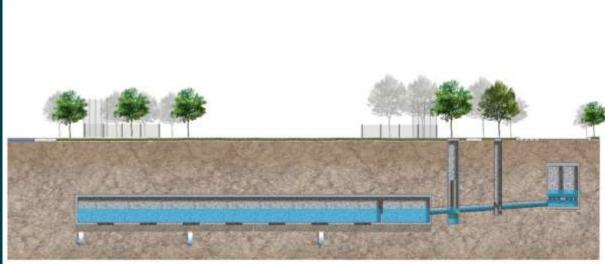
COST SHARE?

TOTAL CONSTRUCTION COST:

\$13,173,880

- Captures water from 585 acres
- Nature-Based Parking Lot **Enhancements**
- Improve Flood Management
- Enhance/Restore Park Space
- **Enhance Recreational Opportunities**
- Reduce heat local island Effect
- Increase Tree Count





PROJECT CHARACTERISTICS							
Primary Pollutant Zinc Reduction Achieved (% Zn reduction)	76 lb/yr (91.4%)						
Secondary Pollutant Bacteria (% Bacteria load reduction)	1.57 x 10 ¹³ MPN (98.1%)						
Design Diversion Rate Project No. Bi0021, Unit 2, Line A	20 cfs						
Storage Capacity for Subsurface Storage Reservoir	5 ac-ft (1.6 MG)						
24-Hour Capacity	20.6 ac-ft						
Construction Cost Estimate	\$11,785,345						

LA MIRADA CREEK PARK PROJECT



Removal of 2,500 feet concrete low-flow channel. Naturalization of existing La Mirada Creek Park to capture 168 AFY of dry weather flow.

PROJECT LEAD: City of La Mirada

61

BMP TYPE: Bioretention

LOCATED IN
DISADVANATED No
COMMUNITY(DAC)?

BENEFITS DAC? No

SCORING COMMITTEE

SCORE:

TOTAL MEASURE W FUNDING REQUEST:

FUNDING YEAR

Year 2

\$5,752,200 (Const)

\$5,752,200

AMOUNT

COST SHARE?

\$1,008,000

TOTAL CONSTRUCTION COST:

\$5,752,200

- Captures water from 2,949 acres
- Improve Flood Management
- Enhance/Restore Park Space
- Improves Public Access to Waterways
- Enhance Recreational Opportunities
- Reduce Heat Local Island Effect
- Increase Tree Count









HEARTWELL PARK AT PALO VERDE CHANNEL STORMWATER CAPTURE PROJECT



Regional stormwater capture and filtration/sewer diversion facility located at Heartwell Park beneath the

open space of the existing park.

PROJECT LEAD: City of Long Beach

BMP TYPE: Treatment Facility

LOCATED IN

DISADVANATED No

COMMUNITY(DAC)?

BENEFITS DAC? No

SCORING COMMITTEE

TOTAL MEASURE W

FUNDING REQUEST:

SCORE:

\$3,313,865

61

FUNDING YEAR

<u>AMOUNT</u>

Year 1

\$1,485,048 (Design)

Year 2

\$1,828,817 (Phase 1 Const.)

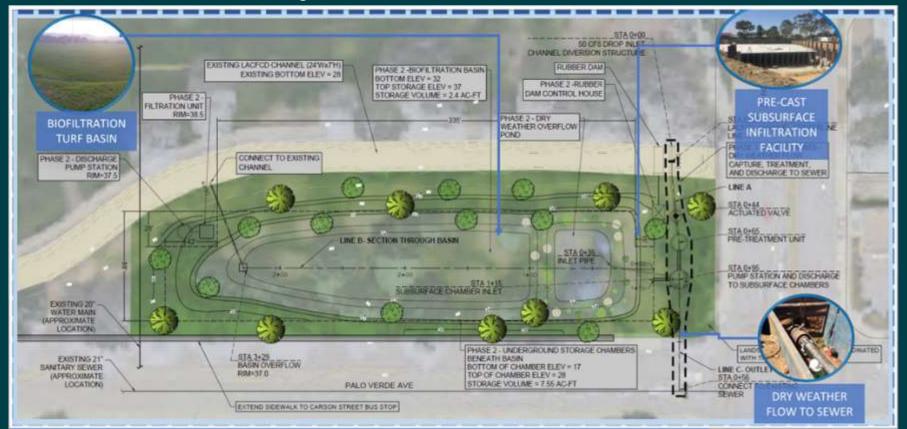
COST SHARE?

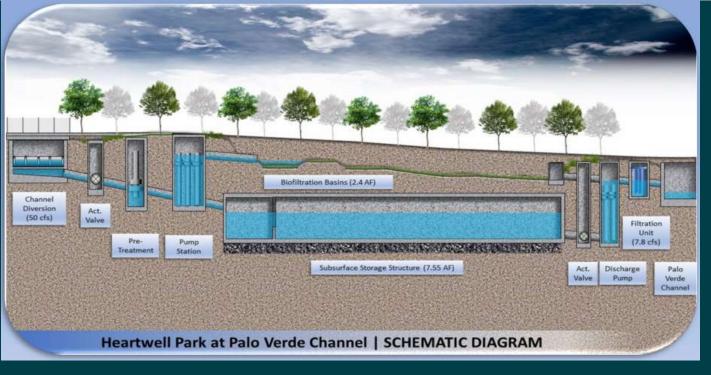
No

TOTAL CONSTRUCTION COST:

\$11,956,920

- Captures water from 2,099 acres
- Improve Flood Management
- Enhance/Restore Park Space
- Improves Public Access to Waterways
- Enhance Recreational Opportunities
- Reduce Heat Local Island Effect
- Increase Tree Count





LA HABRA HEIGHTS STORMWATER TREATMENT AND REUSE SYSTEM THE PARK HACIENDA ROAD



The project aims to capture, infiltrate or treat and store stormwater runoff from Hacienda Park and nearby

catchments for beneficial reuse.

City of La Habra Heights PROJECT LEAD:

Biofiltration BMP TYPE:

LOCATED IN

DISADVANATED No

COMMUNITY(DAC)?

BENEFITS DAC? Yes

SCORING COMMITTEE

SCORE:

\$705.348

65

TOTAL MEASURE W **FUNDING REQUEST:**

FUNDING YEAR

AMOUNT

Year 1

\$289,069 (Design & Const.)

Year 2

\$416,279 (Const.)

COST SHARE?

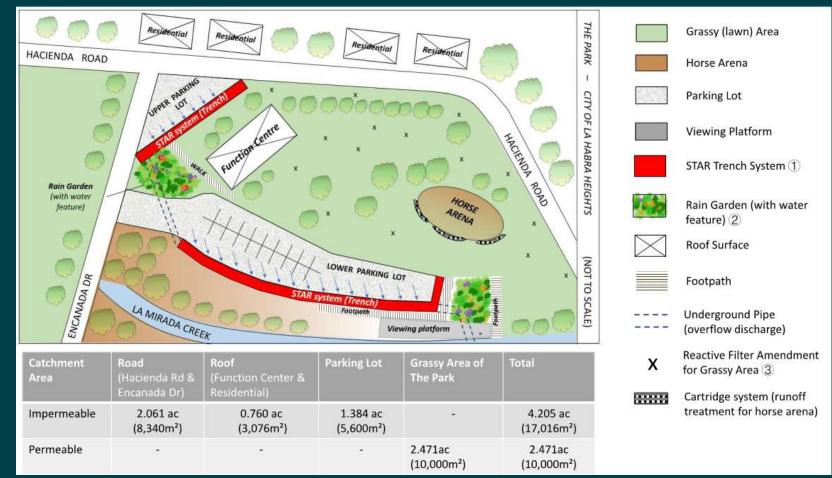
\$236,000

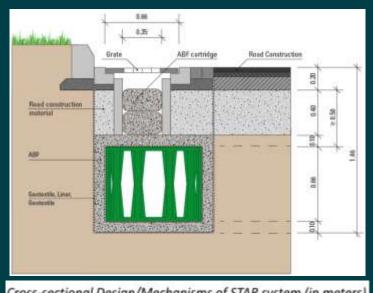
TOTAL CONSTRUCTION

\$520.348

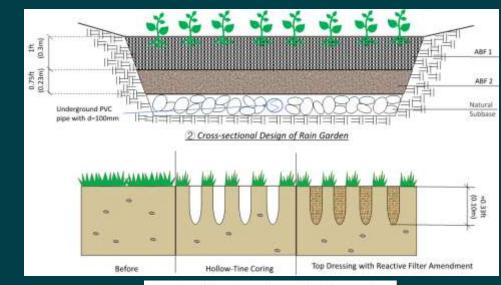
PROJECT FEATURES:

- Captures water from 4.2 acres
- Improve Flood Management
- Enhance/Restore Park Space
- Improves Public Access to Waterways
- **Enhance Recreational Opportunities**
- Reduce Heat Local Island Effect
- Increase Tree Count





Cross-sectional Design/Mechanisms of STAR system (in meters)



Reactive Filter Amendment for Grassy Area

PROGRESS PARK STORMWATER CAPTURE PROJECT



Regional stormwater capture and infiltration/filtration facility, new soccer fields, and pedestrian

walking path at Progress Park.

PROJECT LEAD: City of Paramount

BMP TYPE: Infiltration Facility

LOCATED IN
DISADVANATED Yes

COMMUNITY(DAC)?

BENEFITS DAC? Yes

SCORING

COMMITTEES SCORE 73

TOTAL MEASURE W
FUNDING REOUEST:

FUNDING YEAR

Year 1

<u>AMOUNT</u>

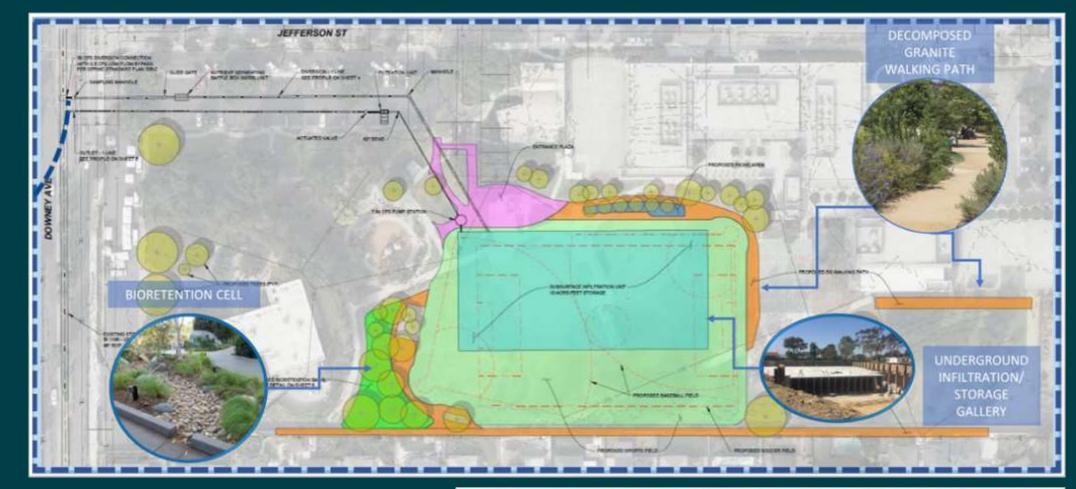
\$2,161,744

\$2,161,744 (Design)

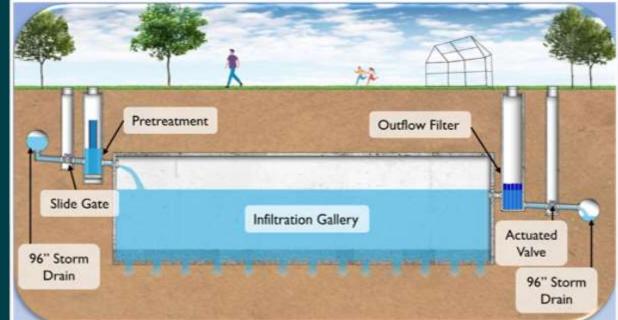
COST SHARE? No

CONSTRUCTION COST: \$19,971,243

- Captures water from 729 acres
- Improve Flood Management
- Enhance/Restore Park Space
- Enhance Recreational Opportunities
- Enhance Green Space at School
- Reduce Heat Local Island Effect
- Increase Tree Count







REGIONAL PATHOGEN REDUCTION STUDY



A study to leverage recent research to produce strategies that prioritize the highest risk sources of human pathogens, protect public health more effectively and efficiently, and can be incorporated into Water Management Programs and Enhanced Watershed Management Programs (E/WMP).

PROJECT LEAD: Gateway Water

Management Authority

LSGR, Rio Hondo,

WATERSHED AREAS: Central Santa Monica Bay,

Upper Los Angeles River

TOTAL MEASURE W
FUNDING REQUEST FOR
ALL WATERSHED:

\$5,103,473.48

MEASURE W FUNDING REQUEST FROM LSGR

FUNDING YEAR

\$ 1,007,287.12

WATERSHED:

AMOUNT

Year 1 \$ 44,169.54

Year 2 \$ 309,186.78

Year 3 \$ 265,017.24

Year 4 \$ 288,184.85

Year 5 \$ 100,728.71

COST SHARE?

No

TECHNICAL STUDY OUTCOME:

- Determine sources of the highest risk to human health.
- Identifying beaches and inland waterbodies within the MS4 Permit area where risk to human health is higher so that E/WMPs can target those areas earlier during the implementation process.
- Identify management actions to address high-risk sources and areas more effectively.

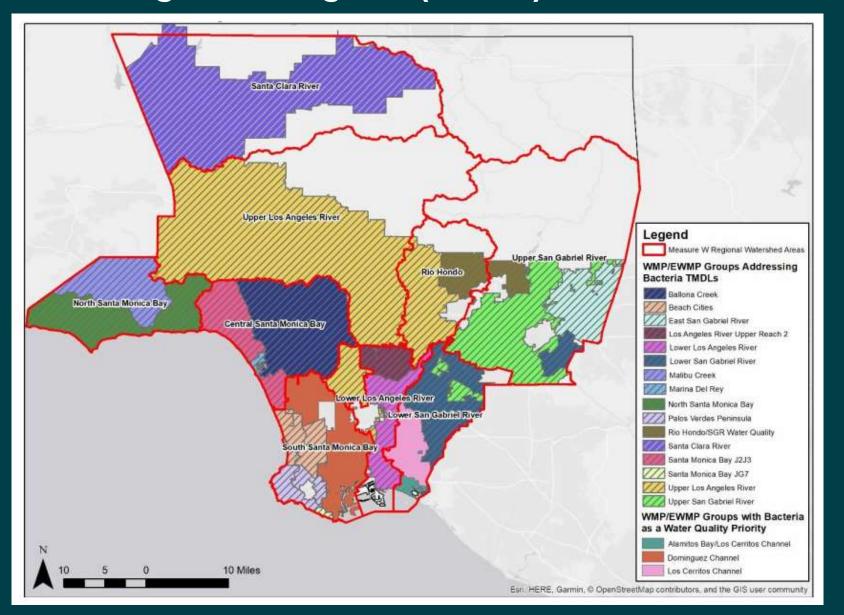


Figure 1. Watershed Management Program/Enhanced Watershed Management Program Groups
Addressing Bacteria and SCWP Watershed Areas

TARGETED HUMAN WASTE SOURCE REDUCTION WASTERAN STRATEGY TO ADDRESS BACTERIA RELATED COMPLIANCE OBJECTIVES FOR THE LOS CERRITOS CHANNEL

Data-driven framework to guide and prioritize source ID and abatement efforts, focusing on reducing sources of human waste for bacteria.

PROJECT LEAD: Gateway Water Management Authority

TOTAL MEASURE W \$475,000

FUNDING YEAR AMOUNT

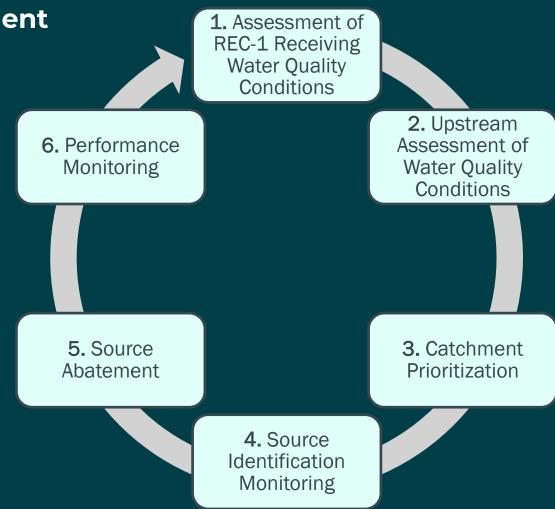
Year 1 \$ 175,000

Year 2 \$ 300,000

COST SHARE? No

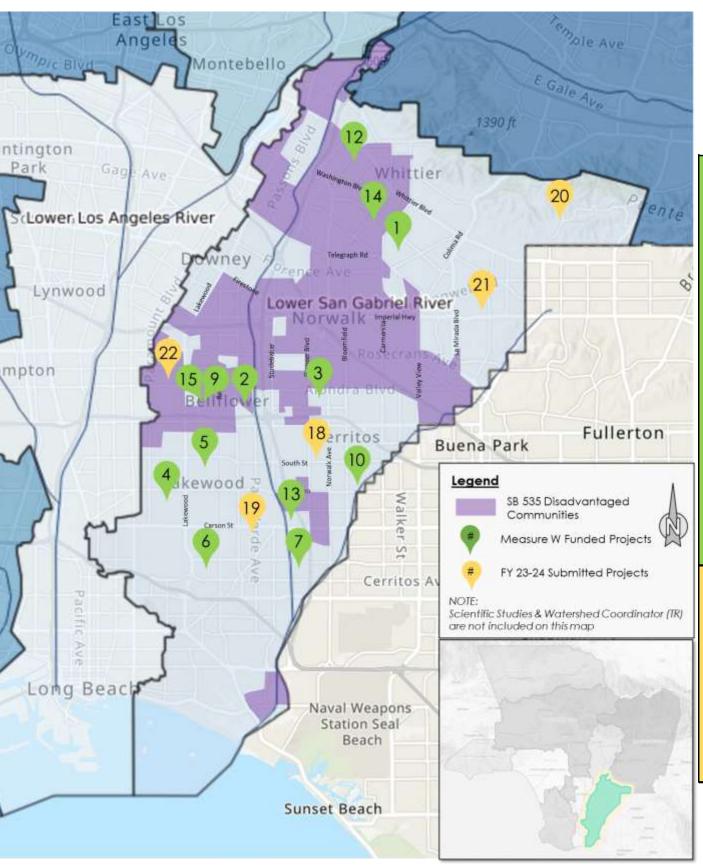
TECHNICAL STUDY OUTCOME:

- Develop a risk-based framework to expeditiously reduce public health risks and demonstrate compliance with bacteria objectives.
- Characterize highest priority areas in the watershed to invest in resources based on water quality conditions, potential sources of human waste, and influence on impaired receiving waters.
- Prioritize identification and abatement of human sources of waste.
- Identify recommended abatement strategies to reduce the recreational health risk in downstream receiving waters progressing towards the bacteria compliance objectives.
- Utilize recent scientific advancements in development of human markers and diagnostic tools for focused source control efforts
- Collect paired fecal indicator bacteria and human marker data to support evaluation of water quality conditions and human health risk levels.
- Educate and outreach to stakeholders on bacteria issues.
- Provide technical resources to inform and be leveraged by similar efforts in region.



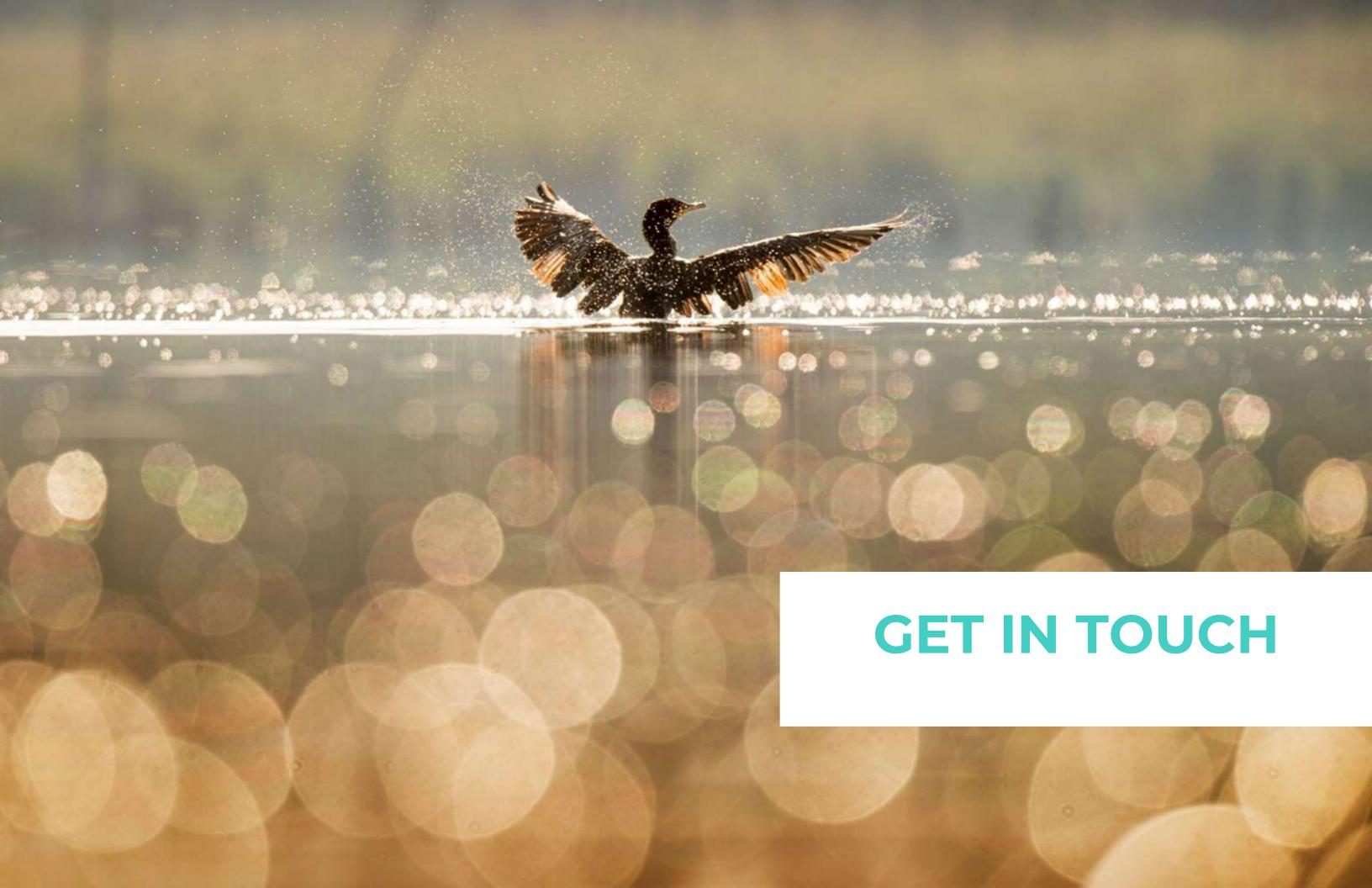
SAFE CLEAN

LSGR – SCWP PROJECTS FUNDED AND UNDER CONSIDERATION



	Project Name	DAC Benefit	BMP Type	Planning/Design	Construction	O&M	Techncial Resource/ Scientific Study	Cost Share	Measure W Funding	SIP Year	Project Developer
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	Adventure Park Multi-Benefit Stormwater Capture	N	D		\$ 13.5			\$ 15.0	\$ 13.5	20-21	Unincorp. County Area of Whittier
	2 Caruthers Park	Υ	-			\$ 0.9		\$ 13.0	\$ 0.9	20-21	Bellflower
	3 Hermosillo Park	Y	1	\$ 4.1	\$ 16.0	4 10		* 110	\$ 20.1	20-21	Norwalk
	4 Bolivar Park	Y	T			\$ 1.3		\$ 11.0	\$ 1.3	20-21	Lakewood
	5 Mayfair Park , Skylinks Golf Course at Wardlow					\$ 1.3		\$ 15.0	\$ 1.3	20-21	Lakewood
	Stormwater Capture Project	N	T	\$ 2.7	\$ 7.8				\$ 10.4	20-21	Long Beach
	7 El Dorado Regional Project	Υ	T	\$ 3.0				\$ 0.1	\$ 3.0	20-21	Long Beach
_	8 Watershed Coordinator Bellflower Simms Park	N/A	TR				\$ 1.0		\$ 1.0	20-21	LACFCD
je	9 Stormwater Capture	Υ	T	\$ 2.1				\$ 5.6	\$ 2.1	21-22	Bellflower
Funded	10 Cerritos Sports Complex	Υ	T	\$ 2.4					\$ 2.4	21-22	Cerritos
3	11 Gateway Area Path Finding Analysis	N/A	SS				\$ 0.1		\$ 0.1	21-22	GWMA
	12 Sorensen Park Multi-Benefit	Υ	TR				\$ 0.3		\$ 0.3	21-22	LA County PW
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	15 Bellflower Simms Park Stormwater Capture	Υ	T		\$ 13.7			\$ 0.9	\$ 13.7	22-23	Bellflower
	16 Ph 2	N/A	SS				\$ 0.2		\$ 0.2	22-23	GWMA
	17 Microplastics in LA County Stormwater	N/A	SS				\$ 0.2	\$ 0.1	\$ 0.2	22-23	Dr. A. Gray, UC Riverside
	SubTotal			\$ 17.3	\$ 51.0	\$ 3.4	\$ 1.9		\$ 73.5		
	18 Artesia Park Urban Runoff Capture	Y	T	\$ 1.6					\$ 1.6	23-24	Artesia
suc	Heartwell Park at Palo Verde Channel Stormwater Capture	Ν	T	\$ 1.5	\$ 1.8				\$ 3.3	23-24	Long Beach
attic	20 La Habra Heights Stormwater Treament and Reuse	Υ	BF		\$ 0.7				\$ 0.7	23-24	La Habra Heights
3-24 oplic	21 La Mirada Creek Park	Ν	BR		\$ 5.8			\$ 1.0	\$ 5.8	23-24	La Mirada
FY 23-24 Project Applications	22 Progress Park Stormwater Capture	Υ	1	\$ 2.2				\$ 2.2	\$ 2.2	23-24	Paramount
	23 Regional Pathogen Reduction	N/A	SS				\$ 1.0		\$ 1.0	23-24	GWMA
	Targeted Human Waste Source Reduction Strategy	N/A	SS				\$ 0.5		\$ 0.5	23-24	GWMA
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	Total			\$ 22.6	\$ 59.3	\$ 3.4	\$ 5.2		\$ 88.6		
	LEGEND										

BMP Type: BF=Biofiltration; BR=Bioretention; D= Diversion to Sanitary Sewer; I = Infiltration Facility; T = Treatment Facility; TR = Technical Resource: SS = Scientific Study Located in SB 535 Disadvantaged Communities





Community Outreach Ideas?

Project Ideas?

Partnership Ideas?

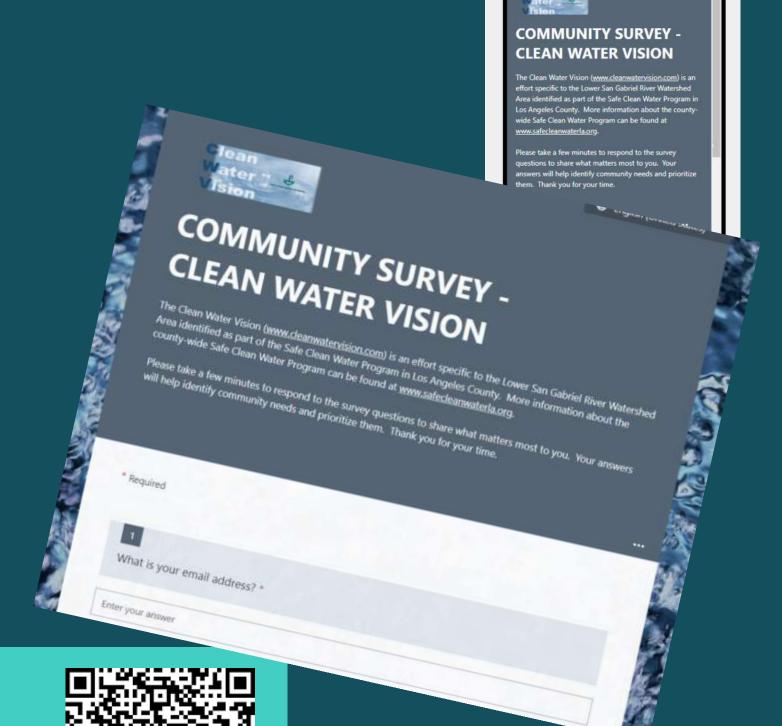


TAKE OUR 2 MINUTE COMMUNITY NEEDS SURVEY

What water issues concern you the most?

What does your community need more of?

What outdoor areas need improvement?



English (United States)

LSGR Watershed Area Community Survey

www.cleanwatervision.com



QUESTIONS? DISCUSSION?

