



SAFE CLEAN WATER PROGRAM

Lower San Gabriel
River Watershed

February 13, 2024
Watershed Coordinator
Update



PRESENTED BY:

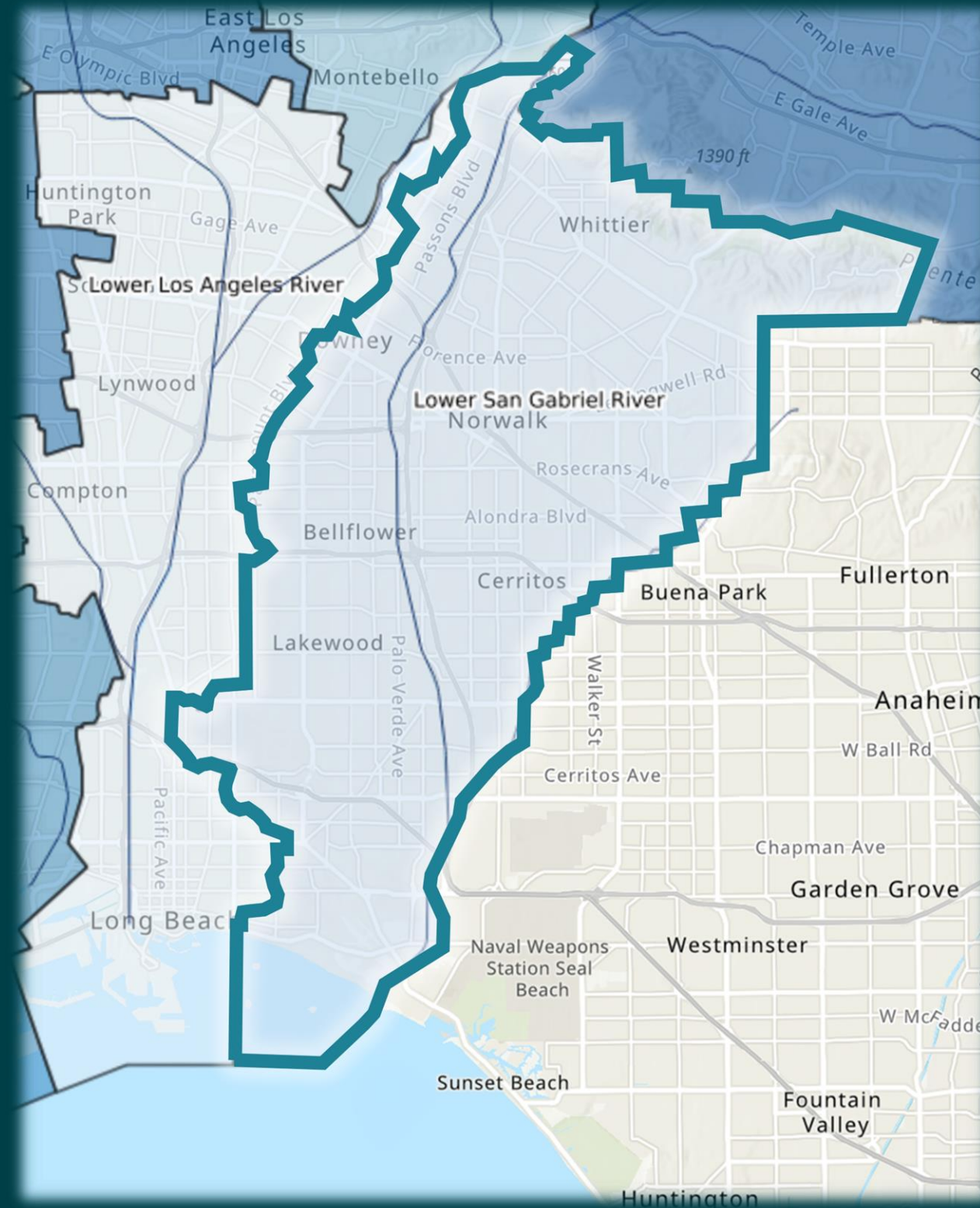
OhanaVets, Inc.
Lower San Gabriel River
Watershed Coordinator



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

PASSED AS 'MEASURE W' IN 2018

CAPTURE IT

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?





Workshops/Meetings

2
Community Engagement
 Gather input on community needs that SCW projects can help fulfill

- ✓ LSGR Watershed Community Small Scale Program Concept – June, July, August, and September
- ✓ Neighborhood Small Scale Stormwater Projects in Long Beach – 8/28
- ✓ Downey School District – School Site Stormwater Upgrades – 9/21
- ✓ Infrastructure Justice for LA – 9/22
- ☐ **Stormwater Speaker Series – 2/7** 

PRECON PRODUCTS PRESENTS:
THE STORMWATER SPEAKER SERIES

COME FIND OUT ABOUT WHAT'S GOING ON IN THE WORLD OF **STORMWATER** IN SOUTHERN CALIFORNIA.

- ◆ FREE ADMISSION
- ◆ Professional Development Hours (PDH)
- ◆ Current/Relevant Stormwater Topics
- ◆ Network with industry professionals
- ◆ Continental Breakfast
- ◆ Hot Lunch Buffet
- ◆ Free Parking
- ◆ Raffle Prizes

The *Stormwater Speaker Series* is a forum for those interested in stormwater. With the main goal of furthering the conversation about stormwater by providing a place to share relevant, timely, and accurate information. While these events are primarily geared toward civil engineers and stormwater professionals, it is a great event for anyone looking to get engaged in the discussion about stormwater and how its managed.

THE CENTRE
 EVENTS BY TGIS
 5000 CLARK AVE, LAKEWOOD, CA 90712

WEDNESDAY, FEBRUARY 7TH
 NETWORKING 9:30 – 10:15
 PRESENTATIONS 10:20 – 1:45
 FREE ADMISSION

EVENT SPEAKERS

Oliver Galang, P.E., ENV. SP Craftwater Engineering Principal	Michael Scaduto, P.E., ENV. SP LASAN Principal Engineer
Kekoa Anderson, P.E., QSD OhanaVets Principal Engineer	Bruce Reznik, J.D. LA Waterkeeper Executive Director
James Mayer Precon Products Stormwater Director	

LIMITED SEATING AVAILABLE. REGISTER TODAY
 (602) 499-5881 | sss@pre-conproducts.com



3

Public Education

Educate the public about SCWP projects in their communities

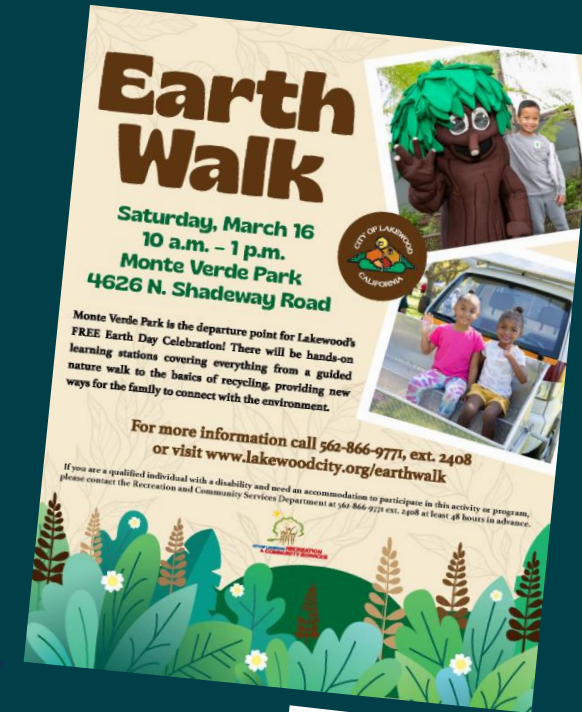
Education Events

Groundwater Festival at WRD – 5/6

Touch-a-Truck at Whittier City Hall – 5/20

Earth Walk City of Lakewood – 3/16

Earth Day LA County Sanitation Districts (Tentative) – 4/13





Photos of Educational Events

WRD
WATER REPLENISHMENT DISTRICT

WE'RE BACK!

13th Annual

GROUNDWATER FESTIVAL
Treasure Beneath Our Feet

- Mye -
3rd Grade - Intensive Learning Center

The Water Replenishment District (WRD) is proud to present the 13th Annual Groundwater Festival on Saturday, May 6, 2023. Please join us for this family friendly event full of activities, educational booths, food, and prizes!

WHERE
WRD
4040 Paramount Blvd.
Lakewood, CA 90712

WHEN
Saturday,
May 6, 2023
10:00 AM - 2:00 PM

FOOD, FACE PAINTING, AND MORE!

For more info please contact Shane Hardy at (562) 275-4228 or via email at shardy@wrd.org

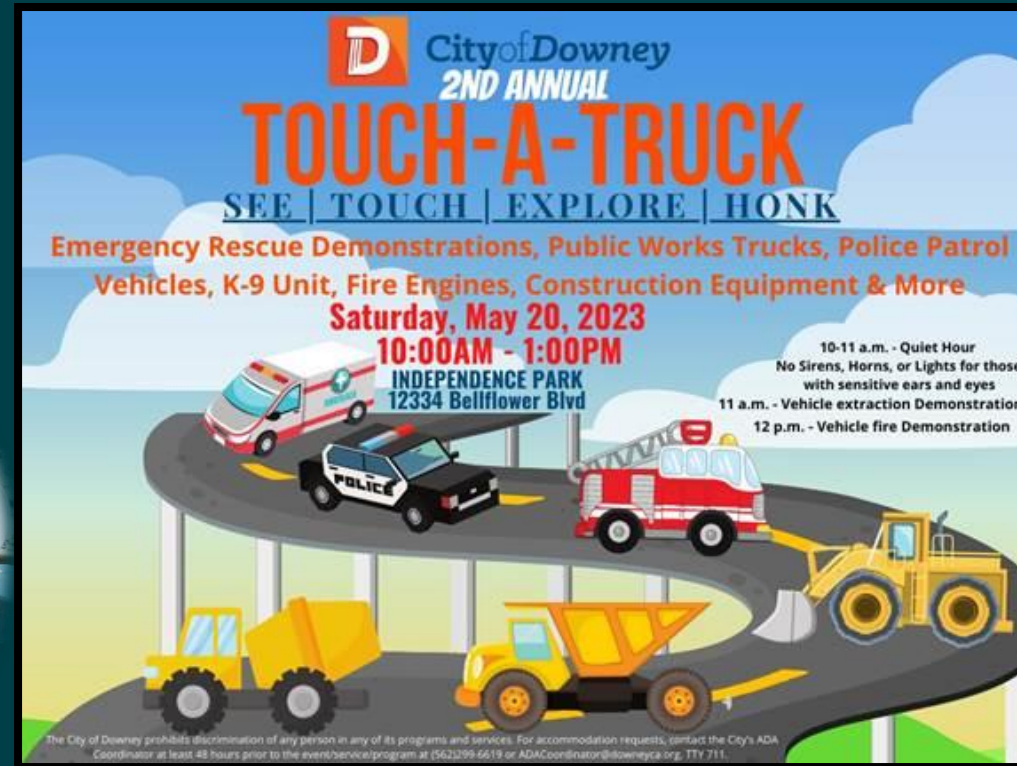
BOARD OF DIRECTORS

 Joy Langford Division 1	 Robert Katherman Division 2	 John D. S. Allen Division 3	 Sergio Calderon Division 4	 Vera Robles DeWitt Division 5	 Stephan Tucker General Manager
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4040 Paramount Blvd., Lakewood, CA 90712 | www.WRD.org | [Facebook](https://www.facebook.com/wrd) | [Instagram](https://www.instagram.com/wrdsocial) | [TikTok](https://www.tiktok.com/@wrdsocial) | [YouTube](https://www.youtube.com/wrd) | [LinkedIn](https://www.linkedin.com/company/wrd) | [X](https://www.x.com/wrd) | [YouTube](https://www.youtube.com/wrd) | [TikTok](https://www.tiktok.com/@wrdsocial) | [YouTube](https://www.youtube.com/wrd) | [LinkedIn](https://www.linkedin.com/company/wrd) | [X](https://www.x.com/wrd)



Photos of Educational Events



LSGR WASC Prioritization Criteria

- In 2022 LSGR WASC requested WC help to develop consensus on how to define certain SCWP elements not otherwise defined.
- Goal: Assist LSGR WASC in decision-making to help meet the priorities of the LSGR and SCWP.

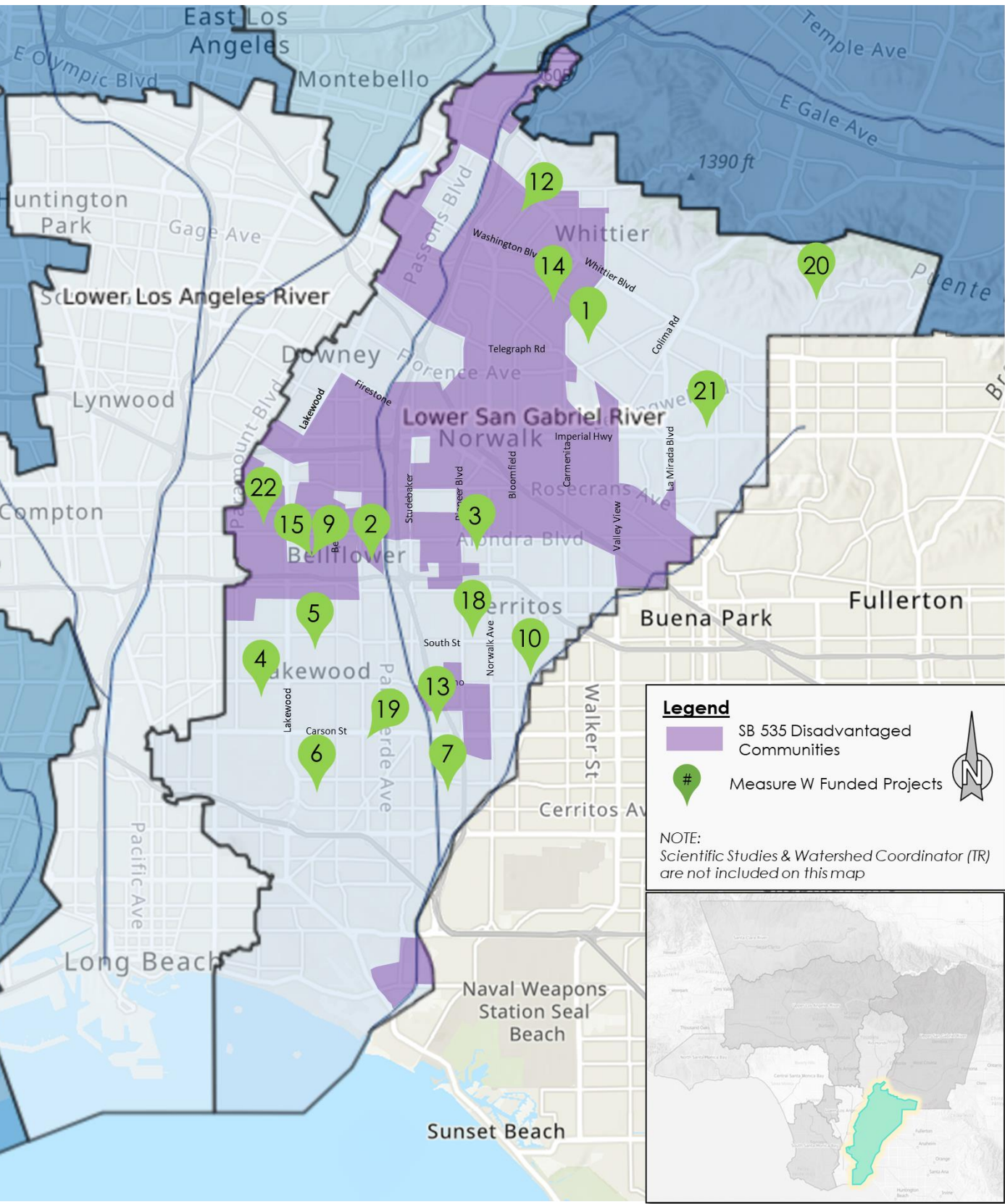
Lower San Gabriel River Watershed Area Steering Committee "LSGR WASC" Prioritization Criteria

The LSGR WASC has developed the following prioritization criteria to guide decisions that will help meet the priorities for the LSGR watershed area in its annual Stormwater Investment Plan (SIP). The criteria below applies only to LSGR WASC and will be used to evaluate projects deemed eligible by the Safe Clean Water Program (SCWP) scoring criteria. The prioritization criteria below is considered a guidance tool and is not binding. It may be modified as needed by the LSGR WASC at any time.

MINIMUM CATCHMENT AREA?		
1.	Should Minimum Catchment Area for Projects be Considered?	Consideration will be on a case-by-case basis.
PROJECT SIZE DEFINITIONS?		
2.	Small-sized Project Definition?	Construction Costs less than \$1M
3.	Medium-sized Project Definition?	Construction Costs between \$1M to \$10M
4.	Large-sized Project Definition?	Construction Costs over \$10M
MINIMUM FUNDING MATCH?		
5.	Projects which prioritize Nature-Based Solutions	Consideration will be on a case-by-case basis; WASC requests good faith effort to find funding match.
6.	Projects with DAC benefits	Consideration will be on a case-by-case basis; WASC requests good faith effort to find funding match.
7.	Small-sized Projects (less than \$1M)	Request 10% minimum funding match
8.	Medium-sized Projects (\$1M to \$10M)	Request 15% minimum funding match
9.	Large-sized Projects (>\$10M)	Request 20% minimum funding match
RESERVING FUNDS?		
10.	Reserving funds for Small-sized Projects	Reserve up to \$1.5M for Small-sized Projects each year; if reserved funds are not needed in any given year, they will be applied to other eligible projects.
11.	Reserving funds for O&M Funding	If a project intends to utilize SCWP regional funding to support ongoing O&M, the SCWP construction funding application should identify the intent and need prior to construction award. This will allow for the project's O&M funding needs to be prioritized and considered for future O&M funds. Additional funds may also be reserved annually for non-SCWP funded construction projects.
FUNDING CAPS?		
12.	Funding Award Caps for Construction Project requests?	No maximum funding cap.
13.	Funding Award Cap for O&M requests?	Consideration will be on a case-by-case basis.



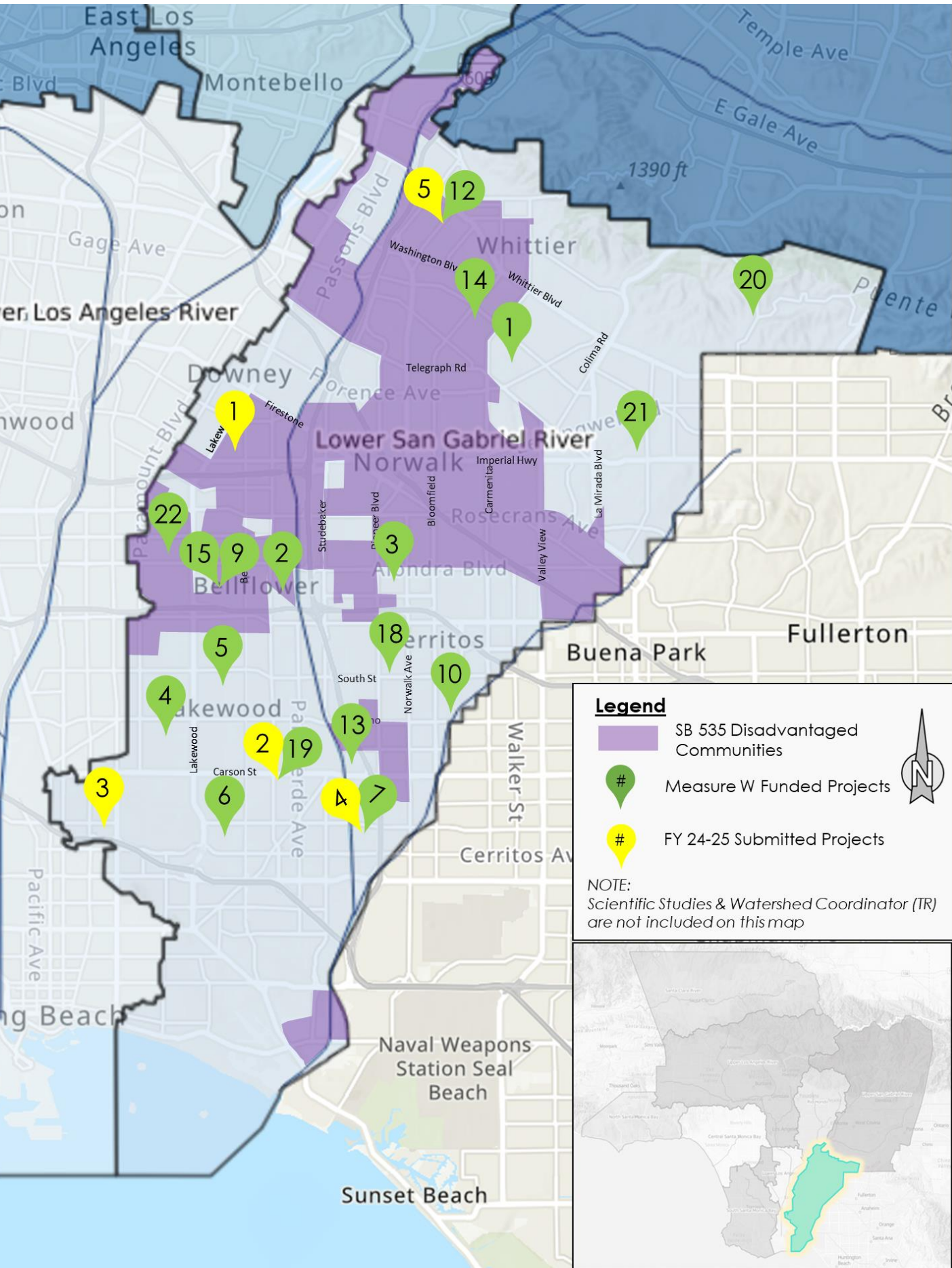
LSGR WATERSHED SCWP PROJECTS APPROVED FOR MEASURE W FUNDING



Project Name	DAC Benefit	BMP Type	Planning/Design	Construction	O&M	Technical Resource/ Scientific Study	Cost Share	Measure W Funding	SIP Year	Project Developer
			\$M	\$M	\$M	\$M	\$M	\$M		
1 Adventure Park Multi-Benefit Stormwater Capture	N	D		\$ 13.5			\$ 15.0	\$ 13.5	20-21	Unincorp. County Area of Whittier
2 Caruthers Park	Y	I			\$ 0.9		\$ 13.0	\$ 0.9	20-21	Bellflower
3 Hermosillo Park	Y	I	\$ 4.1	\$ 16.0				\$ 20.1	20-21	Norwalk
4 Bolivar Park	Y	I			\$ 1.3		\$ 11.0	\$ 1.3	20-21	Lakewood
5 Mayfair Park	Y	T			\$ 1.3		\$ 15.0	\$ 1.3	20-21	Lakewood
6 Skylinks Golf Course at Wardlow Stormwater Capture Project	N	T	\$ 2.7	\$ 7.8				\$ 10.4	20-21	Long Beach
7 El Dorado Regional Project	Y	T	\$ 3.0				\$ 0.1	\$ 3.0	20-21	Long Beach
8 Watershed Coordinator	N/A	TR				\$ 1.0		\$ 1.0	20-21	LACFCO
9 Bellflower Simms Park Stormwater Capture	Y	T	\$ 2.1				\$ 5.6	\$ 2.1	21-22	Bellflower
10 Cerritos Sports Complex	Y	T	\$ 2.4					\$ 2.4	21-22	Cerritos
11 Gateway Area Path Finding Analysis	N/A	SS				\$ 0.1		\$ 0.1	21-22	GWMA
12 Sorensen Park Multi-Benefit	Y	TR				\$ 0.3		\$ 0.3	21-22	LA County PW
13 Lakewood Equestrian Center	Y	T	\$ 1.1				\$ 0.4	\$ 1.1	22-23	Lakewood
14 York Field Stormwater Capture	Y	I	\$ 1.9				\$ 0.6	\$ 1.9	22-23	Whittier
15 Bellflower Simms Park Stormwater Capture	Y	T		\$ 13.7			\$ 0.9	\$ 13.7	22-23	Bellflower
16 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
18 Artesia Park Urban Runoff Capture	Y	T	\$ 1.6					\$ 1.6	23-24	Artesia
19 Heartwell Park at Palo Verde Channel Stormwater Capture	N	T	\$ 1.5	\$ 1.8				\$ 3.3	23-24	Long Beach
20 La Habra Heights Stormwater Treatment and Reuse	Y	BF		\$ 0.7				\$ 0.7	23-24	La Habra Heights
21 La Mirada Creek Park	N	BR		\$ 5.8			\$ 1.0	\$ 5.8	23-24	La Mirada
22 Progress Park Stormwater Capture	Y	I	\$ 2.2				\$ 2.2	\$ 2.2	23-24	Paramount
23 Regional Pathogen Reduction	N/A	SS				\$ 1.0		\$ 1.0	23-24	GWMA
24 Targeted Human Waste Source Reduction Strategy	N/A	SS				\$ 0.5		\$ 0.5	23-24	GWMA
Total			\$22.6	\$ 59.3	\$ 3.4	\$ 3.3		\$ 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
 Small Sized Project

LSGR – FY 24-25 PROJECTS APPLICATIONS



Legend

- SB 535 Disadvantaged Communities
- Measure W Funded Projects
- FY 24-25 Submitted Projects

NOTE:
Scientific Studies & Watershed Coordinator (TR) are not included on this map

Project Name	DAC Benefit	BMP Type	Planning/Design	Construction	O&M	Technical Resource/ Scientific Study	Cost Share	Measure W Funding	Estimated Score	Project Developer
			\$M	\$M	\$M	\$M	\$M			
1 Independence Park Runoff Capture Facility	Y	I	\$ 1.3					\$ 1.3	72	Downey
2 Heartwell Park at Clark Channel Stormwater Capture	N	i	\$ 2.9					\$ 2.9	66	Long Beach
3 Reservoir Park Stormwater Capture Project	N	I	\$ 1.0	\$ 5.7				\$ 6.7	69	Signal Hill
4 El Dorado Park Regional Stormwater Capture Project	N	BF/D		\$ 37.4				\$ 37.4	64	Long Beach
5 Sorensen Park Multi-Benefit Stormwater Capture Project	Y	I	\$ 1.6					\$ 1.6	67	LA County PW
6 Application of Innovative Tech. for Microbiological Testing in LCC	N/A	SS				\$ 1.3		\$ 1.3		TBD
7 Identify Best Practices for Maintaining Stormwater Drywell Capacity	N/A	SS				\$ 0.5		\$ 0.5		CSU Pomona
Total			\$ 6.8	\$43.1	\$ -	\$ 1.8		\$ 51.7		

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

LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT HEARTWELL PARK AT CLARK 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 DISADVANTAGED COMMUNITY(DAC)? No

BENEFITS DAC? Yes

PRELIMINARY SCORE: 66

TOTAL MEASURE W FUNDING REQUEST: \$2,864,4725

FUNDING YEAR **AMOUNT**

Year 1 \$2,864,472 (Design)

COST SHARE? No

TOTAL CONSTRUCTION COST: \$11,956,920

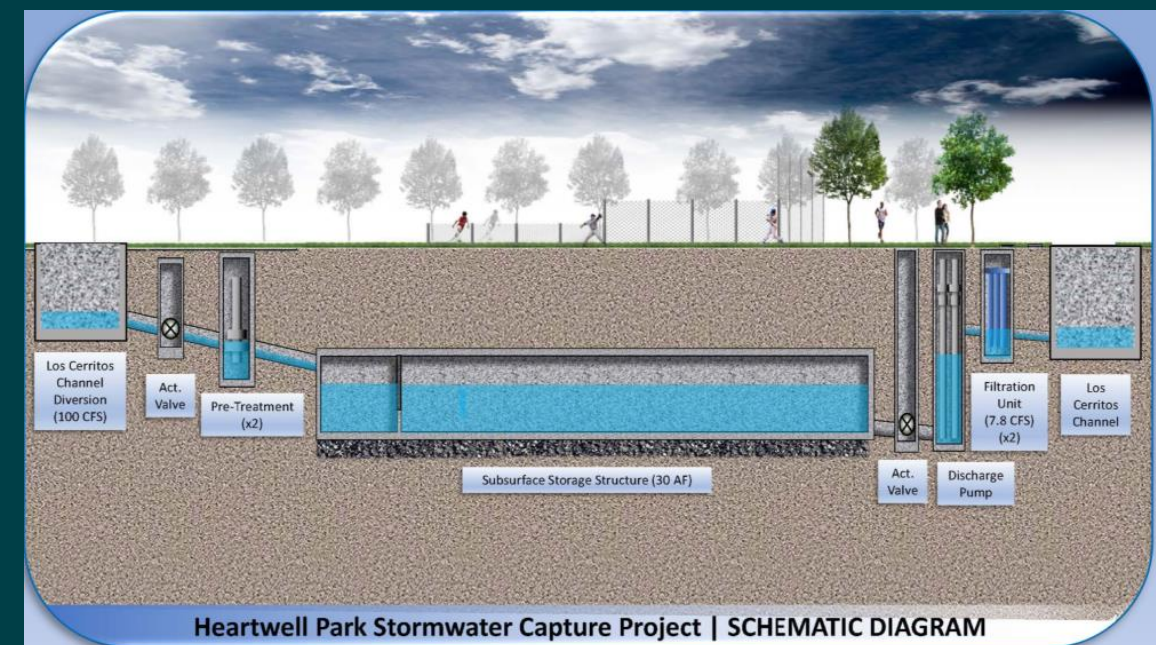
PROJECT FEATURES:

- Captures water from 1,881 acres
- Enhance/Restore Park Space
- Improves Public Access to Waterways
- Enhance Recreational Opportunities
- Reduce Heat Local Island Effect
- Increase Tree Count

DRAFT



WATER QUALITY IMPROVEMENT	
Primary Pollutant Zinc Reduction Achieved (% Zn reduction)	111 lb/yr (92.5%)
Secondary Pollutant Copper Reduction Achieved (% Cu reduction)	26.6 lb/yr (90.5%)
Design Diversion Rate	100 CFS
Storage Capacity for Subsurface Storage Structure	30.0 ac-ft (9.78 MG)
24-Hour Capacity	61.10 ac-ft
Construction Cost Estimate	\$42,833,433



Heartwell Park Stormwater Capture Project | SCHEMATIC DIAGRAM

LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT RESERVOIR PARK STORMWATER CAPTURE FACILITY

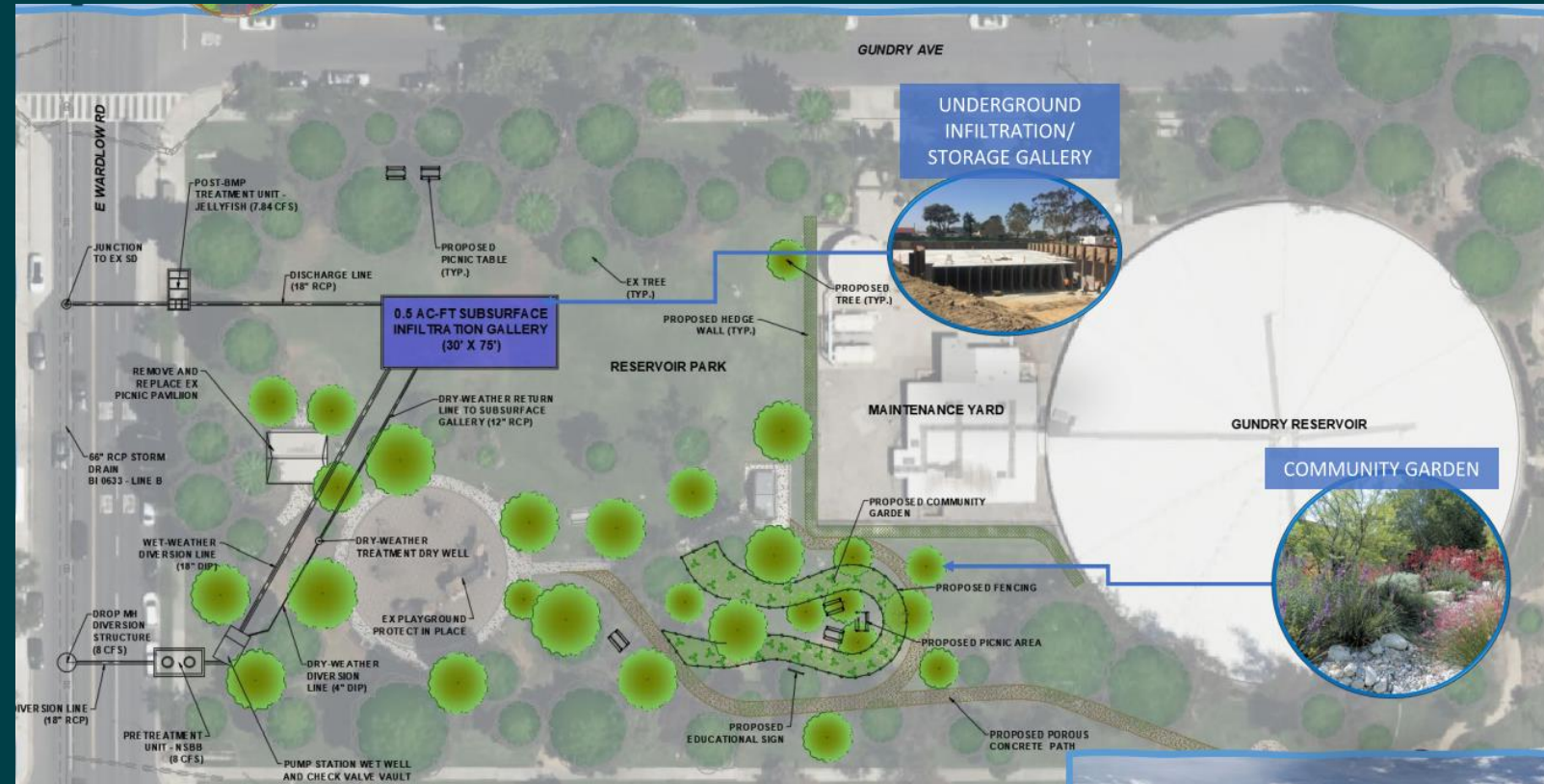


Regional stormwater capture, infiltration/filtration facility, and new park equipment/community garden at Reservoir Park.

PROJECT LEAD:	City of Signal Hill
BMP TYPE:	Infiltration Facility
LOCATED IN DISADVANTAGED COMMUNITY(DAC)?	No
BENEFITS DAC?	No
PRELIMINARY SCORE:	69
TOTAL MEASURE W FUNDING REQUEST:	\$6,676,878
FUNDING YEAR	AMOUNT
Year 1	\$951,843 (Design)

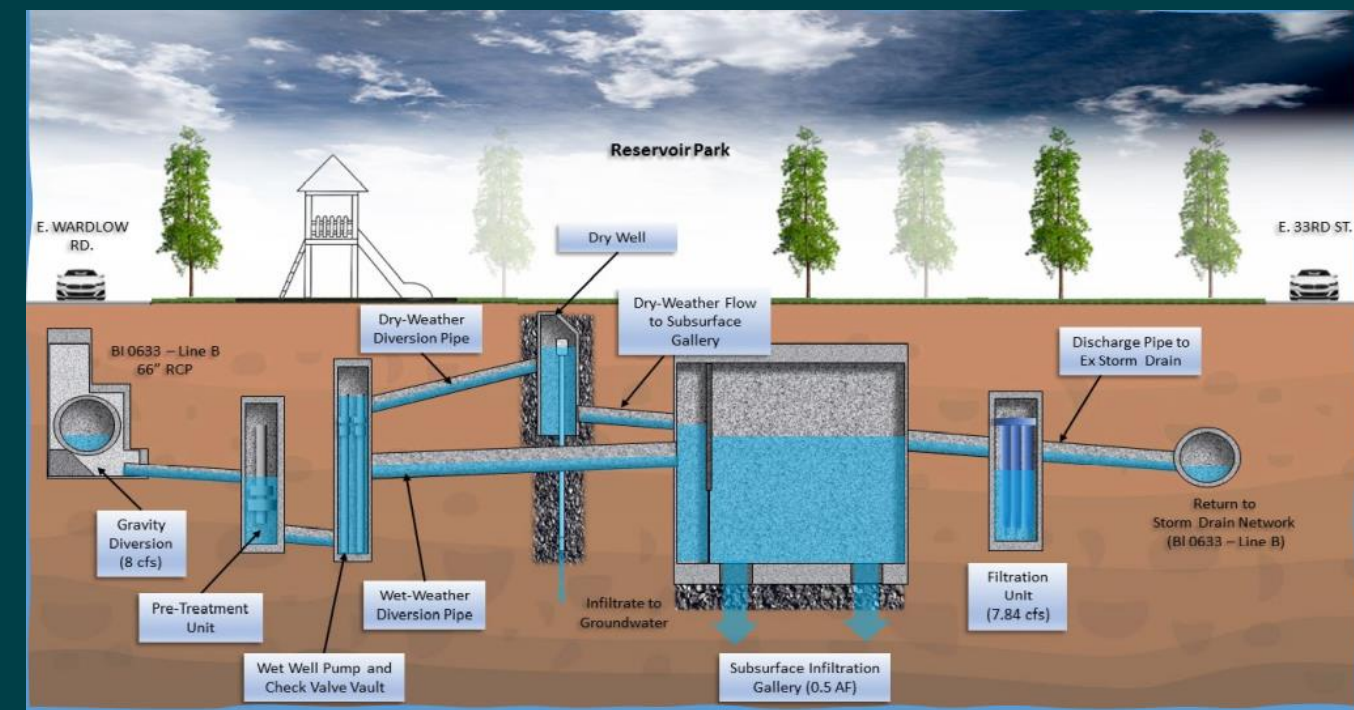
COST SHARE?	No
TOTAL CONSTRUCTION COST:	\$5,725,035

- PROJECT FEATURES:**
- Captures water from 184 acres
 - Additional Shading
 - Reduce Heat Island Effect
 - Improve Water Quality
 - Improve Park Facility



DRAINAGE AREA CHARACTERISTICS	
REGIONAL WATER MANAGEMENT PLAN	Los Cerritos Channel Watershed
TOTAL DRAINAGE AREA	183.6 AC Signal Hill (42.8%) Long Beach (57.2%)
INFILTRATION RATE	0.3 in/hr
GROUNDWATER BASIN BELOW SITE:	Central Basin
MODELED AVERAGE ANNUAL RUNOFF VOLUME	78.6 acre-ft

WATER QUALITY IMPROVEMENT	
PRIMARY POLLUTANT (ZINC) POLLUTANT REDUCTION	36.34 lb/yr (80.03%)
SECONDARY POLLUTANT (COPPER) POLLUTANT REDUCTION	9.29 lb/yr (81.21%)
DESIGN DIVERSION RATE	8 CFS
STORAGE CAPACITY FOR SUBSURFACE STORAGE STRUCTRE	0.5 acre-ft (0.16 MG)
24-HOUR CAPACITY	16.08 acre-ft
CONSTRUCTION COST ESTIMATE	\$5,125,487



LSGR WATERSHED AREA FY23-24 PROJECT APPLICANT EL DORADO REGIONAL STORMWATER CAPTURE PROJECT



Regional stormwater capture, surface ponds, diversion to sanitary sewer, and filtration facility at El Dorado Regional Park.

PROJECT LEAD: City of Long Beach
BMP TYPE: Biofiltration, Diversion to Sanitary Sewer

LOCATED IN DISADVANTAGED COMMUNITY(DAC)? No

BENEFITS DAC? No

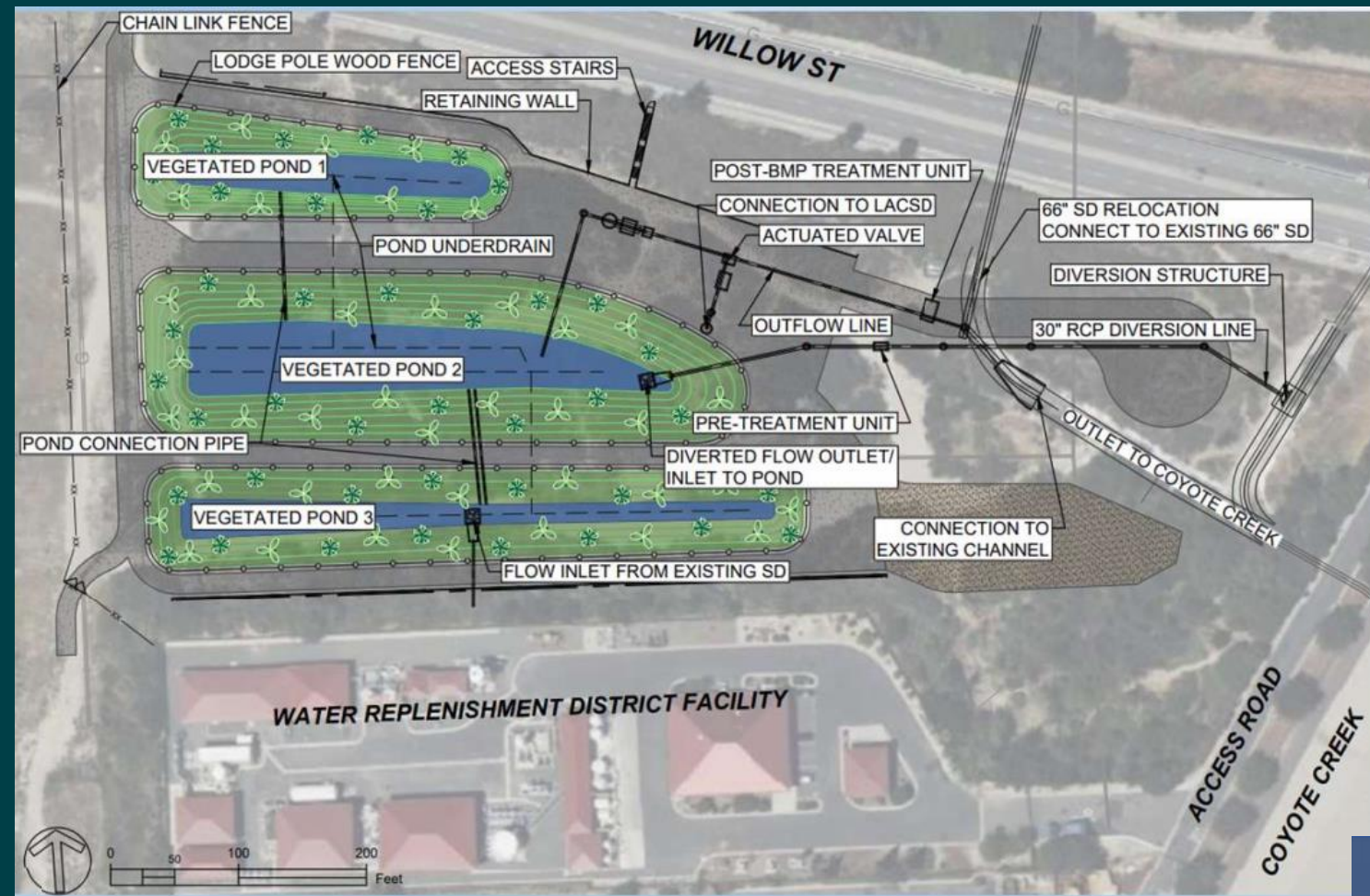
PRELIMINARY SCORE: 64

TOTAL MEASURE W FUNDING REQUEST: \$37,386,870

FUNDING YEAR	AMOUNT
Year 1	\$9,346,718 (Const)
Year 2	\$9,346,718 (Const)
Year 3	\$9,346,717 (Const)
Year 4	\$9,346,717 (Const)

COST SHARE? No

CONSTRUCTION COST: \$37,386,870



PROJECT FEATURES:

- Captures water from 2,874 acres
- Improves Water Quality
- Increases Shade and Trees
- Reduces Heat Island Effects
- Enhance Habitat Space

DRAINAGE AREA CHARACTERISTICS	
REGIONAL WATER MANAGEMENT PLAN	Lower San Gabriel River Watershed
TOTAL DRAINAGE AREA	2874 AC Long Beach: (15%) Artesia: (15%) Cerritos: (26%) Hawaiian Gardens: (16%) Lakewood: (23%) Norwalk: (5%)
APPROX. DEPTH TO GROUNDWATER	12 ft BGS
MODELED AVERAGE ANNUAL RUNOFF VOLUME	1211 acre-ft

WATER QUALITY IMPROVEMENT	
TRIBUTARY DRY WEATHER FLOWS CAPTURED (%)	100%
DRY WEATHER BMP TRIBUTARY SIZE	2,874 acres
DESIGN DIVERSION RATE	20 CFS
STORAGE CAPACITY FOR SURFACE STORAGE STRUCTRE	10.3 acre-ft (3.36 MG)
ESTIMATED AVERAGE DRY WEATHER FLOW RATE	0.04 cfs
CONSTRUCTION COST ESTIMATE	\$37,386,870

LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT

SORENSEN PARK MULTI-BENEFIT STORMWATER CAPTURE PROJECT

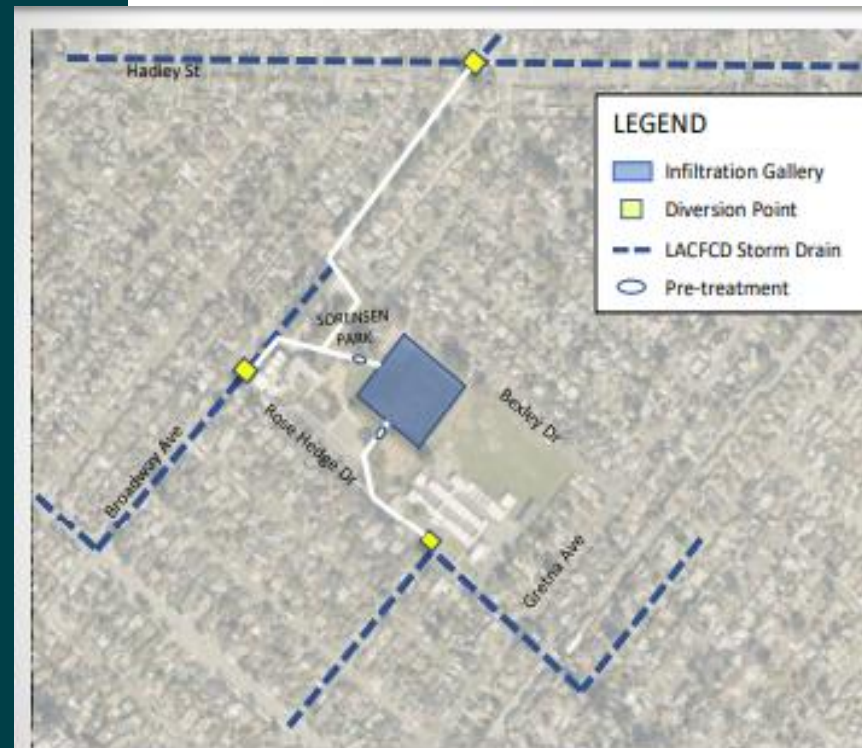


The project will involve construction of a stormwater storage and infiltration facility at Sorensen Park, in unincorporated South Whittier.

PROJECT LEAD:	LA County PW
BMP TYPE:	Infiltration
LOCATED IN DISADVANTAGED COMMUNITY(DAC)?	No
BENEFITS DAC?	Yes
PRELIMINARY SCORE:	67
TOTAL MEASURE W FUNDING REQUEST:	\$1,616,592
FUNDING YEAR	AMOUNT
Year 1	\$1,616,592 (Design)
COST SHARE?	No
TOTAL CONSTRUCTION COST:	\$32,231,833

PROJECT FEATURES:

- Captures water from 617 acres
- Increase Water Supply
- Improves Stormwater Quality
- Enhances Habitat or Park Space
- Increases Shade and Trees
- Reduces Heat Island Effects



Potential BMPs

- Infiltration Gallery
- Bioretention
- Biofiltration
- Bioswales
- Drywells
- Permeable Pavement

Proposed Feasibility Study

- Geotechnical Investigation
- Contamination Assessment
- Preliminary Design Plans
- Hydrology Analysis
- Identify suitable BMPs



DRAFT





LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT INDEPENDENCE PARK RUNOFF CAPTURE FACILITY



Regional stormwater capture facility at Independence Park.

PROJECT LEAD: City of Downey

BMP TYPE: Infiltration Facility

LOCATED IN DISADVANTAGED COMMUNITY(DAC)? No

BENEFITS DAC? No

PRELIMINARY SCORE: 72

TOTAL MEASURE W FUNDING REQUEST: \$1,310,458

FUNDING YEAR AMOUNT

Year 1 \$1,310,458 (Design)

COST SHARE? No

TOTAL CONSTRUCTION COST: \$11,937,061

PROJECT FEATURES:

- Captures water from 560 acres
- Bioswale and Permeable Pavement
- Reduce Heat Island Effect
- Improve Water Quality
- Improve Park Facility

DRAINAGE AREA CHARACTERISTICS	
REGIONAL WATER MANAGEMENT PLAN	Lower San Gabriel River Watershed
TOTAL DRAINAGE AREA	560 AC Downey (100%)
INFILTRATION RATE	0.5 in/hr
APPROX. DEPTH TO GROUNDWATER	52 ft BGS
MODELED AVERAGE ANNUAL RUNOFF VOLUME	223.7 acre-ft

WATER QUALITY IMPROVEMENT	
PRIMARY POLLUTANT (ZINC) POLLUTANT REDUCTION	144.218 lb/yr (90.47%)
SECONDARY POLLUTANT (COPPER) POLLUTANT REDUCTION	36.158 lb/yr (89.26%)
DESIGN DIVERSION RATE	28.34 CFS
STORAGE CAPACITY FOR SUBSURFACE STORAGE STRUCTRE	4.45 acre-ft (1.45 MG)
24-HOUR CAPACITY	8.57 acre-ft
CONSTRUCTION COST ESTIMATE	\$10,670,055

4.2 AC-FT UNDERGROUND INFILTRATION BASIN

NEW NATIVE VEGETATION

.25 AC-FT BIORETENTION BASIN

B10615 STORM DRAIN

DIVERSION LINE AND PRE-TREATMENT

PROPOSED TREES

EXISTING TREES

LIMIT OF WORK

INDEPENDENCE PARK

B13150 LINE A STORM DRAIN

DIVERSION LINE AND PRE-TREATMENT

OUTLET LINE AND POST-TREATMENT

BELFLOWER BLVD

DUNROBIN AVE

PARKING LOT WITH PERMEABLE PAVEMENT AND PLANTER BOXES

DECOMPOSED GRANITE PATH

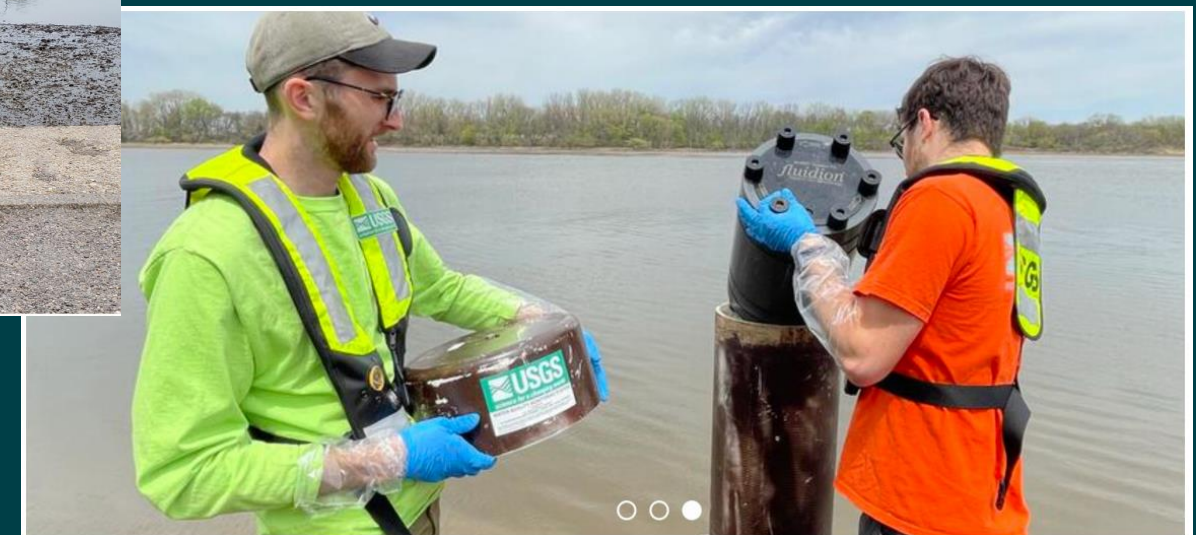
NEW FIELD LIGHTING

LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT APPLICATION OF INNOVATIVE TECHNOLOGY FOR MICROBIOLOGICAL TESTING IN THE LOS CERRITOS CHANNEL WATERSHED



Automated mobile analyzers in the Los Cerritos Channel Watershed for timely bacterial data, improved monitoring, and faster response time.

PROJECT LEAD:	TBD
MEASURE W FUNDING REQUEST FROM LSGR WATERSHED:	\$ 1,218,814
<u>FUNDING YEAR</u>	<u>AMOUNT</u>
Year 1	\$488,595
Year 2	\$366,889
Year 3	\$363,330
COST SHARE:	No



Study Objective:

- Conduct side-by-side studies of data collected with rapid in-situ and mobile analyzers compared with data gathered through current monitoring and analytical methods.
- Demonstrate the advantages of a whole sample approach, capable of capturing both particle-bound and planktonic microorganisms, compared to currently used MPN methods.
- Demonstrate how the use of automated, rapid, in-situ and mobile analyzers can improve the ability to conduct forensic monitoring to locate sources of fecal contamination.
- Demonstrate how the use of automated mobile analyzers can significantly improve the timeliness of operational responses to the discovery of pollutant discharges.
- Develop local capability (within Los Angeles County) for quantifying specific human marker DNA/RNA concentrations, using Loop-mediated isothermal AMPlification (LAMP), to support local studies and implement in future portable analyzers.
- Facilitate the collection of paired FIB and human marker data to accelerate the use of human markers for determining human health risk levels.
- Determine how the use of automated mobile analyzers could be integrated into the Regional Pathogen Reduction Scientific Study to help improve its accuracy and usefulness.
- Determine whether the use of automated mobile analyzers should be encouraged in SCW Scientific Study Summary

LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT IDENTIFYING BEST PRACTICES FOR MAINTAINING STORMWATER DRYWELL CAPACITY



Evaluation of alternative well designs, existing pre-treatment practices, maintenance intervals for maintaining stormwater drywell capacity.

PROJECT LEAD:

CA State Polytechnic Univ.
Pomona

WATERSHED AREAS

North Santa Monica Bay,
Central Santa Monica Bay,
South Santa Monica Bay,
Rio Hondo, Santa Clara
River, Upper LA River,
Lower LA River, Upper SGR,
Lower SGR

**TOTAL MEASURE W
FUNDING REQUEST FOR ALL
WATERSHED:**

\$4,951,453.00

**MEASURE W FUNDING
REQUEST FROM LSGR
WATERSHED:**

\$ 408,871

FUNDING YEAR

AMOUNT

Year 1

\$79,989

Year 2

\$81,181

Year 3

\$82,176

Year 4

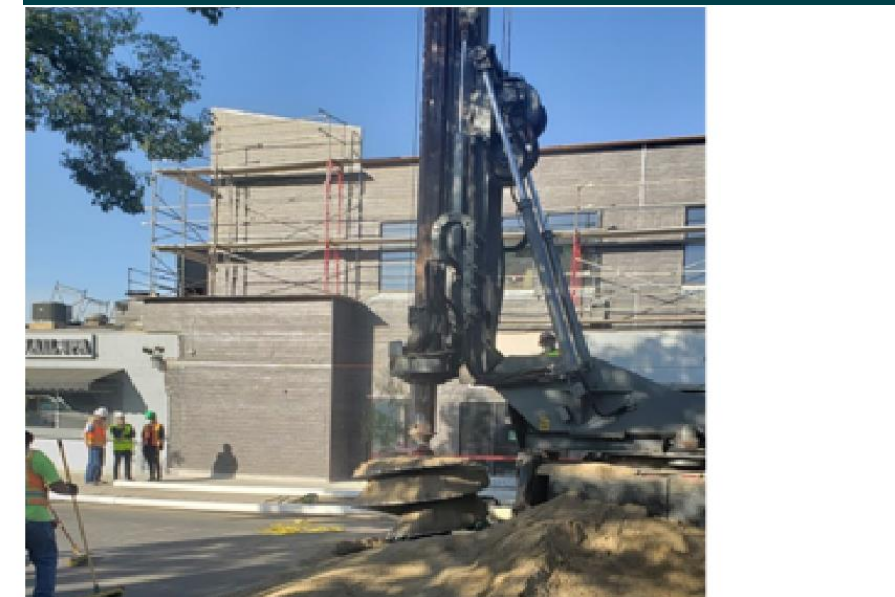
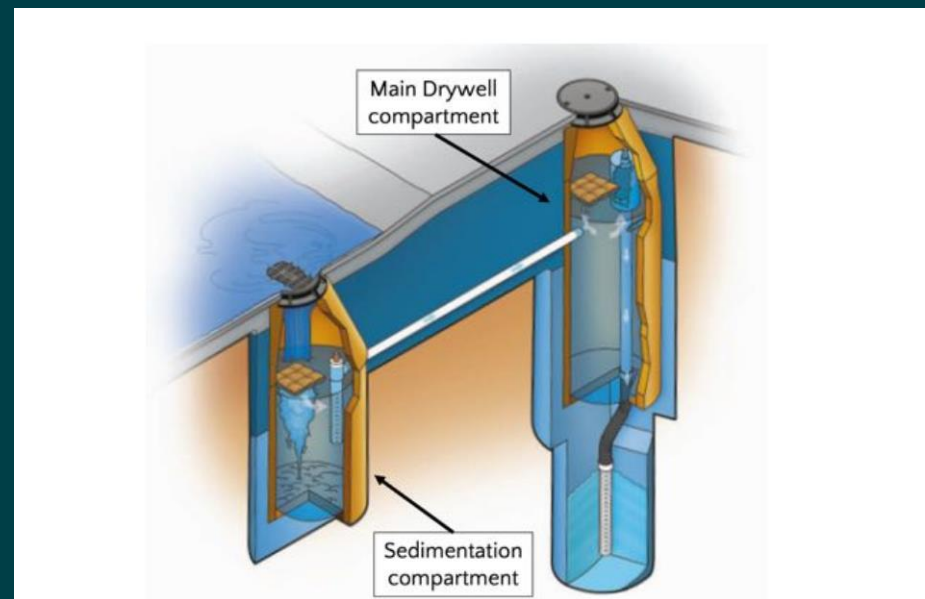
\$80,937

Year 5

\$84,588

COST SHARE:

No



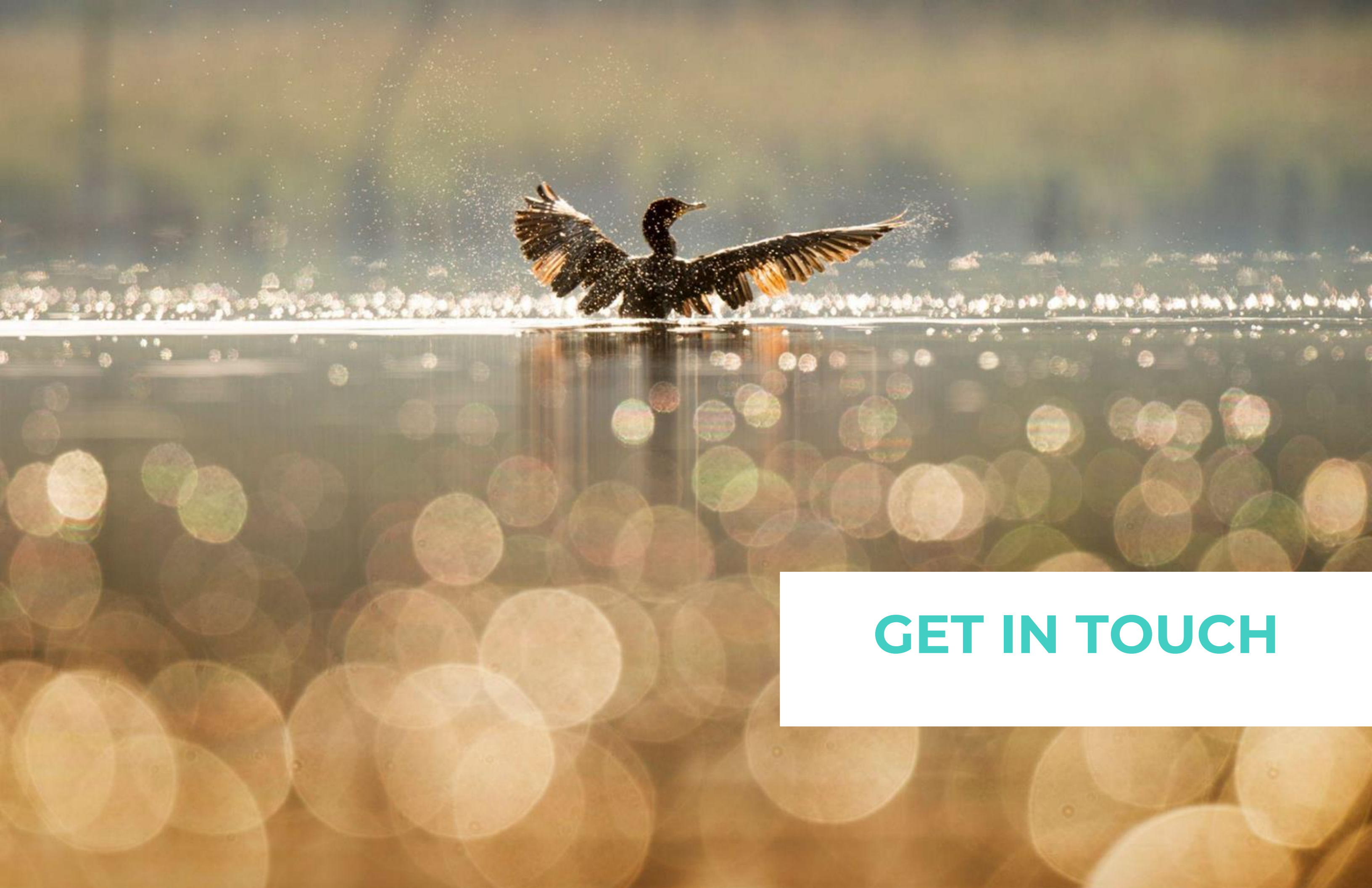
Study Objective:

- Evaluate commonly used drywell design and construction methods and determine which method provides the best balance between cost and long-term performance
- Evaluate common pre-treatment practices and determine which methods provide the best balance between cost and long-term performance, including maintenance requirements
- Evaluate maintenance practices and frequency for different levels of land-use and traffic loading within the catchment basin and develop guidelines for maintenance based on land –use and traffic loading
- Determine how soil characteristics can impact long-term drywell performance and provide recommendation for design and maintenance to address fine grain soils.



QUESTIONS? DISCUSSION?





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THE END

