



SAFE CLEAN WATER PROGRAM

Lower San Gabriel
River Watershed

November 14, 2023
Watershed Coordinator
Update



SAFE
CLEAN
WATER

PRESENTED BY:

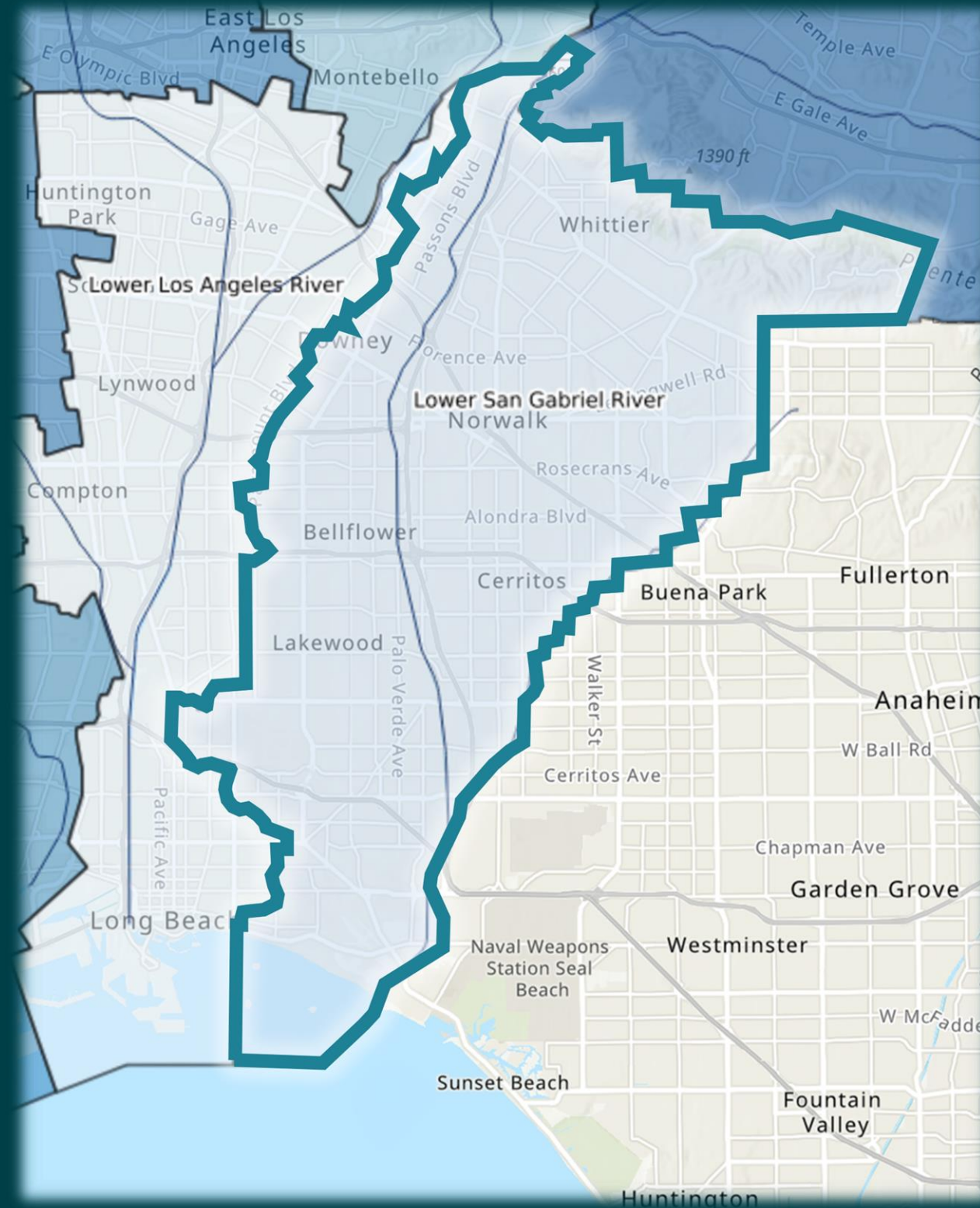
OhanaVets, Inc.
Lower San Gabriel River
Watershed Coordinator



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

- ☑ LSGR Watershed Community Small Scale Program Concept – **June, July, August, and September**
- ☑ Neighborhood Small Scale Stormwater Projects in Long Beach – **August 28th**
- ☑ Downey School District – School Site Stormwater Upgrades – **September 21st**
- ☑ Infrastructure Justice for LA – **September 22nd**
- ☐ Stormwater Speaker Series Panelist – Feb 7th

2

**Community
Engagement**

Gather input on community needs that SCW projects can help fulfill

Education Events

- ☑ Groundwater Festival at WRD – **May 6th**
- ☑ Touch-a-Truck at Whittier City Hall – **May 20th**
- ☐ Earth Walk City of Lakewood – **March 2024**
- ☐ Earth Day LA County Sanitation Districts - **April 2024**

3

Public Education

Educate the public about SCWP projects in their communities





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

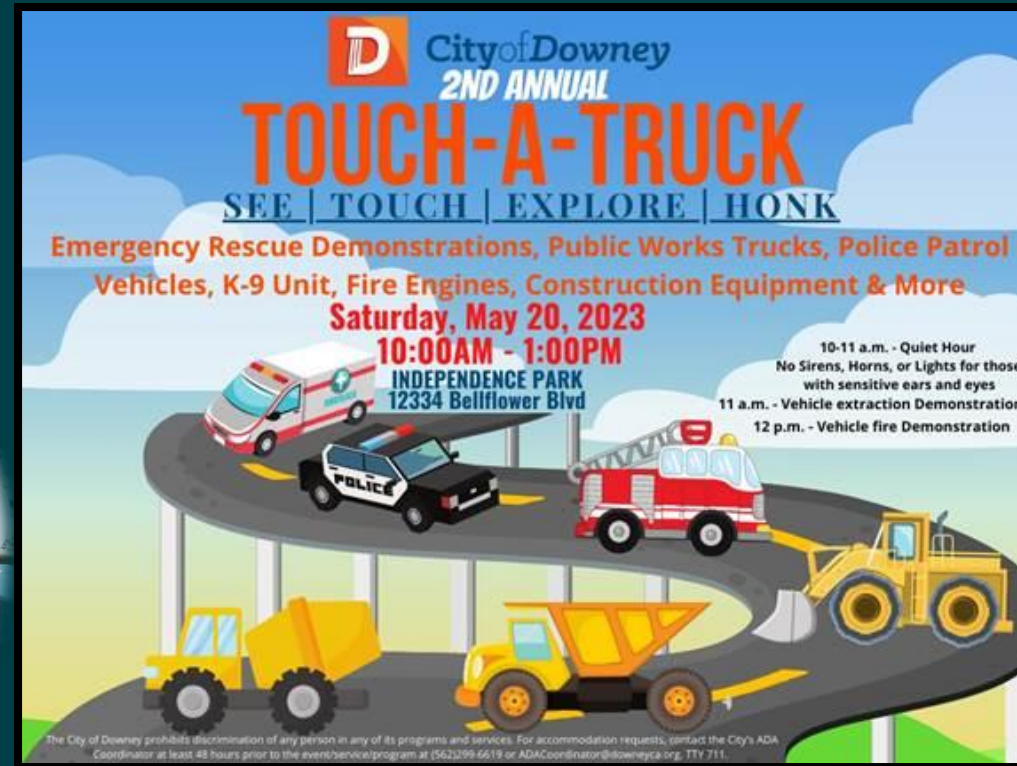
| | | | | | |
|--|--|--|---|--|---|
|  Joy Langford Division 1 |  Robert Katherman Division 2 |  John D. S. Allen Division 3 |  Sergio Calderon Division 4 |  Vera Robles DeWitt Division 5 |  Stephan Tucker General Manager |
|--|--|--|---|--|---|

4040 Paramount Blvd., Lakewood, CA 90712 | www.WRD.org | [Facebook](https://www.facebook.com/wrd) | [Instagram](https://www.instagram.com/wrd) | [TikTok](https://www.tiktok.com/@wrdsocial) | [YouTube](https://www.youtube.com/wrd) | [LinkedIn](https://www.linkedin.com/company/wrd) | [Pinterest](https://www.pinterest.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) | [Pinterest](https://www.pinterest.com/wrd)

www.wrd.org/groundwater-festival



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.

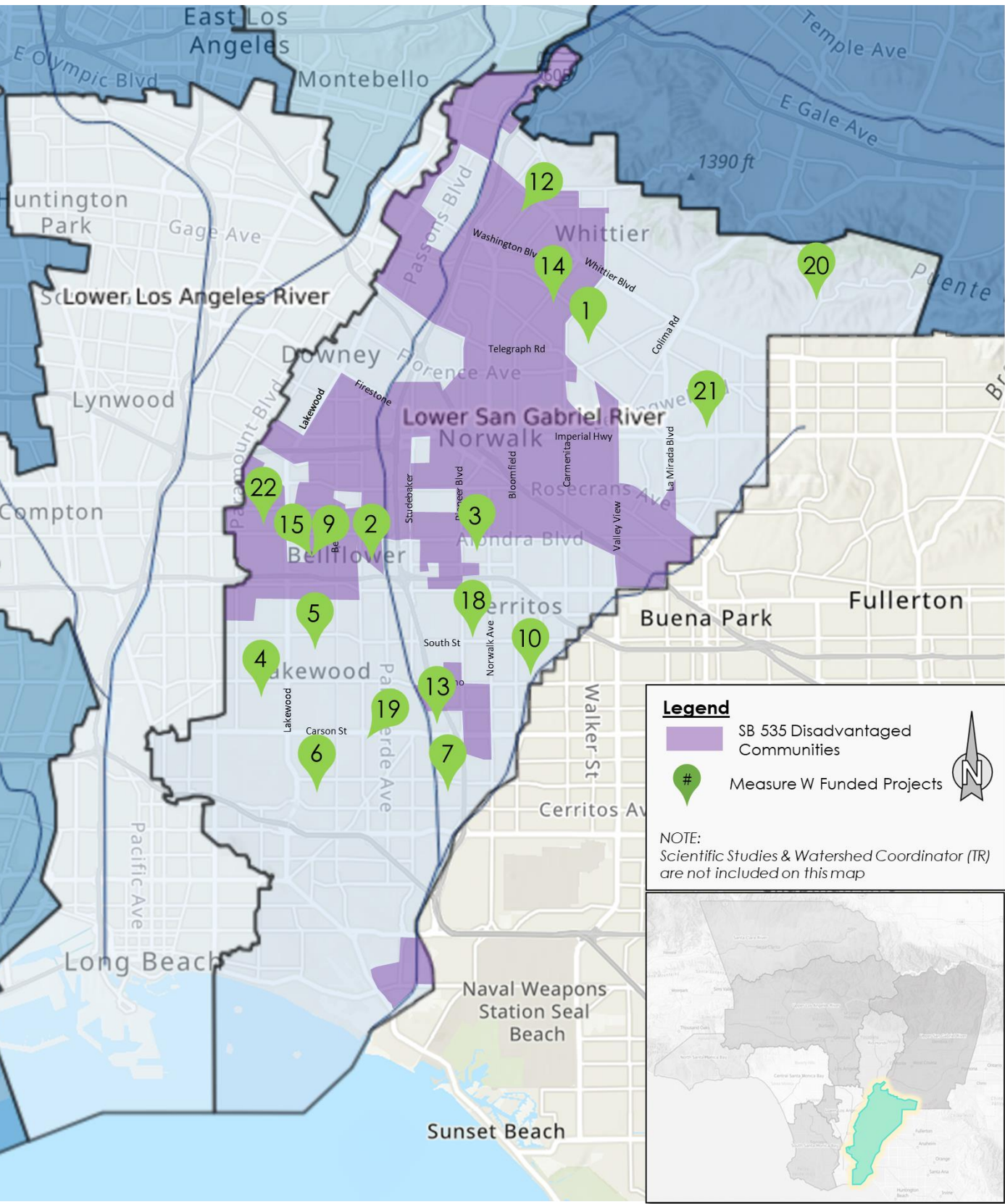
Lower San Gabriel River Watershed Area Steering Committee "LSGR WASC" Prioritization Criteria

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. |



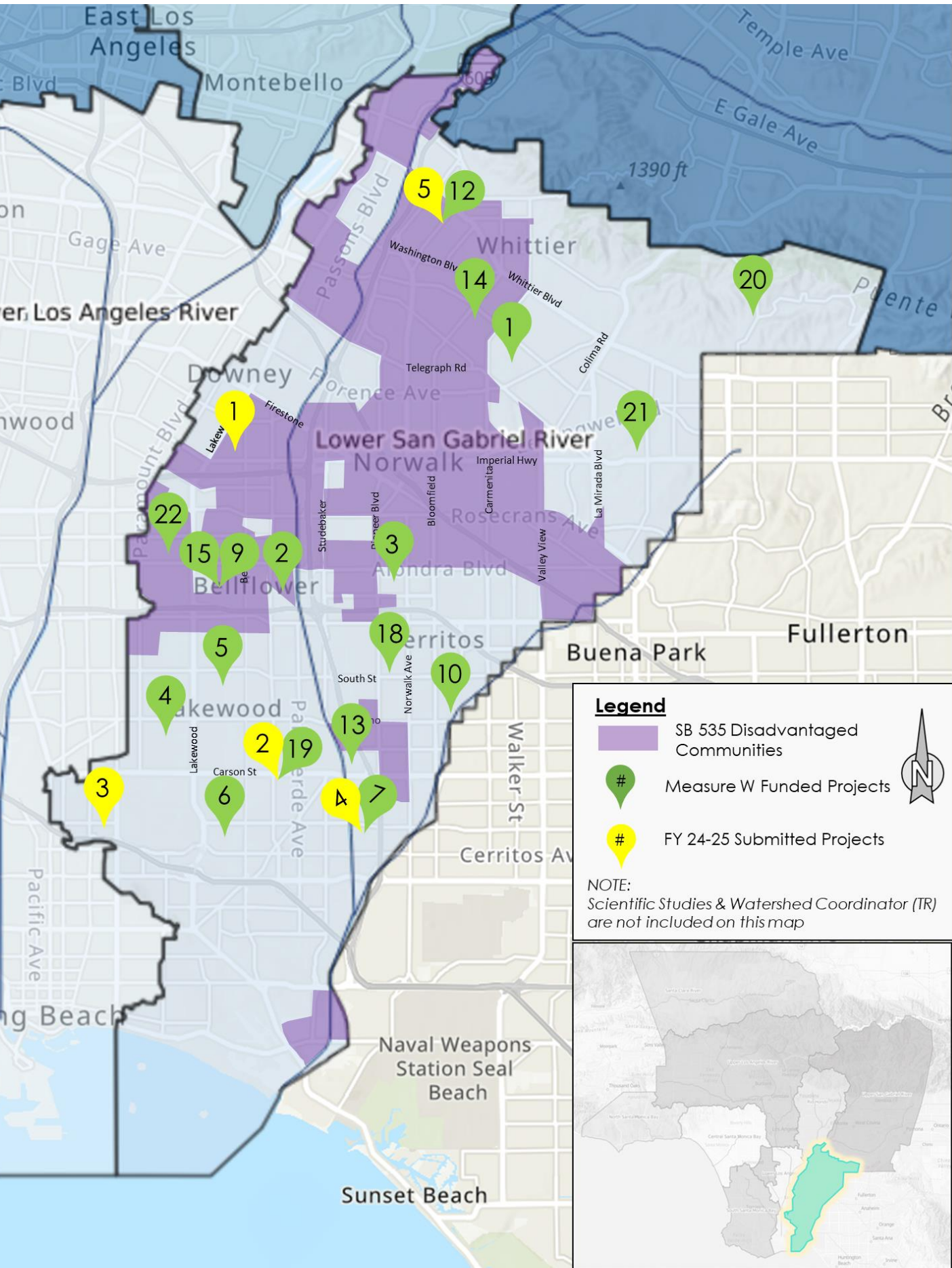
LSGR WATERSHED SCWP PROJECTS APPROVED FOR MEASURE W FUNDING



| 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

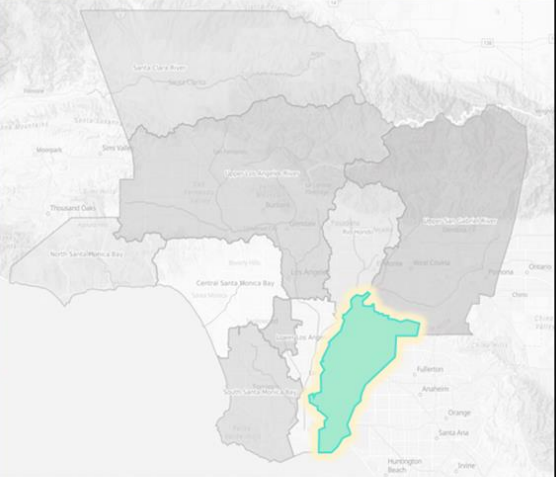
LSGR – FY 24-25 PROJECTS APPLICATIONS



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 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)? Yes

BENEFITS DAC? Yes

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 |

The site plan shows the facility layout at Independence Park, bounded by Bellflower Blvd to the west and Dunrobin Ave to the east. Key features include:

- 4.2 AC-FT UNDERGROUND INFILTRATION BASIN:** A large rectangular structure for water storage and infiltration.
- NEW NATIVE VEGETATION:** Landscaping with local plants to enhance the park's ecosystem.
- .25 AC-FT BIORETENTION BASIN:** A pond-like structure for water treatment and storage.
- Storm Drains:** B10615 Storm Drain to the north and B13150 Line A Storm Drain to the east.
- Diversion Lines and Pre-treatment:** Structures to divert runoff from the storm drains into the facility.
- Outlet Lines and Post-treatment:** Structures to manage the treated water after it leaves the facility.
- Proposed and Existing Trees:** Locations for new plantings and preservation of current trees.
- Limit of Work:** The boundary of the construction area.

Additional facility features shown in images:

- Parking Lot with Permeable Pavement and Planter Boxes:** Sustainable parking area.
- Decomposed Granite Path:** Eco-friendly walkway.
- New Field Lighting:** Modern lighting for the park's sports field.

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? No

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

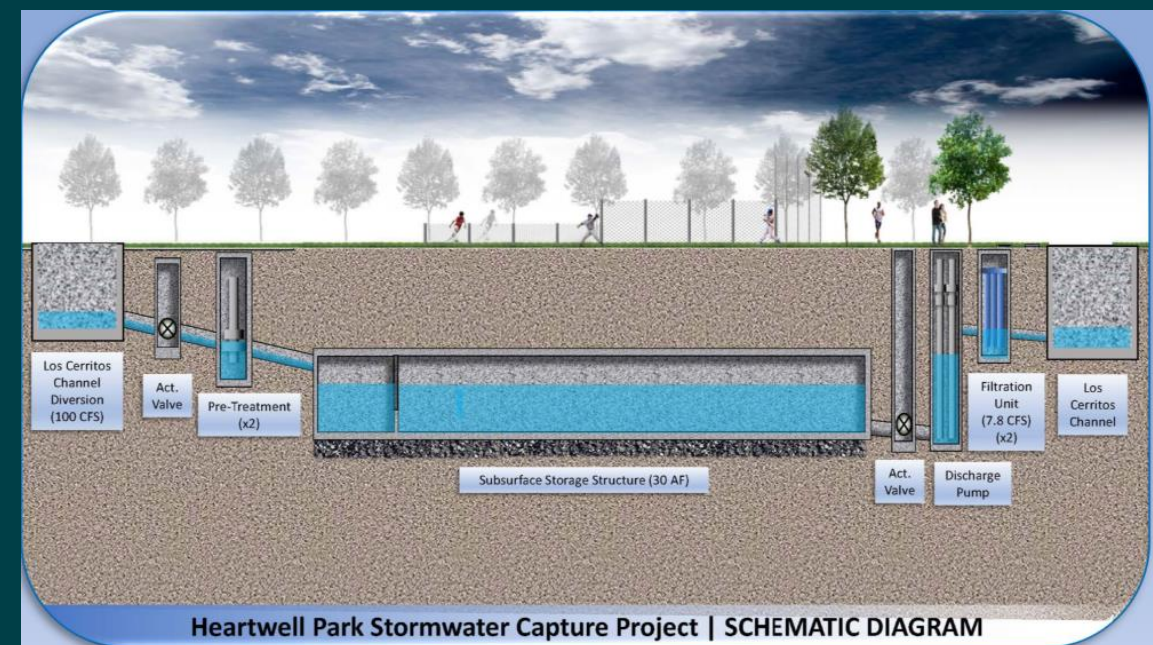
PROJECT FEATURES:

- 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

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| 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

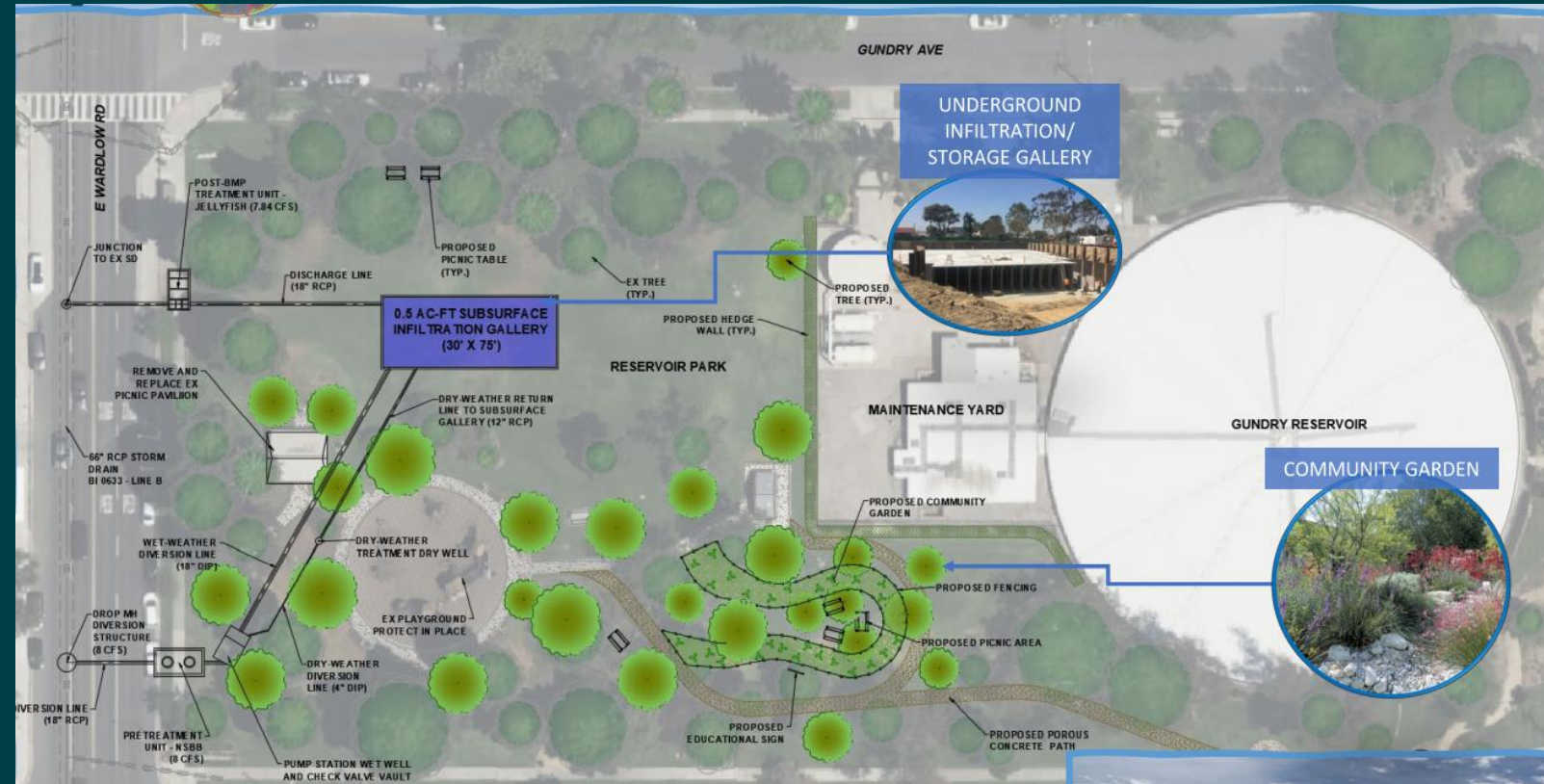


Regional stormwater capture, infiltration/filtration facility, and new park equipment/community garden at Reservoir Park.

| | |
|---|------------------------------|
| 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) |

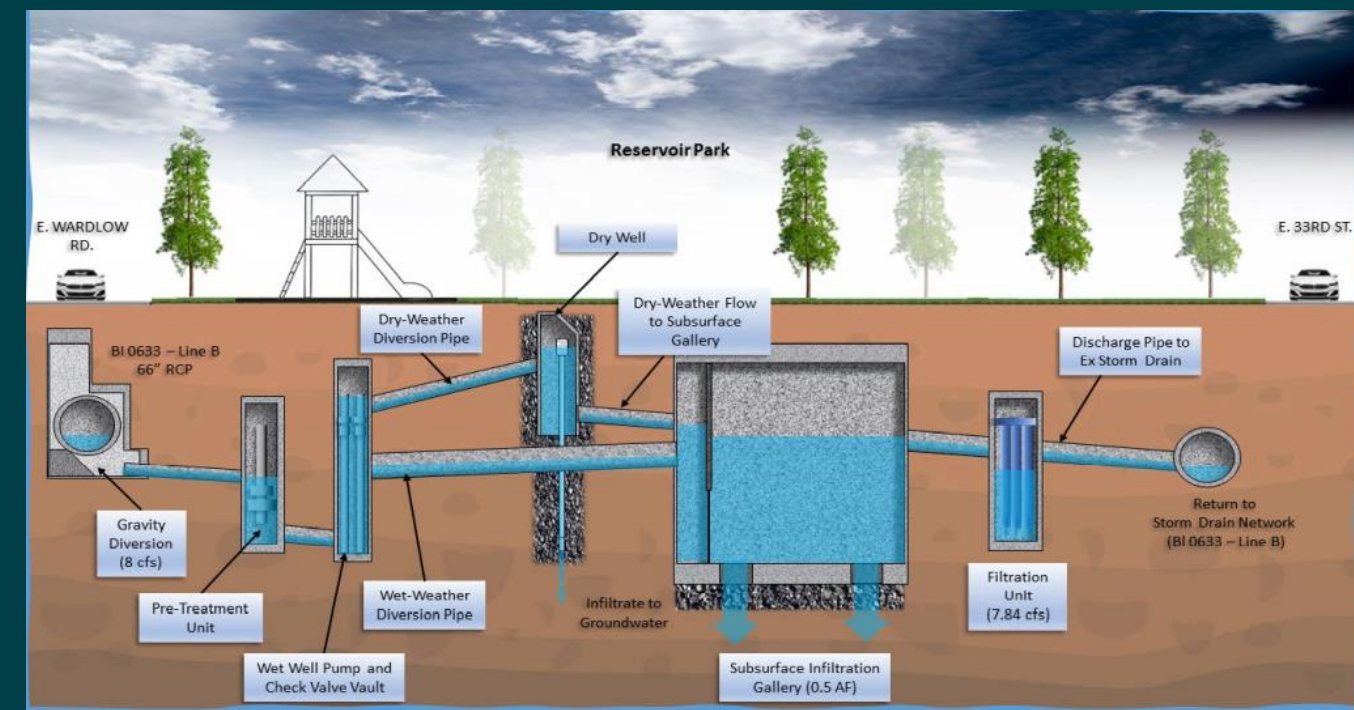
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|---------------------------------|--------------------|
| COST SHARE? | No |
| TOTAL CONSTRUCTION COST: | \$5,725,035 |

- 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

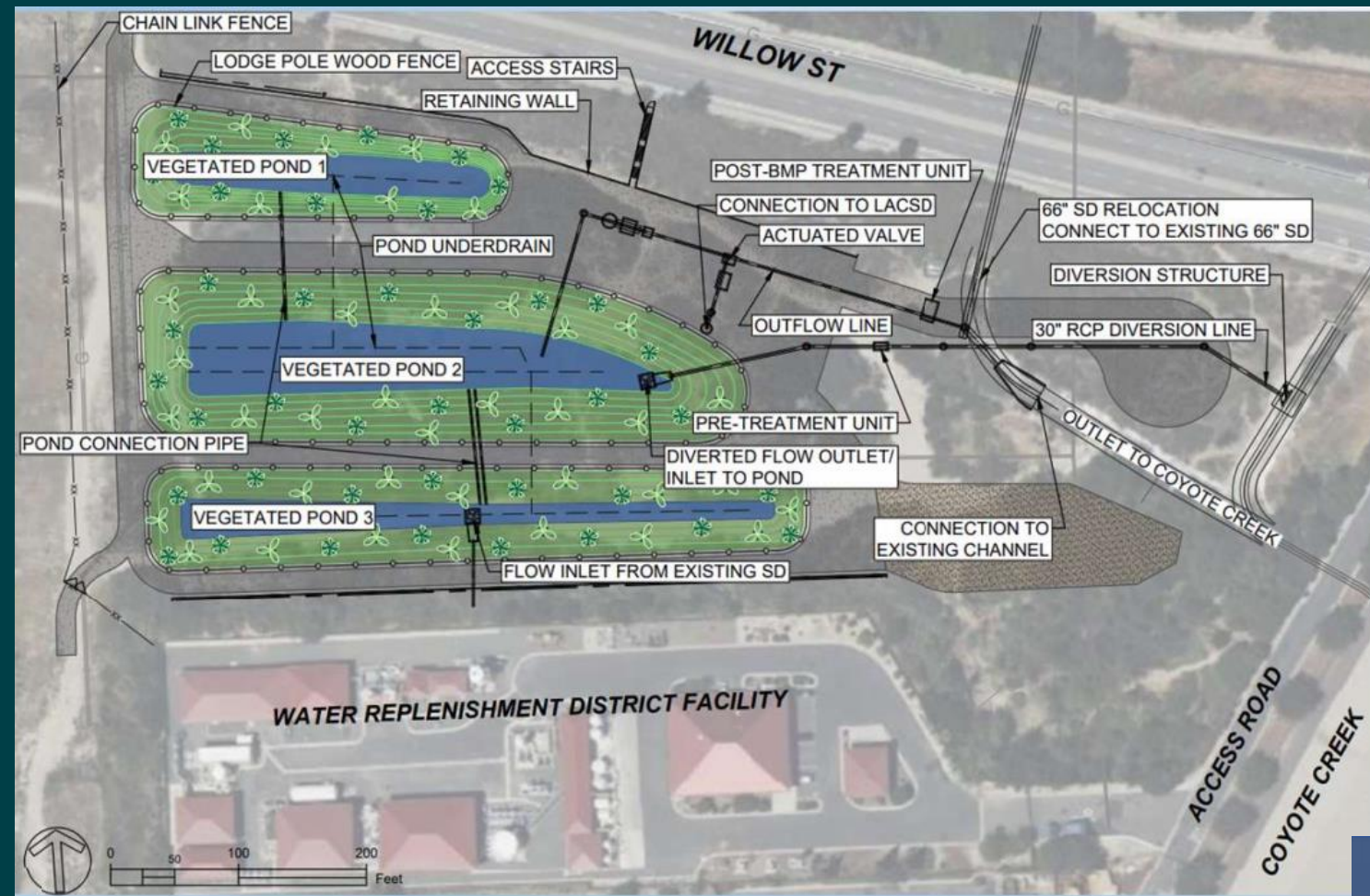
PRELIMINARY SCORE: 64

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

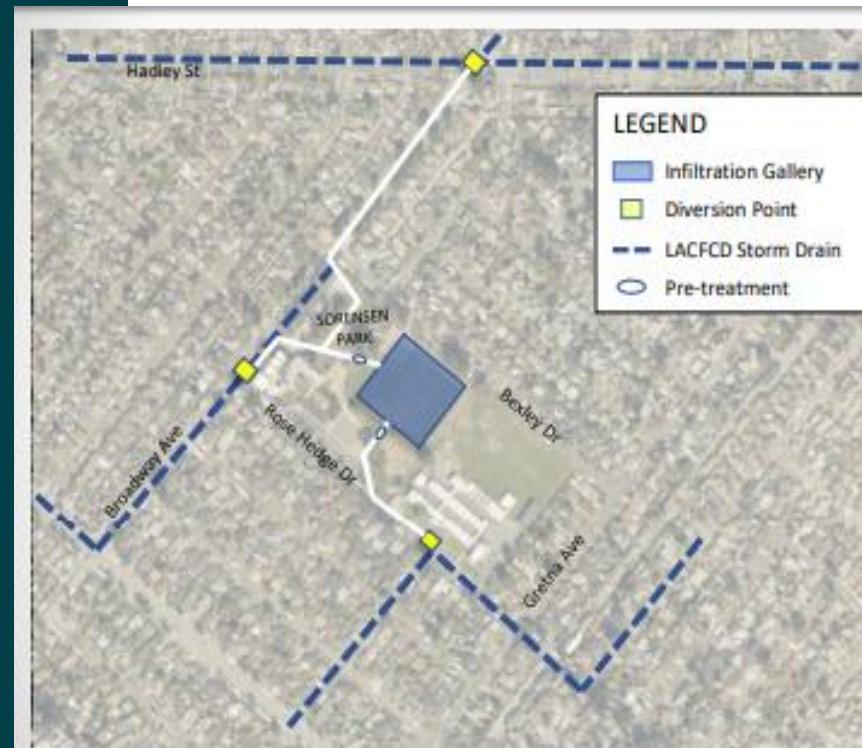


The project will involve construction of a stormwater storage and infiltration facility at Sorensen Park, in unincorporated South Whittier.

| | |
|---|----------------------|
| PROJECT LEAD: | LA County PW |
| BMP TYPE: | Infiltration |
| LOCATED IN DISADVANTAGED COMMUNITY(DAC)? | Yes |
| 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



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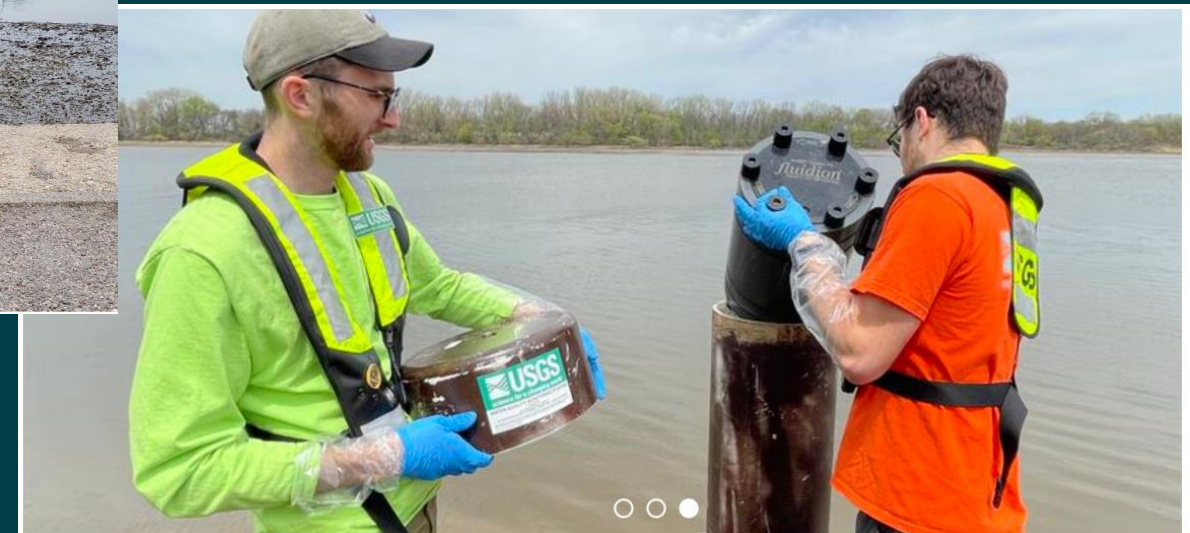


LSGR WATERSHED AREA FY24-25 PROJECT APPLICANT APPLICATION OF INNOVATIVE TECHNOLOGY FOR MICROBIOLOGICAL TESTING IN THE LOS CERRITOS CHANNEL WATERSHED



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 STORWATER 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

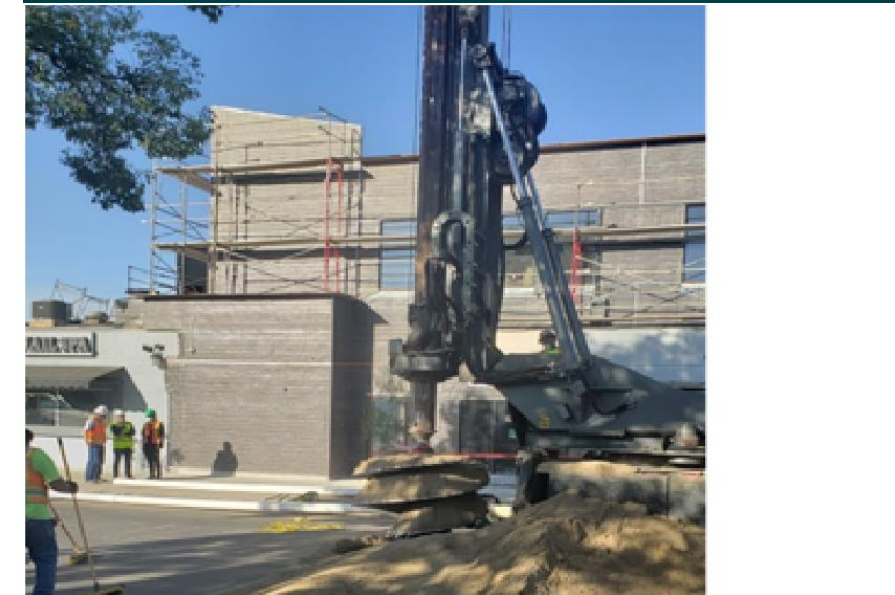
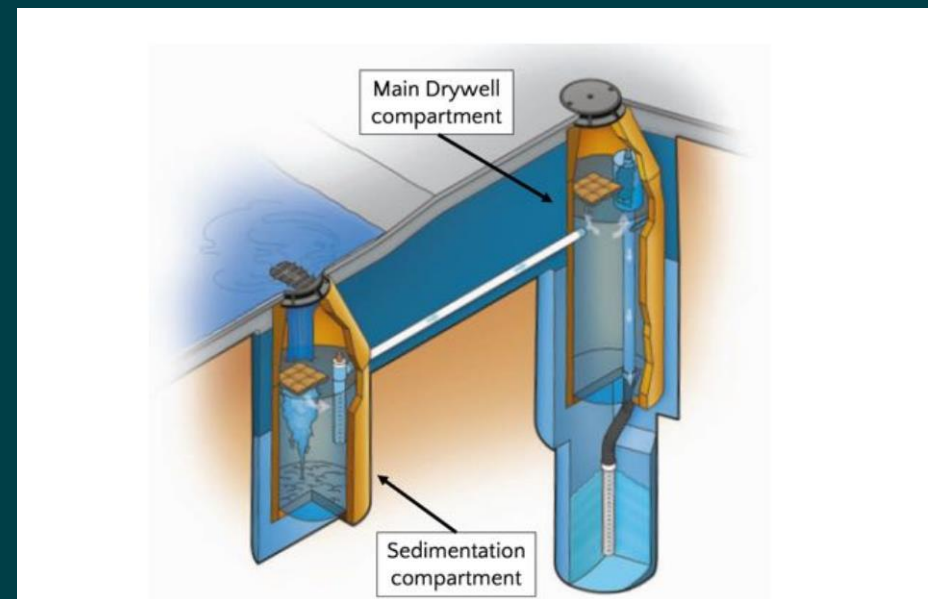
North Santa Monica Bay,
Central Santa Monica Bay,
South Santa Monica Bay,
Rio Hondo, Santa Clara
River, Upper LA River,
Lower LA River, Upper SGR,
Lower SGR

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

\$4,951,453.00

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

\$ 408,871



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.

FUNDING YEAR

AMOUNT

| | |
|--------|----------|
| Year 1 | \$79,989 |
| Year 2 | \$81,181 |
| Year 3 | \$82,176 |
| Year 4 | \$80,937 |
| Year 5 | \$84,588 |

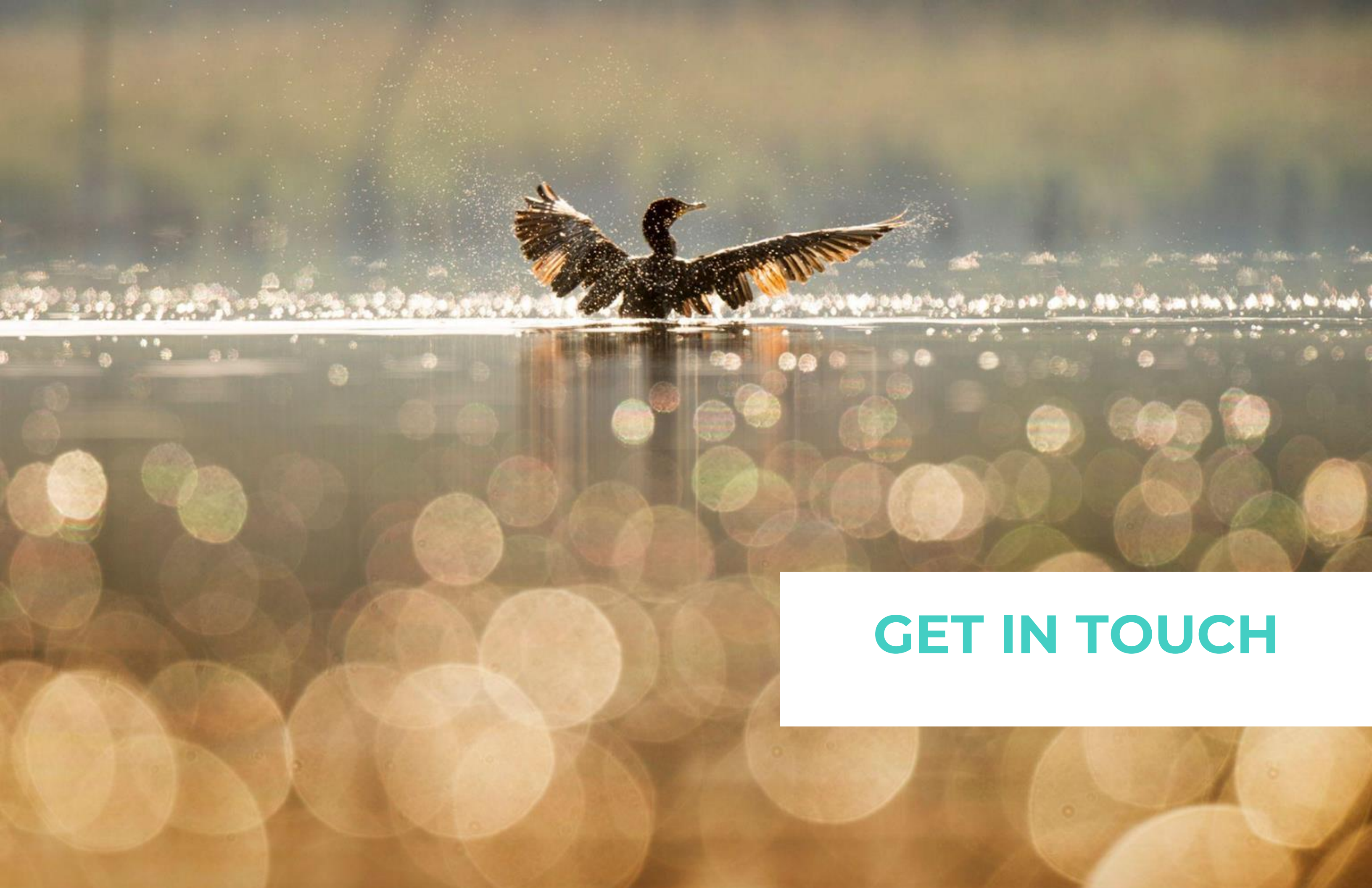
COST SHARE:

No



QUESTIONS? DISCUSSION?





GET IN TOUCH



Clean Water Vision

Community Outreach
Ideas?

Project Ideas?

Partnership
Ideas?

Get Involved! Share your ideas with us!

Sign up for Lower San Gabriel River
Watershed Area Information and Events!

Visit us at:

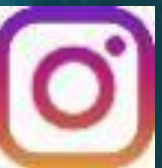
cleanwatervision.com

Email us at:

lsgr@ohanavets.com

Follow us on social media!

[@lsgrwatershed](https://www.instagram.com/lsgrwatershed)



SAFE CLEAN WATER L.A.

THE END

