

# Rio Hondo Watershed FY 23-24 (Year 4) Submitted Projects

Presented to the Rio Hondo WASC

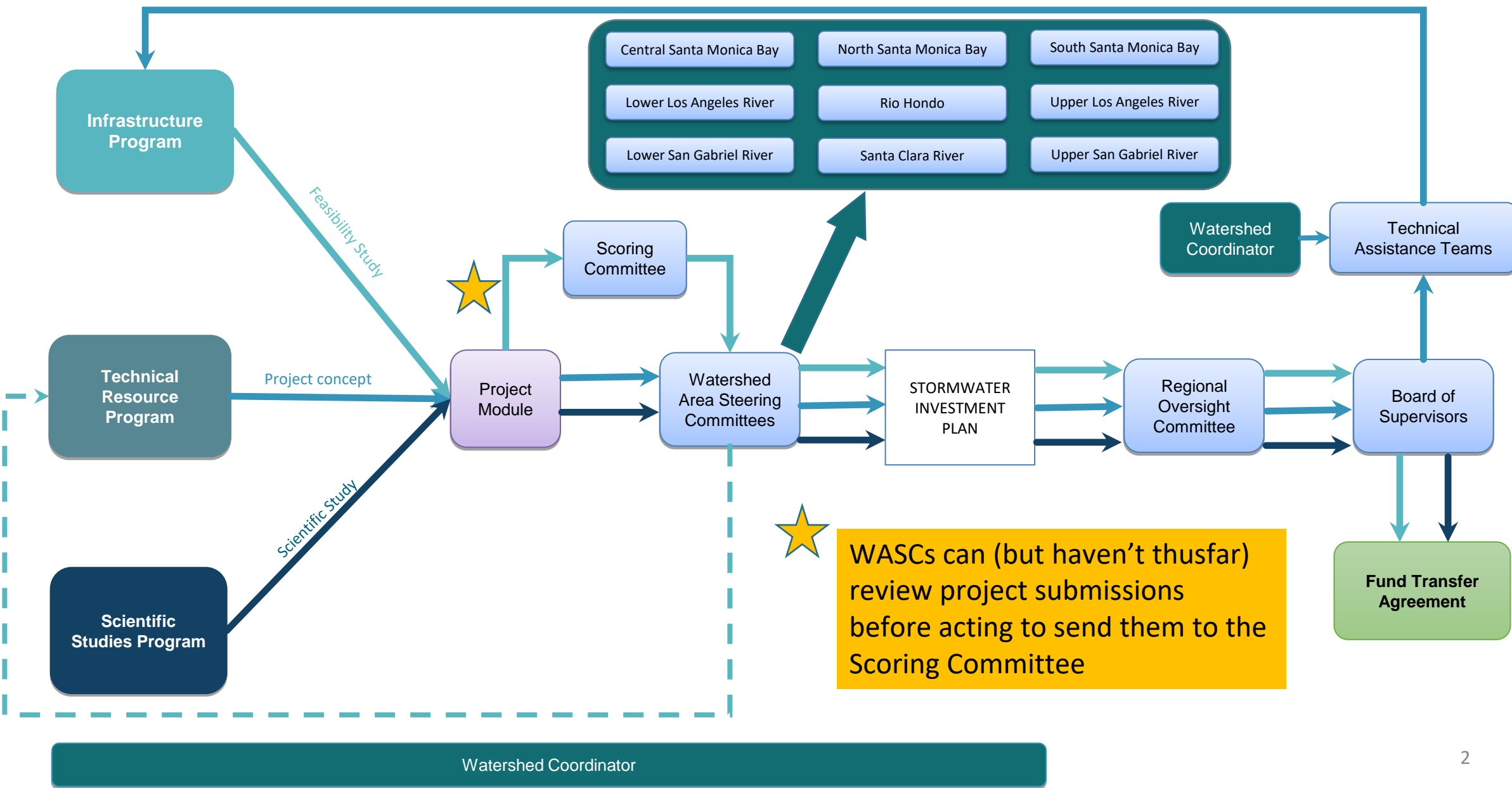
20 September 2022

By Richard Watson & Julie Millett (RWA)





# Regional Program Process



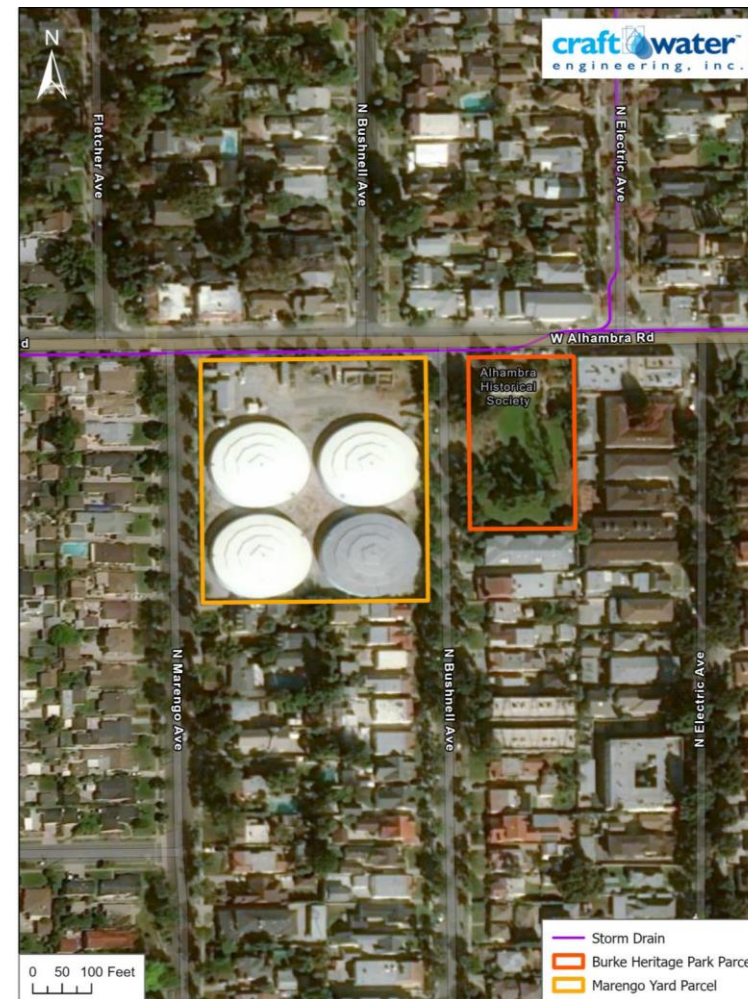


# Project Summary – Burke Heritage Park & Marengo Yard

**Burke Heritage Park & Marengo Yard Stormwater Capture Project – Wet Weather -**  
Received a qualifying preliminary score

**\* Regional and onsite stormwater capture and infiltration facility**

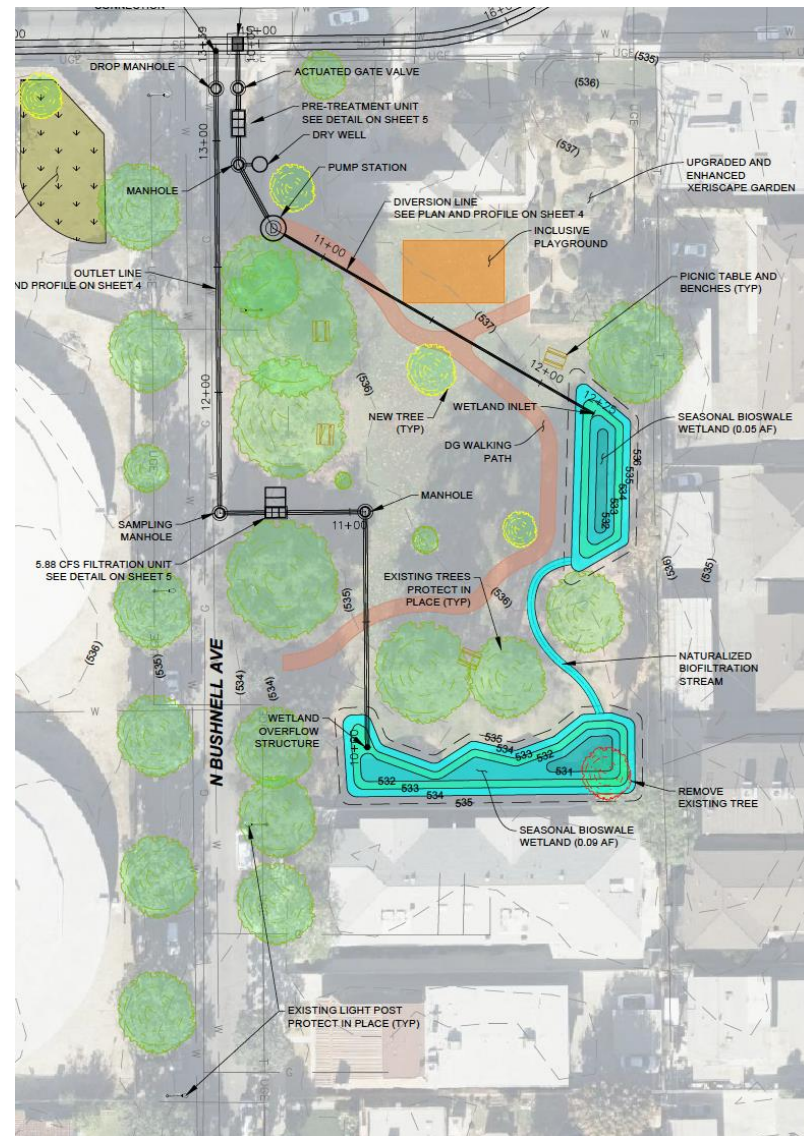
- **Lead: City of Alhambra**
- **Location: 1550 Alhambra Rd., Alhambra**
- **Total requested funds: \$4,424,118**
  - Year 1 request: \$787,896 (Design)
  - Year 2 request: \$1,225,408 (Construction)
  - Years 3 and 4 : \$1,205,407/year (Construction)
- Feasibility Study indicates the City will be responsible for long-term O&M
- *Region water mgmt. plan that includes project: LA IRWMP.*
- *Planned timeline: Final design, CEQA and Permitting Feb-Dec 2023; Construction Feb 2023 – Feb 2026*
- Capture and infiltration facility beneath open space. Dry-weather flows diverted from storm drain line to dry well. Wet-weather flows pumped to a surface wetland
- No downstream regional capture projects identified in the tributary





# Project Summary – Burke Heritage Park & Marengo Yard (Continued)

- Water capture from 111 acre-area – 43% from Alhambra and 57% from South Pasadena
- **DAC Benefit claimed?:** No
- **Water quality benefits claimed:** Pretreatment system at diversion point for dry-weather capture in dry well; two (2) seasonal bioswale wetlands and a naturalized stream for wet-weather infiltration. Three (3) bioretention basins at low points of Marengo Yard. Will help meet MS4 requirements.
- **Water supply benefits claimed:** Expected infiltration of up to 6 ac-ft/year, which will supplement Main SGR Basin.
- **Community benefits:** Restored/rehabilitated park facilities; will intercept excess runoff that currently drains to adjacent streets and properties; new plant habitats; new trees will enhance shade canopy; passive recreational park use will be maintained, with improvements
- **Nature-Based Solutions?** Yes – 2 bioswale wetlands and a naturalized stream in park, and 3 bioretention basins in Marengo Yard
- **Community support:** Letter from Active SGV
- **Outreach:** City has reached out to select community groups to inform them of the project. City has developed an outreach plan.





# Project Summary – El Monte Norwood Elementary School Stormwater Capture Project

**El Monte Norwood Elementary School Stormwater Capture Project – *Wet Weather*** - Received a qualifying preliminary score

**\* Creation of multi-benefit park with playground, native and drought tolerant plants, edible garden, & bioretention/biofiltration BMPs.**

- **Lead: *Edna Robidas (Trust for Public Land)***
- **Collaborators: *City of El Monte, LA County Public Works, El Monte City School District, Active SGV***
- Project originated with Active SGV
- **Location: *4565 Cogswell Rd, El Monte***
- **Total requested funds: *\$9,828,559 (Design, Construction)***
- Feasibility Study indicates City of El Monte commits to long-term O&M within City right-of-way
  
- **Regional water mgmt. plan that includes project: *N/A***. Not included in City of El Monte WMP, but WMP includes greening at parks & schools
  
- **Planned timeline:** Environmental documentation and permitting, and design plans, estimates, and specifications to be completed 06/24; Construction to be completed 10/2025
- No downstream regional capture projects identified in the tributary





# Project Summary – El Monte Norwood Elementary School Stormwater Capture Project (Continued)

Water capture from 61.2-acre area

- **DAC Benefit Claimed?** Yes, project located in DAC Census Block Group.
- **Water quality benefits claimed:** Installation of grate inlets and curb inlets to divert urban runoff to infiltration areas, decreasing volume of runoff.
- **Water supply benefits claimed:** Not claimed, but project will provide infiltration
- **Community benefits:** Transforms decommissioned elementary school into a public park. Installation of trees, educational signage, new play-ground equipment, edible garden, trails, and black top removal to decrease overall impervious area. Asphalt to be replaced with permeable pavers, drought tolerant landscaping, and decomposed granite.
- **Nature-Based Solutions?** Yes – infiltration BMPs
- **Community support:** Letters from Day One, El Monte Union HS District, Nature for All, SGV Conservation Corps, Eco Urban Gardens, Active SGV
- **Outreach:** Jan. 2022 Grant from San Gabriel and Lower LA Rivers and Mtns Conservancy to fund additional outreach activities thru March 2023

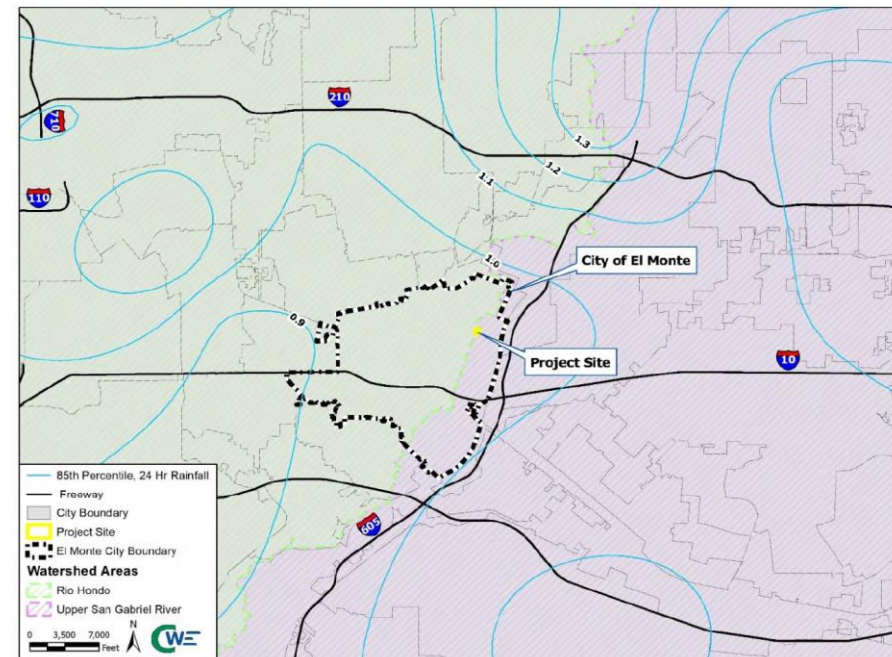


Figure 1-1 Surrounding Watershed and Project Location

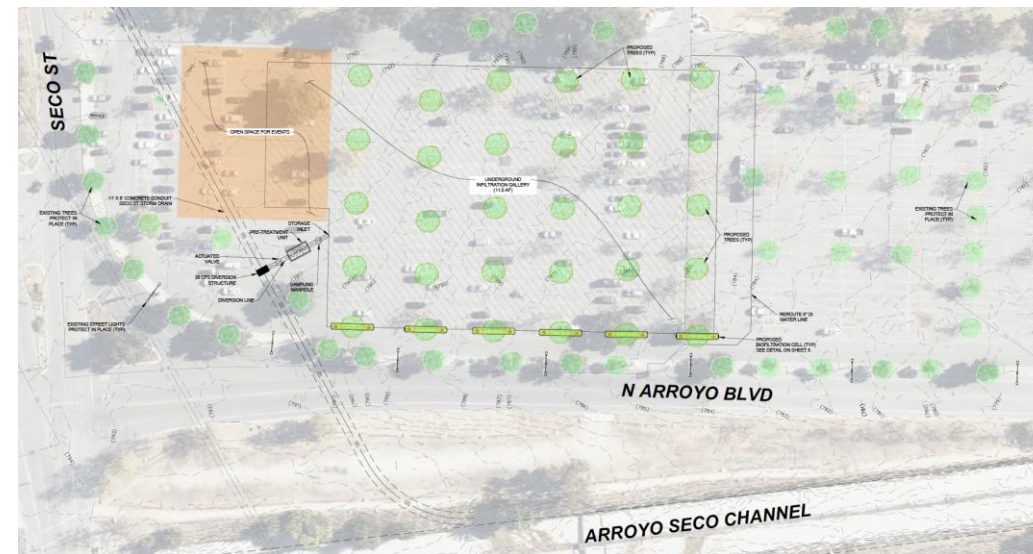


# Project Summary – Kinneloa Yard Stormwater Capture Project

**Kinneloa Yard Stormwater Capture Project Preliminary Design and Feasibility Study – Wet Weather** - Received a qualifying preliminary score

**\*Site restoration and regional & onsite stormwater capture and infiltration diversion facility.**

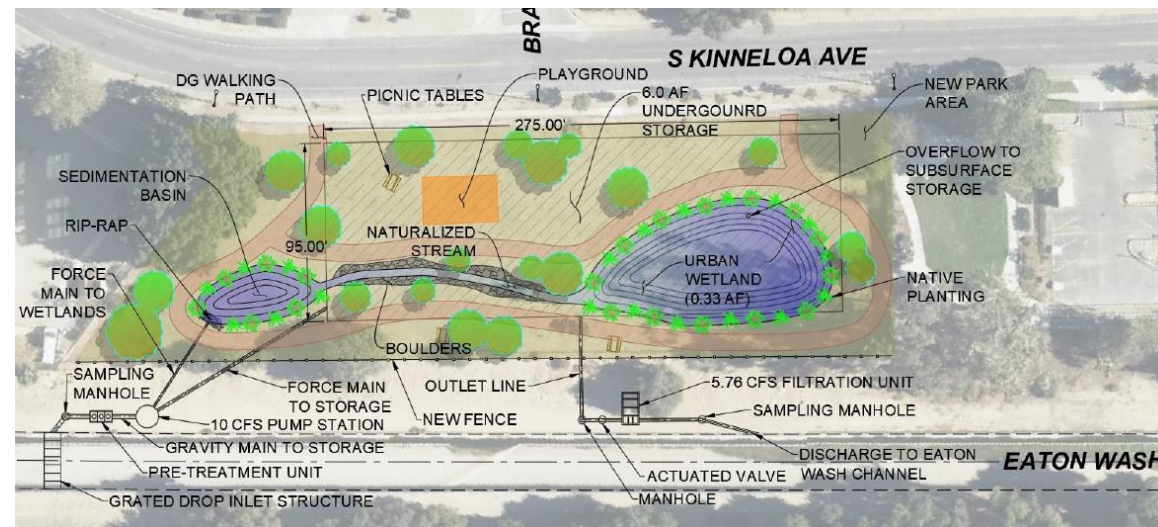
- **Lead: City of Pasadena**
- **Location: 175 South Kinneloa Ave, Pasadena**
- **Total requested funds: \$2,292,762 Design only** (including public outreach, CEQA, Permitting)
- **Eventual construction costs: \$15,210,215 (12/2023-12/2026)**
- Feasibility Study indicates the City of Pasadena will be responsible for long-term O&M
- **Reg. water mgmt. plan that includes project: IRWMP**
- **Planned timeline: Final design, CEQA and Permitting Dec 2022-Dec 2023; Construction Dec 2023 – Dec 2026**
- Proposed project is approx. 5.6 mi. upstream from Eaton Wash Dry-Weather Diversion Project. Proponents do not expect this project to have negative impacts on the downstream dry-weather project.
- Site historically housed machine manufacturing facilities (1940s and potentially earlier). The City acquired the site in 1947. By 1970 the site was completely vacant. Evidence of construction debris and scrap metal buried to approx. 30 ft below the surface.





# Project Summary – Kinneloa Yard Stormwater Capture Project

- Drainage area: 10,254 acres (15.6% in City of Pasadena and 84.4% in County of LA)
- **DAC Benefit claimed?:** No
- **Water quality benefits claimed:** Yes. Through use of NBS (natural swale) system hydraulically connected to subsurface storage, the proposed project will improve water quality within Eaton Wash. (Filtration proposed rather than infiltration into groundwater because of site history.)
- **Water supply benefits claimed:** Not claimed with current design. Using captured water for onsite irrigation possibility that could be explored later. Not using captured flows to supplement water supply due to risk of mobilizing historic contaminants.
- **Community benefits:** Will transform a contaminated, unusable site into public park space with 20 new shade trees, native plantings and a wetlands area planned. Will help reduce local flooding.
- **Nature-Based Solutions?** Yes – wetland system with a small sedimentation basin and a larger wetland proposed to mimic natural landscape.
- **Community support** – Support letter from Boys & Girls Club of Pasadena
- **Outreach** – an outreach plan has been developed





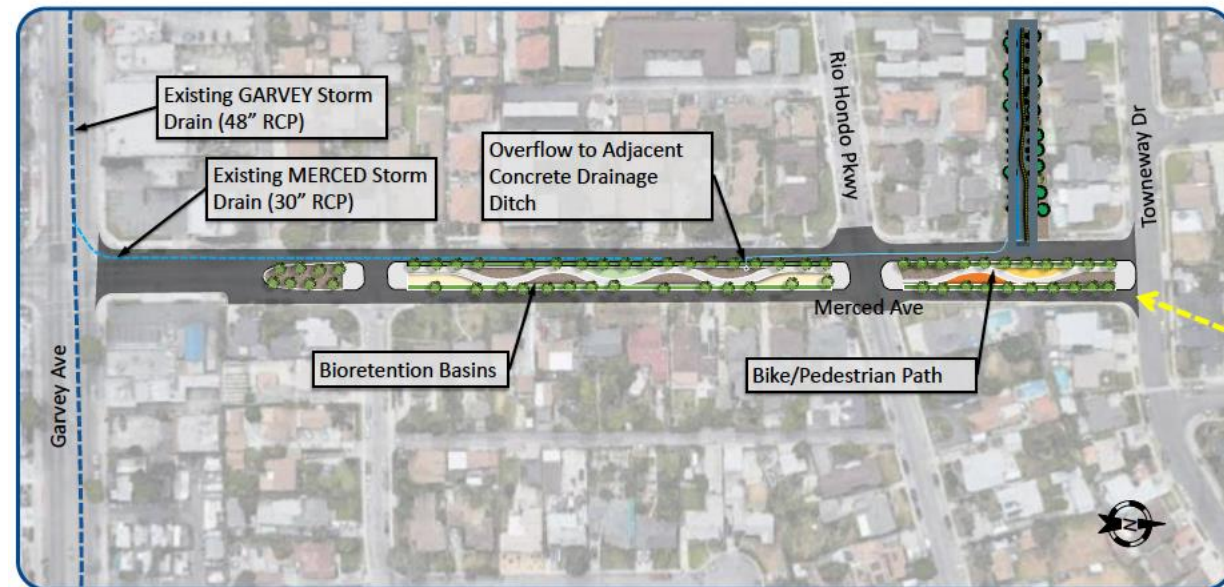


# Project Summary – Merced Ave Stormwater Capture Project

**Merced Avenue Stormwater Capture Project– Dry Weather –**  
Received a qualifying preliminary score

**\* Median linear park and concrete channel replacement project**

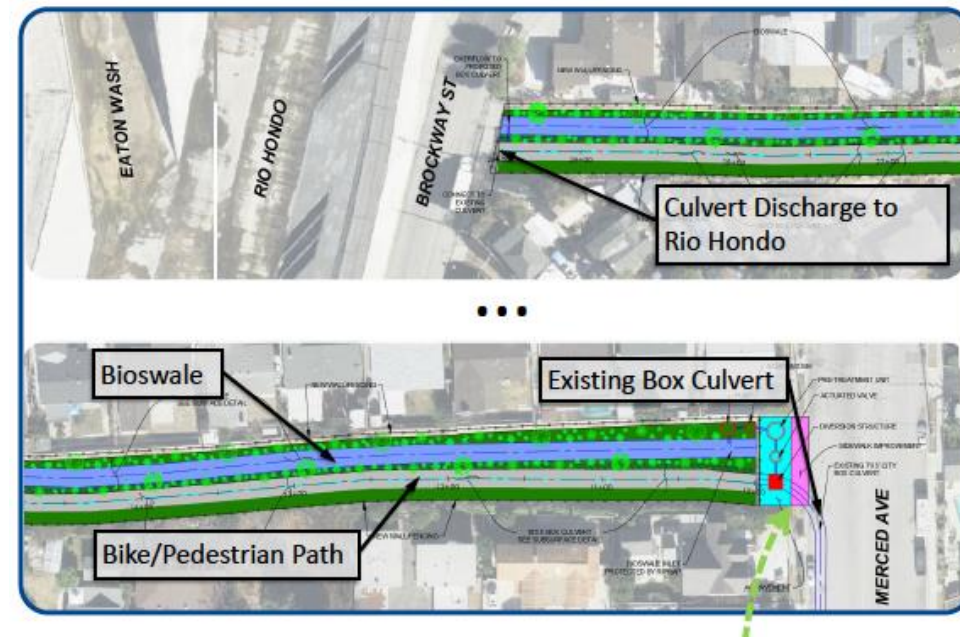
- **Lead: City of El Monte**
- **Location:** Merced Ave. btwn Garvey Ave & Towneway Dr. and between Merced Ave and Rio Hondo Pkwy., El Monte
- **Total requested funds: \$9,799,210.00.**
  - Year 1: \$1,068,059 (design)
  - Year 2: \$2,923,717
  - Year 3: \$2,903,717
  - Year 4: \$2,903,717
- Additional funding of \$4,633,284 awarded through Clean CA Grant Program
- **Regional water mgmt. plan that includes project: IRWMP**
- **Planned Timeline –** Feasibility Study 1/22-2/23; Design 2/23-2/24; Construction 4/24-4/26
- **Whittier Narrows Reservoir is downstream – proposed project will ensure that pollutants are not allowed to migrate to reservoir.**
- Feasibility Study indicates the City of El Monte will be responsible for O&M of completed project.





# Project Summary – Merced Ave Stormwater Capture Project

- Drainage area: 670 acres (entirely within El Monte)
- **DAC Benefit claimed?:** Yes, project located in DAC Census Block Group.
- **Water quality benefits claimed:** Yes – using BMPs to address zinc and copper (limiting pollutants in El Monte WMP) – emphasis on sediment reduction expected to drive reduction of other pollutants
- **Water supply benefits claimed:** Not claimed (due to limited quantity of dry-weather flows), but project will infiltrate dry weather flows into the subgrade (approx. 11.2 ac-ft per year)
- **Community Benefits:** creating new park space, improving public access to waterways, creating new recreational opportunities, reducing heat island/ increasing shade. Bike path along covered channel will connect with Rio Hondo bike path.
- **Nature-Based Solutions?** Yes – concrete channel and portion of roadway will be replaced with bioswales.
- **Community support** – Support letters from ActiveSGV, El Monte City School District, Los Angeles County Bicycle Coalition, Congressman Grace Napolitano, Southern CA Council of Governments, City of South El Monte, LA County MTA, LA County Bicycle Coalition
- **Outreach** – City has developed a public outreach plan; City will host meetings and virtual community workshops to provide opportunities for local community participation and feedback throughout project





# Project Summary – Regional Pathogen Reduction Study

**SCIENTIFIC STUDY**– *Latest science will be used to support the reduction of human pathogens and protect human health.*

*Area: Central Santa Monica Bay, Lower San Gabriel River, Rio Hondo, and Upper LA River Watershed Areas.*

*Water quality standards are currently based on FIB (fecal indicator bacteria), which are used as proxies for the pathogens responsible for illness. Bacteria TMDLs and impairment listings span the majority of the LA region. The study seeks to identify methods to focus on the highest risk sources of human pathogens and identify and prioritize BMPs to result in greater reduction of human health risk.*

- **Lead: Gateway Water Management Authority (GWMA).** GWMA will manage projects and select Study Team, which will consist of a team of national experts and academia.
- **Additional Study Collaborators:** Lower LA River, North SMB, Santa Clara River, South Santa Monica Bay, Upper San Gabriel River WASCs that have already included the study in their respective SIP budgets.

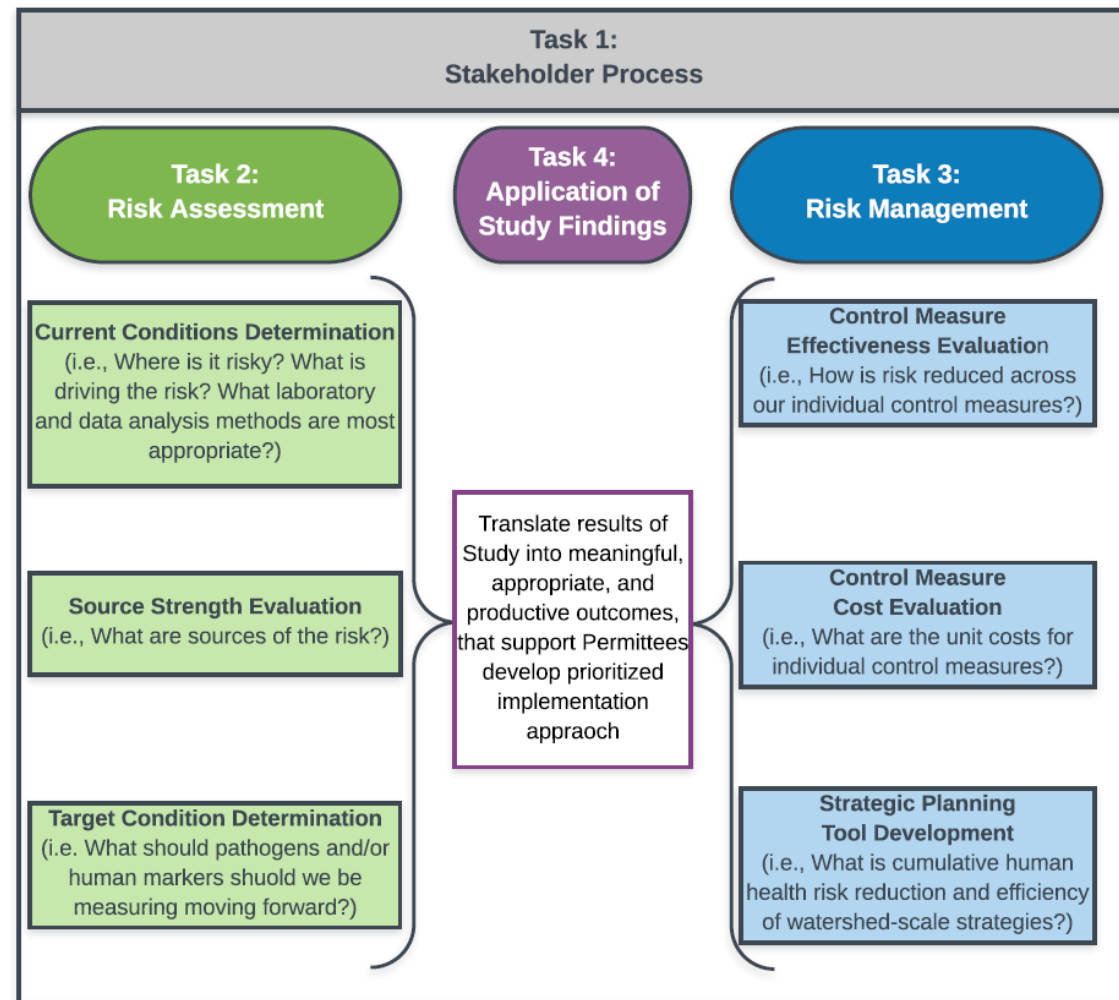


Figure 2. Diagram of the Regional Pathogen Reduction Study



# Project Summary – Regional Pathogen Reduction Study

- **Preliminary Schedule :**

Start date: 09/02/2024

Stakeholder Coordination Approach: 01/31/2025

Risk Assessment Work Plan Development: 06/30/2025

Risk Management Work Plan Development: 03/31/2026

Risk Assessment Monitoring: 03/31/2028

Final Risk Assessment Monitoring: 09/29/2028

Strategic Planning Tool Development: 12/29/2028

Final Risk Management Report: 03/30/2029

Study Completion Date: 06/29/2029

- **Total requested funds: \$5,103,473.48 (from 4 Watershed Areas, incl. Rio Hondo).**

Rio Hondo Year 1 request: \$30,413.67

Rio Hondo Year 2 request: \$212,895.68

Rio Hondo Year 3 request: \$182,482.01

Rio Hondo Year 4 request: \$198,434.45

Rio Hondo Year 5 request: \$69,358.42

**Total Rio Hondo WASC Request: \$693,584.23**

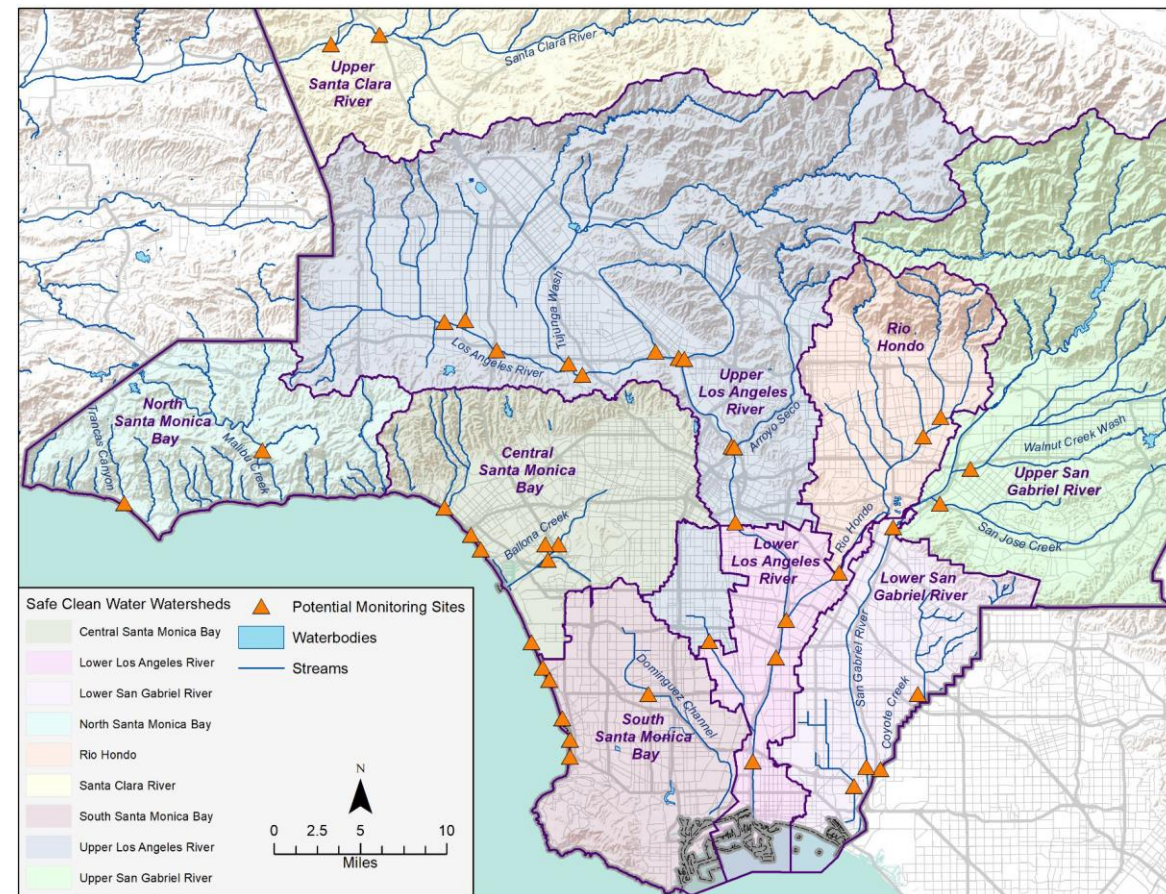


Figure 4. SCWP Watershed Areas and Potential Monitoring Sites Based on Existing Coordinated Integrated Monitoring Program Sites



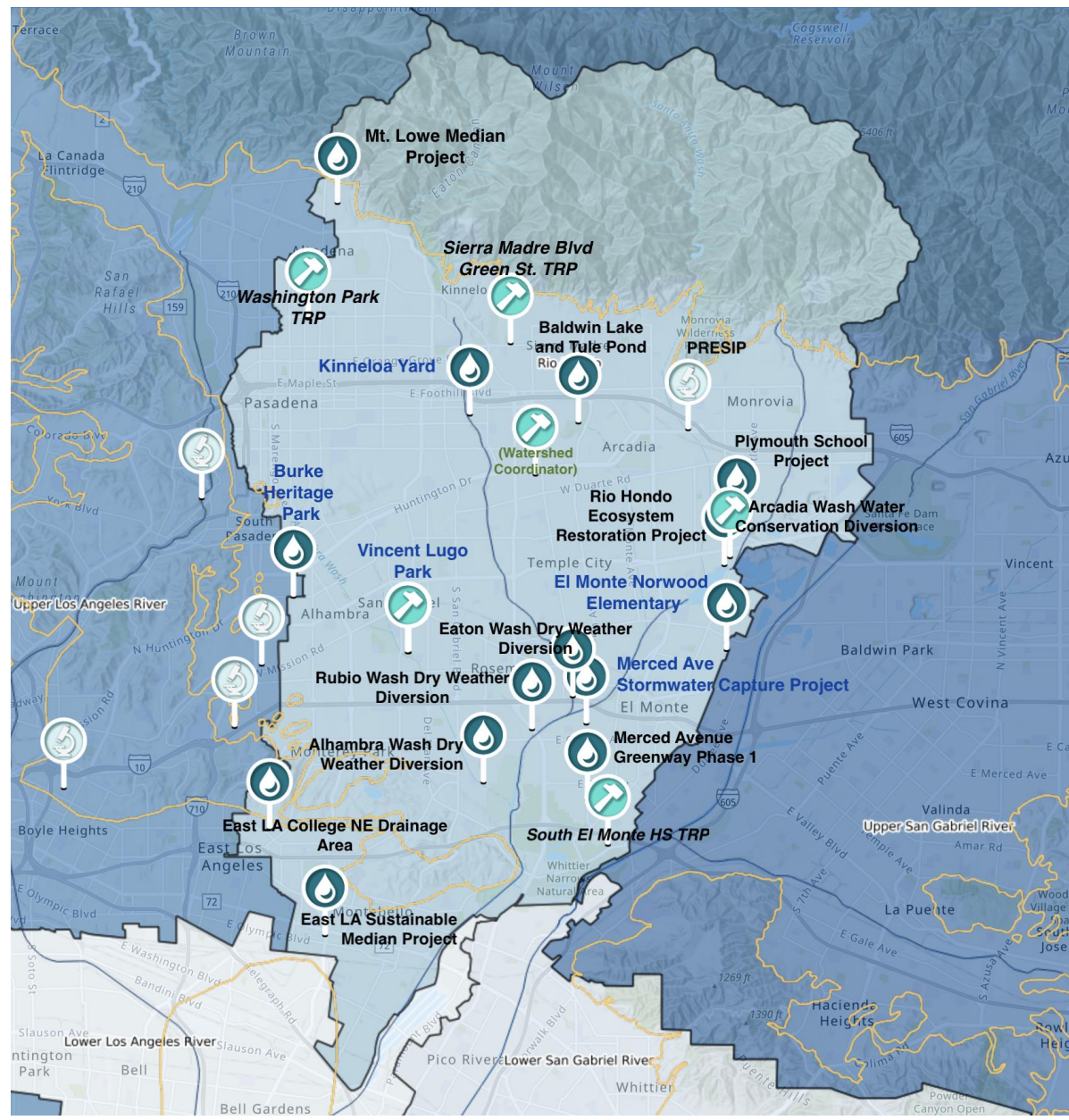
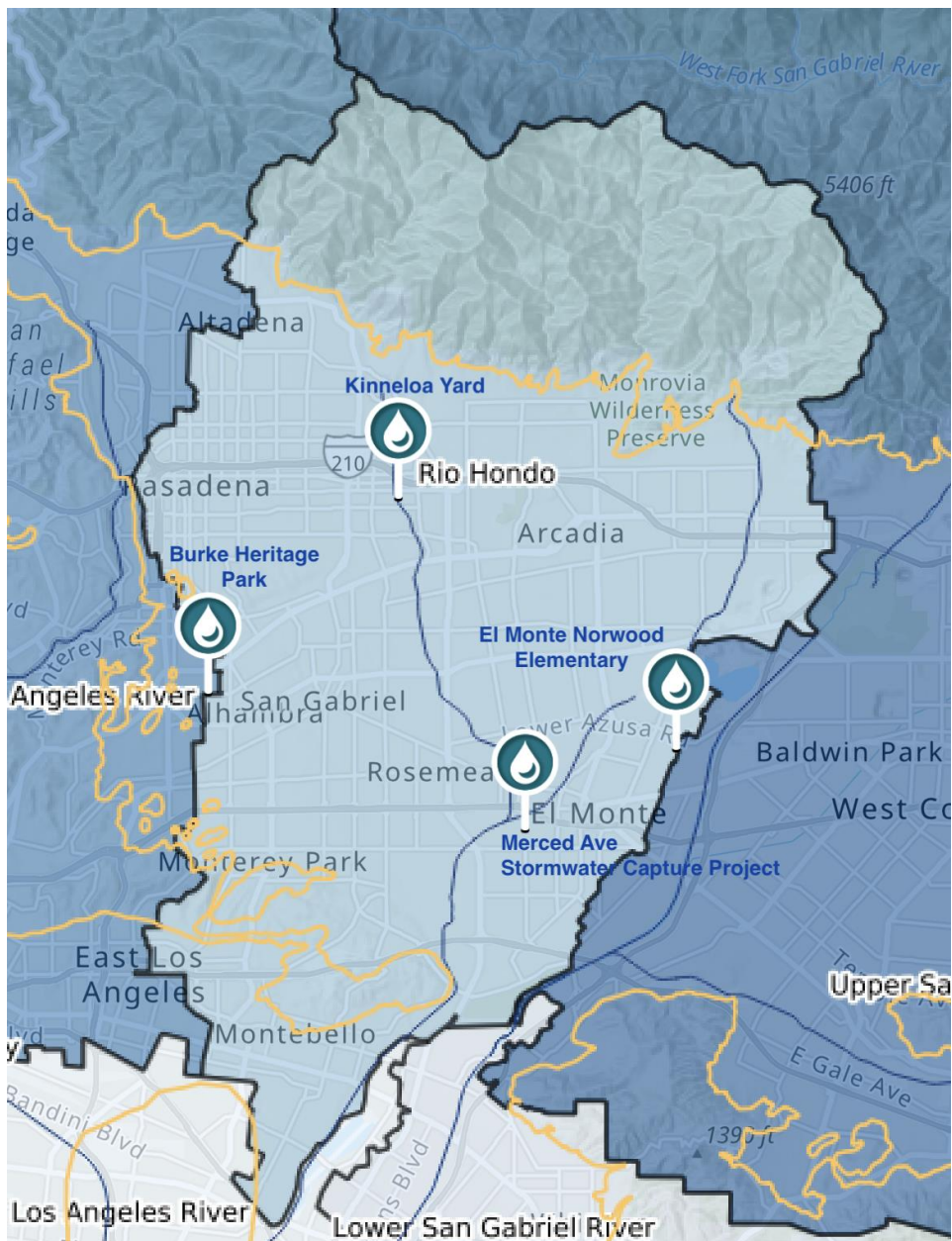
FY 23-24

# Infrastructure Project Summary Table

Project	\$ Requested	Regional Water Mgmt Plan	Water Quality Benefit Claimed	Water Supply Benefit Claimed	Community Benefit Claimed	Other Benefits Claimed
Burke Heritage Park & Marengo Yard	<b>\$4,424,118/</b> \$787,896 (Year 1 - Design)	YES - LA IRWMP	Pretreatment; dry well; two (2) bioswale wetlands; naturalized stream for wet-weather infiltration. Three (3) bioretention basins (Marengo Yard.)	Expected infiltration of up to 6 ac-ft/year, which will supplement Main SGR Basin.	Restored park facilities; bioretention basins to reduce local flooding, provide new plant habitat. New trees, shrubs, and grasses	DAC: No NBS: Yes
El Monte Norwood Elementary	<b>\$9,828,559</b>  (Anticipated annual O&M \$23,540)	NO - Not incl in WMP, but WMP calls for park and school greening	Grate and curb inlets to divert runoff to infiltration areas. Decreased volume of runoff carrying pollutants will improve downstream water quality.	Not claimed, but project will provide infiltration. Addition of trees and removal of hardscape can help cool the surrounding area, slow evaporation.	New trees, educational signage, playground equipment, edible garden, trails, black top removal. Transforms decommissioned school into public park.	DAC: Yes NBS: Yes
Kinneloa Yard	<b>\$2,292,762 (Design only)</b>  \$15,210,215 eventual construction costs	YES - LA IRWMP	Swale system connected to subsurface storage	Not claimed with current design. Using captured water for onsite irrigation could be explored later.	Transform unusable site into public park space with new shade trees, native plantings, wetlands. Help reduce local flooding.	DAC: No NBS: Yes
Merced Ave Stormwater Capture Project	<b>\$9,799,210.00/</b> \$1,068,059 (Year 1)	YES - LA IRWMP	BMPs to address zinc and copper (limiting pollutants) and sediment reduction to reduce other pollutants	Not claimed (due to limited dry-weather flows), but project will infiltrate dry weather flows into subgrade (approx. 11.2 ac-ft/yr)	New park space, improving public access to waterways, new recreation, reducing heat island/increasing shade	DAC: Yes NBS: Yes



# Rio Hondo Watershed Area – Project Locations





# Questions and Discussion

Richard Watson

[rwatson@rwaplanning.com](mailto:rwatson@rwaplanning.com)

949-394-8495

Julie Millett

[jmillett@rwaplanning.com](mailto:jmillett@rwaplanning.com)

310-980-1534



Monrovia Canyon Park, Photo Courtesy City of Monrovia



**SAFE  
CLEAN  
WATER**

