FUNDING MEMO

To:	Rio Hondo Watershed Area Steering Committee	From:	Safe, Clean Water Program Regional Coordination Team
Project:	South El Monte High School Stormwater Improvement Project	Date:	December 7, 2023
Project Lead:	El Monte Union High School District	Call for Projects Year:	Round 5 FY24-25
Watershed Area:	Rio Hondo	Project Location:	1001 Durfee Avenue South El Monte, CA 91733

Reference: Leverage Funding Memo for South El Monte High School Stormwater Improvement Project

Leveraged funding is a key program goal in the Safe, Clean Water Program Implementation Ordinance (Chapter 18.04). This and other Funding Memos are generated for all eligible newly submitted Safe, Clean Water Program Infrastructure Program projects in Round 5 FY24-25. The intent of this funding memo is to strengthen the identification of leverage funding sources and support WASCs in funding priorities and partial funding decisions. Below is a summary of the project benefits, overview of the funding request, potential sources of leverage funding for this project, and an assessment of funding competitiveness in those programs.

PROJECT SUMMARY

The Project Application describes the proposed project in this way:

> The South El Monte High School Stormwater Improvement Project is a multi-benefit project that consists of nature-based solutions distributed throughout the project area to treat and detain the tributary runoff. The stormwater facilities include bioretention, pervious pavement, and tree trenches.

PROJECT BENEFITS

The Project Application describes the following benefits will be provided by the project:

- Water Quality: The proposed Project will directly improve water quality and contribute to attainment of water quality requirements by reducing pollutants from stormwater runoff through bioretention, filtration, and biological processes. The estimated pollutant reduction from the project was developed using the SCWP module. The 85th percentile 24-hour peak flow rate and volume determined from the Watershed Management Modeling System (WMMS) was inputted into the SCWP module to generate the pollutant loading and removal values. All flows from the 85th percentile peak flow will be captured and treated. The pollutant removal is achieved through biofiltration from bioretention, tree trenches, and permeable pavement.

- Water Supply: The distributed BMPs are intended to detain runoff; no water supply benefit is provided by the proposed nature-based solutions. However, the optional stormwater harvesting component would provide a water supply benefit if implemented. Based on preliminary runoff supply and cost effectiveness calculations, the optimal cistern size would provide 700,000 gallons of storage capacity and an approximate average of 7.2 ac-ft of annual stormwater reuse through irrigation. This facility is not sized to retain the full 85th percentile runoff event but is sized to maximize cost-effectiveness. The storage volume could be revisited during design after final BMP selection to confirm the facility cost and water supply benefit are appropriately balanced. Future modification of school plumbing fixtures to use reclaimed water for non-potable uses could also increase the water supply benefit provided by the future cistern.

- Flood Risk Mitigation: The project will improve flood management by incorporating BMPs to detain stormwater runoff and provide peak flow attenuation. The total storage capacity of the proposed BMPs is intended to detain the 85th percentile 24-hour volume.

- Park Space, Habitat, or Wetland Space: The project will enhance open outdoor sport space by reducing the flooding that occurs after storm events. The ball fields are often muddy and unusable during the rainy season due to flooding. The project will prevent flooding from occurring and maintain the ball fields normal conditions. The project will also increase native vegetation and tree cover within the school campus.

- Recreational Opportunities: The project will enhance recreational opportunities through the reduced frequency and extent of flooding at the ball fields. Public recreational use of the ball fields after storm events is often limited due to flooding. The project will reduce flooding and enable more consistent public recreational use throughout the year.

- Green Space at School*s:* The project will enhance green spaces at school by incorporating native vegetation in multiple locations on the campus. The project will create green space where tree trenches are proposed at the east parking lots. These BMPs will provide beautification at the parking lots where no vegetation currently exists.

- Urban Heat & Shade: The project will propose tree trenches that will reduce the overall impermeable area of the school, reduce heat island effect by providing shade from tree canopies, and provide beautification at the parking lots where no vegetation currently exists.

- Shade & Vegetation: The project will increase shade and the number of trees by implementing trees in bioretention and tree trenches at the high school campus. The tree trenches are assumed to include a tree approximately every 25 feet. Based on the proposed BMP layout, up to 28 new trees may be incorporated in the project.

- Disadvantaged Community Benefit: The project area is within a disadvantaged community area listed in the 90th to 95th overall percentile based on the CalEnviroScreen 4.0 score (OEHHA). Although the primary overall benefit to the [disadvantaged community] is improved water quality through the treatment of stormwater, the most important benefit to the [disadvantaged community] residents is likely stormwater flood management, which will improve the reliability of access to the sports fields, a vital part of the school's facilities and community. The project will also provide several additional community investment benefits to the [disadvantaged community], including enhancing park space and recreational opportunities, creating green spaces, increasing the number of trees, and improving public health.

OVERVIEW OF FUNDING NEED FOR PROJECT

The South El Monte High School Stormwater Improvement Project is currently requesting $604,000 of Safe, Clean Water Program Round 5 funding for FY24-25. The Project is tentatively requesting a total of $8,753,600 of Safe, Clean Water funding through FY28-29 for Design, Construction, Operations and Maintenance (O&M), and Monitoring. The Project's total cost, excluding O&M, is $7,898,000 (Planning, Design, and Construction).

The Project previously received $300,000 in Safe, Clean Water Program funding under the Technical Resources Program (TRP) in FY21-22. The Project has not previously received any Infrastructure Program funding.

As disclosed in the Project application, the Project Proponent has not leveraged external funding outside of the Safe, Clean Water Program.

- **Total SCW funding requested for FY24-25:** $604,000
- **Total SCW funding awarded to date:** $300,000 (TRP)
- **Total SCW funding requested:** $8,753,600 (Infrastructure Program – Design, Construction, O&M, Monitoring)
- **Total Infrastructure Project cost:** $7,898,000 (Infrastructure Program – Planning, Design, Construction)
- **Cost share and/or existing funding already leveraged:** None

	Year 1 – Current Ask	Year 2	Year 3	Year 4	Year 5	Future Funds	Total Request
Request	$604,000	$660,800	$6,333,200	$423,200	$423,200	$309,200	$8,753,600
Phase	Design	Design	Construction	O&M, Monitoring	O&M, Monitoring	O&M	

Status and schedule of project:

- **Date of completion of Project planning and design**: 06/2026
- **Anticipated date of completion of Project construction:** 11/2027

FUNDING OPPORTUNITIES

The following funding/grant program opportunities align with the South El Monte High School Stormwater Improvement Project. Funding/grant program opportunities are categorized into topic areas based on the claimed project benefits in the Safe, Clean Water Program project application. Each funding/grant program listed includes an assessment of the project's funding competitiveness in its description.

Funding competitiveness assessments will fall under three levels:

- Strong: The Project has a strong potential to be competitive for program funding. The Project provides numerous benefits and aligns strongly with the funding program's goals and priorities.
- Moderate: The Project has a moderate potential to be competitive for program funding. The Project features some benefits that align with the funding program's focus.
- Low: The Project has a low potential to be competitive for program funding. The Project features a benefit that aligns with the funding program's focus but does not directly align with funding priorities.

URBAN HEAT

Integrated Climate Adaptation & Resiliency Program's (ICARP) Extreme Heat and Community Resilience Grant Program funds planning and implementation projects that reduce the impacts of extreme heat and build community resilience. The Program will build frameworks for change and invest in local, regional, and tribal projects that strengthen communities that are vulnerable to heat. The ICARP program plans to award a total of $36 million in grants for the first funding round, with 40% of total funds allocated to planning grants and 60% of total funds for implementation grants.

Draft Grant Guidelines were released on October 12, 2023, and the following information is subject to change in the Final Grant Guidelines. The ICARP Program's funding award amounts categories are: Small Planning Grants ($100,000 and $250,000), Large Planning Grants ($300,000 and $750,000), Small Implementation Grants ($100,000 and $450,000), and Large Implementation Grants ($500,000 and $5 million). No match funding is required. Implementation grants may fall under four tracks: Track A) Build Public Awareness and Notification, Track B) Strengthen Community Services and Response, Track C) Increase Resilience of Our Built Environment, and Track D) Utilize Nature-based Solutions.

The South El Monte High Stormwater Improvement Project has a ***moderate potential*** to be competitive for this funding program, according to urban heat benefits claimed by the Project Applicant. The Project aligns with nature-based solutions.

SCHOOL GREENING

California Department of Forestry and Fire Prevention's (CAL FIRE) Urban and Community Forestry Grant Program is an annual program approved by the Budget Act each fiscal year. Program cycles may have a specific focus, such as the FY22-23 cycle focus on green schoolyards. This grant program funds planning and implementation projects for urban forest planting projects with multiple benefits, that give special attention to greenhouse gas reduction, energy conservation, air quality improvement, stormwater management, water quality, or improvement of public health outcomes. Urban and Community Forestry Grant Program grants require a 25 percent cost share. Funds may be sourced from state funding from agencies other than CAL FIRE. Projects that meet disadvantaged/low-income requirements are eligible to waive cost share requirements.

The South El Monte High School Stormwater Improvement Project has a ***low potential*** to be competitive for CAL FIRE's program, given that the Project Applicant's sister school district, El Monte City School District received a grant in FY22-23 for Green Schoolyards.

Funding programs change frequently. The above identified funding opportunities are initial recommendations, and further research should verify project-specific eligibility requirements, latest funding levels, and appropriate timelines. Use the links above to research these programs further. If you are unsure about your project eligibility or competitiveness, reaching out to program coordinators via contact emails or webinars is a good way to get your questions answered. The California Grants Portal and California Financing Coordinating Committee Funding Fairs can serve as resources to identify additional funding opportunities.

Questions can be asked of the Watershed Coordinator or the Regional Coordination Team.

FUNDING MEMO

To:	Rio Hondo Watershed Area Steering Committee	From:	Safe, Clean Water Program Regional Coordination Team
Project:	Washington Park Stormwater Capture Project	Date:	October 23, 2023
Project Lead:	City of Pasadena	Call for Projects Year:	Round 5 FY24-25
Watershed Area:	Rio Hondo	Project Location:	700 E Washington Blvd Pasadena, CA 92101

Reference: Leverage Funding Memo for Washington Park Stormwater Capture Project

Leveraged funding is a key program goal in the Safe, Clean Water Program Implementation Ordinance (Chapter 18.04). This and other Funding Memos are generated for all eligible newly submitted Safe, Clean Water Program Infrastructure Program projects in Round 5 FY24-25. The intent of this funding memo is to strengthen the identification of leverage funding sources and support WASCs in funding priorities and partial funding decisions. Below is a summary of the project benefits, overview of the funding request, potential sources of leverage funding for this project, and an assessment of funding competitiveness in those programs.

PROJECT SUMMARY

The Project Application describes the proposed project in this way:

> The Washington Park Stormwater Capture Project includes installation of a diversion pipe, a subsurface infiltration gallery, two bioswales, an ephemeral infiltration/retention basin, pervious pavement, and other green infrastructure elements. The primary Project objectives include (1) improving local water quality in the City of Pasadena Eastside Storm Drain and the downstream Rio Hondo River, (2) restoration, rehabilitation, and new vegetation will provide park recreational enhancements that will include a bioretention garden area, additional shade trees and native vegetation, and (3) provide flood control management at the southeast portion of the park. Additional, Project objectives include, (1) providing supplemental stormwater and urban runoff for groundwater recharge, (2) provide habitat, educational opportunities, and diverse vegetation to the existing space, (3) educate the public on integrated systems and sustainable water resources practices, and (4) provide improved site stormwater management by installing permeable pavement in the parking lot.

PROJECT BENEFITS

The Project claims to provide the following benefits, as copied verbatim from the Project Application:

- Water Quality: To achieve pollutant reduction, a subsurface infiltration gallery is proposed. Based on the 10-year Watershed Management Modeling System (WMMS), the subsurface infiltration gallery can achieve over 97% load reduction was achieved for metals [Total Zinc (98.5%); Total Copper (97.8 %); Total Lead (97.2%); Total Nitrogen (98.6%); Total Phosphorous (98.2%) and E. coli (95.0%)]. As a component to pollutant reduction, a hydrodynamic separator will be installed ahead of the infiltration gallery to remove trash and debris. Based on Manufacturer's literature,

the hydrodynamic separator is capable of capturing up to 95% of trash, 90% of Total Suspended Solids, 20% of nitrogen and 19% of phosphorus from the water column.

- Water Supply: The objective was to enhance local water supply resilience in the face of climate change impacts, drought vulnerability, and potential disruptions to the water supply [Nature Based Solutions] (NBS) approaches, including the infiltration gallery, infiltration basin, bioswales, trees and native vegetation, and permeable pavement, were considered as effective strategies for improving water supply resilience. These NBS measures help increase water availability, reduce stormwater runoff, enhance groundwater recharge, and improve water quality. By implementing these practices, the project aimed to enhance local water supply resilience by effectively managing stormwater, promoting groundwater recharge, and improving water quality through natural processes. The NBS measures implemented align with the goals of improving local water supply resilience, ensuring the long-term availability and reliability of water resources for the community.

- Flood Risk Mitigation: The project will increase resiliency to flooding by diverting storm water flows, thereby increasing downstream storm drain capacity during rain events. The additional drainage features at the southern end of the project will relieve potential stormwater ponding and flooding issues for the adjacent property owners.

- Park Space, Habitat, or Wetland Space: Enhancements to the ephemeral stream and retention/infiltration basin will provide habitats for a variety of birds and butterflies. Enhanced habitat and aesthetic value through the planting of native vegetation within the two proposed bioswales. This will enhance the park's landscaping and will capture and treat surface runoff from within the park. Addition of 12 trees and vegetation is proposed to provide habitat for native species and contribute to further carbon sequestration. This will also contribute to the reduction of the heat island effect and provide for some carbon sequestration. Each tree would sequester approximately 1,800 pounds of carbon over a 50-year lifespan which equates to 432 total pounds of carbon captured annually. Educational display signs installed at the Park as part of the Project.

- Public Access to Waterways: The project will improve access to waterways by allowing a path to the ephemeral retention/infiltration basin during dry periods.

- Recreational Opportunities: Associated benches to allow for park users to sit and enjoy the park. Additional trees and ephemeral stream enhancements provide habitat for native species, which creates bird and butterfly watching as new recreational opportunities.

- Urban Heat & Shade: This Project's landscaping elements, including an additional 12 trees, will provide shade for park visitors and help reduce heat island effect.

- Shade & Vegetation: Native vegetation, which includes the addition of approximately 12 trees in the park, will provide additional shade and habitat for native species. This will also contribute to the reduction of the heat island effect and provide for some carbon sequestration. Each tree would sequester approximately 1,800 pounds of carbon over a 50-year lifespan which equates to 432 total pounds of carbon captured annually.

- Disadvantaged Community Benefit: The Project site falls with the Pasadena census place and is considered a [disadvantaged community] census block. The site is also surrounded by additional [disadvantaged community] census blocks. The Project creates direct and indirect benefits for all park visitors including [disadvantaged community] residents. Direct benefits include increased educational opportunities on climate resiliency and environmental stewardship through the installation of display signs.

OVERVIEW OF FUNDING NEED FOR PROJECT

The Washington Park Stormwater Capture Project is currently requesting $2,113,400 of Safe, Clean Water Program Round 5 funding for FY24-25. The Project is tentatively requesting a total of $ 12,649,271 of Safe, Clean Water funding through FY28-29 for Planning, Design, Construction, and Operations and Maintenance (O&M). The Project's total cost, excluding O&M, is $12,007,550 (Planning, Design, Bid/Award, and Construction).

The Project has not previously received any Safe, Clean Water Program funding.

As disclosed in the Project application, the Project Proponent has not leveraged external funding. The City of Pasadena plans to supplement funding for this Project through a combination of Federal and State grants, local funding options and stormwater fees, and through continued participation in stormwater funding advocacy efforts led by the League of California Cities and California Contract Cities. To date, the City has not established a budget to offset costs for the Project. The City plans to pursue funding through grants and local programs once the feasibility phase of the Project is complete. At this time, the City would like to explore the following potential funding sources: State Revolving Fund (SRF), Water Infrastructure Finance and Innovation Act (WIFIA), Prop 1 – R-2 Integrated Regional Water Management (IRWM) Implementation Grant Program, and FEMA Building Resilient Infrastructure and Communities.

- **Total SCW funding requested for FY24-25:** $2,113,400
- **Total SCW funding awarded to date:** None
- **Total SCW funding requested:** $12,649,271 (Infrastructure Program – Planning, Design, Construction, Bid/Award, Monitoring)
- **Total Infrastructure Project cost:** $12,007,550 (Infrastructure Program – Planning, Design, Construction, Monitoring)
- **Cost share and/or existing funding already leveraged:** None

	Year 1 – Current Ask	Year 2	Year 3	Year 4	Year 5	Future Funds	Total Request
Request	$2,113,400	$ 288,300	$9,605,850	$ 320,860	$ 320,860	$ --	$12,649,271
Phase	Planning	Design	Construction, Bid/Award	O&M, Monitoring	O&M, Monitoring	N/A	

Status and schedule of project:

- **Date of completion of Project planning and design**: 08/2026
- **Anticipated date of completion of Project construction:** 08/2027

FUNDING OPPORTUNITIES

Funding/grant program opportunities are categorized into topic areas based on the claimed project benefits in the Safe, Clean Water Program project application. Each funding/grant program listed includes an assessment of the project's funding competitiveness in its description.

Funding competitiveness assessments will fall under three levels:

- Strong: The Project has a strong potential to be competitive for program funding. The Project provides numerous benefits and aligns strongly with the funding program's goals and priorities.
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VEGETATION

California Department of Water Resources' (DWR) Urban Streams Restoration Program (USRP) funds projects to restore streams impacted by urban development to a more natural state. Project types include stream cleanups, bank stabilization projects, revegetation, recontouring of channels to improve floodplain functions and localized flood protection, and acquisition of strategic floodplain properties. Grant administration for the USRP is now combined with the Riverine Stewardship Program; however, each program has separate grant guidelines. The USRP funds projects across California. A major objective of the USRP is community engagement and support. Grant applications must have two applicants: one local public agency or non-profit organization and one local community group. There is a 20%, non-state source cost share requirement for projects funded with Proposition 68 funds. The cost share requirement may be waived for disadvantaged communities.

The Washington Park Stormwater Capture Project has a ***moderate potential*** to be competitive for the USRP. The Project's vegetation benefits claimed in the Safe, Clean Water application align with DWR's grant program's focus; although, this grant program requires two applicants, including one that is a local community group. The USRP additionally requires significant outreach before and after the project is completed. The Project Applicant must conduct substantial community engagement efforts early in the process to qualify for this grant program.

RECREATION

Los Angeles County Regional Parks and Open Space District's (RPOSD) County – Measure A Annual Allocations Grant Programs fund parks, open spaces, and recreational areas. The annual allocations grant program is funded annually by 13 percent of the Measure A expenditure plan and is replenished each fall. Measure A funds go into six funding categories: Community-based Park Investment Program; Neighborhood Parks, Healthy Communities, and Urban Greening Program; County Cultural Facilities Program; County Priority Projects Program; Allocation to the LA County Department of Parks and Recreation; Allocation to the LA County Department of Beaches and Harbors. Each funding program category supports specific funding programs.

The Washington Park Stormwater Capture Project has a ***moderate potential*** to be competitive for these grant programs given the multi-benefits claimed by the Project Applicant, including vegetation and green space expansion and passive recreation park enhancements. As stated in the Safe, Clean Water Project Application, the Washington Park Stormwater Capture Project will provide recreational benefits by enhancing park landscaping and passive recreation amenities. These benefits align well with Los Angeles County's RPOSD goals. The project is located in, and benefits disadvantaged communities, as claimed in the Safe, Clean Water Project Application. According to RPOSD's Los Angeles Countywide Comprehensive Parks & Recreation Needs Assessment (2016), the Project location address is in Eastside / Unincorporated Kinneloa Mesa, Study Area #132, and is identified as an area with moderate

park need. The Project is still eligible for RPOSD funding but may not be as competitive for all RPOSD Measure A grant programs.

Funding programs change frequently. The above identified funding opportunities are initial recommendations, and further research should verify project-specific eligibility requirements, latest funding levels, and appropriate timelines. Use the links above to research these programs further. If you are unsure about your project eligibility or competitiveness, reaching out to program coordinators via contact emails or webinars is a good way to get your questions answered. The California Grants Portal and California Financing Coordinating Committee Funding Fairs can serve as resources to identify additional funding opportunities.

Questions can be asked of the Watershed Coordinator or the Regional Coordination Team.