

# Safe, Clean Water Program

Fiscal Year 2023-2024

## Stormwater Investment Plan



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### Stormwater Investment Plan South Santa Monica Bay Watershed Area

The Stormwater Investment Plan (SIP) is an annual five (5) year plan developed by each Watershed Area Steering Committee (WASC) that recommends funding allocations for Projects and Programs in the Regional Program’s Infrastructure Program, Technical Resources Program, and Scientific Studies Program.

The purpose of the SIP is to capture recommended programming for the upcoming fiscal year as well as anticipated recommendations for the next four subsequent years.

The following sections include details regarding the recommended SIP:

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#### Attachments:

- Attachment A – Final Recommended SIP
- Attachment B – Summary to Date

Please review the recommended SIP and select one of the following:

	Regional Oversight Committee (ROC) concurs with the recommended SIP as-is
	Refer to ROC meeting minutes for comments

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### 1 Summary of Stormwater Investment Plan Recommendations

The South Santa Monica Bay Watershed Area receives approximately \$17.4M in annual Regional Program funds.

For Fiscal Year 2023-2024 (FY23-24), 4 Infrastructure Program (IP) Project applications and 1 Technical Resources Program Project concept application were submitted for consideration. There were no Scientific Study applications. All IP Projects were advanced to the Scoring Committee for an official score. All 4 IP Projects scored above the minimum threshold score of 60 points and were returned to the WASC for consideration. After careful review and consideration, the WASC voted to include all 4 Infrastructure Program Projects, the 1 Technical Resources Program Project concept, and 1 Watershed Coordinator into the recommended SIP.

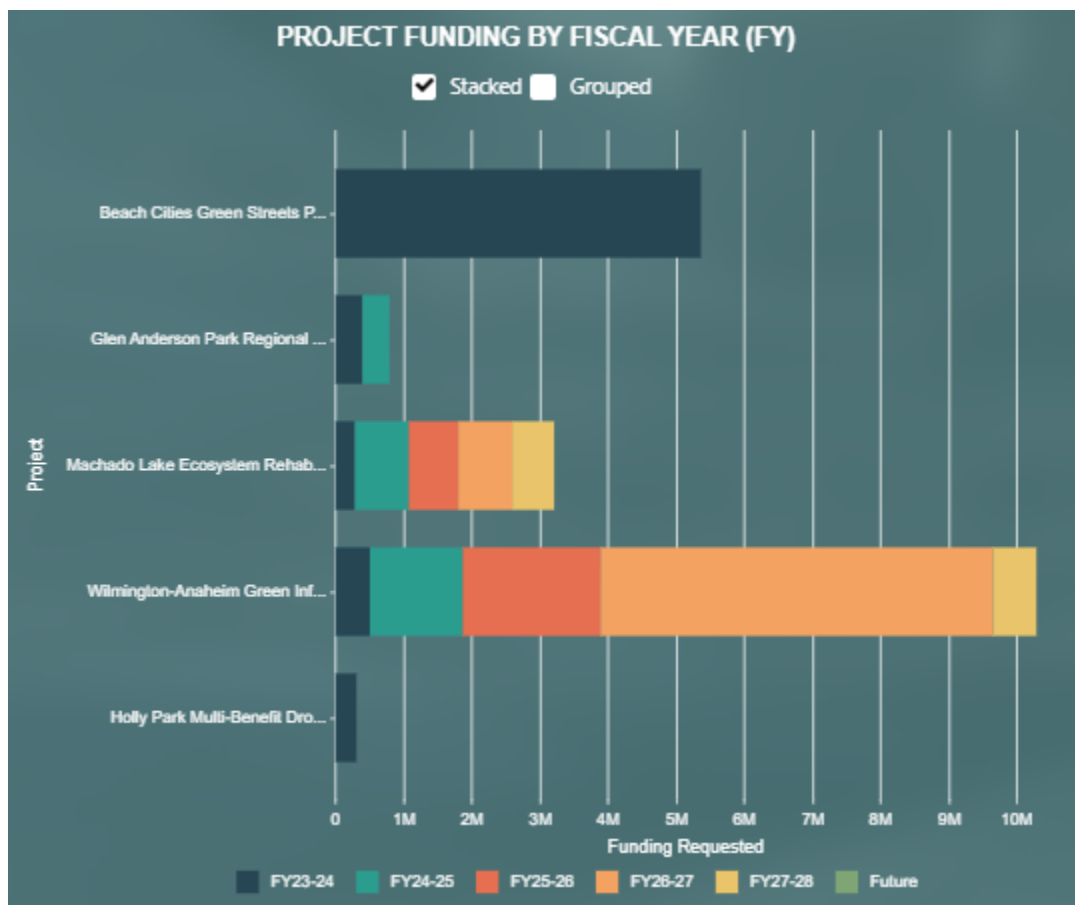
Below is a summary of the total funding allocated per year in the recommended SIP, including both new projects and continuing projects.

	Budget		Projections				
	FY23-24	FY24-25	FY25-26	FY26-27	FY27-28	Future Funding	TOTAL
A. Anticipated Annual Regional Program Funds Collected	\$17.4M	\$17.4M	\$17.4M	\$17.4M	\$17.4M		\$86.8M
B. Anticipated Annual Regional Program Funds Available (A+D) ⓘ	\$17.9M	\$17.7M	\$21.1M	\$28.4M	\$38.9M		
C. Total Recommendation in Current SIP	\$6.9M	\$2.5M	\$2.7M	\$6.6M	\$1.2M	\$0	\$19.9M
Total Allocated in Previous SIP(s)	\$10.7M	\$11.4M	\$7.4M	\$247k	\$546k	\$0	\$30.2M
D. Remaining Balance/Rollover Funds (B-C) ⓘ	\$517k	\$358k	\$3.8M	\$11M	\$21.6M	\$37.1M	
E. Percent Allocated (C/B) ⓘ	98%	79%	48%	24%	5%		58%

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Refer to Attachment A or the SIP tool (<https://portal.safeandcleanwaterla.org/sip-tool/>) for the Final Recommended SIP with additional project details.

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## 2 Summary of Meetings and Process

The WASC met six times between August 2022 and February 2023. Refer to <https://safecleanwaterla.org/south-santa-monica-bay-watershed-area/> for the current list of WASC members, meeting dates, and meeting materials.

### 2.1 Call for Projects

The Call for Projects for FY23-24 funding ended on July 31, 2022. After a check for completeness by the Los Angeles County Flood Control District (District) staff, the WASC received an overview of project submittals. The WASC discussed the Projects and voted to send all 4 Infrastructure Projects to be scored by the Scoring Committee.

### 2.2 Scoring

The Scoring Committee evaluated each project submittal and provided an official score based on the scoring criteria defined in the [Feasibility Study Guidelines](#). Since all Regional Program Projects must meet the Threshold Score of 60 points or more to be eligible for consideration in the Infrastructure Program, only those qualifying projects were returned to the WASC for further evaluation.

See Scoring Rubric for FY23-24 (<https://safecleanwaterla.org/wp-content/uploads/2023/01/FY23-24-Scoring-Rubric-20221201-SSMB.pdf>) for more details.

### 2.3 Presentations

The WASC received presentations from all Regional Program applicants that submitted complete proposals. Each presentation was allotted approximately 10 minutes of presentation time with 10 minutes for questions and answers; additional time for presentation or Q&A was accommodated when necessary. The committee members discussed each application at the conclusion of each presentation.

As appropriate, the WASC also received updates from the previous applicants on Projects, Project concepts, and Studies, that were previously approved from the FY20-21, FY21-22, and FY22-23 SIPs. Those recipients continue to execute their Transfer Agreements or Addendums, receive funds, initiate the approved activities, and begin the formal reporting process.

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### 2.4 Preliminary Ranking Worksheet

The WASC discussed each eligible Project and Project concept as a group. The applications were ranked by each committee member and the totals were aggregated as follows:

Program	Project Name	Score*	Program Place	Overall Place
IP	Glen Anderson Park Regional Stormwater Capture Green Streets	54	1	1
TRP	Holly Park Multi-Benefit Drought Resiliency and Stormwater Infiltration Project	49	1	2
IP	Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance	37	2	3
IP	Beach Cities Green Streets Project	35	3	4
IP	Wilmington-Anaheim Green Infrastructure Corridor Project	34	4	5

\* NOTE: These values are NOT project scores but rather a weighted representation of the committee's preliminary rankings to help prioritize funding consideration and discussion.

### 2.5 SIP Development

The WASC is aware of the District's in-progress Metrics and Monitoring Study that is intended to help inform future SIP development through the support of both early/coordinated planning as well as more meaningful tracking/monitoring of projects and benefits. These results, along with other efforts and regional plans related to identifying needs, priorities, and lessons learned, will continue to be grafted into the Regional Program process as able. In the meantime, the WASC reviewed and utilized all available information and guidance materials including, but not limited to, the items listed below. Please refer to the [Project Portal \(https://portal.safecleanwaterla.org/scw-reporting/map\)](https://portal.safecleanwaterla.org/scw-reporting/map) and the WASC webpage on the [Safe, Clean Water website \(www.safecleanwaterla.org\)](http://www.safecleanwaterla.org) for details.

- Project applications, factsheets, and presentations
- Safe Clean Water Spatial Data Library
- SIP Programming Tool
- Preliminary rankings, as applicable
- Anticipated future construction costs for projects
- Program Guidance
  - Programming of Nature-Based Solutions
  - Implementing Disadvantaged Community Policies in the Regional Program
  - Strengthening Community Engagement and Support
  - Water Supply
  - Partial Funding Guidelines

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The WASC discussed all available information and received public comments before voting to approve Projects and studies and their corresponding annual funding allocations into the recommended SIP.

### 2.6 Summary of Public Comment

The WASC received public comments which are available in the WASC meeting minutes on the [Safe, Clean Water website](#). The WASC did not receive any strong public input contrary to the recommended SIP. The WASC received public support for Heal the Bay Watershed Coordinator team and their efforts to continue robust grassroots neighborhood engagement and education. In addition, the WASC received public support for the Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance and Wilmington-Anaheim Green Infrastructure Corridor Projects.

## 3 Infrastructure Program

### 3.1 Submitted and Recommended Projects

All projects were evaluated as described above in Section 2 Summary of Meetings. Below is a list of all Projects submitted to the FY23-24 Infrastructure Program for this Watershed Area. Projects shown in white have been included in the recommended SIP.

Project Name	Project Applicant	Project Status	Phase(s)	Total Funding FY23-28
<b>Beach Cities Green Streets Project</b>	<b>City of Torrance</b>	Included in SIP	Construction	\$5,366,953.00
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	<b>City of Redondo Beach</b>	Included in SIP	Planning, Design	\$782,000.00
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	<b>City of Los Angeles, LA Sanitation and Environment</b>	Included in SIP	O & M	\$3,199,371.00
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	<b>City of Los Angeles, LA Sanitation and Environment</b>	Included in SIP	Planning, Design, Monitoring, Construction, O&M,	\$10,274,500.00

Refer to Attachment A or the SIP tool (<https://portal.safecleanwaterla.org/sip-tool/>) for the Final Recommended SIP with additional project details.

Note, Projects requesting only Design funds are expected to request Construction funds in subsequent years. In addition, all Projects included in the recommended SIP are expected to request additional funding for operations, maintenance, and monitoring for a minimum useful life of 30 years.

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### 3.2 Discussion of Criteria

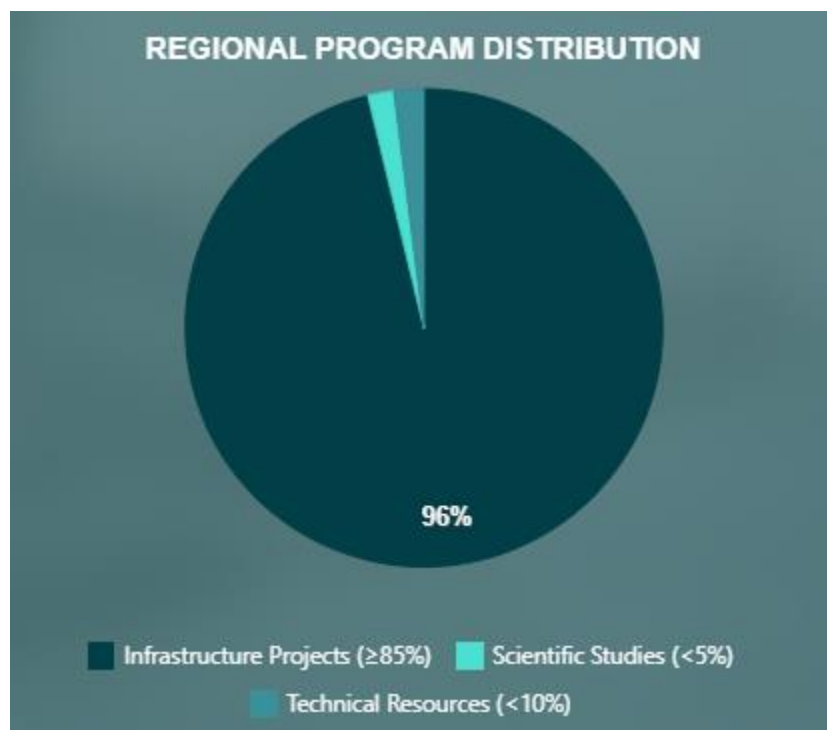
Per LACFCD Code Ch18.07.B.2, the SIPs shall be developed by the WASC in accordance with the criteria described below.

#### 3.2.1 Regional Program Allocations

*Compliant with LACFCD Code Ch18.07.B.2.a*

Below is a summary of the Regional Program allocations over the 5-year SIP, which includes both new and continuing projects.

Funding Program	Total SCW Funding Allocated FY23-28	Funding Distribution for Subprograms FY23-28
Infrastructure Program (≥85%)	\$47,938,534.50	95.6%
Scientific Studies (<5%)	\$881,034.70	1.8%
Technical Resources Program (<10%)	\$1,300,000.00	2.6%
<b>Grand Total</b>	<b>\$49,819,569.20</b>	



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### 3.2.2 Project Benefits

*Compliant with LACFCD Code Ch18.04.E*

The Scoring Committee confirmed the scores provided by each project including Water Quality Benefits, Water Supply Benefits, Community Investment Benefits, Nature-Based Solutions, and Leveraging Funds and Community Support as defined in the Feasibility Study Guidelines.

Below are the overall scoring category distributions for the new Infrastructure Program Projects included in the recommended SIP.



### 3.2.3 MS4 Compliance

*Compliant with LACFCD Code Ch18.07.B.2.b.*

Below is an overview of the applicant-entered water quality data for the new FY23-24 Infrastructure Program Projects included in the recommended SIP.

Project Name	Project Type	Capture Area (acres)	24-hr Capacity (acre-feet)
<b>Beach Cities Green Streets Project</b>	Wet	200	8.8
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	Wet	483	21.6



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Project Name	Project Type	Capture Area (acres)	24-hr Capacity (acre-feet)
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	Wet	14,156	154.0
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	Wet	173	6.0
<b>Grand Total</b>		<b>15,012</b>	<b>190.4</b>



NOTE: “Other” may include Dry Weather Projects, Copper, Lead, Toxics, Phosphorus, and Chloride. The Primary Pollutant addressed by the Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance is Phosphorus.

### 3.2.4 Disadvantaged Communities (DAC) Benefits

*Compliant with LACFCD Code Ch18.07.B.2.c.*

Based on the total Infrastructure Program funding allocations for the SIP and the ratio of the DAC population to the total population in each Watershed Area, funding for Projects that provide DAC Benefits over the 5-year SIP shall not be less than the value shown below. Below is an overview of Funding Allocated for DACs from FY23-28.

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## DISADVANTAGED COMMUNITY (DAC) ALLOCATION

<b>Required DAC Ratio</b>	30%
<b>Required Funding for DACs FY23-28 (110%)</b>	\$ 16,062,285
<b>Funding Allocated for DACs FY23-28</b>	\$ 26,043,271

\* These figures are based on the 2020 US Census and will be updated periodically.

As shown, the total Safe, Clean Water Funds benefiting DAC over a rolling 5-year period for the recommended SIP is greater than the required funding for DACs for this Watershed Area.

Below is an overview of the WASC-confirmed DAC Benefit for the new FY23-24 Infrastructure Program Projects included in the recommended SIP. To better assist with and standardize this determination in the future, the District developed interim guidance for implementing Disadvantage Community Policies in the Regional Program. Interim guidance is available on our website (<https://safecleanwaterla.org/2022-interim-guidance/>).

Project Name	Provides Benefit to a DAC	Total Funding FY23-28
<b>Beach Cities Green Streets Project</b>	No	\$5,366,953.00
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	Yes	\$782,000.00
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	Yes	\$3,199,371.00
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	Yes	\$10,274,500.00

### 3.2.5 Municipality Benefits

*Compliant with LACFCD Code Ch18.07.B.2.d.*

The ordinance language calls for a distribution of benefits, not necessarily just dollars invested. The currently recommended Projects are distributed throughout the Watershed Area to help comply with this rolling 5-year criterion in future years. The District intends to develop guidance for evaluating and tracking municipality benefits in future years.

Below is a summary of the Municipality in which each new FY23-24 Infrastructure Program Project included in the recommended SIP is located and the Municipalities within the Project's capture area.

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Project Name (Municipality)	Municipalities within Project Capture Area
<b>Beach Cities Green Streets Project</b>	Torrance
	Hermosa Beach
	Redondo Beach
	Manhattan Beach
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	Redondo Beach
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	Torrance
	Rolling Hills Estates
	Los Angeles
	Lomita
	Unincorporated (Los Angeles County)
	Carson
	Rolling Hills
	Rancho Palos Verdes
	Palos Verdes Estates
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	Los Angeles

### 3.2.6 Project Types and Sizes

*Compliant with LACFCO Code Ch18.07.B.2.e.*

Recommendations include a variety of projects to ensure compliance with this rolling 5-year criterion in future years.

Below is a summary of project types and the total capture area in acres for the new FY23-24 Infrastructure Program Projects included in the recommended SIP.

Project Name	Project Type	BMP Type	Capture Area (acres)
<b>Beach Cities Green Streets Project</b>	<b>Wet</b>	Infiltration Facility	200
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	<b>Wet</b>	Infiltration Well	483
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	<b>Wet</b>	Bioretention	14,156
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	<b>Wet</b>	Diversion to Sanitary Sewer	173
<b>Grand Total</b>			<b>15,012</b>

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### 3.2.7 Nature-Based Solutions

*Compliant with LACFCD Code Ch18.07.B.2.f.*

Below is a summary of the new FY23-24 Infrastructure Program Projects included in the recommended SIP that implement Nature-Based Solutions (NBS).



Project Name	Mimics Natural Processes	Uses Natural Materials
<b>Beach Cities Green Streets Project</b>	Yes	Yes
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	Yes	Yes
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	Yes	Yes
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	Yes	Yes

Mimics Natural Process: Implements natural processes or mimics natural processes to slow, detain, capture, and absorb/infiltrate water in a manner that protects, enhances and/or restores habitat, green space and/or usable open space.

Uses Natural Materials: Utilizes natural materials such as soils and vegetation with a preference for native vegetation.

For reference, the District developed interim guidance related to developing and programming Nature-Based Solutions. Interim guidance is available on our website (<https://safecleanwaterla.org/2022-interim-guidance/>).

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### 3.2.8 Leveraged Funds and Community Support

Below is a summary of leveraged funds, SCW funding allocations, and community support for the FY23-24 Infrastructure Program Projects included in the recommended SIP.

Project Name	Status of Leveraged Funds	Sum of Leveraged Funding	Community Support Score (max 4 points)
<b>Beach Cities Green Streets Project</b>	Money Received	\$2,550,000.00	4
	In Progress	\$100,000.00	
<b>Glen Anderson Park Regional Stormwater Capture Green Streets</b>	N/A	0	2
<b>Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance</b>	Commitment Received	\$2,554,816.00	4
<b>Wilmington-Anaheim Green Infrastructure Corridor Project</b>	Commitment Received	\$2,012,000.00	3
<b>Grand Total</b>		<b>\$7,216,816.00</b>	

\*NOTE: Community Support Points are awarded when the Project demonstrates strong local, community-based support and/or has been developed as part of a partnership with local NGOs/CBOs

For reference, the District developed interim guidance related to Strengthening Community Engagement and Support. Interim guidance is available on our website (<https://safecleanwaterla.org/2022-interim-guidance/>).

### 3.2.9 Long Term Planning Considerations

The WASC incorporated long term planning by considering anticipated future construction costs for continuing and new projects during SIP development. The future anticipated construction costs were estimated and confirmed by Infrastructure Program Project applicants and actual future SCW funding requests for construction may differ due to updated project estimates, leveraged funding, awarded grants, or local match. The majority of WASC members noted the purpose was to demonstrate progress toward MS4 compliance, provide a more accurate construction schedule/cost estimate, and to seek out potential leveraged funding options. Other WASC members expressed concerns with the proposed SIP, noting the limited capacity available for new Projects, Project Concepts brought forth by the Watershed Coordinator, previously funded TRPs that will seek future IP funding, and unforeseen circumstances.

In addition, the annual Operations and Maintenance (O&M) projections provided in the Project applications for the new and continuing Projects were included in the SIP tool and shown below. The recommended SIP anticipates a total annual O&M cost of \$2.8M of the anticipated \$17.4M annual Regional Program funds collected and will be accounted for in future SIPs.

Below is a summary of the total funding allocated per year in the recommended SIP, including estimated construction costs for both new projects and continuing projects. This represents the theoretical SIP projections based on currently anticipated additional funding requests to cover subsequent phases.

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	Budget		Projections					TOTAL	Annual O&M
	FY23-24	FY24-25	FY25-26	FY26-27	FY27-28	Future Funding			
A. Anticipated Annual Regional Program Funds Collected	\$17.4M	\$17.4M	\$17.4M	\$17.4M	\$17.4M		\$86.8M		
B. Anticipated Annual Regional Program Funds Available (A+D) <span style="color: teal;">❗</span>	\$17.9M	\$17.7M	\$19.5M	\$21M	\$26.8M				
C. Total Recommendation in Current SIP	\$6.9M	\$2.5M	\$2.7M	\$6.6M	\$1.2M	\$0	\$19.9M	\$1.4M	
Total Allocated in Previous SIP(s)	\$10.7M	\$13M	\$13.1M	\$5M	\$546k	\$0	\$42.3M	\$1.4M	
D. Remaining Balance/Rollover Funds (B-C) <span style="color: teal;">❗</span>	\$517k	\$358k	\$2.1M	\$3.6M	\$9.4M	\$25M		Total: \$2.8M	
E. Percent Allocated (C/B) <span style="color: teal;">❗</span>	98%	88%	81%	55%	7%		72%		

\*NOTE: This is not the recommended SIP.

Refer to the SIP tool (<https://portal.safecleanwaterla.org/sip-tool/>) for the Final Recommended SIP with anticipated construction costs (“Final - Assuming Construction Cost” scenario). The theoretical SIP allows enough future budget to accommodate projects’ anticipated construction costs. The majority of the members in the WASC were confident in the Watershed Area’s ability to solidify other funding sources to bring these projects to completion. If unable to do so, the WASC understands they will need to defer the construction of certain projects to occur in later years.

#### 3.2.10 Other Considerations

The projects included in the recommended SIP were selected based on the result from the Preliminary Ranking Worksheet and robust discussion of Project benefits, anticipated future funding requests, and available funding.

The WASC received presentations from the Infrastructure Program applicant during the WASC meeting on January 18, 2023.

### 3.3 Continuing Projects

All projects were evaluated as described above in Section 2 Summary of Meetings and Process. Below is a list of continuing Infrastructure Program Projects included in the SIP for this Watershed Area.

Project Name	Project Applicant	SIP Year	SIP Funding Status	Phase(s)	Project Funding Remaining
<b>Downtown Lomita Multi-Benefit Stormwater Project</b>	<b>City of Lomita</b>	FY22-23	Continuing Allocation	Design	\$149,300.00
<b>Fulton Playfield Multi-Benefit Infiltration Project</b>	<b>City of Redondo Beach</b>	FY22-23	Continuing Allocation	Planning, Design, Construction, O&M	\$4,199,138.00

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Project Name	Project Applicant	SIP Year	SIP Funding Status	Phase(s)	Project Funding Remaining
<b>Hermosa Beach Multi-Benefit Parking Lot Greening Project (Lot D)</b>	<b>Hermosa Beach</b>	FY22-23	Continuing Allocation	Construction	\$211,975.00
<b>West Rancho Dominguez - San Pedro Street Green Improvement</b>	<b>Los Angeles County Public Works</b>	FY22-23	Completed Allocation	Design	\$0.00
<b>Carson Stormwater and Runoff Capture Project at Carriage Crest Park</b>	<b>City of Carson</b>	FY 21-22	Continuing Allocation	Operations & Maintenance	\$622,500.00
<b>South Santa Monica Bay Water Quality Enhancement: 28th Street Storm Drain Infiltration Project</b>	<b>City of Manhattan Beach</b>	FY 21-22	Continuing Allocation	Design, Construction, Operations & Maintenance	\$12,117,197.50
<b>Wilmington Neighborhood Greening Project</b>	<b>City of Los Angeles, LA Sanitation and Environment</b>	FY 21-22	Continuing Allocation	Planning, Design, Construction, Operations & Maintenance	\$11,015,600.00
<b>Stormwater Basin Expansion Project</b>	<b>City of Torrance</b>	FY 21-22	Completed Allocation	Construction	\$0.00
<b>Alondra Park Multi Benefit Stormwater Capture Project</b>	<b>Los Angeles County</b>	FY20-21	Completed Allocation	Construction	\$0.00
<b>Torrance Airport Storm Water Basin Project, Phase 2</b>	<b>City of Torrance</b>	FY 20-21	Completed Allocation	Design	\$0.00

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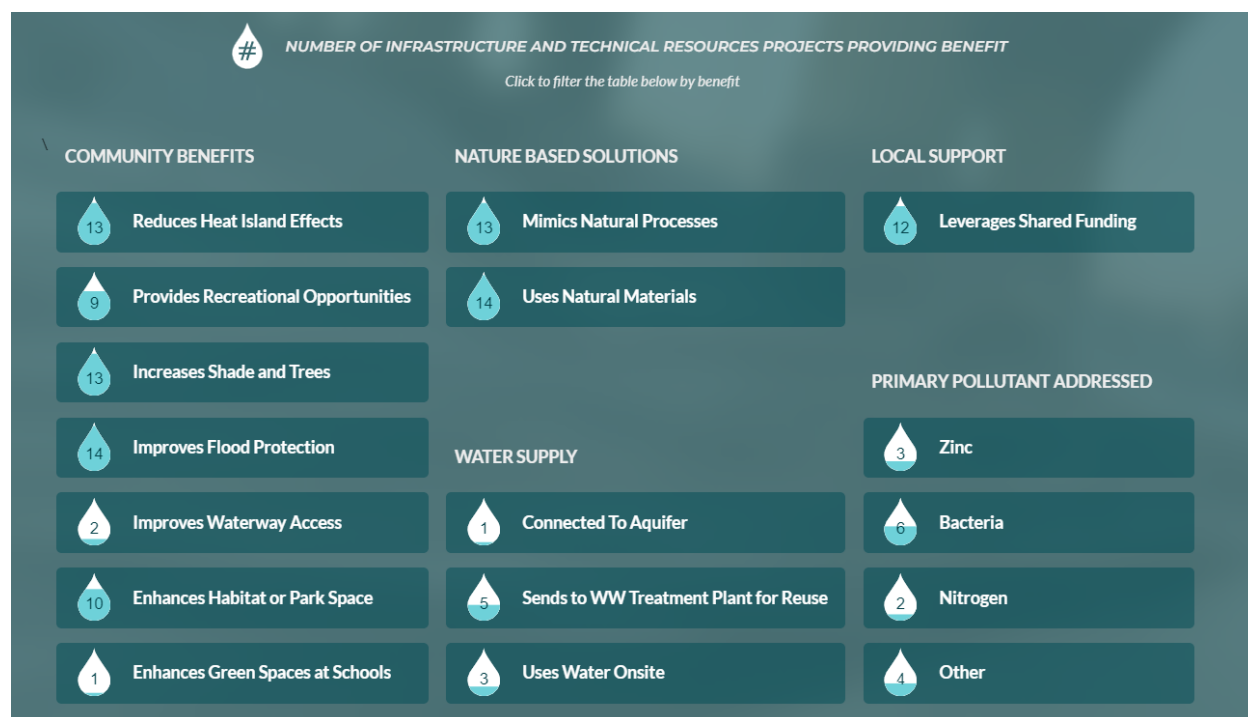
Project Name	Project Applicant	SIP Year	SIP Funding Status	Phase(s)	Project Funding Remaining
Wilmington Q Street Local Urban Area Flow Management Project	City of Los Angeles, LA Sanitation and Environment	FY 20-21	Completed Allocation	Construction	\$0.00

Refer to Attachment A or the SIP tool (<https://portal.safecleanwaterla.org/sip-tool/>) for the Final Recommended SIP with additional project details and refer to Attachment B for a Summary to Date.

### 3.4 Projected Watershed Area Benefits To-Date

Below is a summary of the estimated aggregate benefits for Infrastructure Program Projects included in the approved FY20-21 SIP, FY21-22 SIP, FY22-23 SIP, and recommended FY23-24 SIP.

Area Managed by Projects (acres)	25,409
Project Storage Capacity (acre-feet)	296
Annual Average Stormwater Capture (acre-feet)	2,261
Dry Weather Inflow to Projects (cubic feet per sec)	3





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### 4 Technical Resources Program

Per LACFCO Code Ch18.07.D, the purpose of the Technical Resources Program is to provide Technical Assistance Teams to assist with the development of Feasibility Studies and to provide Watershed Coordinators.

#### 4.1 Submitted and Recommended Project Concepts

Below is a list of all Project concepts submitted to the FY23-24 Technical Resources Program for this Watershed Area. Project concepts shown in white have been included in the recommended SIP.

Project Name	Project Applicant	SIP Programming Status	Total Funding Allocated
<b>Holly Park Multi-Benefit Drought Resiliency and Stormwater Infiltration Project</b>	<b>City Of Hawthorne</b>	Included in SIP	\$300,000.00

A placeholder to fund one Watershed Coordinator for up to \$200k/year was included in the recommended SIP.

Refer to Attachment A or the SIP tool (<https://portal.safecleanwaterla.org/sip-tool/>) for the Final Recommended SIP with additional project details.

#### 4.2 Continuing Project Concepts

Below is a list of continuing Technical Resources Program Project concepts included previous SIPs for this Watershed Area.

Project Name	Project Applicant	SIP Year	Status	Note
<b>City of Lawndale Southern Revitalization Project</b>	<b>City of Lawndale</b>	FY22-23	In Progress	
<b>Darby Park Multi-Benefit Project</b>	<b>City of Inglewood</b>	FY22-23	In Progress	
<b>Palos Verdes Peninsula Multi-Benefit Flow Diversion Project</b>	<b>City of Rolling Hills Estates</b>	FY21-22	In Progress	
<b>Prioritization of Parkway BMPs for Dominguez Channel/ Harbors Toxics TMDL</b>	<b>City of Torrance</b>	FY21-22	In Progress	
<b>Eastview Park</b>	<b>City of Rancho Palos Verdes</b>	FY20-21	In Progress	
<b>Harbor City Park Multi-Benefit Stormwater Capture Project</b>	<b>Los Angeles County</b>	FY20-21	In Progress	

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### 4.3 Discussion

The WASC received presentation from the Technical Resources Program applicant during the WASC meeting on October 19, 2022. The WASC decided to fund 1 Project concept (Holly Park Multi-Benefit Drought Resiliency and Stormwater Infiltration Project) and 1 Watershed Coordinator (Heal the Bay).

## 5 Scientific Studies Program

Per LACFCD Code Ch18.07.E, the purpose of the Scientific Studies Program is to provide funding for scientific and technical activities.

### 5.1 Submitted and Recommended Studies

There were no Scientific Studies Program applications submitted this year.

Refer to Attachment A or the SIP tool (<https://portal.safecleanwaterla.org/sip-tool/>) for the Final Recommended SIP with additional project details.

### 5.2 Continuing Studies

Below is a list of all the Scientific Studies that were included in the previous SIPs.

Project Name	Project Applicant	SIP Year	SIP Funding Status	Approved Funding Remaining
Microplastics in LA County Stormwater	University of California Riverside	FY22-23	Continuing Allocation	\$162,592.75
Regional Pathogen Reduction Study	Gateway Water Management Authority	FY21-22	Continuing Allocation	\$718,441.95
Recalculation of Wet Weather Zinc Criterion	City of Los Angeles Sanitation	FY20-21	Completed Allocation	\$0.00

### 5.3 Discussion

There were no Scientific Studies Program applications submitted this year. The WASC decided to continue funding Regional Pathogen Reduction Study and Microplastics in LA County Stormwater.

## 6 Next Steps

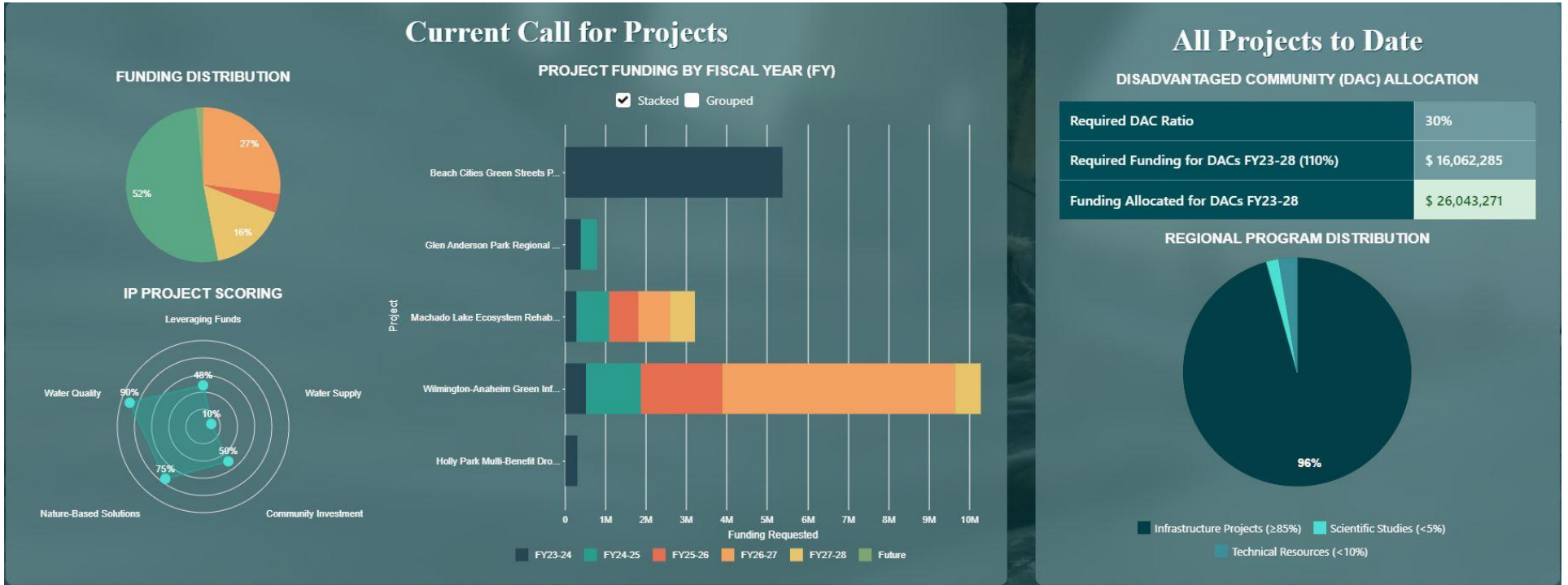
The WASC requests that the Regional Oversight Committee (ROC) advance the recommended SIP to the Board of Supervisors for approval.

Next WASC meeting(s):

- May 17, 2023 (to consider ROC feedback, if available)

Additional meetings to be scheduled to consider ROC feedback, if necessary.

Attachment A  
Final Recommended SIP – South Santa Monica Bay



	Budget		Projections					TOTAL	Annual O&M
	FY23-24	FY24-25	FY25-26	FY26-27	FY27-28	Future Funding			
A. Anticipated Annual Regional Program Funds Collected	\$17.4M	\$17.4M	\$17.4M	\$17.4M	\$17.4M		\$86.8M		
B. Anticipated Annual Regional Program Funds Available (A+D) ⓘ	\$17.9M	\$17.7M	\$21.1M	\$28.4M	\$38.9M				
C. Total Recommendation in Current SIP	\$6.9M	\$2.5M	\$2.7M	\$6.6M	\$1.2M	\$0	\$19.9M	\$1.4M	
Total Allocated in Previous SIP(s)	\$10.7M	\$11.4M	\$7.4M	\$247k	\$546k	\$0	\$30.2M	\$1.4M	
D. Remaining Balance/Rollover Funds (B-C) ⓘ	\$517k	\$358k	\$3.8M	\$11M	\$21.6M	\$37.1M		Total: \$2.8M	
E. Percent Allocated (C/B) ⓘ	98%	79%	48%	24%	5%		58%		

Attachment A  
Final Recommended SIP

Watershed Area South Santa Monica Bay

Row Labels	Project Lead	DAC	FY 23-24 Budget	FY 24-25 Projection	FY 25-26 Projection	FY 26-27 Projection	FY 27-28 Projection	Anticipated SCW Funding FY 23-28
<b>FY20-21</b>			<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$1,000,000.00</b>
Infrastructure Project			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Alondra Park Multi Benefit Stormwater Capture Project	Los Angeles County	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Torrance Airport Storm Water Basin Project, Phase 2	City of Torrance	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Wilmington Q Street Local Urban Area Flow Management Project	City of Los Angeles, Bureau of Sanitation	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Scientific Study			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Recalculation of Wet Weather Zinc Criterion	City of Los Angeles Sanitation	No	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Technical Resource			\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,000,000.00
Eastview Park	City of Rancho Palos Verdes	No	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Harbor City Park Multi-Benefit Stormwater Capture Project	Los Angeles County	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
South Santa Monica Bay Watershed Coordinator WC: Heal the Bay	Los Angeles County Flood Control District	No	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,000,000.00
<b>FY21-22</b>			<b>\$7,933,801.36</b>	<b>\$9,412,027.45</b>	<b>\$7,127,910.64</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$24,473,739.45</b>
Infrastructure Project			\$7,600,932.50	\$9,081,932.50	\$7,072,432.50	\$0.00	\$0.00	\$23,755,297.50
Carson Stormwater and Runoff Capture Project at Carriage Crest Park	City of Carson	Yes	\$207,500.00	\$207,500.00	\$207,500.00	\$0.00	\$0.00	\$622,500.00
South Santa Monica Bay Water Quality Enhancement: 28th Street Storm Drain Infiltration Project	City of Manhattan Beach	No	\$4,005,732.50	\$4,055,732.50	\$4,055,732.50	\$0.00	\$0.00	\$12,117,197.50
Stormwater Basin Expansion Project	City of Torrance	No	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Wilmington Neighborhood Greening Project	City of Los Angeles, Bureau of Sanitation and Environment	Yes	\$3,387,700.00	\$4,818,700.00	\$2,809,200.00	\$0.00	\$0.00	\$11,015,600.00
Scientific Study			\$332,868.86	\$330,094.95	\$55,478.14	\$0.00	\$0.00	\$718,441.95
Regional Pathogen Reduction Study	(blank)	No	\$332,868.86	\$330,094.95	\$55,478.14	\$0.00	\$0.00	\$718,441.95
Technical Resource			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Palos Verdes Peninsula Multi-Benefit Flow Diversion Project	City of Rolling Hills Estates	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Prioritization of Parkway BMPs for Dominguez Channel/ Harbors Toxics TMDL	City of Torrance	No	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>FY22-23</b>			<b>\$2,520,717.50</b>	<b>\$1,759,150.25</b>	<b>\$50,500.00</b>	<b>\$46,500.00</b>	<b>\$346,138.00</b>	<b>\$4,723,005.75</b>
Infrastructure Project			\$2,434,275.00	\$1,683,000.00	\$50,500.00	\$46,500.00	\$346,138.00	\$4,560,413.00
Downtown Lomita Multi-Benefit Stormwater Project	City of Lomita	Yes	\$149,300.00	\$0.00	\$0.00	\$0.00	\$0.00	\$149,300.00
Fulton Playfield Multi-Benefit Infiltration Project	City of Redondo Beach	No	\$2,073,000.00	\$1,683,000.00	\$50,500.00	\$46,500.00	\$346,138.00	\$4,199,138.00
Hermosa Beach Multi-Benefit Parking Lot Greening Project (Lot D)	Hermosa Beach	No	\$211,975.00	\$0.00	\$0.00	\$0.00	\$0.00	\$211,975.00
West Rancho Dominguez - San Pedro Street Green Improvement	Los Angeles County Public Works	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Scientific Study			\$86,442.50	\$76,150.25	\$0.00	\$0.00	\$0.00	\$162,592.75
Microplastics in LA County Stormwater	Dr. Andrew Gray, University of California Riverside	No	\$86,442.50	\$76,150.25	\$0.00	\$0.00	\$0.00	\$162,592.75
Technical Resource			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
City of Lawndale Southern Revitalization Project	City of Lawndale	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Darby Park Multi-Benefit Project	City of Inglewood	Yes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>FY23-24</b>			<b>\$6,853,859.00</b>	<b>\$2,548,280.00</b>	<b>\$2,743,180.00</b>	<b>\$6,550,280.00</b>	<b>\$1,227,225.00</b>	<b>\$19,922,824.00</b>
Infrastructure Project			\$6,553,859.00	\$2,548,280.00	\$2,743,180.00	\$6,550,280.00	\$1,227,225.00	\$19,622,824.00
Beach Cities Green Streets Project	City of Torrance	No	\$5,366,953.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,366,953.00
Glen Anderson Park Regional Stormwater Capture Green Streets	City of Redondo Beach	Yes	\$391,000.00	\$391,000.00	\$0.00	\$0.00	\$0.00	\$782,000.00
Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance	City of Los Angeles, Department of Public Works, LA Sanitation and Environment	Yes	\$282,706.00	\$794,880.00	\$728,280.00	\$794,880.00	\$598,625.00	\$3,199,371.00
Wilmington-Anaheim Green Infrastructure Corridor Project	City of Los Angeles, Department of Public Works, LA Sanitation and Environment	Yes	\$513,200.00	\$1,362,400.00	\$2,014,900.00	\$5,755,400.00	\$628,600.00	\$10,274,500.00
Technical Resource			\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
Holly Park Multi-Benefit Drought Resiliency and Stormwater Infiltration Project	City of Hawthorne	Yes	\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
<b>Grand Total</b>			<b>\$17,508,377.86</b>	<b>\$13,919,457.70</b>	<b>\$10,121,590.64</b>	<b>\$6,796,780.00</b>	<b>\$1,773,363.00</b>	<b>\$50,119,569.20</b>

Attachment B  
Summary to Date

Watershed Area	South Santa Monica Bay
Included in SIP?	Yes

Row Labels	Project Lead	DAC	FY 20-21 Budget	FY 21-22 Budget	FY 22-23 Budget	FY 23-24 Budget	FY 24-25 Projection	FY 25-26 Projection	FY 26-27 Projection	FY 27-28 Projection	Total Anticipated SCW Funding
<b>FY20-21</b>			<b>\$14,388,796.00</b>	<b>\$12,478,529.00</b>	<b>\$10,220,261.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$38,087,586.00</b>
<b>Infrastructure Project</b>			<b>\$13,574,325.00</b>	<b>\$12,255,375.00</b>	<b>\$10,000,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$35,829,700.00</b>
Alondra Park Multi Benefit Stormwater Capture Project	Los Angeles County	Yes	\$10,000,000.00	\$10,000,000.00	\$10,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,000,000.00
Torrance Airport Storm Water Basin Project, Phase 2	City of Torrance	Yes	\$906,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$906,000.00
Wilmington Q Street Local Urban Area Flow Management Project	City of Los Angeles, Bureau of Sanitation	Yes	\$2,668,325.00	\$2,255,375.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,923,700.00
Scientific Study			\$14,471.00	\$23,154.00	\$20,261.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$57,886.00
Recalculation of Wet Weather Zinc Criterion	City of Los Angeles Sanitation	No	\$14,471.00	\$23,154.00	\$20,261.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$57,886.00
<b>Technical Resource</b>			<b>\$800,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$200,000.00</b>	<b>\$2,200,000.00</b>
Eastview Park	City of Rancho Palos Verdes	No	\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
Harbor City Park Multi-Benefit Stormwater Capture Project	Los Angeles County	Yes	\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
South Santa Monica Bay Watershed Coordinator WC: Heal the Bay	Los Angeles County Flood Control District	No	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,600,000.00
<b>FY21-22</b>			<b>\$7,519,483.42</b>	<b>\$5,061,869.98</b>	<b>\$7,933,801.36</b>	<b>\$9,412,027.45</b>	<b>\$7,127,910.64</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$37,055,092.85</b>
<b>Infrastructure Project</b>			<b>\$6,872,327.00</b>	<b>\$4,717,905.50</b>	<b>\$7,600,932.50</b>	<b>\$9,081,932.50</b>	<b>\$7,072,432.50</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$35,345,530.00</b>
Carson Stormwater and Runoff Capture Project at Carriage Crest Park	City of Carson	Yes		\$207,500.00	\$207,500.00	\$207,500.00	\$207,500.00	\$207,500.00	\$0.00	\$0.00	\$1,037,500.00
South Santa Monica Bay Water Quality Enhancement: 28th Street Storm Drain Infiltration Project	City of Manhattan Beach	No	\$1,497,100.00	\$4,005,732.50	\$4,005,732.50	\$4,055,732.50	\$4,055,732.50	\$0.00	\$0.00	\$0.00	\$17,620,030.00
Stormwater Basin Expansion Project	City of Torrance	No	\$4,505,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,505,000.00
Wilmington Neighborhood Greening Project	City of Los Angeles, Bureau of Sanitation and Environment	Yes		\$662,727.00	\$504,673.00	\$3,387,700.00	\$4,818,700.00	\$2,809,200.00	\$0.00	\$0.00	\$12,183,000.00
Scientific Study				\$47,156.42	\$343,964.48	\$332,868.86	\$330,094.95	\$55,478.14	\$0.00	\$0.00	\$1,109,562.85
Regional Pathogen Reduction Study	Gateway Water Management Authority	No		\$47,156.42	\$343,964.48	\$332,868.86	\$330,094.95	\$55,478.14	\$0.00	\$0.00	\$1,109,562.85
<b>Technical Resource</b>			<b>\$600,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$600,000.00</b>
Palos Verdes Peninsula Multi-Benefit Flow Diversion Project	City of Rolling Hills Estates	Yes		\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
Prioritization of Parkway BMPs for Dominguez Channel/ Harbors											
Toxics TMDL	City of Torrance	No		\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
<b>FY22-23</b>			<b>\$2,090,133.75</b>	<b>\$2,520,717.50</b>	<b>\$2,520,717.50</b>	<b>\$1,759,150.25</b>	<b>\$50,500.00</b>	<b>\$46,500.00</b>	<b>\$346,138.00</b>	<b>\$346,138.00</b>	<b>\$6,813,139.50</b>
<b>Infrastructure Project</b>			<b>\$1,404,975.00</b>	<b>\$2,434,275.00</b>	<b>\$1,683,000.00</b>	<b>\$50,500.00</b>	<b>\$46,500.00</b>	<b>\$346,138.00</b>	<b>\$346,138.00</b>	<b>\$5,965,388.00</b>	
Downtown Lomita Multi-Benefit Stormwater Project	City of Lomita	Yes		\$300,000.00	\$149,300.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$449,300.00
Fulton Playfield Multi-Benefit Infiltration Project	City of Redondo Beach	No		\$93,000.00	\$2,073,000.00	\$1,683,000.00	\$50,500.00	\$46,500.00	\$346,138.00	\$346,138.00	\$4,292,138.00
Hermosa Beach Multi-Benefit Parking Lot Greening Project (Lot D)	Hermosa Beach	No		\$211,975.00	\$211,975.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$423,950.00
West Rancho Dominguez - San Pedro Street Green Improvement	Los Angeles County Public Works	Yes		\$800,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$800,000.00
Scientific Study				\$85,158.75	\$86,442.50	\$76,150.25	\$0.00	\$0.00	\$0.00	\$0.00	\$247,751.50
Microplastics in LA County Stormwater	Dr. Andrew Gray, University of California Riverside	No		\$85,158.75	\$86,442.50	\$76,150.25	\$0.00	\$0.00	\$0.00	\$0.00	\$247,751.50
<b>Technical Resource</b>			<b>\$600,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$600,000.00</b>
City of Lawndale Southern Revitalization Project	City of Lawndale	Yes		\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
Darby Park Multi-Benefit Project	City of Inglewood	Yes		\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
<b>FY23-24</b>			<b>\$6,553,859.00</b>	<b>\$2,548,280.00</b>	<b>\$2,743,180.00</b>	<b>\$6,550,280.00</b>	<b>\$1,227,225.00</b>	<b>\$19,622,824.00</b>	<b>\$19,922,824.00</b>	<b>\$19,922,824.00</b>	
<b>Infrastructure Project</b>			<b>\$5,366,953.00</b>	<b>\$391,000.00</b>	<b>\$282,706.00</b>	<b>\$794,880.00</b>	<b>\$728,280.00</b>	<b>\$598,625.00</b>	<b>\$3,199,371.00</b>	<b>\$10,274,500.00</b>	
Beach Cities Green Streets Project	City of Torrance	No	\$5,366,953.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,366,953.00
Glen Anderson Park Regional Stormwater Capture Green Streets	City of Redondo Beach	Yes		\$391,000.00	\$391,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$782,000.00
Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance	City of Los Angeles, Department of Public Works, LA Sanitation and Environment	Yes			\$282,706.00	\$794,880.00	\$728,280.00	\$794,880.00	\$598,625.00	\$0.00	\$3,199,371.00
Wilmington-Anaheim Green Infrastructure Corridor Project	City of Los Angeles, Department of Public Works, LA Sanitation and Environment	Yes			\$513,200.00	\$1,362,400.00	\$2,014,900.00	\$5,755,400.00	\$628,600.00	\$0.00	\$10,274,500.00
<b>Technical Resource</b>			<b>\$300,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$300,000.00</b>
Holly Park Multi-Benefit Drought Resiliency and Stormwater Infiltration Project	City of Hawthorne	Yes		\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00
<b>Grand Total</b>			<b>\$14,388,796.00</b>	<b>\$19,998,012.42</b>	<b>\$17,372,264.73</b>	<b>\$17,508,377.86</b>	<b>\$13,919,457.70</b>	<b>\$10,121,590.64</b>	<b>\$6,796,780.00</b>	<b>\$1,773,363.00</b>	<b>\$101,878,642.35</b>