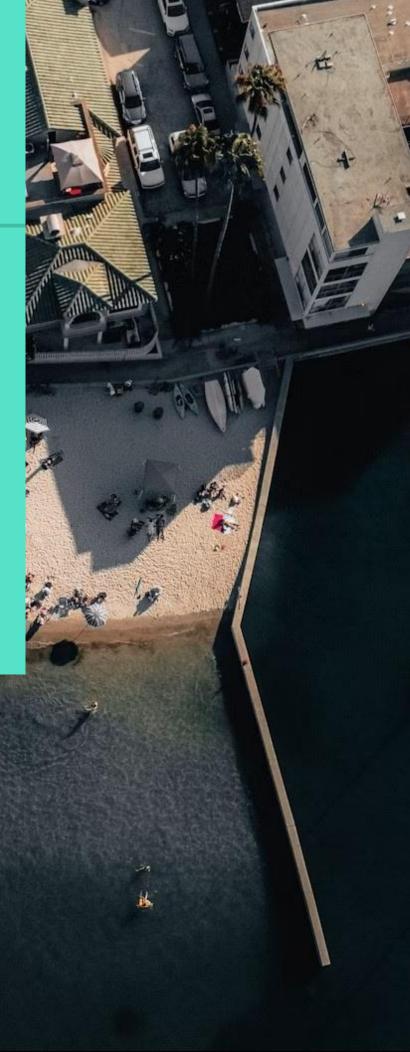


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Initial Watershed Plan Executive Summary Lower San Gabriel River Watershed Area

August 2025





Introduction to Watershed Planning

The Safe, Clean Water Program (SCW Program) was established to improve water quality, enhance local water supply, and deliver community investments that advance sustainability, equity, and climate resilience. As the nation's largest stormwater-focused program, the SCW Program supports multi-benefit Projects and Programs that improve water quality while delivering meaningful outcomes for communities across the Los Angeles region.

In July 2023, the Los Angeles County Board of Supervisors adopted a motion 1 to accelerate implementation of the SCW Program through a comprehensive Watershed Planning effort to identify areas in the region that provide opportunities for developing impactful water quality, water supply, and community enhancing multi-benefit Projects. This motion also established a new, dedicated team within Los Angeles County Public Works (Public Works), known as the SCW Program Watershed Planning Section, to lead Watershed Planning efforts and facilitate regional and watershed-based planning. Watershed Planning efforts identify opportunities and refine metrics, called Indicators and targets to support a range of interested parties—Public Works, the Regional Oversight Committee (ROC), the Watershed Area Steering Committees (WASCs), Scorring Committee (SC), Municipalities, Project and Program proponents, advocacy groups, schools and school districts, and others—in tracking SCW Program progress and making strategic investments in the most impactful multi-benefit Projects and Programs. A major milestone of Watershed Planning includes the delivery of nine Initial Watershed Plans, one for each SCW Program Watershed Area (WA), and a companion online Watershed Planning Tool (Planning Tool).

This SCW Program Initial Watershed Plan for the Lower San Gabriel River (LSGR) WA, and the <u>Planning Tool</u>, offer guidance to Public Works, the LSGR WASC, Municipalities, and Project and Program proponents for the advancement of Projects and Programs that deliver multiple benefits to support progress toward achieving the 14 SCW Program Goals (Goals).

Developed through a collaborative and responsive phased engagement approach², the Initial Watershed Plans incorporate engagement input from the SCW Program governance committees (i.e., the WASCs, ROC, and SC) and other interested parties (i.e., OurWaterLA, schools). The Initial Watershed Plans reflect governance committee

¹Board of Supervisors Motion of Jul 25, 2023, Item 23 Accelerating Implementation of the SCW Program.

² The Initial Watershed Plan engagement process followed a "listen–confirm–advance" approach—listening to input from the WASC and ROC, confirming a shared understanding to ensure alignment, and using validated input to guide analyses and set priorities. See Chapter 1 and Appendix C for more information on engagement.

priorities and draw on their regional expertise. Initial Watershed Plans are not allpurpose watershed management plans; rather, they define what can be achieved within the scope and financial framework of the SCW Program. Key takeaways from this Initial Watershed Plan are listed below with supporting infographics to follow:

- Key WA characteristics, including challenges and potential to advance the 14 Goals.
- Summary of benefits by SCW Program Projects funded to date (baselines),
- Aspirational and quantitative SCW Program- and WA-wide targets for future outcomes that are rooted in the Goals,
- Strategies, actions, and opportunities to address WA Needs and local priorities to enhance the delivery of benefits provided by SCW Program Projects and Programs, and
- Next steps and recommendations for a proposed Adaptive Management for the continued advancement and improvement of the SCW Program.

The Initial Watershed Plans and Planning Tool support the acceleration of progress toward and tracking of Goals and clearly communicate governance committee direction and priorities. The following interested parties can use these received to the communicate of the communicate of



priorities. The following interested parties can use these resources as follows:

- Public Works, the ROC, the SC, and WASCs can use these resources to communicate priorities, assess Project benefits, and guide future Stormwater Investment Plans and funding decisions.
- Municipalities and Project, Program, Project Concept, and Scientific Study proponents can align Projects and Programs with strategies and WA and community priorities, identify opportunities, and select design features that address WA Needs. For Municipalities, these resources may support Municipal Annual Plans. Alignment with the Initial Watershed Plans is required when planning and applying for SCW Program funding.
- Community members, the regulatory community, and other interested parties can learn about Initial Watershed Plan outputs, explore local Project benefits, and advocate for priorities through the Community Strengths and Needs Assessment Survey (CSNA).

Together, the Initial Watershed Plans and Planning Tool launch an Adaptive Watershed Planning cycle that assesses progress and prompts adjustments to targets and strategies to address future priorities, as needed.

This figure is a visual table of contents which outlines the chapters of the LSGR WA Initial Watershed Plan.

1

Introduction

Provides SCW Program background, introduces Watershed Planning and its process, details Watershed Planning engagement, and highlights key supporting efforts, including SCW Program Scientific Studies and the Metrics and Monitoring Study.



(2)

Watershed Area Characteristics

Summarizes Watershed Area characteristics to provide an overview of its potential and challenges in achieving SCW Program Goals. These characteristics inform tailored targets and strategies for the Watershed Area.

(3)

Baselines of Benefits Provided by Funded Projects (FY20-21 to FY 24-25)

Summarizes funded SCW Program Projects and estimates baselines and forecasts, providing a foundation for adaptive Watershed Planning.

Initial Watershed

Quantifying Progress Toward SCW Program Goals

Introduces metrics for quantifying SCW Program Project benefits and sets initial targets for tracking progress toward SCW Program Goals.

Plan Table of Contents

5

4

Strategies for Addressing Needs and Achieving Goals

Identifies Watershed Area Needs and outlines strategies, actions, and opportunities to address Watershed Area Needs and support achievement of SCW Program Goals. Composite opportunities—those that integrate strategies which support multiple SCW Program Goals—are also outlined to support streamlined, multi-benefit Project implementation.



6

Watershed Planning Tool

Introduces the online Watershed Planning Tool that supports strategic decision-making and communicates SCW Program progress through an interactive map and dashboard.

7

Next Steps and Recommendations

Outlines key Initial Watershed Plan limitations and data gaps and provides recommendations to advance Watershed Planning through Watershed Planning Tool updates and future Adaptive Watershed Plans.

A-J

Appendices

Provides definitions for key Watershed Planning terms, Indicators, and Performance Measures. Summarizes Watershed Planning engagement and the Community Strengths and Needs Assessment (CSNA). Summarizes analyses and data sources used to establish baselines, set targets, and identify opportunities. Features full-page opportunity maps for the Watershed Area, individual Municipalities, and Supervisorial Districts.

Watershed Area Characteristics

The following WA characteristics offer insight into where there is potential to achieve Goals and where challenges persist. Understanding these WA-specific factors helps establish SCW Program targets and identification of meaningful strategies to support the long-term achievement of Goals.

See Chapter 2

The LSGR WA includes 15 Municipalities and parts of Unincorporated Los Angeles County, with the majority of the WA falling within Long Beach (21%) and Whittier (12%). The WA spans approximately 80,800 acres in southeastern Los Angeles County, stretching from an area at the lower portion of the San Gabriel River commonly known as Whitter Narrows, encompassing Coyote Creek, to San Gabriel River's outlet at the Pacific Ocean at the Los Angeles and Orange County boundary in Long Beach. Due to a large impervious landscape, the LSGR WA produce high volumes of stormwater runoff—about 60,000 acre-feet per year on average—with high pollutant loads needing management. The WA is also characterized by a high proportion of low-income and historically underserved neighborhoods, setting it apart as an area with high environmental justice needs.

The following Municipalities are located within the LSGR WA, with the Municipality covering the largest portion of the WA listed first.

Long Beach, Whittier, Santa Fe Springs, Lakewood, Unincorporated County, Norwalk, Cerritos, La Mirada, La Habra Heights, Pico Rivera, Downey, Bellflower, Paramount, Artesia, Signal Hill, Hawaiian Gardens

Other key LSGR WA characteristics include:

- Zinc and bacteria are priority pollutants for Watershed Planning
- 58% of land cover consists of impervious surfaces
- 20% of the urban area is covered by tree canopy
- 8% is parks and open space
- 15% of the total population resides in a disadvantaged community (DAC)
- Spans two managed groundwater basins: the Central Basin and West Coast Basin

This panel details key potential opportunities and challenges for delivering water quality (top). water supply (middle) and community (bottom) benefits.

Potential & Challenges for Delivering Water Quality Benefits



Land cover is approximately 58% impervious surfaces, resulting in high stormwater runoff and water quality degradation, particularly in the WA's coastal urban cities.

Potential

- There is potential to implement both high-impact regional Projects in areas with elevated pollutant loads and smaller, distributed efforts throughout the watershed to support ongoing water quality improvements.
- Existing plans and efforts have identified many additional Project opportunities, both regional and small-scale distributed.

Challenges

- Large areas of impervious surfaces within adjacent urban communities and channelized sections of the San Gabriel River limit natural infiltration and increase urban runoff.
- Implementing large-scale Projects that harmonize water quality impacts across developed and undeveloped areas may face complexity, infrastructure conflicts, and high costs.



Potential & Challenges for Delivering Water Supply Benefits



Impervious surfaces and engineered systems limit natural infiltration, but future Nature-Based Solutions and existing spreading grounds offers potential to boost local water supply through stormwater capture and reuse.

- High imperviousness (~58%) produces a large volume of runoff for potential capture and reuse in the WA.
- Extended dry periods at existing spreading grounds offer opportunities to divert more water for groundwater recharge and local supply.

Challenges

- Urban soil conditions and high pollutant loads may limit natural infiltration and require pre-treatment before water can be reused.
- Engineering and implementation challenges can constrain large-scale regional capture, reducing the cost-effectiveness of reuse Projects.



Potential & Challenges for Delivering Community Investment Benefits



Parks and green spaces are generally equitably distributed across the WA, however targeted enhancement and restoration efforts are a priority to improve harmonization and resilience between the natural and urbanized areas of the watershed.

Potential

- Sites designated for open space, parks, and recreational activities were ranked as having the highest potential for multi-benefit Projects in the Watershed Management Plan (WMP), due to the availability of large, publicly owned open spaces.
- Targeted investments can enhance vegetation, tree canopy, and environmental restoration—especially in Disadvantaged Communities, schools, and densely developed areas—advancing multi-benefit outcomes.

Challenges

- The WA's contrasting landscapes—from pristine upstream areas to urbanized zones in the southeastern San Gabriel Valley—require nuanced approaches to harmonize Projects with existing land uses and industries.
- Addressing these needs equitably requires creative, data-driven planning and robust community engagement to ensure meaningful, multi-benefit outcomes.

Baselines, Targets, and Watershed Area Needs

In the first five years of the SCW Program (FY20-21 to FY24-25), \$82 million in SCW Program funds have been invested in 28 Regional and Municipal Program Projects in the LSGR WA. These Projects deliver multiple benefits

See Chapters 3, 4, and 5

to communities including improved water quality, increased drought resiliency, and improved public health. Together, these Projects and their benefits form the current benefit baselines and set a foundation for adaptive, long-term Watershed Planning.

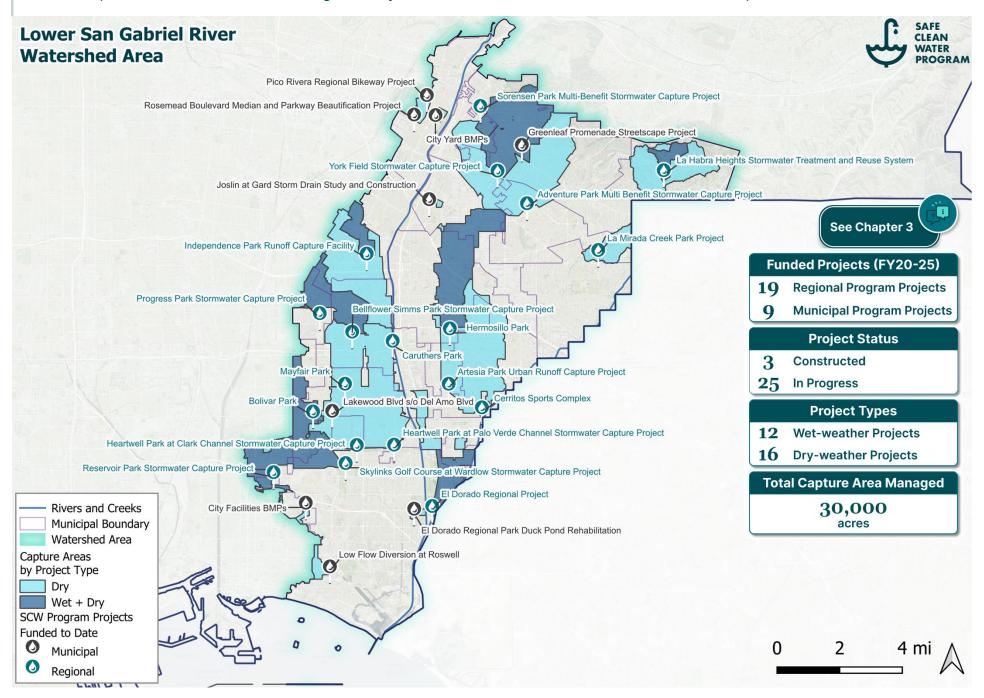
To track progress toward the achievement of Goals, the Initial Watershed Plans use metrics called Indicators and Performance Measures (PMs). Indicators are metrics used to sum Project benefits and enable progress tracking across *large spatial scales, such as* the SCW Program region or per WA. Indicators are supported by a set of PMs which quantify and track benefits at the *Project scale*. Indicators and PMs are anchored in the 14 Goals and organized into nine Planning Themes to allow for efficient WA and SCW Program-wide summaries.

Each Indicator aligns with a Goal, and each Indicator has SCW Program and WA targets that aim to advance progress toward that Goal. Targets are aspirational, calibrated to the scope of the SCW Program, and tailored to each WA based on its unique characteristics. Targets are based on relevant SCW Program Ordinance requirements, WA characteristics, other existing countywide efforts, and data-informed assessments such as the benefit baselines and forecasts developed through the Initial Watershed Plans. Where targets from other countywide efforts (e.g., the County Water Plan) exist for a given Indicator, they guide target setting. The SCW Program target then reflects the Program's potential contribution to these broader regional objectives.

The Initial Watershed Plans also set interim targets to monitor and guide progress. If progress falls short of the targets by the set interim dates, targets and strategies may be reassessed and adjusted to ensure continued progress toward achieving Goals. For each Indicator, its benefit baseline (current progress) is summarized and a target (aspirational outcome) is established, which also defines its 'WA Need' which represents the progress remaining to meet the target.

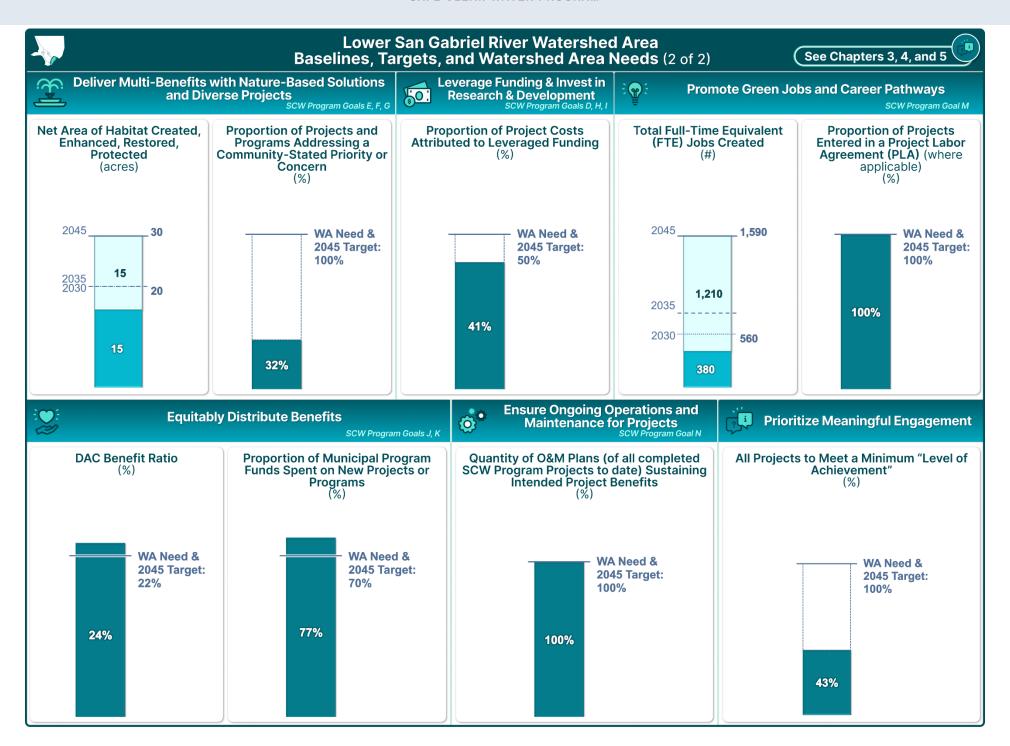
By establishing baselines, targets, and WA Needs, this Initial Watershed Plan supports SCW Program implementation by promoting data-driven planning, informed decision-making, and transparent progress tracking to ensure that the LSGR WA continues to make measurable progress toward Goals.

This map summarizes the 28 SCW Program Projects funded to date in the LSGR WA and their capture areas.



Indicators, their baselines, interim targets, final targets, and WA Needs are shown below (1 of 2) and are continued on the next page (2 of 2). For magnitude-based Indicators, bar charts display two interim targets and a final target. The dark blue bar represents the current (2025) baseline, while the light blue portion shows the WA Need. Percentage-based Indicators do not include interim targets; instead, the final target is considered perpetual; these Indicators reflect cumulative progress rather than linear gains, meaning values may rise or fall over time. To demonstrate sustained progress, WA Needs for percentage-based Indicators are set equal to their targets, which should be achieved and maintained.





Strategies to Address WA Needs and Achieve Goals

This Initial Watershed Plan establishes strategies, actions, and opportunities for addressing WA Needs and achieving Goals. Following the strategies offers a pathway to alignment with the Initial Watershed Plans—a requirement for planning and applying to the SCW Program.

WA Needs summarize why strategies are needed, while strategies describe how to strategically address those WA Needs and achieve Goals through multi-benefit Projects and Programs. Each strategy is supported by specific actions that describe what general types of activities, Projects, Programs, or Scientific Studies, could be implemented to support a strategy. Strategies and actions are supported by opportunities which are mapping layers or references that describe where there is the greatest opportunity to implement strategies and actions. Rather than identifying specific Project sites, opportunities highlight areas where Water Quality Benefits, Water Supply Benefits, or Community Investment Benefits are most needed.

Strategies, actions, and opportunities are tailored to the LSGR WA's characteristics. A key emphasis is on advancing multi-benefit Projects that pair water quality improvements with water supply and community enhancements, while balancing long-term goals with near-term Regional Program funding limitations. LSGR WA strategies promote the implementation of distributed stormwater capture and reuse Projects across the urban landscape through Regional and Municipal Program investments that simultaneously deliver multiple benefits—such as enhanced water quality, urban cooling through increased green space, reduced localized flooding, and improved public health outcome—and align with recommendations in existing planning efforts.

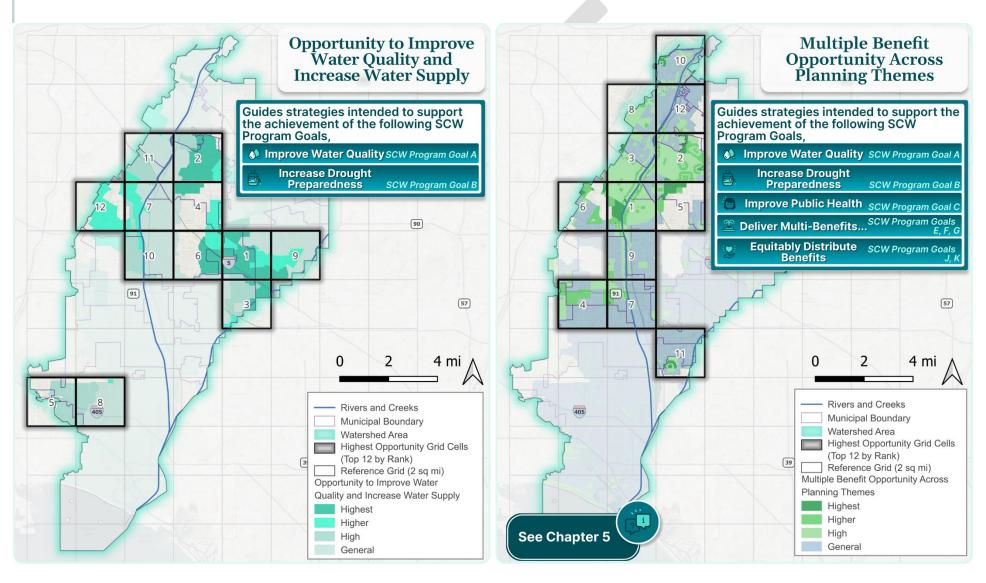
Strategies are designed to be implemented synergistically to maximize co-benefits in addition to Water Quality Benefits. While each strategy can support individual Goals on its own, they are most effective when enacted together, creating synergies that address multiple Goals simultaneously. To support this integrated approach, the Initial Watershed Plans identify composite opportunities, which highlight areas where a Project or Program could support two or more Goals in addition to water quality improvement. Composite opportunities serve as a strategic foundation for prioritizing investments that combine multiple strategies to deliver multi-benefit Projects and Programs that address multiple Goals. Strategies, actions, and opportunities to address WA Needs are detailed in Chapter 5 of the Initial Watershed Plan, Appendices I and J, and the Planning Tool.

This panel shows strategies developed within each Planning Theme to support strategic decision making in the LSGR WA and facilitate efficient progress toward Goals. Actions and opportunities for each strategy can be found in Chapter 5 of the Initial Watershed Plan.

Lower San Gabriel River Watershed Area Strategies		
01	Improve Water Quality SCW Progra	am Goal A
111	Prioritize high performance Projects and Programs in areas with the highest pollutant loads	
ě	Increase Drought Preparedness SCW Progr	am Goal B
21	Link MS4 compliance and water supply planning to maximize stormwater capture for water quality and water supply*	
22	Prioritize high performance Projects and Programs in areas with the highest pollutant loads	
22	Maximize stormwater runoff capture and management for water supply	
28	Enhance local water supply through groundwater recharge, diversion to sanitary sewer, and onsite reuse	
24	Enhance local water supply through enhancements to existing LACFCD major capture facilities	
	Improve Public Health SCW Progra	am Goal C
81	Evaluate open space and large lot potential, particularly on school campuses*	
82	Coordinate Project and Program implementation with existing green or complete street plans**	
	Incorporate brownfield redevelopment priorities identified by other agencies in Project implementation**	
84	Create, enhance, and restore park and green space, especially in high-need communities	
<u>85</u>	Help communities most affected by extreme heat mitigate and adapt to the effects of climate change	
<u> </u>	Deliver Multi-Benefits with Nature-Based Solutions & Diverse Projects SCW Program G	oals E, F,G
439	Acknowledge, where feasible, other capital improvement programs that can contribute to regional outcomes*	
42	Deliver nature-based, multi-benefit Projects and Programs that improve water quality while addressing community prior concerns	ities and
48	Advance fire-adapted communities by implementing multi-benefit Projects that employ Nature-Based Solutions to redu wildfire risk and enhance ecosystem resilience	ce
<u>60:</u>	Leverage Funding & Invest in Research & Development SCW Program G	oals D. H. I
DO.		
51	Bolster SCW Program and regional coordination to support identification and communication of alternative funding sour opportunities	
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52	Bolster the Scientific Study Program through enhanced review, coordination, and dissemination of results Equitably Distribute Benefits SCW Program Consider historic land use disparities and environmental justice metrics across the SCW Program area*	Goals J, K
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^{*}SCW Program-wide Priority Strategy based on engagement
Note: While some strategies may not explicitly reference water quality, in accordance with the SCW Program Implementation Ordinance, all SCW Program Projects and Programs are required to include a Water Quality Benefit

A series of maps are included in the Initial Watershed Plans and Planning Tool to encourage SCW Program Projects that provide multiple benefits. This panel shows composite opportunities; the left map shows opportunities where Projects could deliver both Water Quality and Water Supply Benefits and the right map shows opportunities for Projects to deliver those benefits plus others such as Community Investment Benefits. While these maps highlight areas with the highest potential, other areas not highlighted may still offer valuable opportunities.



Next Steps and Recommendations for Watershed Planning

In early 2026, each of the nine Initial Watershed Plans will be adopted by the Los Angeles County Flood Control District Chief Engineer to serve as SCW Program guidance documents and support future decision-making by the Regional, Municipal and District Programs. The next step for Public Works, the ROC, WASCs, Municipalities, and Project and Program proponents is the use of the Initial Watershed Plans and Planning Tool to assist the advancement of Projects and Programs that align with strategies to address WA Needs and support achievement of Goals.

Near-term next steps for Watershed Planning include addressing key planning gaps through engagement, data collection, new guidance and guidelines, Scientific Studies, and updates to the SCW Program Portal. These updates will also integrate Initial Watershed Plan outputs—such as Indicators and Performance Measures—into reporting and related guidance and guidelines.

As the SCW Program progresses, it is essential to continuously refine and enhance Initial Watershed Plan outputs to ensure they remain effective and relevant. This Initial Watershed Plan outlines recommendations for Watershed Planning to apply an Adaptive Management approach to assess Initial Watershed Plan effectiveness and SCW Program progress, and adjust outputs such as targets, strategies, and opportunities to ensure they remain responsive to changing conditions and priorities. In the long term, Adaptive Watershed Plans may be developed, as needed, to incorporate new planning elements and reflect ongoing progress, emerging priorities, and evolving WA conditions.

This figure outlines next steps and illustrates the long-term approach to continual Watershed Planning and SCW Program progress.

