

SCW Program

Project Modification Guidelines



ATTACHMENT A: Project Modification Request (PMR) FORM

The purpose of this PMR form is to initiate the Project modification process and provide the District with information necessary to evaluate the Project modification request.

Regional Program	<input type="checkbox"/> Infrastructure Program Project <input checked="" type="checkbox"/> Scientific Studies Program <input type="checkbox"/> Technical Resources Program
Project/Study Name	preSIP: A Platform for Watershed Science and Collaboration
Project/Study Lead	San Gabriel Valley Council of Governments
Watershed Area(s)	Upper Los Angeles River, Rio Hondo
Current Project Phase	Finalization
Approved Stormwater Investment Plan Fiscal Year	FY22/23
Transfer Agreement ID (e.g., 2020RPULAR52)	2020RPRH51 & 2020RPULAR51

Has Transfer Agreement or most recent Addendum been executed (i.e., signed by the project lead and the District)? ☒ Yes ☐ No

What type(s) of modification request?

- ☐ like-for-like modifications
- ☐ functionally equivalent BMP modifications
- ☐ modifications to Project or Study components that were not material to the WASC, ROC, or Board's decision to include the Project or Study in the SIP
- ☐ minor modifications to the budget or schedule of intermediate tasks where the total Funded Activity amount and Funded Activity completion date is unchanged
- ☐ change in primary or secondary objective
- ☒ change in Project benefits
- ☐ change in methodology (e.g., infiltration instead of diversion to sanitary sewer)
- ☐ decrease in BMP capacity
- ☐ change in Project or Study location
- ☐ change in capture area where benefits claimed are diminished or where there is a change in the municipalities that are receiving benefits
- ☐ updated engineering analysis resulting in a reduction of benefits claimed
- ☐ increase in Construction Cost or Life Cycle Cost greater than 10%
- ☒ increase or reallocation of annual funding distribution
- ☐ change in Funded Activity completion date
- ☐ other, please describe:

SCW Program

Project Modification Guidelines



Impact on scope or benefits?

- ☒ Improved
☐ Diminished

- ☐ Neither
☐ Not Sure

Description of the proposed modification(s) and the reason(s) why the modification(s) is/are being proposed.

The preSIP scientific study accomplished its goals of (1) engaging watershed partners, (2) identifying hundreds of high-impact project opportunities, (3) articulating alternative multi-benefit pathways to clean water, and (4) building out a digital platform to coordinate, track, and adapt in real-time. The study benefits have been lauded by Watershed Coordinators and received notoriety at national conferences. If programatically implemented, the preSIP outcomes could reimagine watershed programs and drastically reduce costs to achieve compliance with the MS4 Permit (which would, in turn, free up resources for other multi-benefit, nature-based, and community-benefiting projects).

When presenting preSIP study progress to the Upper LA River WASC, the WASC acknowledged the implications of the study on regional compliance planning and recommended that the study re-engage with Regional Board staff to validate study methodology and outcomes. Members of the preSIP Technical Advisory Committee (TAC) agree with this recommendation and additionally advised the study team to further validate the preSIP modeling approach through external independent review. Additionally, members of the TAC see the value in funding ongoing support and maintenance of the digital platform that was developed by the study to track and adapt stormwater project implementation planning across the ULAR and RH watersheds. There is a need to invest in the institutionalization of the preSIP's valuable products to maximize the use and impact of the study.

This Project Modification requests additional funding to extend the project by three years to support implementation and pursue the recommendations of the WASC and TAC. Extending the study enables the Watershed Group to integrate the use of the preSIP tools into their daily processes and also socialize the outcomes with their respective external stakeholders, including the Regional Board. The requested additional funding would specifically support ongoing engagement with Regional Board staff, engagement of an independent peer reviewer to examine model methods and results, update of models and tools based on comments from reviewers, and ongoing support and maintenance of the preSIP digital platform.

If applicable, list previously approved funding allocations/disbursements and revised funding request:

Note, if some or all of a previously Funded Activity cannot be completed as a result of the proposed modification, please include a description and indicate the amount of unused funds. Any unused funds should be reallocated and accounted for in your revised funding request.

Fiscal Year	Approved Funding Allocations	Revised Funding Request	Description/Phase <i>If applicable, include description of unused funds</i>
21-23	\$2,340,000	\$0	
24-25	\$0	\$73,500	
25-26	\$0	\$73,500	
26-27	\$0	\$73,500	
Future Funding			
TOTAL	\$2,340,000	\$220,500	

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Project Modification Guidelines



A: SCWP Approved Total Funding Allocations	\$2,340,000
B: Revised SCWP Anticipated Total Funding Request	\$2,560,500
C: Difference between B and A	\$220,500

If applicable, description of difference in SCWP Anticipated Total Funding Request. As a reminder, annual funding is at the discretion of the WASC, ROC, and ultimately the Board of Supervisors.

As noted above, the additional requested funding would support implementation and pursue the recommendations of the WASC and TAC. Extending the study enables the Watershed Group to integrate the use of the preSIP tools into their daily processes and also socialize the outcomes with their respective external stakeholders, including the Regional Board. The requested additional funding would specifically support ongoing engagement with Regional Board staff, engagement of an independent peer reviewer to examine model methods and results, update of models and tools based on comments from reviewers, and ongoing support and maintenance of the preSIP digital platform.

Brief description of Supporting Documentation provided.

Revised Scope of Work.

I certify the information and supporting documentation provided is accurate and true.	<input checked="" type="checkbox"/> YES
I understand this is a request and it is under the WASC's discretion to consider requested modifications.	<input checked="" type="checkbox"/> YES

Name Marisa Creter

Organization San Gabriel Valley Council of Governments

Signature Marisa Creter

Date 11/30/2023

SCW Program

Project Modification Guidelines



FOR DISTRICT USE ONLY

Proposed Modifications to Projects or Studies:

	Status	Date
Modified Project or Study is consistent with the Project or Study included in the current fiscal year's SIP and proposed modifications were approved by the District.	<input type="checkbox"/> YES	
Modified Project or Study is NOT consistent with the Project or Study included in the current fiscal year's SIP. If yes, select all that apply:	<input type="checkbox"/> YES	
PMR was received after October 31 of a fiscal year and the PMR will be considered for approval during the preparation of subsequent SIP for the fiscal year <u>after</u> the next	<input type="checkbox"/> YES	-
For Infrastructure Program Projects, modified Project was sent to Scoring Committee . If yes, revised score:	<input type="checkbox"/> YES	
Project or Study abandoned the proposed modifications	<input type="checkbox"/> YES	
Project or Study was withdrawn from consideration by the WASC and shall issue repayment of unspent funds	<input type="checkbox"/> YES	
Proposed modifications were recommended for approval in the SIP	<input type="checkbox"/> YES <input type="checkbox"/> NO	

Proposed Modifications to Project Concepts:

	Status	Date
Proposed modifications were deemed consistent with the Project concept that was approved by the WASC, ROC and Board for inclusion in the SIP and can be addressed within the existing budget. District will proceed to incorporate the proposed modification into the Feasibility Study immediately.	<input type="checkbox"/> YES	
Proposed modifications were deemed significant enough to result in a significantly different Project concept from the one approved by the WASC, ROC and Board for inclusion in the SIP. If yes, select one:	<input type="checkbox"/> YES	
District to discontinue work on the Feasibility Study, return unused funds to be programmed in the SIP for the next fiscal year, and advise the proponent to submit the modified Project concept during the Call for Projects for a future fiscal year.	<input type="checkbox"/> YES	-
District to abandon the proposed modifications and proceed with the Project concept included in the SIP.	<input type="checkbox"/> YES	-

Regional Program Scientific Study Scope of Work – preSIP

SCOPE OF WORK

The massive extent of area and stakeholders in the ULAR watershed means that there are numerous intertwined goals, ideas, and programs that must be reconciled by the WASCs as they develop SIPs. With so many diverse Regional Program stakeholders and project proposals to consider, the ULAR/RH WASCs will be challenged to reconcile these diverse needs into cohesive SIPs that reliably support EWMP implementation and measurable clean water objectives. Furthermore, the current WASC guidelines for SIP development are open to significant interpretation and do not provide a detailed structured technical approach to coordinate regional SIPs with other efforts.

The goal of the preSIP study is therefore to provide the ULAR Group and ULAR/RH WASCs with a technical platform to:

- build a balanced SIP that maximizes SCWP objectives at the watershed-scale (particularly meaningful water quality improvement at a watershed scale),
- build a cost-effective SIP that is defensible to taxpayers who voted for clean water, and
- build a collaborative SIP that complements concurrent ULAR Group spending and activities.

This will be accomplished through the following tasks.

TASK 1: PROJECT MANAGEMENT

Project management and financial controls will be maintained with the Flood Control District. This task includes providing quarterly reports, which will also be summarized in an annual report. Reports will provide an update on progress and outcomes on the following tasks. This task also includes monthly coordination meetings with a Stakeholder Group of ULAR EWMP members, NGOs, and water agencies to be established in Task 2 below.

Deliverables:

- Quarterly Reports
- Annual Reports
- Monthly Progress Meetings with Stakeholder Subcommittee

TASK 2: DEFINE GOALS, OBJECTIVES, AND METRICS

To set appropriate objectives and build a robust compliance road map founded in science, engineering, and stakeholder preferences, it will be necessary to apply recent lessons learned from adaptive management of the ULAR (and other) EWMPs; these include (but are not limited to): updating water quality analysis assumptions and interpretations to better align with observed watershed data and the latest regulatory trends, facilitating true regional collaboration between municipalities by dissolving jurisdictional boundaries, and reimagining how watershed project portfolios can be augmented by—and dovetail with—water supply programs to reduce overall program efficiency. Orienting the SIP around a collaborative, science-based compliance pathway will directly support local agencies, but will also reassure wary stakeholders who have previously expressed concerns about the certainty and specificity of the EWMPs.

Using the most up-to-date watershed data, models, and scientific understanding, the ULAR EWMP Group will work with the Stakeholder Group to develop specific goals for success. These goals will supplement existing Infrastructure Program scoring criteria with *higher-resolution, site-specific metrics* to ensure that the SIP is meaningfully judged against the goals relevant to local communities, ecosystems, and MS4 permit compliance. For example, the specific pollutant load reduction targets and water supply augmentation goals will be characterized to set measurable benchmarks by which SIP performance can be gauged over time at the watershed scale. This will provide a compass to steer the ULAR Group towards projects *where* they are needed and will provide a gauge for

Regional Program Scientific Study Scope of Work – preSIP

the ULAR/RH WASCs to self-evaluate the overall success of the SIP once those projects are plugged into the watershed.

To set quantitative goals for water quality and water supply, the ULAR Group will leverage and update the ULAR EWMP watershed model (which is being updated for 2021 EWMP revisions). Because the current modeling system is configured to evaluate water quality at the jurisdictional- and *subwatershed*-scale, the model will be recalibrated using the most recently available local data to provide a reliable foundation for project performance assessment at a truly *watershed* scale. Then, meaningful watershed-wide goals will be computed to supplement the subwatershed-scale recommendations provided in the EWMP.

This task also includes establishment of, and coordination with, a group of municipal, NGO, and water agency stakeholders. Two workshops will be conducted to first kick-off the study and clarify local needs, and then work with the Stakeholder Group to review watershed priorities.

Deliverables:

- Stakeholder Group Workshop – Study Kickoff
- Watershed Model Recalibration Memo
- Draft Watershed Area Priorities Report
- Stakeholder Group Workshop – Watershed Priorities
- Final Watershed Area Priorities Report

TASK 3: IDENTIFY AND RECONCILE WATERSHED-WIDE OPPORTUNITIES

A key objective of the preSIP study is to compile an inventory of project opportunities (both planned and currently unknown) throughout the entirety of the ULAR/RH Watershed Areas. This will provide the necessary baseline of candidates to enable the WASCs to confidently select the “best projects” when building their SIPs, and to ensure that local municipalities have a high-certainty hopper of projects to implement their EWMPs.

This step will adapt specialized tools and models—previously forged and validated by the ULAR Watershed Group using watershed science and engineering—for Watershed-Area-wide application. The investigators will pair these tools with high-resolution datasets and an existing literature review of over 100 plans and 300 stakeholders to identify the full suite of known project opportunities watershed wide. This will ensure that SIP development is driven by a real understanding of the range of project opportunities in the context of already-planned EWMP projects (to provide valuable context for those submitted by project advocates). It will also help the ULAR Group understand how similar or proximal projects might be potentially bundled for collective efficiency and to reduce redundancy before submittal to the WASC for funding.

Stakeholder engagement with the Stakeholder Group will continue to be a critical element throughout the project to ensure that the ultimate results meet EWMP and SCWP goals. Once the initial list of project opportunities is built, it will be loaded into a web-based mapping tool for review by the ULAR Group and Stakeholder Group. A workshop will then be conducted to review the list of opportunities and discuss the menu of potential project types that should be considered at the sites.

Deliverables:

- Inventory of Existing/Planning Projects (Memo and Web Map Link)
- Stakeholder Group Workshop – Existing/Planned Project Inventory Review and Project Screening Menu Development
- Project Screening Methods Memo

Regional Program Scientific Study Scope of Work – preSIP

- Link to Web Map of Consolidated Opportunities
- Final Link to Web Map of Consolidated Opportunities

TASK 4: DESIGN A TECHNICAL PLATFORM TO ASSESS ALTERNATIVE SIP SCENARIOS AND BENEFITS

Once meaningful, measurable goals are defined and a full roster of achievable projects is established, then these components can be combined into a system that will enable the ULAR Group and ULAR/RH WASC to scenario-play various alternative combinations of projects in a watershed context to build their best SIP. The platform will also provide the ULAR watershed group with a tool to adaptively manage their EWMP on-the-fly.

A key advantage of this platform is that it is a decision support tool and will allow flexibility to adapt the SIP over time as new information is discovered and as EWMP implementation evolves; to be clear, the preSIP outcomes will certainly not generate and prescribe a SIP, but rather will give the WASC necessary, data-driven tools to confidently build and test different alternatives that align with ULAR EWMP goals. By conducting the analysis at the watershed scale, it will enable projects that are networked in series (i.e., upstream/downstream from each other) to be analyzed synergistically.

A final workshop will be conducted with the Stakeholder Group to review the draft preSIP platform and discuss what analytics are useful for analyzing alternative watershed programs.

Deliverables:

- Stakeholder Group Workshop – preSIP platform
- Draft Link to preSIP Platform
- Final Link to preSIP Platform

TASK 5: ONGOING ENGAGEMENT AND IMPLEMENTATION

If programatically implemented, the preSIP outcomes could reimagine watershed programs and drastically reduce costs to achieve compliance with the MS4 Permit (which would, in turn, free up resources for other multi-benefit, nature-based, and community-benefiting projects).

When presenting preSIP study progress to the Upper LA River WASC, the WASC acknowledged the implications of the study on regional compliance planning and recommended that the study re-engage with Regional Board staff to validate study methodology and outcomes. Members of the preSIP Technical Advisory Committee (TAC) agree with this recommendation and additionally advised the study team to further validate the preSIP modeling approach through external independent review. Additionally, members of the TAC see the value in funding ongoing support and maintenance of the digital platform that was developed by the study to track and adapt stormwater project implementation planning across the ULAR and RH watersheds.

This task supports ongoing engagement and implementation for three years to address the recommendations of the WASC and TAC. The specific scope includes up to six engagement meetings with Regional Board staff to pursue validation of preSIP modeling methods and results, engagement of an independent peer reviewer to examine model methods and results, update of models and tools based on comments from reviewers, and ongoing support and maintenance of the preSIP digital platform.

Deliverables:

- Regional Board Engagement Meetings (6)
- Independent Peer Review of preSIP Model Setup and Outputs

Regional Program Scientific Study Scope of Work – preSIP

- Updated Model Calibration Memo (Draft and Final)
- Annual Digital Platform Maintenance (3 years)

STUDY BENEFITS AND SCW PROGRAM GOALS

Simply put, the ULAR Group and ULAR/RH WASCs can expect the following tangible and valuable outcomes from this scientific study:

- **a comprehensive list of candidate SIP projects (including coordination of Regional Program project submittals with the EWMP and other concurrent local programs), and**
- **a platform to validate that the SIP maximizes SCWP objectives at the watershed scale, including flexibility to adapt the SIP over time.**

While these outcomes will be useful for the ULAR/RH WASC as they develop SIPs into perpetuity by providing certainty that projects being put in the ground will deliver the desired outcomes, the framework will also serve as a valuable template for other WASCs and EWMP Groups to emulate as they build concurrent programs.

This scientific study uniquely addresses and advances all of the goals of the SCWP by enabling the ULAR Group to conduct a “programmatic feasibility study” and test their proposed SIPs to ensure—using watershed science—that they appropriately balance water quality improvement, water supply augmentation, community investments, and nature-based solutions, while effectively leveraging local support and funds. The primary metrics for success of the study are the successful completion of the specified deliverables with the support of the WASC stakeholders.

The following summarizes how the study will address a number of the SCW Program goals (Chapter 18.04 of the Code):

- A. Improve water quality and contribute to attainment of water-quality requirements:** The study will progress the ULAR Group towards attainment of water quality objectives by identifying cost-effective strategies and understanding in what order they should be implemented to efficiently improve water quality.
- B. Increase drought preparedness by capturing more Stormwater and/or Urban Runoff to store, clean, reuse, and/or recharge groundwater basins:** The study will evaluate how investments in water supply augmentation can be coordinated with water quality improvement and community benefits at the watershed scale
- C. Improve public health by preventing and cleaning up contaminated water, increasing access to open space, providing additional recreational opportunities, and helping communities mitigate and adapt to the effects of climate change through activities such as increasing shade and green space:** By engaging with the WASC stakeholder groups, the study will produce project recommendations that are actually wanted and needed by local communities
- D. Leverage other funding sources to maximize SCW Program Goals:** The ULAR Group has already invested \$105,000 to validate these methods in a pilot area; the preSIP will also identify how additional partners can be engaged at the watershed-scale to potentially co-funding multi-benefit projects.
- E. Invest in infrastructure that provides multiple benefits:** a primary goal of the preSIP is to develop a value system to prioritize projects in a way that meets the multiple goals of the WASC stakeholder groups, while also integrating with the ULAR EWMP goals.
- F. Prioritize Nature-Based Solutions:** by building the list of candidate projects from the ground up in collaboration with stakeholders, the preSIP study will ensure that locally desired project types and benefits are considered

Regional Program Scientific Study Scope of Work – preSIP

- G. Provide a spectrum of project sizes from neighborhood to regional scales:** by building the list of candidate projects from the ground up in collaboration with stakeholders, the preSIP study will ensure that locally desired project sizes are considered
- H. Encourage innovation and adoption of new technologies and practices:** This study is applying significant advances in the scientific understanding of watershed science, and uniquely linking those to a stakeholder feedback loop so that multi-benefit planning can be accelerated
- I. Invest in independent scientific research:** although the preSIP concept has been proven in pilot areas of the ULAR watershed, this study will provide regional value by demonstrating how watershed science can be used to enhance SCWP goals
- J. Provide DAC Benefits:** prioritization of projects will be configured such that DAC benefits can be more easily evaluated
- K. Provide Regional Program infrastructure funds benefiting each Municipality in proportion to the funds generated in their jurisdiction:** by enabling scenario-play, the preSIP will enable municipalities to evaluate investments individually or collectively at the watershed scale
- L. Implement an iterative planning and evaluation process to ensure adaptive management:** The Plan itself is adaptive management of the ULAR Groups current strategy.
- M. Promote green jobs and career pathways:** the preSIP will give the WASCs and ULAR group a structured technical platform to evaluate different scales and types of projects in different locations throughout the watershed; this can enable assessment of future green job potential watershed wide
- N. Ensure ongoing operations and maintenance for projects:** by gaining a better understanding of the longer-term roadmap of potential projects, municipalities and project proponents can begin to budget and plan for ongoing O&M resources

Regional Program Scientific Study – Scope of Work

BUDGET

Table 1 summarizes the budget by task, fiscal year, and watershed area. The fee proposal is made on a firm-fixed price basis, to be invoiced monthly based on percentage complete of each task.

Table 1. Scientific Study Budget

Task		20-21		21-22		22-23		24-25		25-26		26-27		Subtotals		Grand Total by Task
		ULAR	RH	ULAR	RH	ULAR	RH	ULAR	RH	ULAR	RH	ULAR	RH	ULAR	RH	
1	Project Management	\$70,000	\$21,000	\$70,000	\$21,000	\$40,000	\$12,000	--	--	--	--	--	--	\$180,000	\$54,000	\$234,000
2	Define Goals, Objectives, Metrics	\$105,000	\$31,500	\$70,000	\$21,000	--	\$0	--	--	--	--	--	--	\$175,000	\$52,500	\$227,500
3	Identify and Reconcile Watershed-Wide Opportunities	\$525,000	\$157,500	\$455,000	\$136,500	--	\$0	--	--	--	--	--	--	\$980,000	\$294,000	\$1,274,000
4	Design Technical Platform	--	--	\$105,000	\$31,500	\$360,000	\$108,000	--	--	--	--	--	--	\$465,000	\$139,500	\$604,500
5	Ongoing Engagement and Implementation	--	--	--	--	--	--	\$56,540	\$17,010	\$56,540	\$17,010	\$56,540	\$17,010	\$169,470	\$51,030	\$220,500
Subtotals		\$700,000	\$210,000	\$700,000	\$210,000	\$400,000	\$120,000	\$56,540	\$17,010	\$56,540	\$17,010	\$56,540	\$17,010	\$1,969,470	\$591,030	\$2,560,500
Grand Total by Year		\$910,000		\$910,000		\$520,000		\$73,500		\$73,500		\$73,500				

SCHEDULE

The following schedule assumes a Notice to Proceed (NTP) of December 1, 2020. Given the delay in the anticipated funding for the first fiscal year, the required reporting begins with the Second Quarter and only includes three of the quarterly reports given the condensed timeline. The schedule is summarized in Table 2.

Regional Program Scientific Study – Scope of Work

Table 2. Scientific Study Schedule

Task	Task Name	Completion Date
n/a	Assumed NTP	December 1, 2020
1	Stakeholder Group Coordination Meetings	Monthly
2	Stakeholder Group Workshop – Study Kickoff	January 31, 2021
1	Quarterly Report	February 15, 2021
2	Watershed Model Recalibration Memo	May 31, 2021
1	Quarterly Report	May 15, 2021
2	Draft Watershed Area Priorities Report	June 30, 2021
2	WASC Stakeholder Workshop – Goal Setting	July 31, 2021
1	Quarterly Report	August 15, 2021
2	Final Watershed Area Priorities Report	September 30, 2021
3	Stakeholder Group Workshop – Existing/Planned Project Inventory Review and Project Screening Menu Development	October 31, 2021
3	Inventory of Existing/Planning Projects (Memo and Web Map Link)	October 31, 2021
1	Quarterly Report	November 15, 2021
3	Project Screening Methods Memo	December 31, 2021
1	Annual Report	December 31, 2021
1	Quarterly Report	February 15, 2022
3	Link to Web Map of Consolidated Opportunities	February 28, 2022
1	Quarterly Report	May 15, 2022
3	Final Link to Web Map of Consolidated Opportunities	June 30, 2022
4	Stakeholder Group Workshop – preSIP platform	June 30, 2022
1	Quarterly Report	August 15, 2022
1	Quarterly Report	November 15, 2022
1	Annual Report	December 31, 2022
4	Draft Link to preSIP Platform	May 25, 2023
1	Quarterly Report	February 15, 2023
1	Quarterly Report	May 15, 2023
4	Final Link to preSIP Platform	October 31, 2023

Regional Program Scientific Study Scope of Work – preSIP

Task	Task Name	Completion Date
5	Maintenance, updates, and web hosting of preSIP digital platform software (Year 1)	April 30, 2025
5	Regional Board Meeting 1	April 30, 2025
5	External Peer Review Summary	September 31, 2025
5	Regional Board Meeting 2	October 31, 2025
5	Draft Model Calibration Memo	January 31, 2026
5	Maintenance, updates, and web hosting of preSIP digital platform software (Year 2)	April 30, 2026
5	Regional Board Meeting 3	April 30, 2026
5	Regional Board Meeting 4	October 31, 2026
5	Maintenance, updates, and web hosting of preSIP digital platform software (Year 3)	April 30, 2027
5	Regional Board Meeting 5	April 30, 2027
5	Final Model Calibration Memo	June 31, 2027
5	Regional Board Meeting 6	October 31, 2027

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Project Modification Guidelines



ATTACHMENT A: Project Modification Request (PMR) FORM

The purpose of this PMR form is to initiate the Project modification process and provide the District with information necessary to evaluate the Project modification request.

Regional Program	<input type="checkbox"/> Infrastructure Program Project <input checked="" type="checkbox"/> Scientific Studies Program <input type="checkbox"/> Technical Resources Program
Project/Study Name	preSIP: A Platform for Watershed Science and Collaboration
Project/Study Lead	San Gabriel Valley Council of Governments
Watershed Area(s)	Upper Los Angeles River, Rio Hondo
Current Project Phase	Finalization
Approved Stormwater Investment Plan Fiscal Year	FY22/23
Transfer Agreement ID (e.g., 2020RPULAR52)	2020RPRH51 & 2020RPULAR51

Has Transfer Agreement or most recent Addendum been executed (i.e., signed by the project lead and the District)? ☒ Yes ☐ No

What type(s) of modification request?

- ☐ like-for-like modifications
- ☐ functionally equivalent BMP modifications
- ☐ modifications to Project or Study components that were not material to the WASC, ROC, or Board's decision to include the Project or Study in the SIP
- ☐ minor modifications to the budget or schedule of intermediate tasks where the total Funded Activity amount and Funded Activity completion date is unchanged
- ☐ change in primary or secondary objective
- ☐ change in Project benefits
- ☐ change in methodology (e.g., infiltration instead of diversion to sanitary sewer)
- ☐ decrease in BMP capacity
- ☐ change in Project or Study location
- ☐ change in capture area where benefits claimed are diminished or where there is a change in the municipalities that are receiving benefits
- ☐ updated engineering analysis resulting in a reduction of benefits claimed
- ☐ increase in Construction Cost or Life Cycle Cost greater than 10%
- ☐ increase or reallocation of annual funding distribution
- ☒ change in Funded Activity completion date
- ☐ other, please describe:

SCW Program

Project Modification Guidelines



Impact on scope or benefits?

- ☐ Improved
☐ Diminished

- ☒ Neither
☐ Not Sure

Description of the proposed modification(s) and the reason(s) why the modification(s) is/are being proposed.

The preSIP Study completion date was previously modified to September 30, 2023, in the Quarterly Report for FY22/23 Q3. The previous modification was made due to delay in receipt of funding for both the first and the final fiscal year of study. This Project Modification Request is to extend the study completion date for the currently funded activities by one additional month to October 31, 2023, to provide additional time for study finalization due to the previous funding delays.

If applicable, list previously approved funding allocations/disbursements and revised funding request:

Note, if some or all of a previously Funded Activity cannot be completed as a result of the proposed modification, please include a description and indicate the amount of unused funds. Any unused funds should be reallocated and accounted for in your revised funding request.

Fiscal Year	Approved Funding Allocations	Revised Funding Request	Description/Phase <i>If applicable, include description of unused funds</i>
Future Funding			
TOTAL			

NOT APPLICABLE

SCW Program

Project Modification Guidelines



A: SCWP Approved Total Funding Allocations	NOT APPLICABLE
B: Revised SCWP Anticipated Total Funding Request	
C: Difference between B and A	

If applicable, description of difference in SCWP Anticipated Total Funding Request. As a reminder, annual funding is at the discretion of the WASC, ROC, and ultimately the Board of Supervisors.

Not applicable.

Brief description of Supporting Documentation provided.

Revised Schedule A10 included.

I certify the information and supporting documentation provided is accurate and true.	<input checked="" type="checkbox"/> YES
I understand this is a request and it is under the WASC's discretion to consider requested modifications.	<input checked="" type="checkbox"/> YES

Name Marisa Creter

Organization San Gabriel Valley Council of Governments

Signature Marisa Creter

Date 11/30/2023

SCW Program

Project Modification Guidelines



FOR DISTRICT USE ONLY

Proposed Modifications to Projects or Studies:

	Status	Date
Modified Project or Study is consistent with the Project or Study included in the current fiscal year's SIP and proposed modifications were approved by the District.	<input type="checkbox"/> YES	
Modified Project or Study is NOT consistent with the Project or Study included in the current fiscal year's SIP. If yes, select all that apply:	<input type="checkbox"/> YES	
PMR was received after October 31 of a fiscal year and the PMR will be considered for approval during the preparation of subsequent SIP for the fiscal year <u>after</u> the next	<input type="checkbox"/> YES	-
For Infrastructure Program Projects, modified Project was sent to Scoring Committee . If yes, revised score:	<input type="checkbox"/> YES	
Project or Study abandoned the proposed modifications	<input type="checkbox"/> YES	
Project or Study was withdrawn from consideration by the WASC and shall issue repayment of unspent funds	<input type="checkbox"/> YES	
Proposed modifications were recommended for approval in the SIP	<input type="checkbox"/> YES <input type="checkbox"/> NO	

Proposed Modifications to Project Concepts:

	Status	Date
Proposed modifications were deemed consistent with the Project concept that was approved by the WASC, ROC and Board for inclusion in the SIP and can be addressed within the existing budget. District will proceed to incorporate the proposed modification into the Feasibility Study immediately.	<input type="checkbox"/> YES	
Proposed modifications were deemed significant enough to result in a significantly different Project concept from the one approved by the WASC, ROC and Board for inclusion in the SIP. If yes, select one:	<input type="checkbox"/> YES	
District to discontinue work on the Feasibility Study, return unused funds to be programmed in the SIP for the next fiscal year, and advise the proponent to submit the modified Project concept during the Call for Projects for a future fiscal year.	<input type="checkbox"/> YES	-
District to abandon the proposed modifications and proceed with the Project concept included in the SIP.	<input type="checkbox"/> YES	-

Regional Program Scientific Study Scope of Work – preSIP

Table 2. Scientific Study Schedule

Task	Task Name	Completion Date
n/a	Assumed NTP	December 1, 2020
1	Stakeholder Group Coordination Meetings	Monthly
2	Stakeholder Group Workshop – Study Kickoff	January 31, 2021
1	Quarterly Report	February 15, 2021
2	Watershed Model Recalibration Memo	June 30, 2021
1	Quarterly Report	May 15, 2021
2	Draft Watershed Area Priorities Report	June 30, 2021
2	WASC Stakeholder Workshop – Goal Setting	July 31, 2021
1	Quarterly Report	August 15, 2021
2	Final Watershed Area Priorities Report	September 30, 2021
3	Stakeholder Group Workshop – Existing/Planned Project Inventory Review and Project Screening Menu Development	October 31, 2021
3	Inventory of Existing/Planning Projects (Memo and Web Map Link)	October 31, 2021
1	Quarterly Report	November 15, 2021
3	Project Screening Methods Memo	December 31, 2021
1	Annual Report	December 31, 2021
1	Quarterly Report	February 15, 2022
3	Link to Web Map of Consolidated Opportunities	February 28, 2022
1	Quarterly Report	May 15, 2022
3	Final Link to Web Map of Consolidated Opportunities	June 30, 2022
4	Stakeholder Group Workshop – preSIP platform	June 30, 2022
1	Quarterly Report	August 15, 2022
1	Quarterly Report	November 15, 2022
1	Annual Report	December 31, 2022
4	Draft Link to preSIP Platform	May 25, 2023
1	Quarterly Report	February 15, 2023
1	Quarterly Report	May 15, 2023
4	Final Link to preSIP Platform	October 31, 2023

SCW Program

Project Modification Guidelines



ATTACHMENT A: Project Modification Request (PMR) FORM

The purpose of this PMR form is to initiate the Project modification process and provide the District with information necessary to evaluate the Project modification request.

Regional Program	<input type="checkbox"/> Infrastructure Program Project <input checked="" type="checkbox"/> Scientific Studies Program <input type="checkbox"/> Technical Resources Program
Project/Study Name	Fire Effects Study in the ULAR Watershed Management Area
Project/Study Lead	San Gabriel Valley Council of Governments
Watershed Area(s)	Rio Hondo, Upper Los Angeles River
Current Project Phase	Completed Year 1 of Monitoring; Planning Year 2 of Monitoring; Develop
Approved Stormwater Investment Plan Fiscal Year	FY21-22
Transfer Agreement ID (e.g., 2020RPULAR52)	2021RPRH50 & 2021RPULAR52

Has Transfer Agreement or most recent Addendum been executed (i.e., signed by the project lead and the District)? ☒ Yes ☐ No

What type(s) of modification request?

- ☐ like-for-like modifications
- ☐ functionally equivalent BMP modifications
- ☐ modifications to Project or Study components that were not material to the WASC, ROC, or Board's decision to include the Project or Study in the SIP
- ☐ minor modifications to the budget or schedule of intermediate tasks where the total Funded Activity amount and Funded Activity completion date is unchanged
- ☐ change in primary or secondary objective
- ☐ change in Project benefits
- ☐ change in methodology (e.g., infiltration instead of diversion to sanitary sewer)
- ☐ decrease in BMP capacity
- ☐ change in Project or Study location
- ☐ change in capture area where benefits claimed are diminished or where there is a change in the municipalities that are receiving benefits
- ☐ updated engineering analysis resulting in a reduction of benefits claimed
- ☐ increase in Construction Cost or Life Cycle Cost greater than 10%
- ☒ increase or reallocation of annual funding distribution
- ☐ change in Funded Activity completion date
- ☐ other, please describe:

SCW Program

Project Modification Guidelines



Impact on scope or benefits?

- ☒ Improved
☐ Diminished

- ☐ Neither
☐ Not Sure

Description of the proposed modification(s) and the reason(s) why the modification(s) is/are being proposed.

Based on work conducted in the first year of the study, opportunities to expand the scope with an additional year and additional funds were identified to increase the study benefits. Detail on the proposed expansions and their associated benefits are described in the attached scope of work.

If applicable, list previously approved funding allocations/disbursements and revised funding request:

Note, if some or all of a previously Funded Activity cannot be completed as a result of the proposed modification, please include a description and indicate the amount of unused funds. Any unused funds should be reallocated and accounted for in your revised funding request.

Fiscal Year	Approved Funding Allocations	Revised Funding Request	Description/Phase <i>If applicable, include description of unused funds</i>
FY21-22	\$264,436	\$264,436	No Change
FY22-23	\$257,161	\$257,161	No Change
FY23-24	\$283,403	\$283,403	No Change
FY24-25	\$0	\$417,224	Refer to attached proposed expanded scope of work
Future Funding			
TOTAL	\$805,000	\$1,222,224	Refer to attached proposed expanded scope of work

SCW Program

Project Modification Guidelines



A: SCWP Approved Total Funding Allocations	\$805,000
B: Revised SCWP Anticipated Total Funding Request	\$1,222,224
C: Difference between B and A	\$417,224

If applicable, description of difference in SCWP Anticipated Total Funding Request. As a reminder, annual funding is at the discretion of the WASC, ROC, and ultimately the Board of Supervisors.

Refer to the attached scope of work for the proposed expansion of the study for an additional year and additional funds to increase the study benefits.

Brief description of Supporting Documentation provided.

Proposed expansion of the Fire Effects Study scope of work for an additional year and details on the expected increase in the achievement of SCWP goals from expanding the Study.

I certify the information and supporting documentation provided is accurate and true.	<input checked="" type="checkbox"/> YES
I understand this is a request and it is under the WASC's discretion to consider requested modifications.	<input checked="" type="checkbox"/> YES

Name Marisa Creter

Organization San Gabriel Valley Council of Gov

Signature Marisa Creter

Date 11/30/2023

SCW Program

Project Modification Guidelines



FOR DISTRICT USE ONLY

Proposed Modifications to Projects or Studies:

	Status	Date
Modified Project or Study is consistent with the Project or Study included in the current fiscal year's SIP and proposed modifications were approved by the District.	<input type="checkbox"/> YES	
Modified Project or Study is NOT consistent with the Project or Study included in the current fiscal year's SIP. If yes, select all that apply:	<input type="checkbox"/> YES	
PMR was received after October 31 of a fiscal year and the PMR will be considered for approval during the preparation of subsequent SIP for the fiscal year <u>after</u> the next	<input type="checkbox"/> YES	-
For Infrastructure Program Projects, modified Project was sent to Scoring Committee . If yes, revised score:	<input type="checkbox"/> YES	
Project or Study abandoned the proposed modifications	<input type="checkbox"/> YES	
Project or Study was withdrawn from consideration by the WASC and shall issue repayment of unspent funds	<input type="checkbox"/> YES	
Proposed modifications were recommended for approval in the SIP	<input type="checkbox"/> YES <input type="checkbox"/> NO	

Proposed Modifications to Project Concepts:

	Status	Date
Proposed modifications were deemed consistent with the Project concept that was approved by the WASC, ROC and Board for inclusion in the SIP and can be addressed within the existing budget. District will proceed to incorporate the proposed modification into the Feasibility Study immediately.	<input type="checkbox"/> YES	
Proposed modifications were deemed significant enough to result in a significantly different Project concept from the one approved by the WASC, ROC and Board for inclusion in the SIP. If yes, select one:	<input type="checkbox"/> YES	
District to discontinue work on the Feasibility Study, return unused funds to be programmed in the SIP for the next fiscal year, and advise the proponent to submit the modified Project concept during the Call for Projects for a future fiscal year.	<input type="checkbox"/> YES	-
District to abandon the proposed modifications and proceed with the Project concept included in the SIP.	<input type="checkbox"/> YES	-

Certificate Of Completion

Envelope Id: 1E0D29BAD99C495F8169A008205E12E9

Status: Completed

Subject: Complete with DocuSign: Project-Modification-Request Form - Fire Effects Study

Source Envelope:

Document Pages: 4

Signatures: 1

Envelope Originator:

Certificate Pages: 1

Initials: 0

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Marisa Creter

MCreter@SGVCOG.org

Executive Director

San Gabriel Valley Council of Governments

Security Level: Email, Account Authentication
(None)*Marisa Creter*

Signature Adoption: Pre-selected Style

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Payment Events**Status****Timestamps**

FIRE EFFECTS STUDY IN THE ULAR WATERSHED MANAGEMENT AREA

SCOPE OF WORK MODIFICATION

The current Fire Effects Study includes eight tasks. Detail on how the proposed project modification will expand on the existing scope of work is described below.

- Task 1: Project Management and Client Meetings
- Task 2: Develop Work Plan
- Task 3: Regulatory Support
- Task 4: Wet Weather Monitoring
- Task 5: Dry Weather Monitoring
- Task 6: Interim Report
- Task 7: Data Analysis and Modeling
- Task 8: Final Report

Task 1: Project Management and Client Meetings

Expand overall project management and monthly TAC meetings for the additional year of the study. In addition, complete quarterly reports and annual reporting for the SCWP for the additional year of the study.

Deliverables

- Monthly TAC Meeting Minutes
- Quarterly and Annual SCWP Reports

Task 2: Develop Work Plan

The existing Work Plan will be updated to integrate the additional monitoring and modeling efforts described under the subsequent Tasks.

Deliverables

- Revised Final Work Plan

Task 3: Regulatory Support

Expand quarterly meetings with Regional Water Quality Control Board personnel for the additional year of the study. In addition, an additional technical stakeholder group meeting for regional coordination will be held for the additional year of the study. This will include further engagement for Board personnel after the conclusion of the modeling efforts to discuss potential uses and proactively engage on implications of the findings. Given the stringent water quality objectives for stormwater, the potential increase in pollutant loading from fires could cause exceedances. This is a factor not currently considered in the regulatory framework. The results of this study are expected to inform the isolated impacts of potential fires. Therefore, a proactive approach will be taken to engage Board personnel on the findings of this study and potential next steps for use.

Deliverables

- Quarterly Regional Board Meeting Minutes
- Technical Stakeholder Group Meeting Minutes

Task 4: Wet Weather Monitoring

Maintain funds for rapid-response post-fire monitoring in wet weather. Following a significant wildfire, WSP will monitor up to three sites for up to three wet weather events with a forecasted rainfall total of > 0.25 inches during the 2024 monitoring

year. Because fires occur unexpectedly, monitoring locations are not pre-determined. To the extent possible, sites with previous, available monitoring data, accessibility, and an ability to coordinate with other monitoring programs, will be selected. The most appropriate sites downstream of the burn area to be monitored will be determined in coordination with the Project Manager and in accordance with the Upper Los Angeles River Watershed Management Area Fire Effects Study Work Plan and Quality Assurance Project Plan (Work Plan). If no new fires occur, no additional monitoring will be performed outside of the original scope.

Task 5: Dry Weather Monitoring

Maintain funds for post-fire rapid response monitoring, in which immediate post-fire monitoring will be conducted during dry weather. After the occurrence of a wildfire, mobilization of field crews will depend on the criteria developed in the Work Plan (safety, accessibility, representativeness, etc.). If mobilized, WSP will monitor up to three sites for two dry weather events during the 2024 monitoring year. Because fires occur unexpectedly, monitoring locations are not pre-determined. To the extent possible, sites with previous, available monitoring data, accessibility, and an ability to coordinate with other monitoring programs will be selected. Following a significant wildfire, the most appropriate sites to be monitored will be determined in coordination with the Project Manager. Sampling will be performed in accordance with the Work Plan and reference the Upper Los Angeles River Area Post-Fire Rapid Response Work Plan (November 2020).

Task 6: Interim Report

No Change.

Task 7: Data Analysis and Modeling

The primary enhanced efforts of the proposed modifications are under the data analysis of historic fires in Southern California and the model scenarios representative of potential post-fire impacts.

For the additional data analysis, under the existing study a database has been compiled of historic monitoring data related to fires in Southern California from other sources, as shown in Table 1. Preliminary analyses were conducted to help inform the changes to hydrology and pollutant concentrations following fire events. The original scope was limited in this effort and therefore focused on broader statistical analyses and comparisons of pre- and post-fire data. The original effort primarily characterized historic fires based on two variables; burned area and burn severity. The compiled database presents an opportunity to expand on this historic data analysis to focus on additional characteristics of fires that may impact hydrology and water quality changes. This will include further investigation of temporal impacts, such as how long a fire lasts, how long impacts to hydrology and water quality are observed after a fire, along with the influence of storm dynamics following fires. Additional spatial factors will be investigated as well, including distinguishing between the impacts of fires on different land uses and land cover (e.g., soils and slopes) in terms of the response to hydrology and water quality changes. This will be used to better inform the physical parameters adjusted in the modeling to represent the realities of fire impacts more directly. In addition, there are other confounding factors in the data compiled that could be further sorted through with additional analyses. Confounding factors can be better isolated by breaking the data down into additional categories, which therefore will allow observations on conditions more directly caused by fires. There are still many unknowns regarding why elevated pollutant levels are often observed after fires, and expanding this historic data analysis can help to inform more details on the physical and chemical responses.



Table 1. Compiled Historic Fire-Related Data.

Stakeholder	Available Data	Data Timeline
ULAR WMG	CIMP station data	Historical data through 2021
	LARWMP water quality and bioassessment data	2008–present
Ventura County	Water quality and bioassessment data, including burned areas	2015–2021
Orange County	Santiago Fire burn areas	2007–2008 wet season
SCCWRP	SCCWRP Natural resources data Arroyo Seco (Station Fire) Contaminant Loading following wildfires Aerial deposition (Santa Monica Bay)	2001–2010
San Gabriel River Regional Monitoring Program	Monitoring at burn sites (Babcock Fire)	2020–2021
Riverside County	Holy Fire post-fire monitoring report	2018
Various Under the SMC Program	SMC Data	2011–2021

LARWMP = Los Angeles River Watershed Monitoring Program; SCCWRP = Southern California Coastal Water Research Project; CIMP = Coordinated Integrated Monitoring Program, SMC = Stormwater Monitoring Coalition; TBD = to be determined; ULAR = Upper Los Angeles River, WMG = Watershed Management Group

For the additional model scenarios, under the existing study a finite number of post-fire landscape changes are being represented. This primarily consists of representing a minimal and worst-case scenario for three key variables on potential fires in the Upper Los Angeles River; burn area, burn severity, and proximity of burn to assessment points. This is intended to roughly bracket the potential impacts to the watershed. The additional funds will be used to expand the post-fire impact scenarios to look at multiple variations of the variables, such as including more moderate burn severity cases and various representations of where the potential fires take place in the upper watershed of the Upper Los Angeles River. Consistent with the expansion of the data analysis, additional temporal and spatial factors will be represented in the model scenarios under the additional scope. This will include varying the period of a fire and how soon after subsequent storm events are experienced. This will also include representation of different impacts when a fire burns on different land uses and land cover. While the current modeling focuses mostly on the landscape changes and hydrologic and water quality conditions response, the additional funds will also be used to expand the characterization of atmospheric deposition from nearby fires, potentially not directly in the watershed. Additional fire model scenarios will provide more context to determine relative risk of potential fires to this area and stormwater quality, which therefore can best inform decisions for more resilient stormwater management.

Deliverables

- Integrate in the Post-Fire and Climate Change Watershed Model Report and Model Files
- Integrate in the Post-Fire BMP Performance Report

Task 8: Final Report

Results of the additional monitoring, data analysis, and modeling described in the above tasks will be integrated in the Final Report planned for the Fire Effects Study.

Deliverables

- Integrate in the Final Report



SAFE, CLEAN WATER PROGRAM GOALS

The expansion of the Fire Effects Study will significantly enhance the achievement of the Safe, Clean Water Program goals, including the following:

- **Improve water quality and contribute to attainment of water-quality requirements** – the expansion of the Fire Effects Study will help characterize how fires may result in elevated pollutant levels in our watersheds. By better understanding these potential impacts, the study will recommend more resilient management strategies to improve water quality under these conditions. This will include recommendations for strategies that can more directly address the core causes of degraded water quality.
- **Encourage innovation and adoption of new technology and practices** – the expansion of the Fire Effects Study will identify how potential fires and projected climate change may influence the performance of stormwater BMPs. More innovative BMP designs that can maximize performance under these changing conditions will be recommended. In addition, recommendations may include the adoption of new practices to address the core causes of elevated pollution under fire conditions.
- **Invest in independent scientific research** – the Fire Effects Study collaborated with multiple agencies to compile the historic database of fire-related data. Expanding the data analysis with this database will contribute to the overall scientific research on the impacts of fires to stormwater quality. There are still many unknowns regarding why elevated pollutant levels are often observed after fires, and expanding this historic data analysis can help to inform more details on the physical and chemical responses. In addition, the models being developed under this study are a first of its kind representation of post-fire impacts to a watershed.
- **Implement an iterative planning and evaluation process to ensure adaptive management** – the Fire Effects Study itself implements adaptive management by evaluating current stormwater management strategies performance under potential fire and climate change projections to inform recommended design adjustments under these changing conditions.



SCHEDULE MODIFICATION

The following table provides an overview of the modified schedule for the Fire Effects Study.

Task	Task Description	Original Completion Date	Modified Completion Date
1	Project Management and Client Meetings	Ongoing	Extend through December 2025
2	Develop Work Plan (final work plan)	April 2022	Revised Work Plan August 2024
3	Regulatory Support	November 2024	Extend through December 2025
4	Wet Weather Monitoring	October 2022-October 2023 October 2023-October 2024	Extend through April 2024 ^a
5	Dry Weather Monitoring	May 2022-May 2023 May 2023-May 2024	Extend through September 2024 ^a
6	Interim Report	November 2023	No change
7	Data Analysis and Modeling	May 2022- September 2024	Extend through September 2025
8	Final Report	November 2024	Extend through November 2025

Notes:

- a. The Wet Season in the region is defined as October 1 through April 30, annually. Dry Season is defined as May 1 through September 30, annually. To adhere to the proposed project end data, Wet Weather and Dry Weather monitoring activities would target events during the regional wet and dry seasons to receive analytical results in time to be integrated into the Study models.



BUDGET MODIFICATION

Table 2. ULAR and Rio Hondo WMG Fire Study Cost Estimate

Task No.	Task Description	WASC	Original Budget	Additional Budget	Total
1	Project Management and Client Meetings	Rio Hondo	\$9,044	\$4,155	\$13,199
		Upper Los Angeles River	\$30,276	\$13,911	\$44,187
2	Develop Work Plan	Rio Hondo	\$22,547	\$2,295	\$24,842
		Upper Los Angeles River	\$75,483	\$7,685	\$83,168
3	Regulatory Support	Rio Hondo	\$11,859	\$6,211	\$18,070
		Upper Los Angeles River	\$39,701	\$20,793	\$60,494
4	Wet Weather Monitoring	Rio Hondo	\$38,629	\$20,553	\$59,182
		Upper Los Angeles River	\$129,322	\$68,810	\$198,132
5	Dry Weather Monitoring	Rio Hondo	\$22,100	\$3,250	\$25,350
		Upper Los Angeles River	\$73,986	\$10,881	\$84,867
6	Interim Report	Rio Hondo	\$12,464	\$0	\$12,464
		Upper Los Angeles River	\$41,726	\$0	\$41,726
7	Data Analysis and Modeling	Rio Hondo	\$40,186	\$51,520	\$91,706
		Upper Los Angeles River	\$134,534	\$172,480	\$307,014
8	Final Report	Rio Hondo	\$28,323	\$7,976	\$36,299
		Upper Los Angeles River	\$94,820	\$26,704	\$121,524
Total		Rio Hondo	\$185,150	\$95,962	\$281,112
		Upper Los Angeles River	\$619,850	\$321,262	\$941,112

