Safe, Clean Water Program

Rio Hondo

Watershed Area Steering Committee (WASC)

Meeting Minutes:
Wednesday, January 29, 2019
9:00am - 11:00am
City of Monrovia, Monrovia Room
321 S. Myrtle Ave Monrovia, CA 91016

Attendees

Committee Members and Alternates:
Mark Lombos (LA County)
Julian Juarez (LA County Flood Control District)
Kelly Gardner (Main San Gabriel Basin)
Kristen Ruffell (Sanitation Districts)
Michael Hurley (Cal Water)
Brent Maue (City of Pasadena Parks and Recreation)
Thomas Wong (San Gabriel Valley Municipal Water District)
Frank Lopez (Monterey Park)
David Dolphin (Alhambra
Vanessa Hevener (Arcadia)
Sean Singletary (Pasadena)
James Carlson (Sierra Madre)
Gloria Crudgington (Monrovia)

Committee Members Not Present
Tom Love (Upper San Gabriel Valley Municipal Water District)
Ron Miller (LA/OC Building Trades)
Mark Hall (Greater LA County Vector Control District)
Daniel Rossman (The Wilderness Society)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. **Welcome and Introductions**

   Mr. Carlson of Sierra Madre, the Chair of the Rio Hondo welcomed all of the members and confirmed a quorum of the committee was present. All committee members made self-introductions.

2. **Approval of Meeting Minutes from January 15, 2020**

   The Los Angeles County Flood Control District (District) provided a copy of the meeting minutes from the previous meeting. Mr. Carlson asked the committee members for comments or revisions.

   Mr. Dolphin made a motion to approve the meeting minutes from January 15, 2020. Mr. Maue seconded the motion. **The committee voted to approve the meeting minutes from January 15, 2020 (unanimous).**

3. **Committee Member and District Updates**

   Mr. Kevin Kim (District) provided clarification on the Technical Resources Program, a summary of the new Ex Parte and COI Q&A guideline document, and a summary of the scoring progress so far by the Scoring Committee (SC).

   Mr. Kim presented committee members with a WASC Review Sheet for each presentation which contains targeted questions consistent with the Stormwater Investment Plan Criteria described in

the Implementation Ordinance. The WASC review sheet is a tool for committee members to take personal notes and aide in discussions when programming the SIP.

4. Public Comment Period

No public comment.

5. Voting Items:

None.

6. Discussion Items:

a. TRP: Vincent Lugo Park Stormwater Capture Feasibility Study (City of San Gabriel)

Presentation by Greg Jaquez. The project concept consists of diversion of stormwater runoff in the Alhambra Wash Channel to potential configurations of bioswales, mechanical treatment systems, storage cisterns, and subsurface infiltration galleries in Vincent Lugo Park. Discussion followed.

Mr. Carlson asked if the project is currently included in ULAR EWMP. Mr. Jaquez confirmed that the project is not currently included in ULAR EWMP but is similar/ancillary to Almansor Park Project. The Almansor Park Project may request funding through the Technical Resources Program in July. The committee also identified other nearby projects and stressed the need for coordination during the design phase.

The committee discussed outreach/engagement for the Technical Resources Program (TRP). The District clarified that the Technical Assistance Teams will work closely with the project applicant to develop an outreach/engagement plan to meet the feasibility study requirements. Additional guidance will be provided at a later date. The applicant plans to leverage the stakeholder list for the Parks Master Plan. The Watershed coordinators may be involved in outreach/engagement and coordination between projects.

The committee stressed the need to maximize city benefits and provide measurable improvements to water quality to comply with MS4 permits.

Ms. Crudgington asked about the Municipal Program and noted that the applicant could leverage municipal funds for this project. Mr. Kim clarified that municipalities are required to submit annual reporting to ensure funds are used for eligible expenditures.

b. SS: preSIP: A Platform for Watershed Science and Project Collaboration (San Gabriel Valley Council of Governments)

Presentation by Chad Helmle, President of Craftwater Engineering. As a precursor to the Stormwater Investment Plans (SIP), this preSIP Scientific Study will support the WASC and the SGVCOG by developing a platform to consolidate intertwined goals and disparate project proposals into a balanced, collaborative, and cost-effective plan. Discussion followed.

Mr. Lombos asked how this effort would be integrated into the Rio Hondo/San Gabriel rEWMP efforts. Mr. Helmle stated that the groundwork for the rEWMP will likely stay intact, and the preSIP would build the rest of the program around that concept.

The committee discussed why a similar tool was not already incorporated into the program. It was noted that there a many different masterplans with varying priorities and interests, so the data has not been centralized and there are no comprehensive analytics available and also very costly to develop this kind of tool. The Watershed Coordinator will not have the technical or analytical capacity to conduct this type of analysis, so there would be no overlap in responsibilities.

Mr. Carlson noted that this project would require 36% of the allocated funding available for Scientific Studies each year.

Mr. Juarez asked how excess funds would be addressed. Mr. Kim clarified that excess funds for each WASC would be carried over to the next fiscal year.

Ms. Crudgington asked if other watersheds would benefit from this project. Mr. Helmle clarified that separate funding requests were sent to Upper Los Angeles River and Rio Hondo WASCs only.

c. SS: Load Reduction Strategy Adaptation to Address the LA River Bacteria TMDL for the ULAR Watershed Management Group (San Gabriel Valley Council of Governments)

Presentation by Brianna Datti, Water Resources Engineer at Tetra Tech. The ULAR Group has asked the SGVCOG to submit a scientific studies application under the Safe, Clean Water Program on their behalf to pursue the necessary funding for development of a Load Reduction Strategy (LRS) adaptation plan, with the goal to adapt the LRS to better align implementation actions in order to successfully reduce potential health risks to recreators. Discussion followed.

Mr. Lombos asked about discussions with the Regional Water Quality Control Board (RWQCB). Ms. Datti stated that the RWQCB's mission is in line with the intent of LRS and they would likely be a partner. Conversations are currently ongoing.

Mr. Carlson noted that the LRS adaption plan may go hand in hand with the homeless efforts in the region.

d. SS: Regional Scientific Study to Support Protection of Human Health through Targeted Reduction of Bacteriological Pollution (Richard Watson & Associates)

Presentation by Richard Watson. Overview of a proposed Regional Scientific Study that will use the latest available technologies and approaches to measure waterborne pathogens across Safe Clean Water Program watersheds to help identify key sources of human health risk, develop cost-effective strategies that better protect human health, and support the regulatory shift needed to accommodate a modernized approach. Discussion followed.

Ms. Ruffell asked how the three proposed Scientific Studies would interact with one another. The applicants noted that there would be no overlap and that their efforts would complement one another. The Regional Scientific Study would focus on regulatory updates and targeting investments. The LRS adaption plan would focus on source

ID/abatement and could feed into the Regional Scientific Study. The analysis from both studies can then be folded into the preSIP to assist with decision making.

Mr. Watson clarified that the Project Lead will likely be the Gateway Water Management Authority pending execution of the Transfer Agreement.

7. Items for next agenda

Mr. Kim stated that the District will present the 5-year Expenditure Projections and the SIP Planning Tool at the next meeting.

8. Adjournment

Mr. Carlson thanked the committee members and public for their time and participation and adjourned the meeting.

Rio Hondo

Watershed Area Steering Committee Meeting

COMMITTEE MEMBER AND ALTERNATE SIGN-IN

SAFE CLEAN WATER

Member Name	Municipality/ Organization	Email Address		Signature
Julian Juarez	FCD	JJUAREZ@dpw.lacounty.gov	P	
Kelly Gardner	Main San Gabriel Basin	kelly@watermaster.org	P	
Brent Maue	City of Pasadena Department of Public Works	Bmaue@cityofpasadena.net	P	
Kristen Ruffell	Sanitation Districts	kruffell@lacsd.org	P	
Tom Love	Upper San Gabriel District	tom@usgvmwd.org	P	
Thomas Wong	San Gabriel Valley MWD Division 3	thomaswong05@gmail.com	P	
Michael Hurley	Cal Water	mhurley00@gmail.com	P	
Ron Miller	LA/OC Building Trades	rmiller@laocbuildintrades.org	P	
Daniel Rossman	The Wilderness Society	daniel_rossman@tws.org	P	
Mark Hall	Vector Control	mhall@glacvcd.org	P	
David Dolpin	Alhambra	ddolphin@cityofalhambra.org	P	
Vanessa Hevener	Arcadia	vhevener@ArcadiaCA.gov	P	
Mark Lombos	Los Angeles County	MLOMBOS@dpw.lacounty.gov	P	Present
Gloria Crudgington	Monrovia	gcrudgington@ci.monrovia.ca.us	P	
Frank Lopez	Monterey Park	flopez@montereypark.ca.gov	P	
Sean Singletary	Pasadena	ssingletary@cityofpasadena.net	P	

Rio Hondo

Watershed Area Steering Committee Meeting

PUBLIC SIGN-IN

SAFE CLEAN WATER

First Name	Last Name	Municipality/Organization	Email Address
Richard	Watson	RWA	rwatson@rwaplanning.com
Jason	Pereira	CWE	jpereira@cwecorp.com
Brianna	Datti	Tetra Tech	brianna.datti@tetratech.com
Clint	Boschen	Tetra Tech	Clint.Boschen@tetratech.com
Cameron McCullough		JLHA	cmccullough@jlha.net
BLAKE	WHITTINGTON	SELF	
JOSHUA	FELTON	LACPW	
Samantha	Matthews	COG	
Katie	Ward	COG	
David	Dolphin	Alhambra	ddolphin@cityofalhambra.org
Mackenzie Domann	Domann	County	mdomann@pw.lacounty.gov
Joe	Venzon	County	
Jud Weaver	~~Weston~~	Weston	robert.weaver@westonsolutions.com
Melanie Morita	LACFCD		
Kevin	Kim	LACFCD	

*Signing or completing this form is voluntary for members of the public

January 29, 2020

Rio Hondo
Watershed Area Steering Committee Meeting
COMMITTEE MEMBER AND ALTERNATE SIGN-IN

SAFE CLEAN WATER

Member Name	Municipality/ Organization	Email Address		Signature
James Carlson	Sierra Madre	jcarlson@cityofsierramadre.com	P	
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
Tony Zampiello	Main San Gabriel Basin Watermaster	tony@watermaster.org	A	
Martha Tremblay	Sanitation Districts	mtremblay@lacsd.org	A	
Robert Tock	Upper San Gabriel District		A	
Bryan Matsumoto	Nature for All	bryan@lanatureforall.org	A	
Liliana Griego	Friends of the Los Angeles River	liliana@folar.org	A	
Mark Daniel	Vector Control	mdaniel@glacvcd.org	A	
Eddie Chan	Arcadia	echan2@ArcadiaCA.gov	A	
Latoya Waters	Alhambra	lwaters@cityofalhambra.org	A	
Fernando Villaluna	Los Angeles County	FVILLALUNA@dpw.lacounty.gov	A	
Sean Sullivan	Monrovia	ssullivan@ci.monrovia.ca.us	A	
Mark A. McAvoy	Monterey Park	mmcavoy@MontereyPark.ca.gov	A	
Kris Markarian	Pasadena	kmarkarian@cityofpasadena.net	A	
Chris Cimino	Sierra Madre	CCimino@cityofsierramadre.com	A	

Load Reduction Strategy Adaptation to Address the LA River Bacteria TMDL for the Upper Los Angeles River Watershed Management Group

Watershed Area Steering Committee Meeting
January 29, 2020

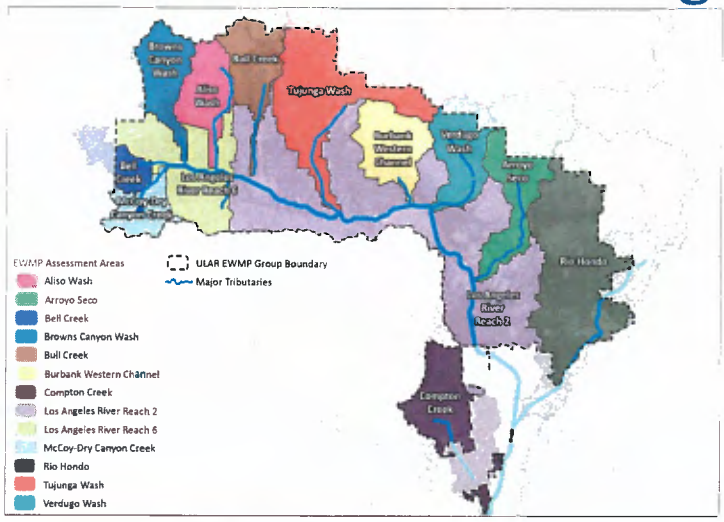
Study Lead: San Gabriel Valley Council of Governments on behalf of the ULAR Watershed Management Group (19 Agencies)

Presenter: Brianna Datti, Tetra Tech
brianna.datti@tetratech.com
(603)988-6997

Clint Boschen, Tetra Tech
clint.boschen@tetratech.com
(703)593-1803

complex world | CLEAR SOLUTIONS™

Upper Los Angeles River a Unique and Diverse Watershed Management Area



- 19 Permittees
- Open space/forest upstream and downstream urbanized
- 31.5 miles of LA River and 11 Tributaries

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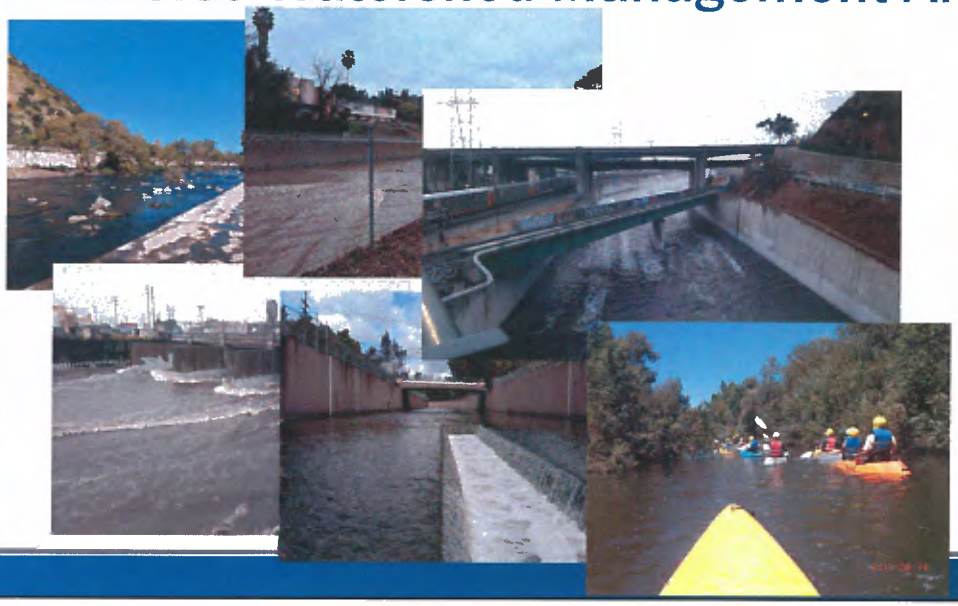
Upper Los Angeles River a Unique and Diverse Watershed Management Area



- Challenge to protect recreational beneficial uses, threatened by bacteria impairments

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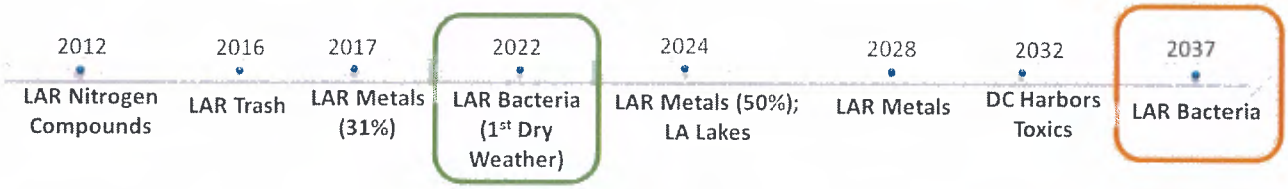
Bacteria Most Immediate (and Costly) Regulatory Deadline



- **Dry Weather Strategy:**
  - Load Reduction Strategy (LRS)
    - 16 prioritized segments
    - Submitted 5 LRS's
      - 2 completed projects, other's issues with implementation
- **Wet Weather Strategy:**
  - Additional Structural BMPs:
    - 1,218 acre-ft
    - $2.6 Billion (Capital)
      - Annual O&M increases $34 Million

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Challenges with LRS Implementation

- **Requested extensions for:**
  - Segment B – Mainstem Los Angeles River ~~DENIED~~
  - Segment B (Tributary) – Arroyo Seco
  - Segment B (Tributary) - Rio Hondo (pending decision)

Encountered Numerous Issues during Implementation

Negotiations with Private Parties

Soil Contamination

Utility Conflicts

Traffic Mitigation

Heavily Urbanized

Underground Storage Tanks

High Groundwater

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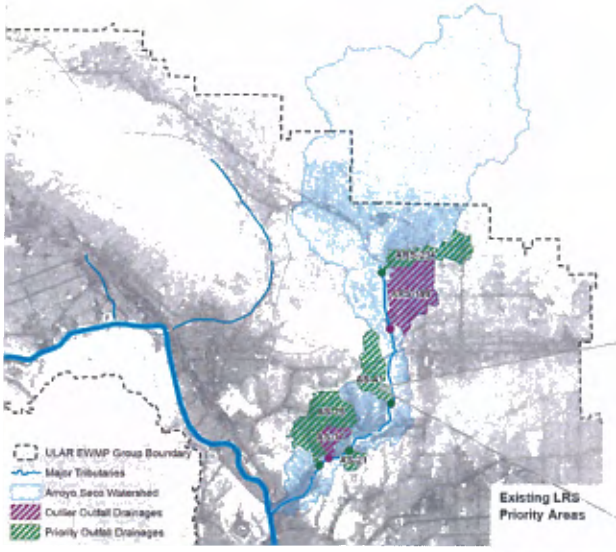
Example of Continued LRS Challenges



- **Arroyo Seco**
  - Four priority outfalls

High Groundwater

Negotiations with Private Parties

Water Rights

Soil Contamination

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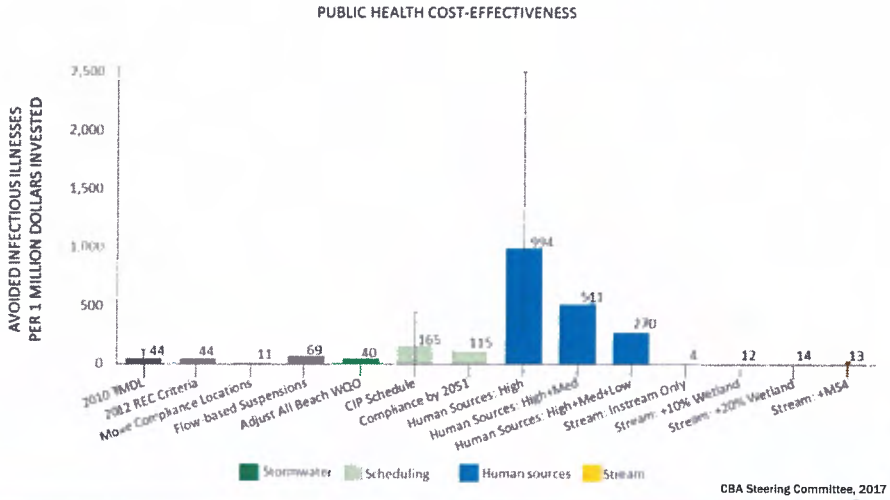
Fecal Indicator Bacteria (FIB) vs Pathogens

FIB are indicators of pathogens but do not cause illness directly



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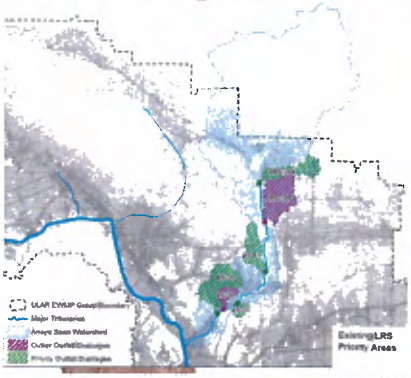
Adaptive Management of LRS

Current Approach

Load Reduction Strategy

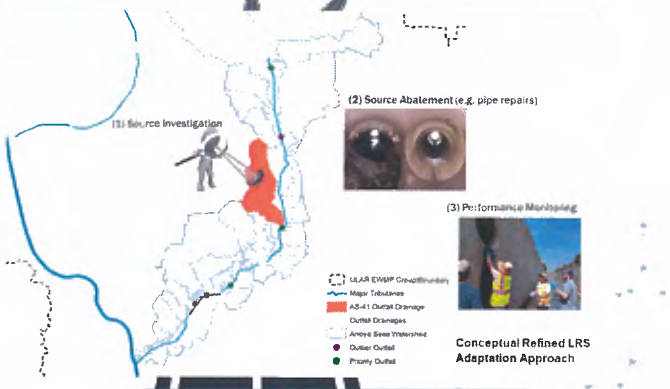


Uncertain Beneficial Use Attainment

New Proposed Approach

Load Reduction Strategy

Strategic Work Plan to Prioritize Source ID and Abatement Efforts



Assured Beneficial Use Attainment

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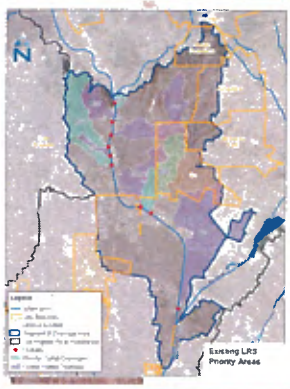
Adaptive Management of LRS

Current Approach

Load Reduction Strategy



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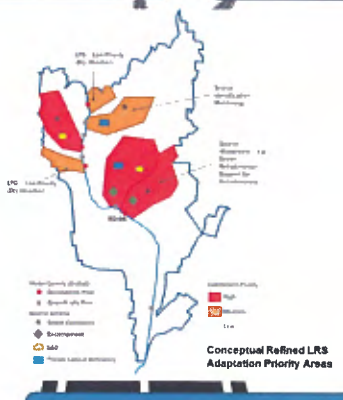

Assured Beneficial Use Attainment

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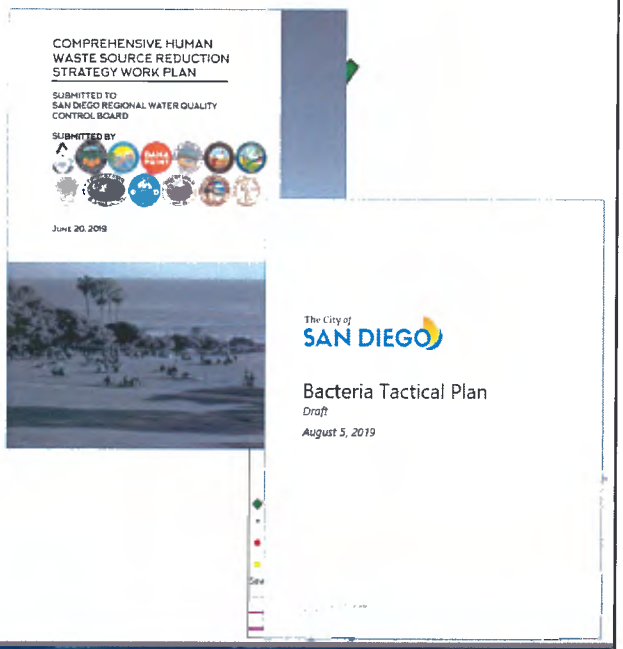
http://www.ocwatersheds.com/documents/south_oc_water_quality_improvement_plan_(wqip)/comprehensive_human_waste_source_reduction_strategy_work_plan

Outcomes & Benefits

- Refine prioritized investigation/abatement areas based on feasibility and effectiveness
- Evaluate potential pathogen sources, ID data gaps, monitoring to fill, and appropriate abatement actions
- More cost-effective implementation actions, protective of beneficial uses
- Potential to leverage methods and data region-wide
- Coordination with stakeholders and Regional Board, to ensure align with regulatory expectations



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Outcomes & Benefits

Safe, Clean Water Program Objectives Addressed:

- **Improve water quality and contribute to attainment of water quality requirements**
  - Progress toward attainment of bacteria-related water quality objectives
- **Improve public health by preventing and cleaning up contaminated water**
  - Focused on protecting public health
- **Encourage innovation and adoption of new technologies and practices**
  - Applying significant advances in scientific understanding of bacteria-related issues
- **Implement an iterative planning and evaluation process to ensure adaptive management**
  - Plan itself is adaptive management
- **Promote green jobs and career pathways**
  - Source ID/Abatement efforts require appropriate staffing

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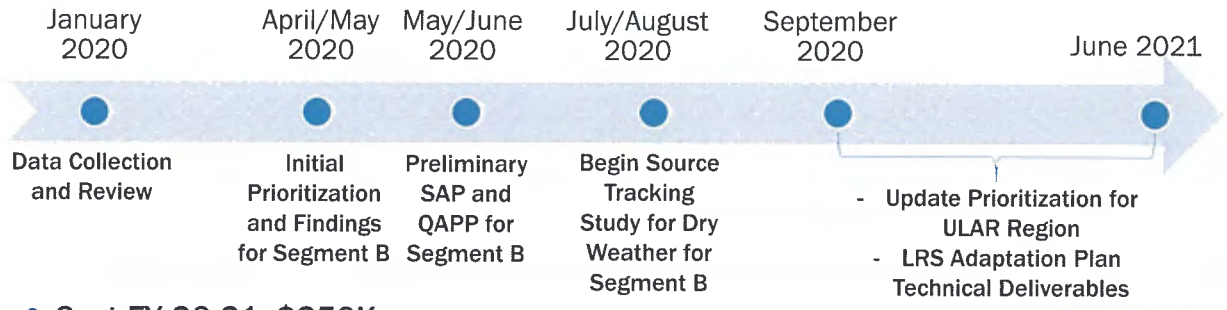
Schedule and Budget for FY 20-21



- **Cost FY 20-21: $250K**
  - Upper Los Angeles River: $192,500
  - Rio Hondo: $57,500
- **Phase II: FY 21-22, 22-23 – Continue source ID/abatement based on LRS Adaptation Plan findings, schedule focused on earliest regulatory deadlines**

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Questions?

Supplemental Slides

Comparison of Proposed Bacteria Studies

	LRS Adaptation Study	Regional Bacteria Study
SCOPE	Implementation-focused	Regulatory-focused
TIMELINE	Addressing near-term TMDL milestones	Longer term outcomes, after TMDL milestones
SPATIAL EXTENT	Upper Los Angeles River Watershed Management Area	Los Angeles County
COST (FY 20-21)	ULAR: $192,500 RH: $57,500	ULAR: $716,801 RH: $213,532
RELATIONSHIP TO OTHER STUDY	Compliments the Regional Bacteria Study, but not dependent on it's outcomes	Leverage findings from the LRS Adaptation Study

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Estimated Total Budget

WASC	Year 1 (2020-2021)	Year 2 (2021-2022)*	Year 3 (2022-2023)*	Total
ULAR	$192.5k	$385k	$308k	$885.5k
RH	$57.5k	$115k	$92k	$264.5k

*May be updated based on LRS Adaptation Plan findings from Year 1

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LA River Bacteria TMDL Language

- ***Demonstrate that non-compliance is due to upstream contributions***
- ***Reconsider TMDL based upon technical studies or policy changes, including but not limited to:***
  - *Alterations to recreational beneficial use designations*
  - *Revision of US EPA recommended bacteria criteria, Regional Board or State Board bacteria standards*
  - *Expansion of the HFS provisions*
  - *Technical evaluations of natural and anthropogenic sources of bacteria, including viable alternatives to defining natural or anthropogenic sources of bacteria*
  - *Natural sources exclusion*

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Overview of Proposed Scientific Study

Richard Watson, Richard Watson & Associates, Inc. (RWA)

Presentation to Rio Hondo WASC

29 January 2020

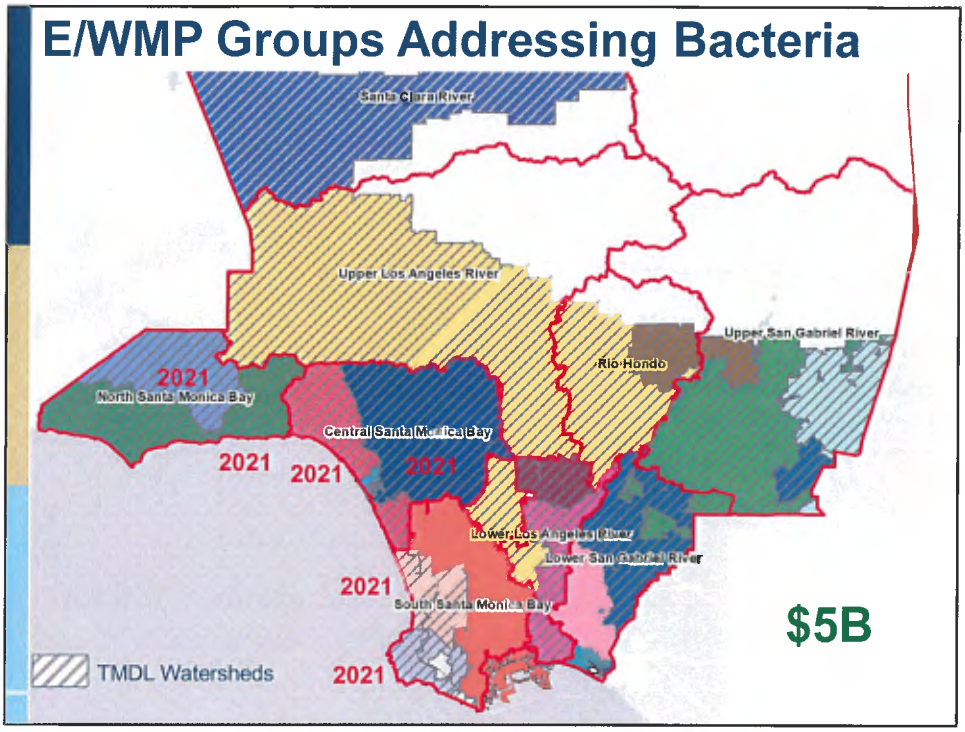
1

Overview

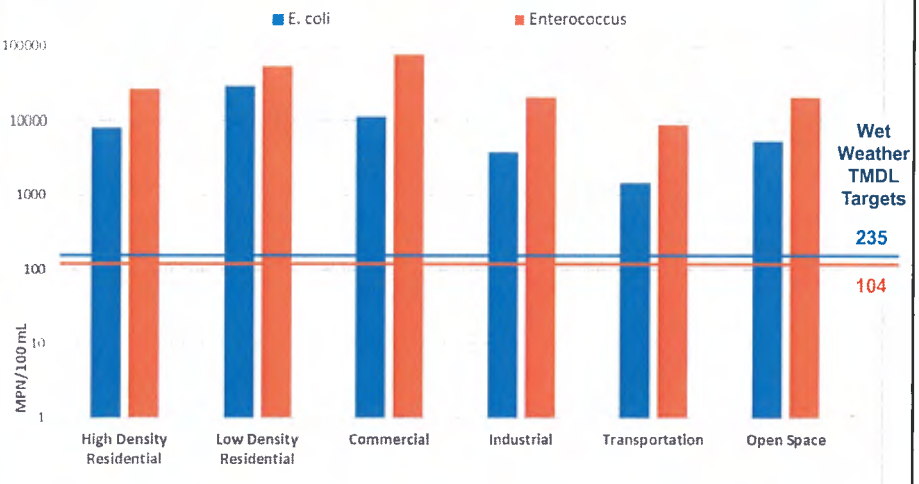
- Bacteria Challenges
- Nexus to Stormwater Capture
- Objectives of Study
- Scientific Study Approach
- Scientific Study Schedule and Cost Estimate
- Summary of Study

2

E/WMP Groups Addressing Bacteria



Wet Weather Average Concentrations: LA County Land Uses



Source: LA County land use pollutant loading (SCCWRP 2007)

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Nexus to Stormwater Capture and Study Objectives

- Nexus to Stormwater Capture
  - Study will facilitate improved targeting of sources and water to capture
  - Study could reduce need to capture stormwater for bacteria compliance purposes
- Objective of Study
  - Leverage recent research
  - Produce strategies for incorporation into Program Plans
  - Support regulating agencies in making informed decisions

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Scientific Study: Initial Steps

- Small Group Initiated Discussions
  - City and County of LA; LLC, LLAR, LSGR; and LWA
- Developed Special Study Approach
  - Apply state of the science to LA County specific issues
  - Built a scope for Measure W Regional Program funded study that each group can elect to participate (or not)
- Presented Approach E/WMP Groups
- Discussed with Regional Board staff

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What will the study do?

Task 1 Stakeholder Process

	Task 2		Task 3		Task 4
	Risk Assessment		Risk Management		Regulations
	Measurement Type:	Target Type:	Sources Targeted:	Control Measures:	Compliance
CURRENT APPROACH:	Fecal indicator bacteria	MPN per 100mL below WQO	All sources	Widespread retention plus source control	Achieve default statewide FIB-based WQOs
FRAMEWORK TO BE DEVELOPED BY STUDY:	Measurement of Risk (e.g., Human Markers)	Risk less than 32/1000	Risky Sources	Targeted retention plus targeted source control	Achieve risk-based, LA region-specific Basin Plan and/or MS4 Permit provisions

Potential Cost Savings 7

Study Schedule

Task	Year									
	1		2		3		4		5	
Task 1 – Stakeholder Process										
Task 2 – Risk Assessment										
Task 3 – Risk Management										
Task 4 – Regulatory Revisions										

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Measure W Scientific Study Funding

- Funding is now available to address issue through studies
- Multi-year studies eligible for scientific study funding (5% of regional program funds)

Watershed Area	Estimated Available Regional Funding for Special Studies	
	Annual*	5 Years*
Central Santa Monica Bay	$890,000	$4,450,000
Lower Los Angeles River	$640,000	$3,200,000
Lower San Gabriel River	$835,000	$4,175,000
North Santa Monica Bay	$90,000	$450,000
Rio Hondo	$575,000	$2,875,000
Santa Clara River	$300,000	$1,500,000
South Santa Monica Bay	$920,000	$4,600,000
Upper Los Angeles River	$1,930,000	$9,650,000
Upper San Gabriel River	$945,000	$4,725,000
Total	**$7,125,000**	**$35,625,000**

* Assumes Measure W revenue of $285,000,000/year.

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Cost Estimate

Tasks		Cost Estimate
Task 1-	Stakeholder Process	$490,000
Task 2-	Risk Assessment	$5,880,000
Task 3-	Risk Management	$2,940,000
Task 4-	Regulatory Revisions	$490,000
Total		$9,800,000

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Watershed Area Cost Allocations – Los Angeles County Bacteria Scientific Study

Watershed Area	% Share of Budget for Study[2]	Projected SCWP Scientific Study Funds		Study Contribution by Watershed Area	Percent of SCWP Scientific Study Funds over 5-Years
		Annual	5-Year		
Central Santa Monica Bay	12.5%	$890,695	$4,453,125	$1,224,282	27.5%
Lower Los Angeles River	8.98%	$639,825	$3,199,125	$880,257	
Lower San Gabriel River	11.72%	$835,050	$4,175,250	$1,148,559	
North Santa Monica Bay	1.26%	$89,775	$448,875	$123,786	
Rio Hondo	8.07%	$574,988	$2,874,938	$790,860	
Santa Clara River	4.21%	$299,962	$1,499,812	$412,629	
South Santa Monica Bay	12.91%	$919,838	$4,599,188	$1,265,369	
Upper Los Angeles River	27.09%	$1,930,162	$9,650,812	$2,654,816	
Upper San Gabriel River	13.26%	$944,775	$4,723,875	$1,299,442	
Total	**100%**	**$7,125,000**	**$35,625,000**	**$9,800,000**	

1. Costs assume participation by all Watershed Areas, which increases efficiency of the study. Costs will need to be recalculated if not all Watershed Areas participate. Projected SCWP Scientific Study Funds are based on $142.5 million in annual funds for the regional program (5% of which is available for scientific studies).
2. Percent of Total Budget is based on a proportional distribution of the costs based on the SCWP taxable impervious area.

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Watershed Area Cost Allocations – Annual Cost Estimates to Implement Bacteria Study

Watershed Area	Study Year					Total Budget	Projected Scientific Study	
	1	2	3	4	5		Funds Available	% of Fund 5
Central Santa Monica Bay	$330,750	$330,750	$330,750	$116,016	$116,016	$1,224,282	$4,453,125	27.5%
Lower Los Angeles River	$237,611	$237,611	$237,611	$83,712	$83,712	$880,257	$3,199,125	
Lower San Gabriel River	$310,111	$310,111	$310,111	$109,113	$109,113	$1,148,559	$4,175,250	
North Santa Monica Bay	$33,340	$33,340	$33,340	$11,883	$11,883	$123,786	$448,875	
Rio Hondo	$213,532	$213,532	$213,532	$75,132	$75,132	$790,860	$2,874,938	
Santa Clara River	$111,397	$111,397	$111,397	$39,219	$39,219	$412,629	$1,499,812	
South Santa Monica Bay	$341,599	$341,599	$341,599	$120,286	$120,286	$1,265,369	$4,599,188	
Upper Los Angeles River	$716,800	$716,800	$716,800	$252,208	$252,208	$2,654,816	$9,650,812	
Upper San Gabriel River	$350,860	$350,860	$350,860	$123,431	$123,431	$1,299,442	$4,723,875	
Total	**$2,646,000**	**$2,646,000**	**$2,646,000**	**$931,000**	**$931,000**	**$9,800,000**	**$35,625,000**	

1. Costs assume participation by all Watershed Areas, which increases efficiency of the study. Costs will need to be recalculated if not all Watershed Areas participate. Projected SCWP Scientific Study Funds are based on $142.5 million in annual funds for the regional program (5% of which is available for scientific studies).
2. Percent of Total Budget is based on a proportional distribution of the costs based on the SCWP taxable impervious area.

12

Summary of Study

- Will use latest available technologies to measure water-borne pathogens across watersheds.
- Will help identify key sources of human health risk, develop cost-effective protective strategies, and support needed regulatory shifts in support of this approach.
  - To make this successful, can't just be technical
  - Best way to focus on risk in the region
  - The time is now.

13

Questions and Thank You

Richard Watson
Richard Watson & Associates
rwatson@rwaplanning.com
(949) 394-8495

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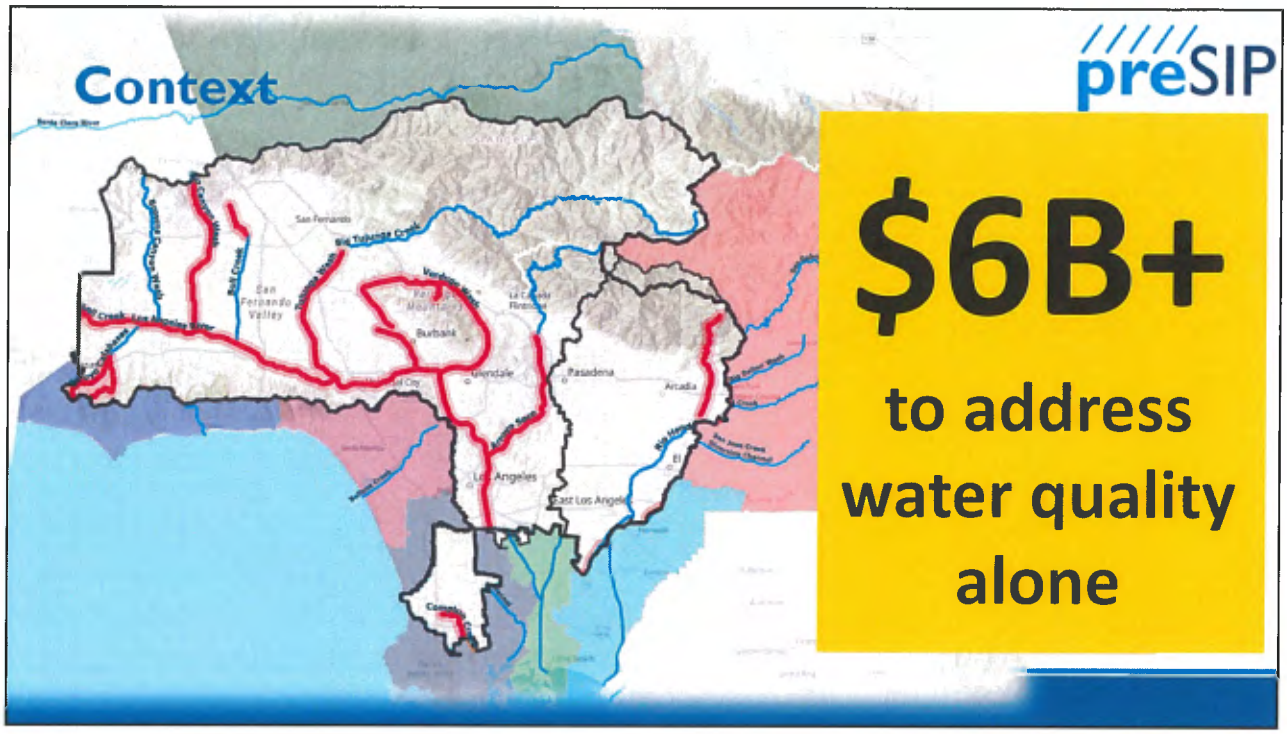
preSIP

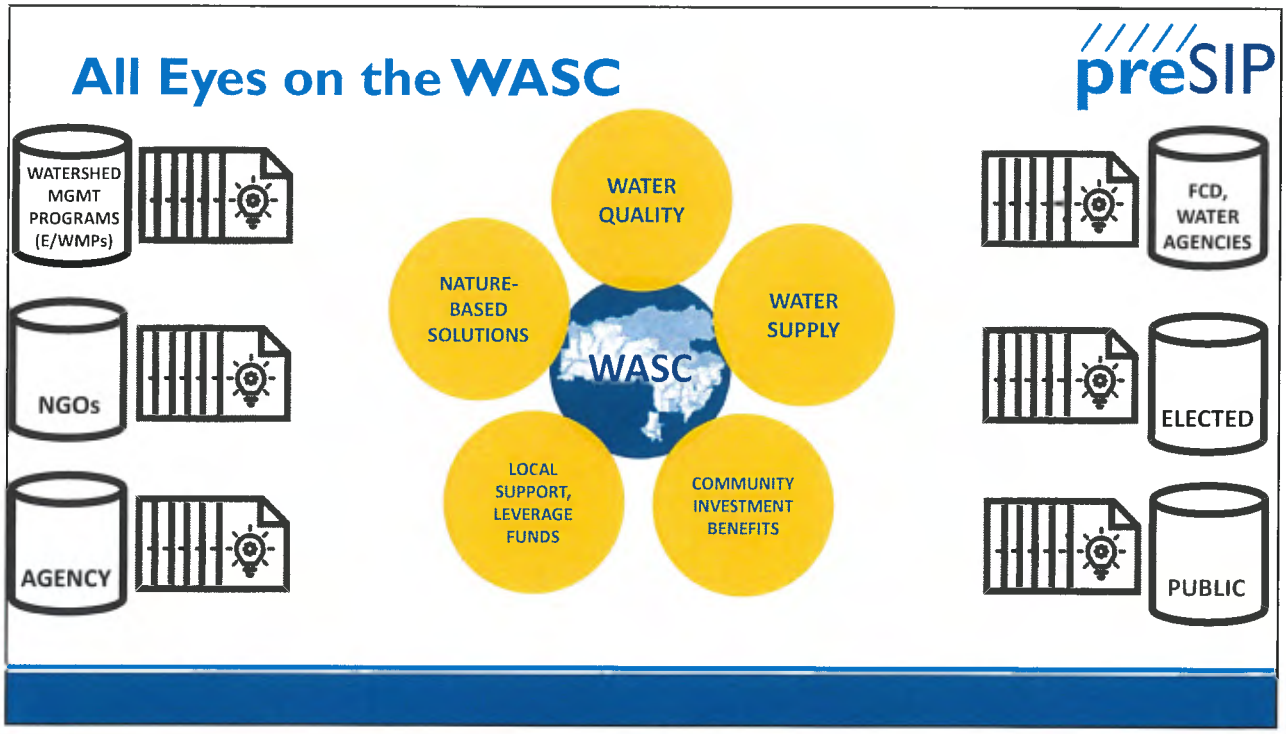
A Platform for Watershed Science and Project Collaboration

SGVCOG

A Safe, Clean Water Scientific Study Proposal | 29 Jan 2020 | RH WASC

SGVCOG


Context
preSIP
$6B+
to address water quality alone


All Eyes on the WASC
preSIP
WATERSHED MGMT PROGRAMS (E/WMPs)
NGOs
AGENCY
WATER QUALITY
NATURE-BASED SOLUTIONS
WATER SUPPLY
WASC
LOCAL SUPPORT, LEVERAGE FUNDS
COMMUNITY INVESTMENT BENEFITS
FCD, WATER AGENCIES
ELECTED
PUBLIC

Building Your Best SIP

preSIP

SIP Needs to Be:
- Efficient & Balanced

SIP

Building Your Best SIP

preSIP

SIP Needs to Be:
- Efficient & Balanced
- Defensible & Collaborative

SIP

Building Your Best SIP

preSIP

COMPLIANCE TARGET (CLEAN WATER)

SIP Needs to Be:

- Efficient & Balanced
- Defensible & Collaborative
- Science-Driven Assurance of Compliance

SIP

Building Your Best SIP

preSIP

SIP Needs to Be:

- Efficient & Balanced
- Defensible & Collaborative
- Science-Driven Assurance of Compliance
- Adaptable & Accessible

SIP

preSIP is Here to Help

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PROJECTS

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PROJECTS

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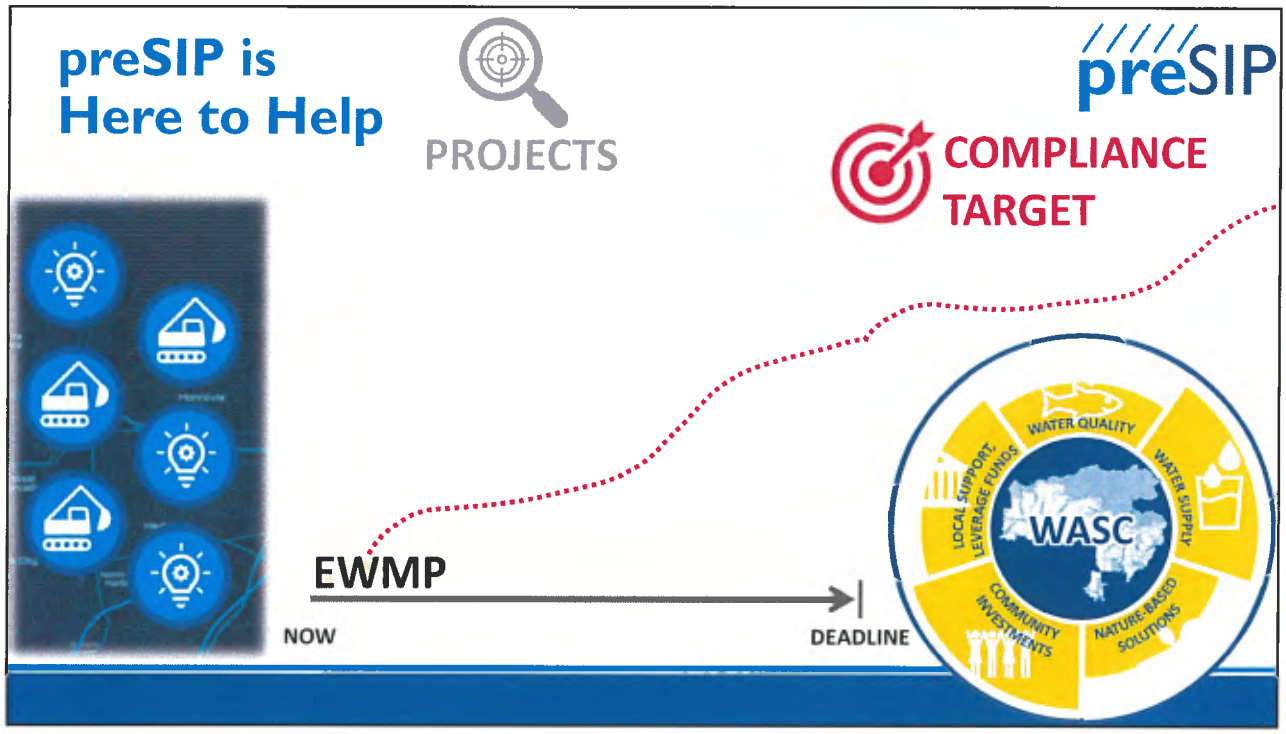
preSIP is
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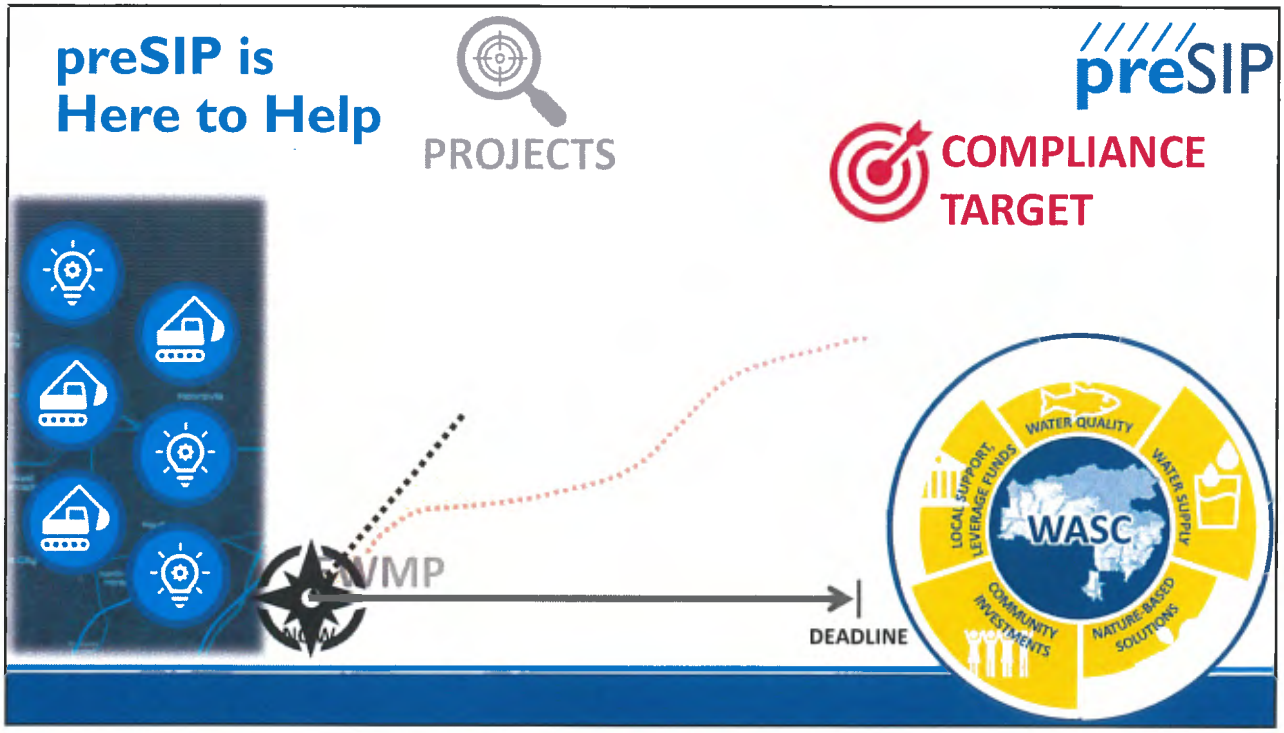
LOCAL SUPPORT; LEVERAGE FUNDS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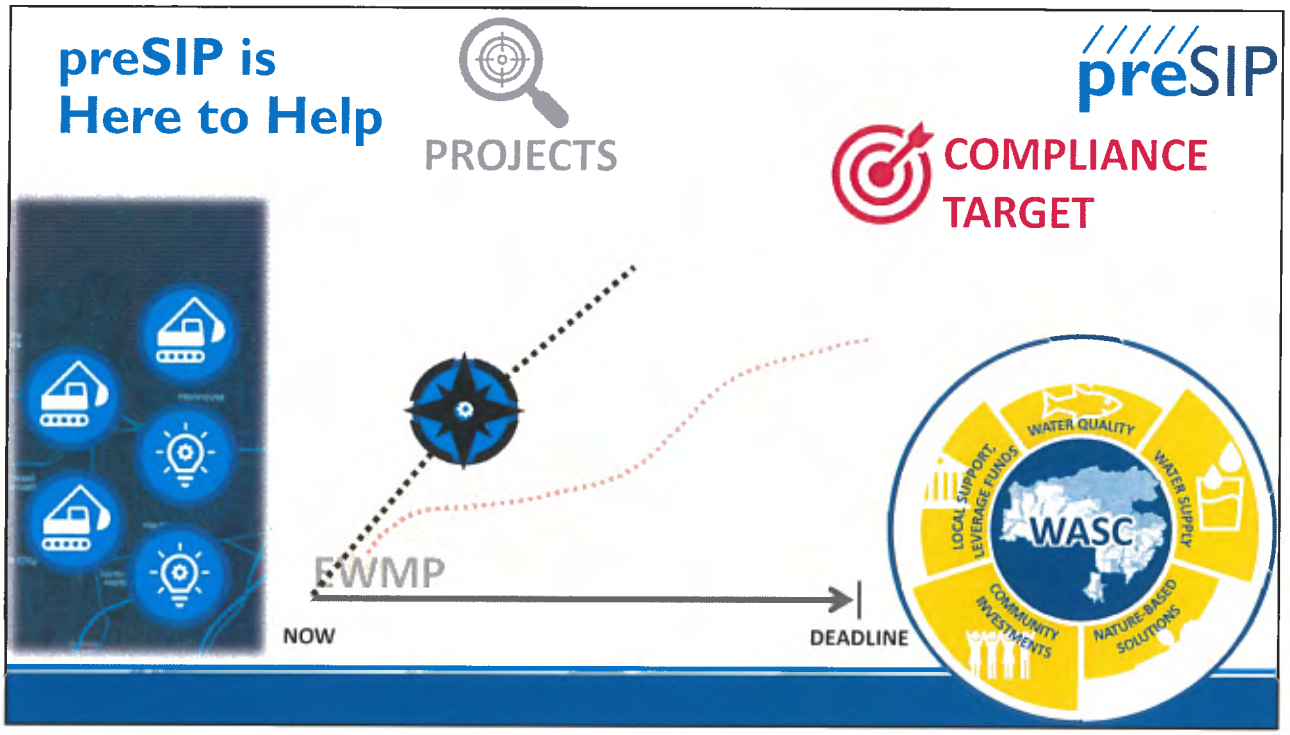
LOCAL SUPPORT; LEVERAGE FUNDS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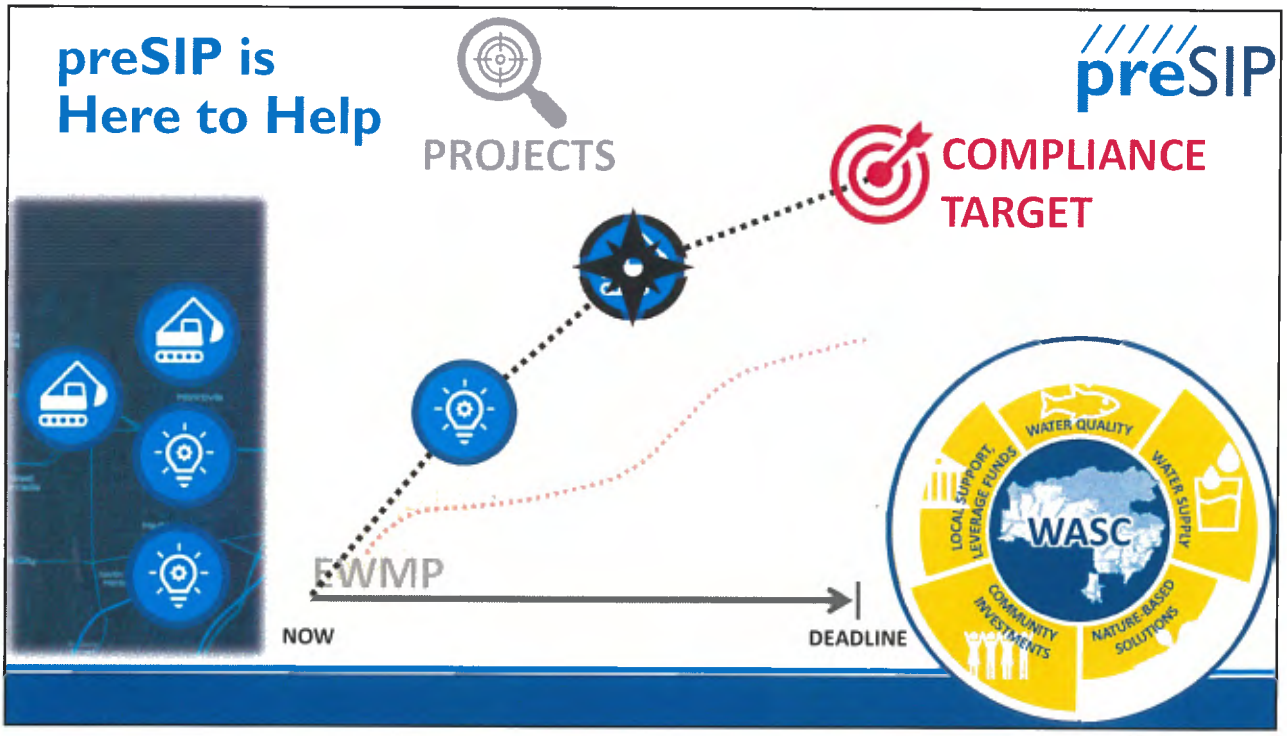
LOCAL SUPPORT, LEVERAGE FUNDS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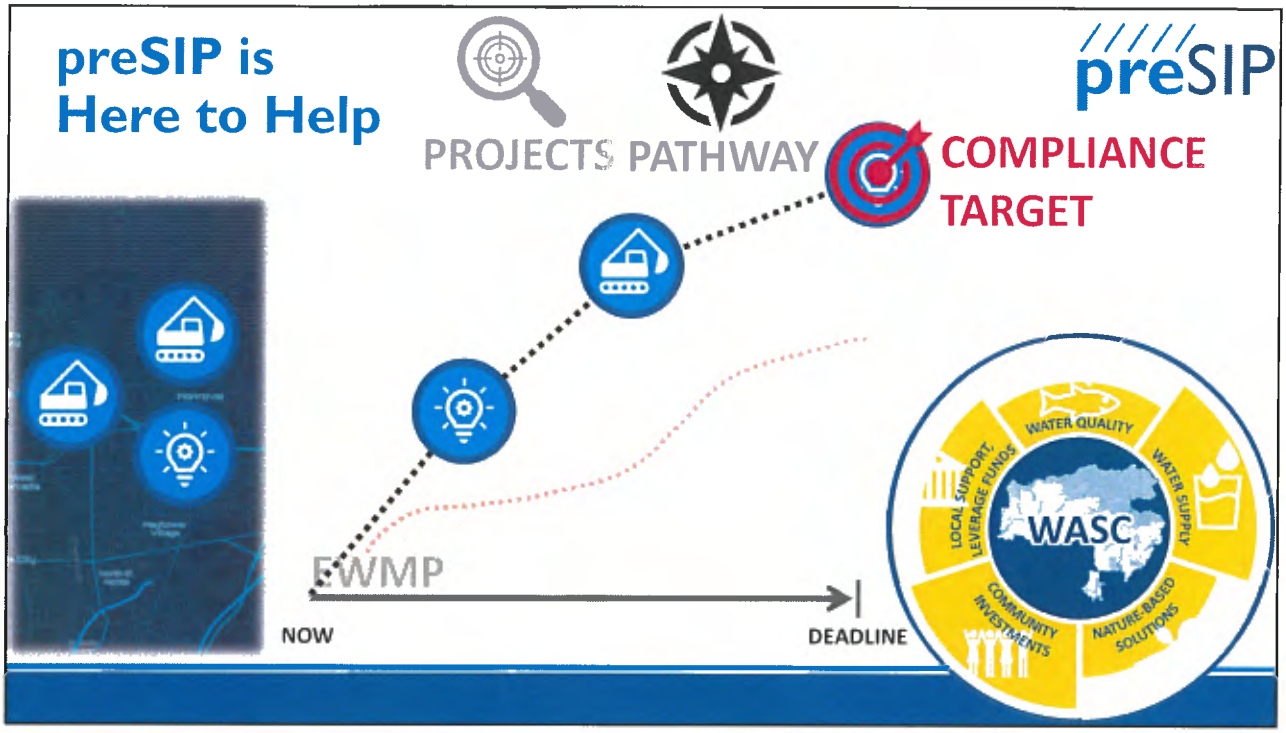
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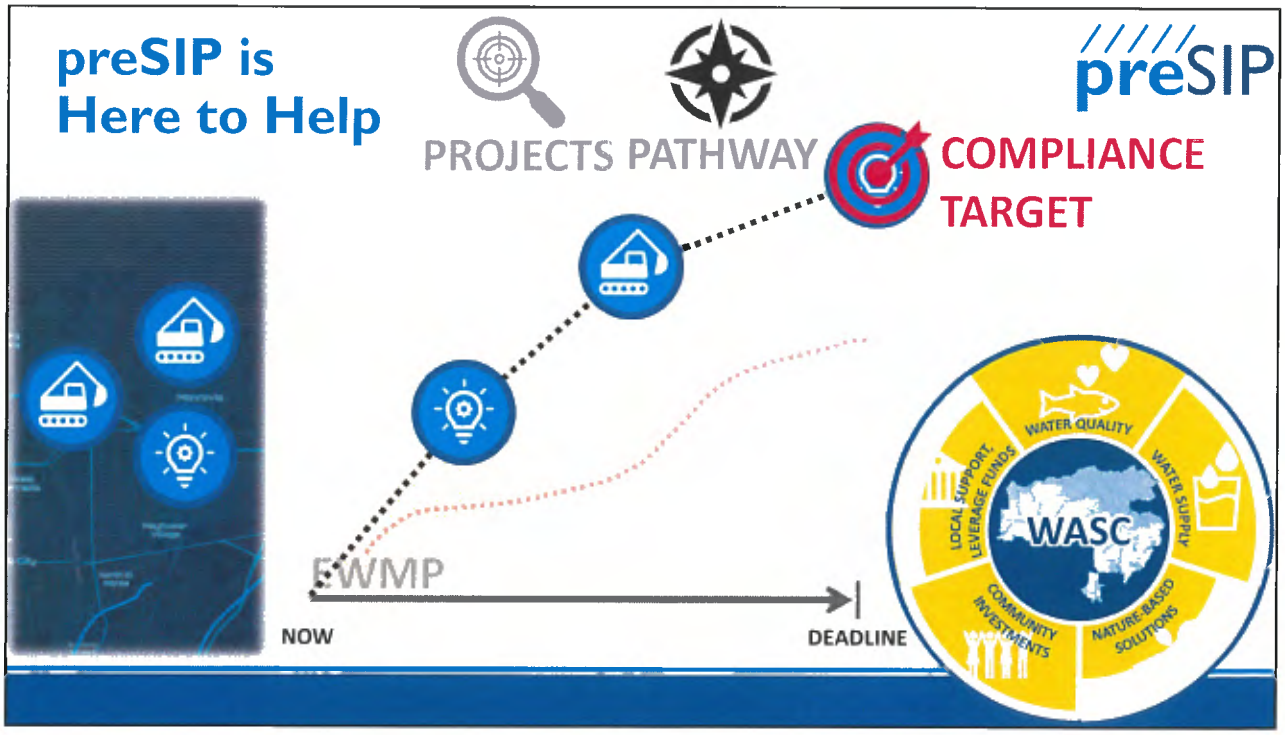
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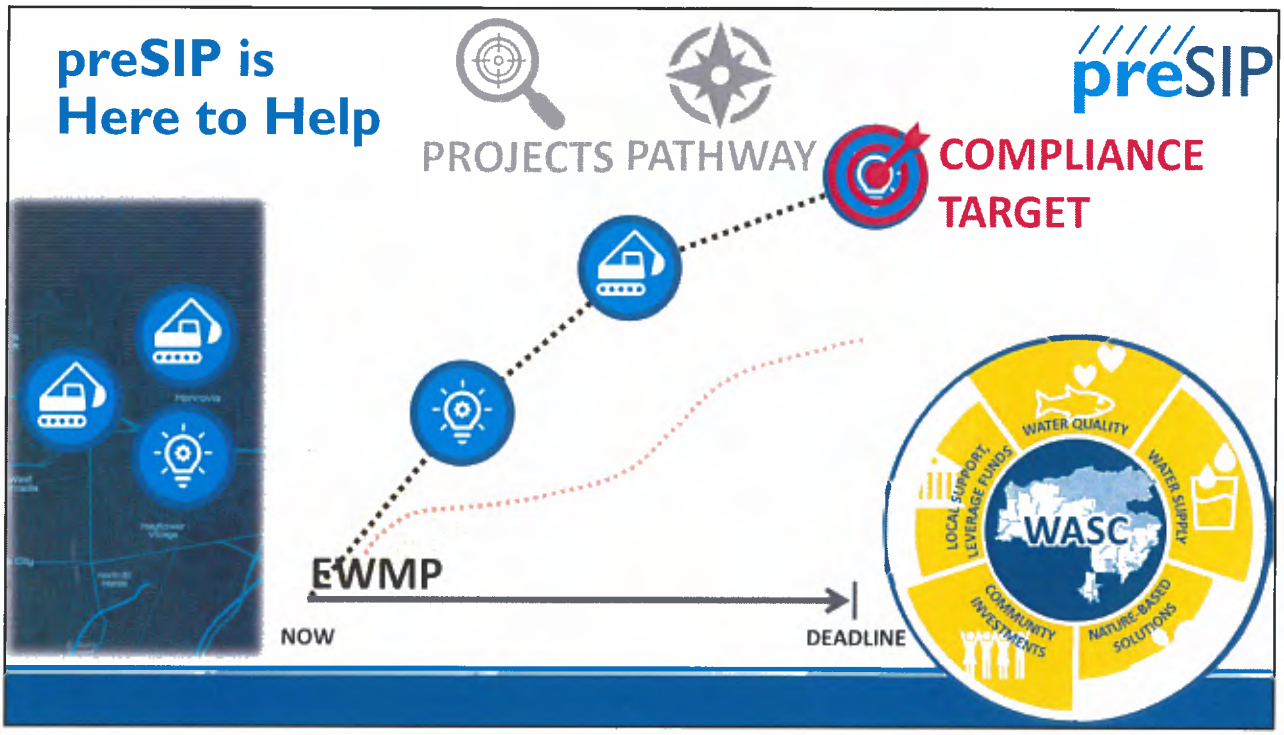
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LOCAL SUPPORT, LEVERAGE FUNDS


preSIP is
Here to Help
PROJECTS PATHWAY PLATFORM
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EWMP
WASC
WATER QUALITY
WATER SUPPLY
NATURE-BASED SOLUTIONS
COMMUNITY INVESTMENTS
LOCAL SUPPORT, LEVERAGE FUNDS

preSIP is Here to Help

PROJECTS PATHWAY PLATFORM

preSIP

preSIP is a scientific study to build a platform for collaboration that can BALANCE and AMPLIFY your SIP outcomes

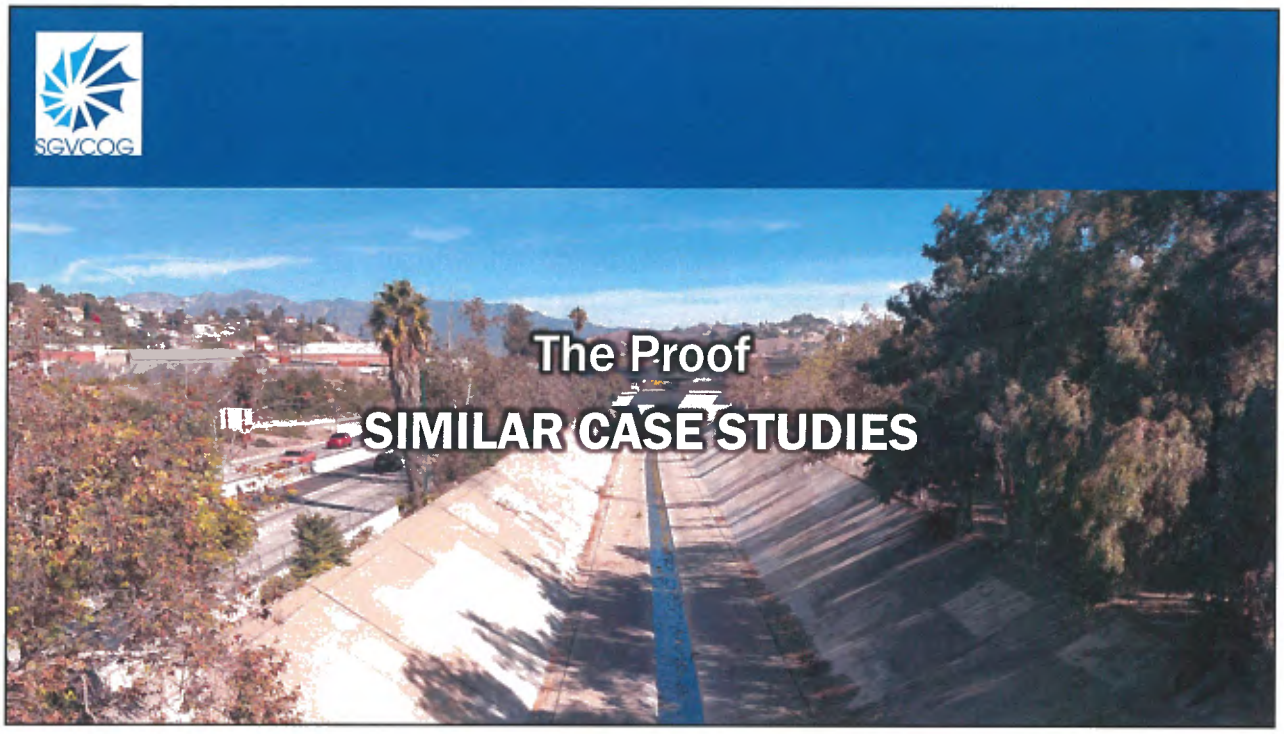
CANDIDATE FEASIBILITY STUDIES

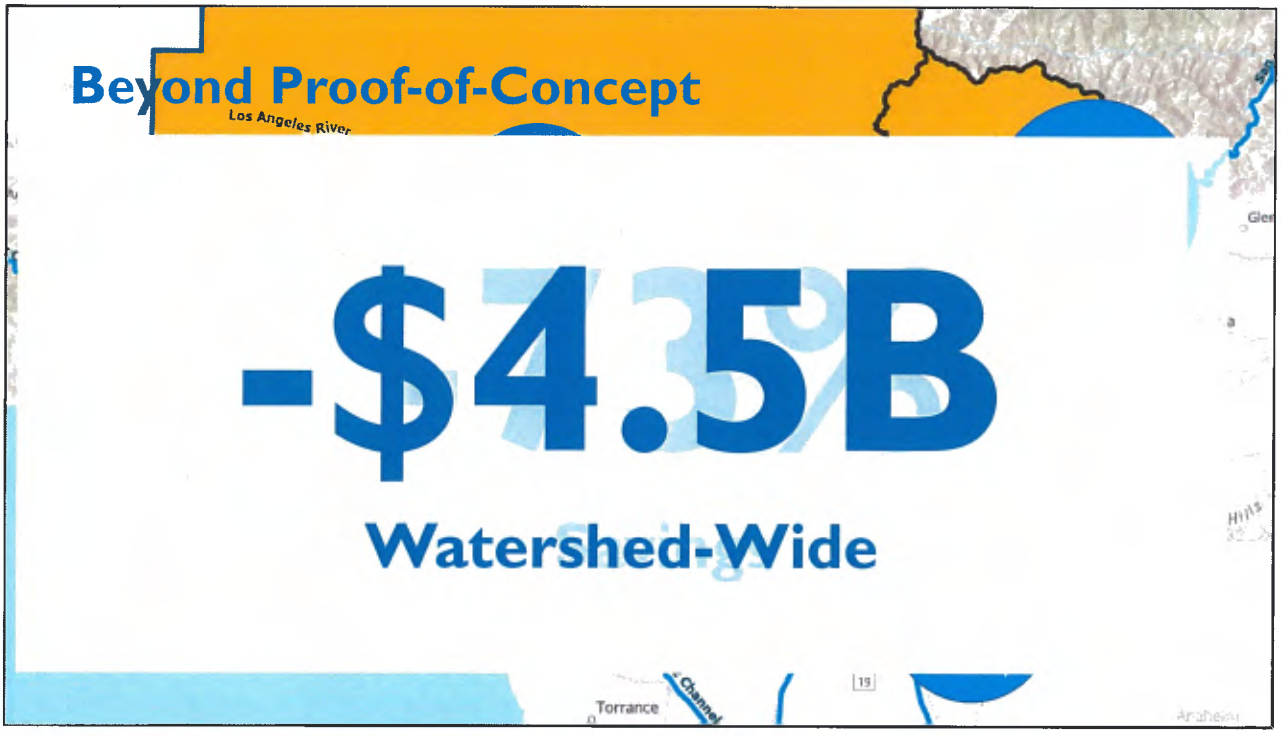
OTHER POTENTIAL PROJECTS

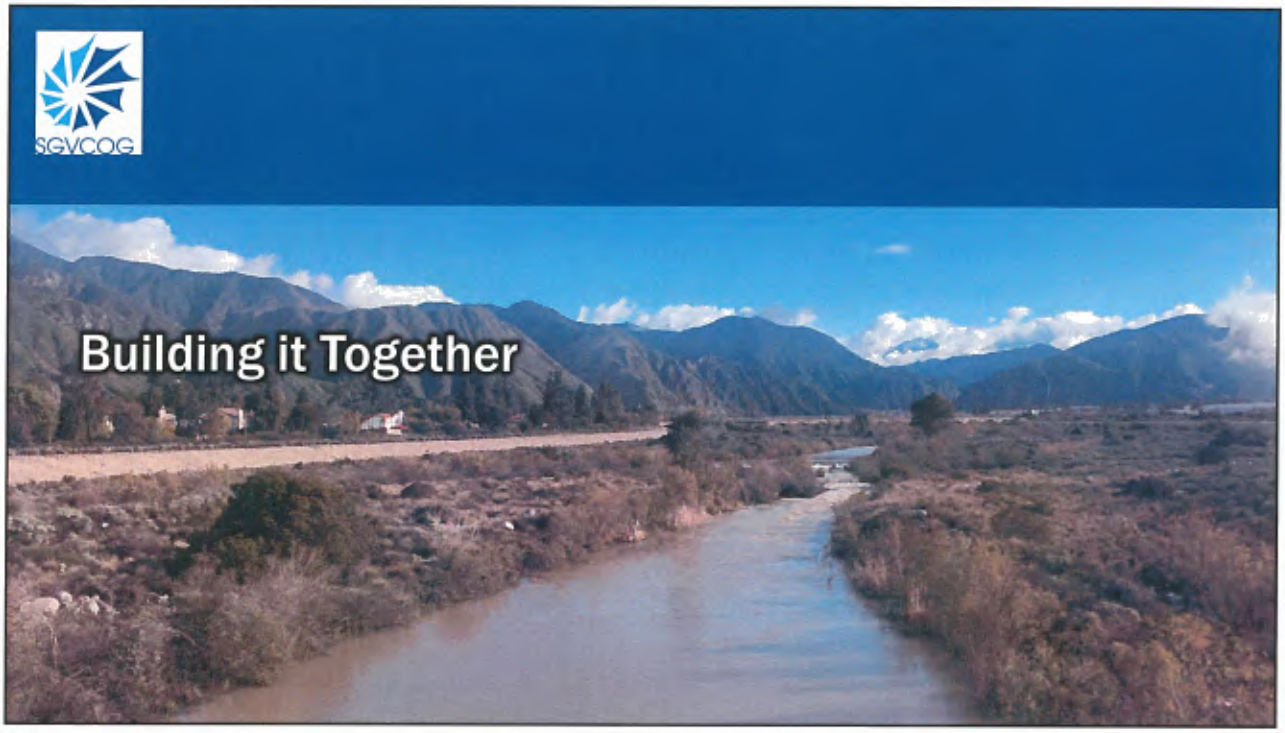
preSIP

BEST SIP

- Efficient & Balanced
- Defensible & Collaborative
- Science-Driven Assurance of Compliance
- Adaptable & Accessible


SGVCOG
The Proof
SIMILAR CASE STUDIES


Beyond Proof-of-Concept
Los Angeles River
-$4.5B
Watershed-Wide
Torrance



Support for the preSIP Study

preSIP

SGVCOG

LA DWP Los Angeles Department of Water & Power

ULAR WATERSHED MANAGEMENT GROUP
(REPRESENTING 19 PARTNER AGENCIES ACROSS ULAR AND RH)

What Makes it Special

preSIP

	preSIP
COVERAGE	ULAR and Rio Hondo Watershed Areas

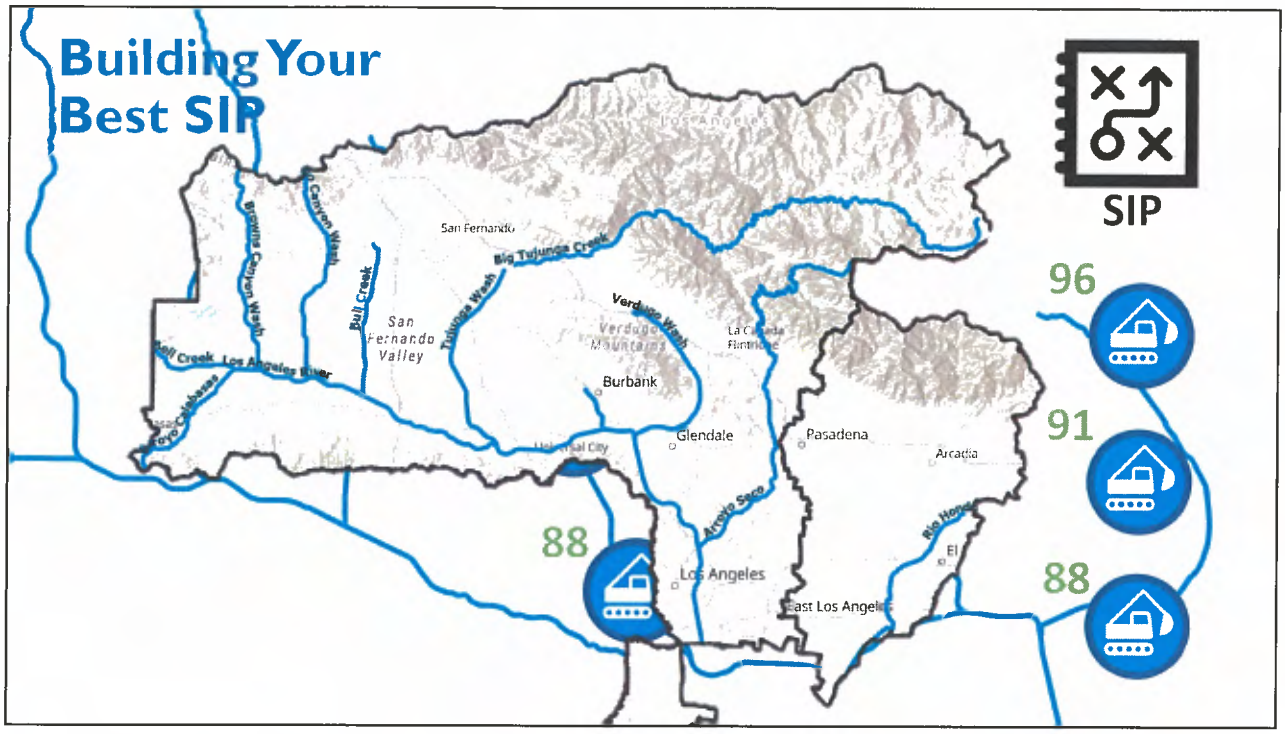
What it Will Take

preSIP

WASC	Year 1 (2020-2021)	Year 2 (2021-2022)	Year 3 (2022-2023)	Annual Scientific Study $ Available	Annual Technical Resources $ Available
ULAR	PROJECT STRATEGY & PATH	ADAPTIVE PLATFORM		$1.9M	$2.8M
RH				$0.6M	$1.2M

The ULAR Pilot Study

- Quantified benefits and savings of collaborative, watershed-based approach
  - Getting the science right
  - Designing a clear, flexible pathway
  - Lowering costs


Building Your Best SIP
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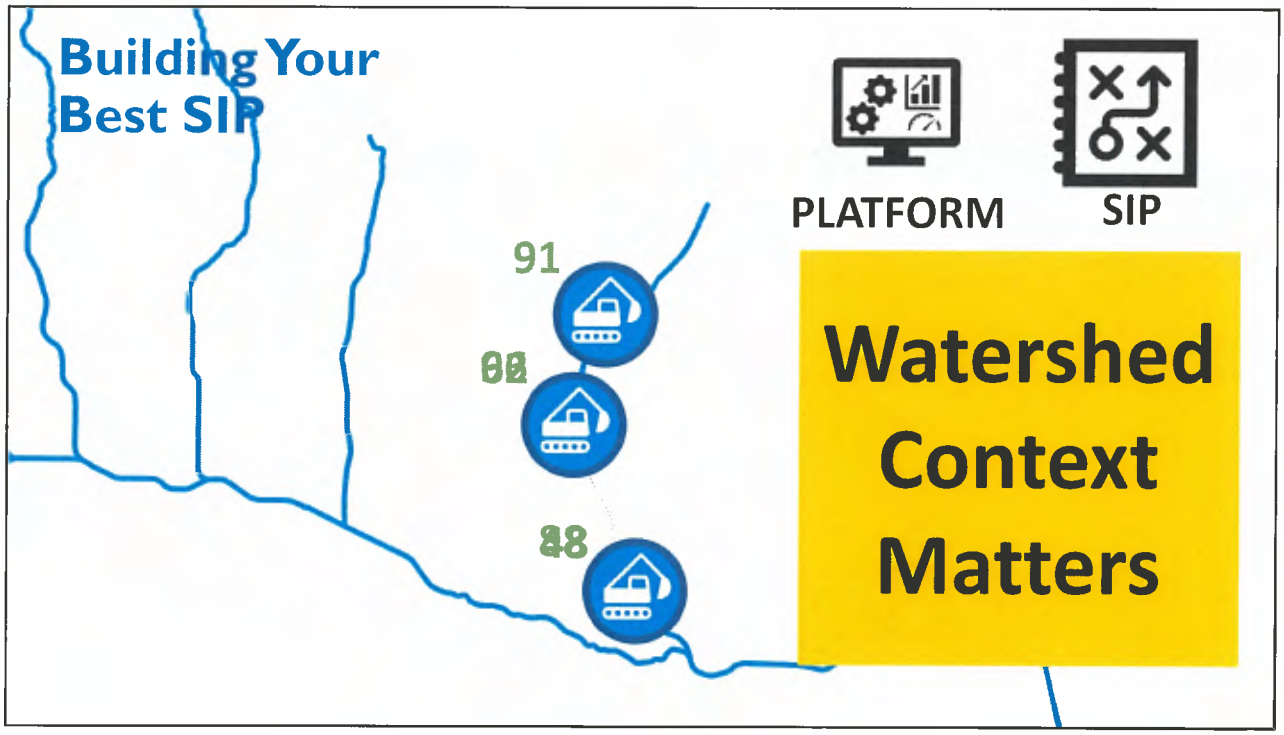
San Fernando
Big Tujunga Creek
Tujunga Wash
Verdugo Wash
Verdugo Mountains
Bull Creek
Browns Canyon Wash
Rattlesnake Canyon Wash
Rolf Creek
Los Angeles River
San Fernando Valley
Burbank
Glendale
Pasadena
Arcadia
Arroyo Seco
Los Angeles
East Los Angeles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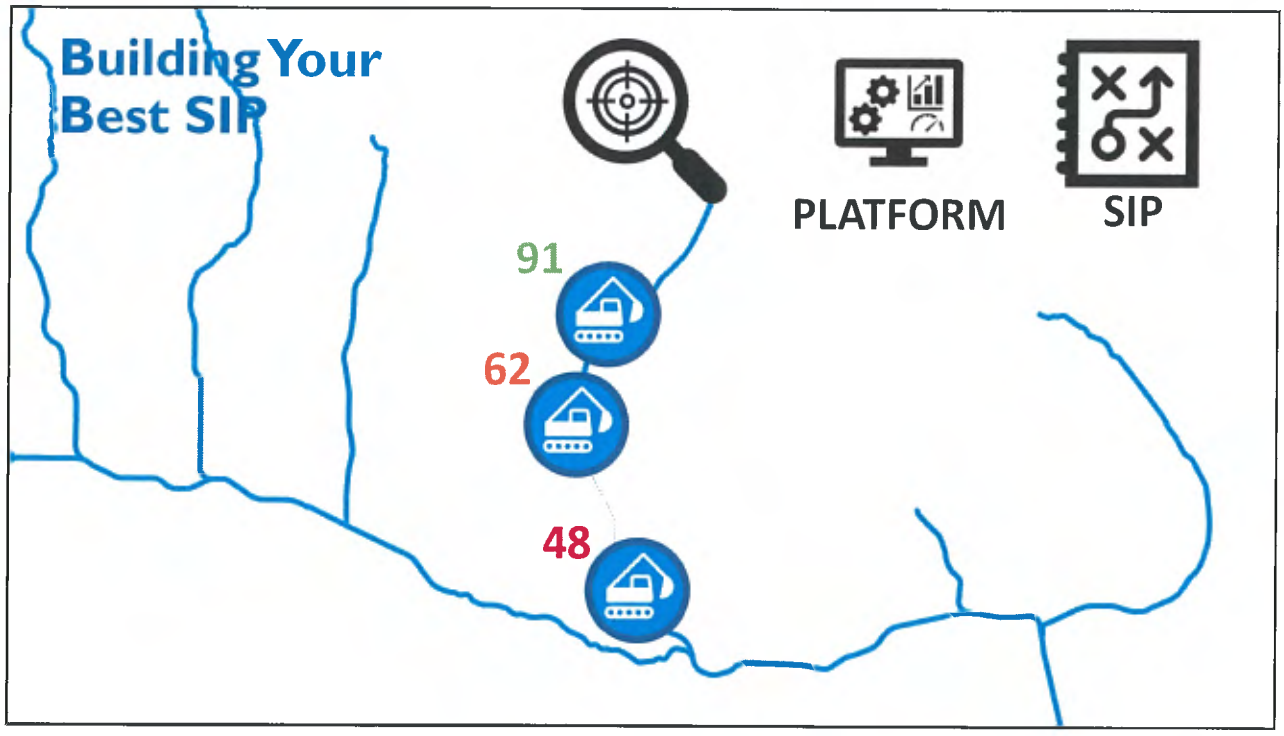
Watershed Context Matters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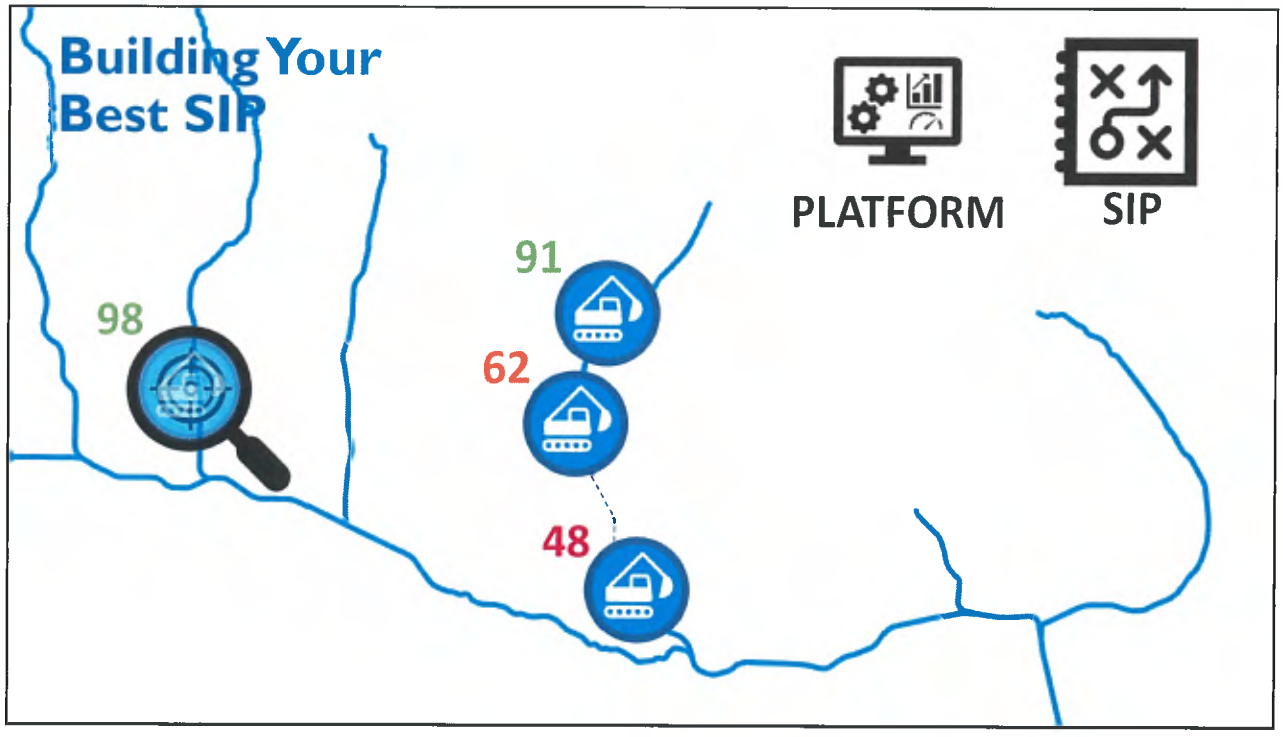
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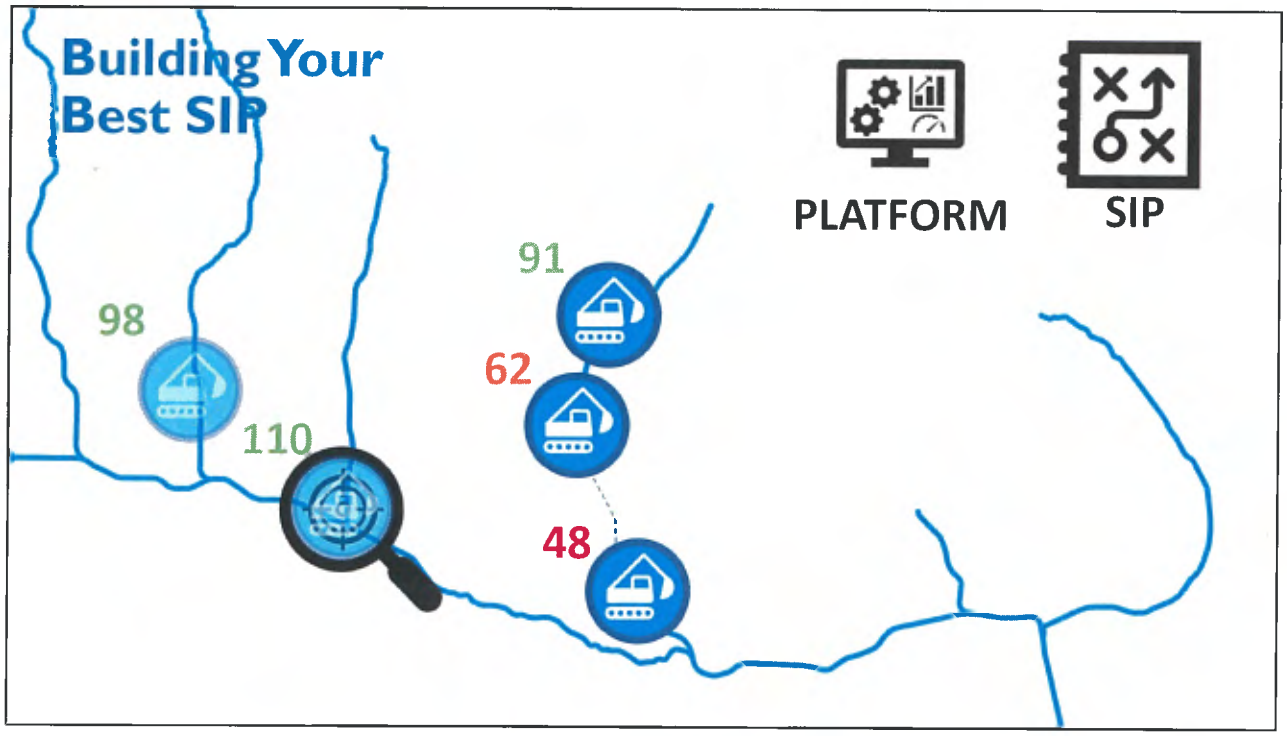
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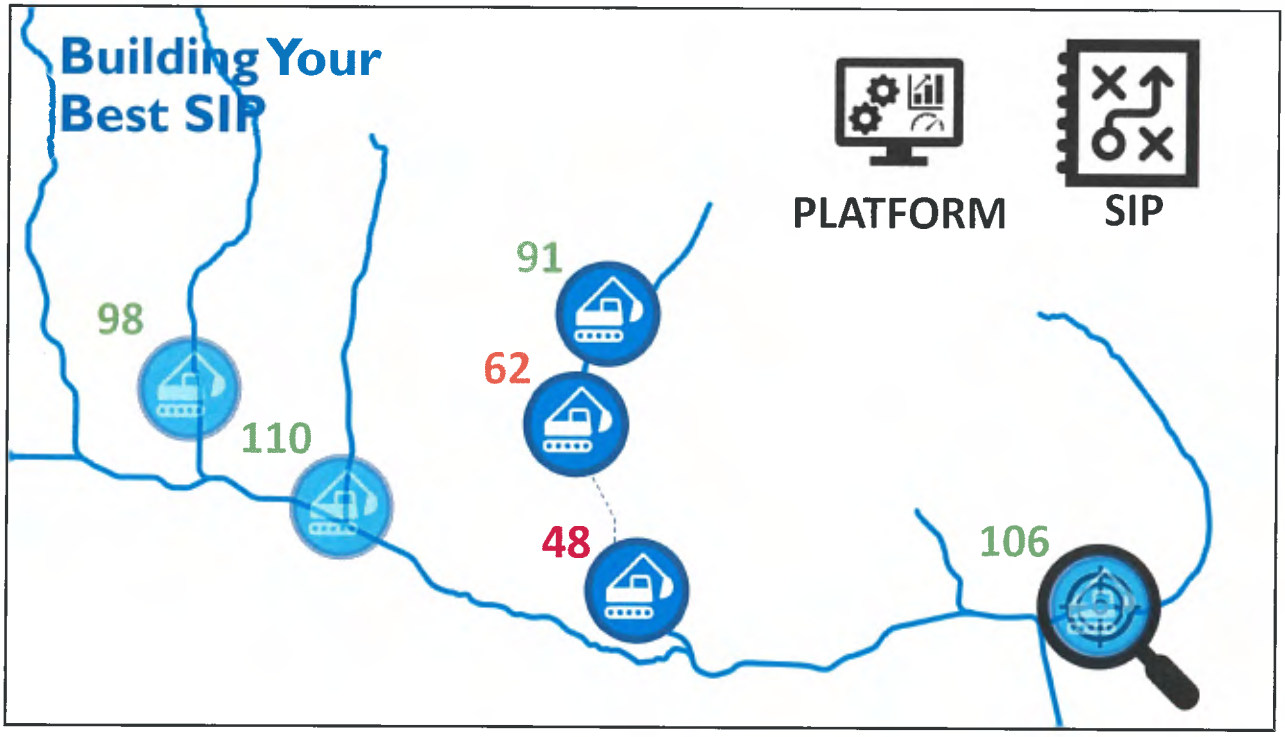
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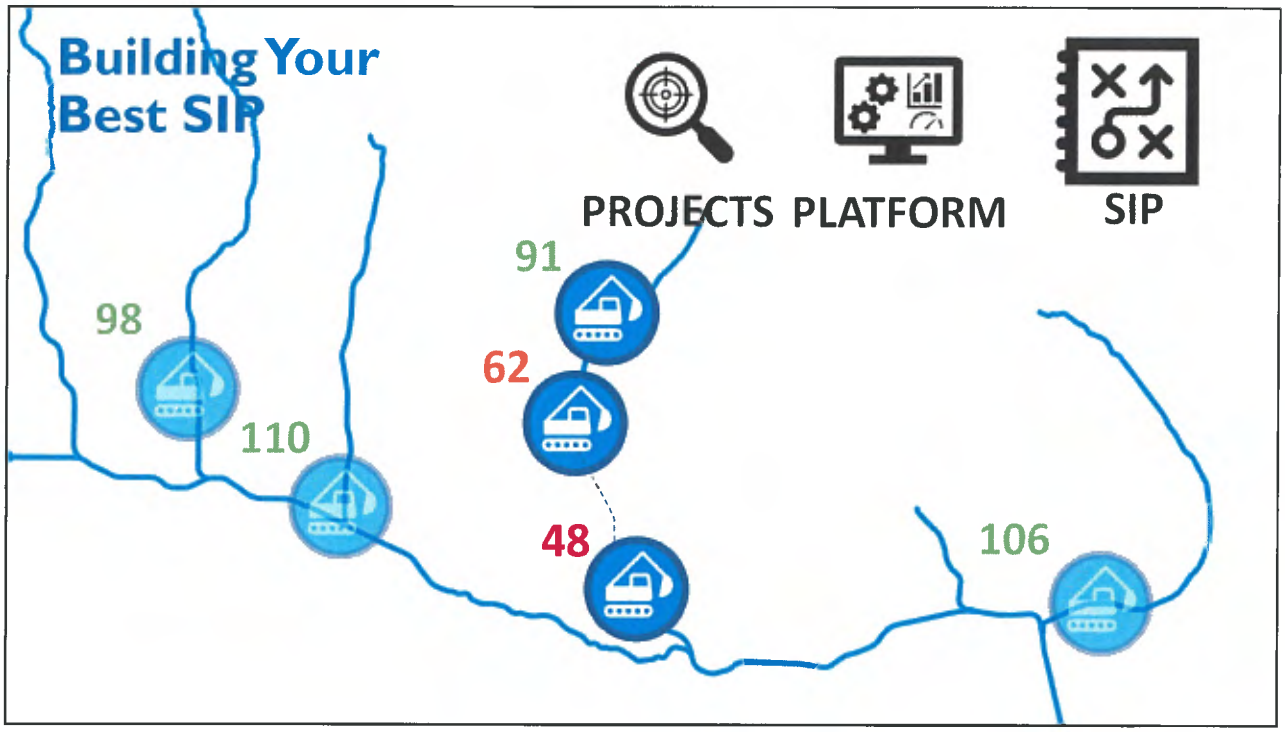


Exploring Adaptive Watershed Management

preSIP

COST, RISK, COMPLEXITY, UNCERTAINTY

- Current plans are coarse and costly
- Adaptive management provides mechanism to build more effective program by…
  - Getting the science right
  - Designing a clear, flexible pathway
  - Lowering costs

Plan

Adaptive Mgmt.

A Unique Scientific Study to Meet All Safe, Clean Water Objectives

preSIP

- Improve WQ
- Capture water
- Public health
- Leverage other funding
- Invest in multi-benefit infrastructure
- Prioritize nature-based solutions
- Neighborhood and regional scale
- Innovation, new technology
- Independent scientific research
- Proportional municipal funds
- Proportional DAC benefits
- Iteratively/adaptively manage
- Green jobs
- Ongoing O&M

Vincent Lugo Park
Stormwater Capture Project

Feasibility Study

PRESENTED BY THE CITY OF SAN GABRIEL

GREG JAQUEZ, PE

GJAQUEZ@MNSENGINEERS.COM, (323) 797-1498

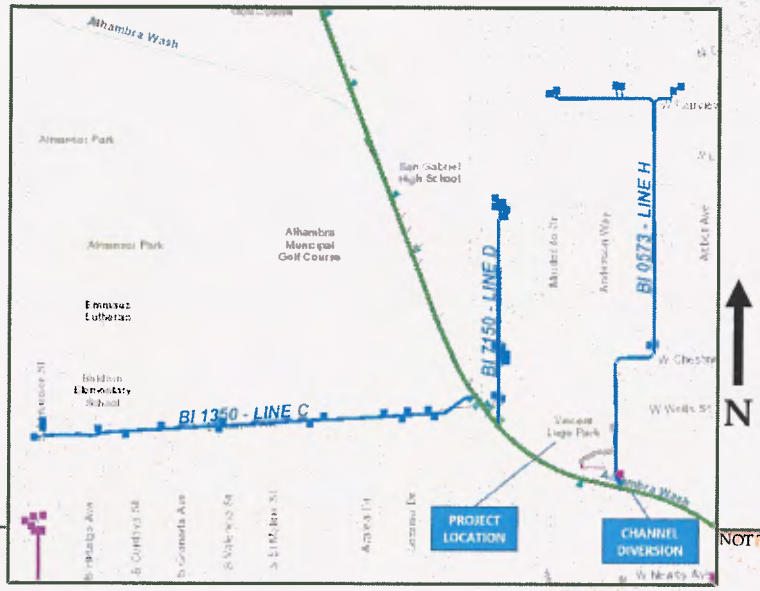
JANUARY 29, 2020

Project Location / Site

Vincent Lugo Park Stormwater Capture Project

Project Description

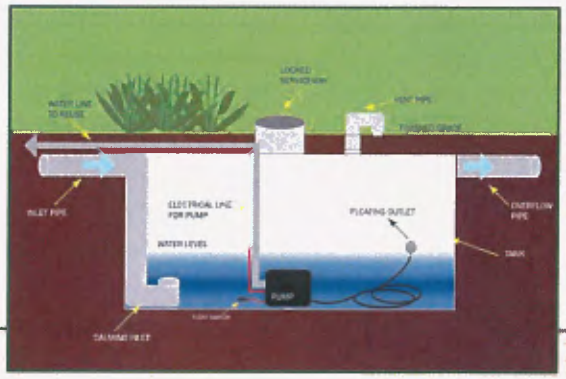
- Diversion of Stormwater Runoff in the Alhambra Wash Channel
- Bioswales
- Storage Cisterns
- Subsurface Infiltration Galleries



Vincent Lugo Park Stormwater Capture Project

Feasibility Study Scope

- Potential Groundwater Recharge of Local Water Supplies
- Potential Water Reuse for Park Irrigation
- Potential Community Education Benefits
- Potential Study of Green Streets in the Upstream Catchment



Vincent Lugo Park Stormwater Capture Project

Project Outreach

- Initiate Discussions with City of Alhambra and San Gabriel County Water District
- Organize outreach events for adjoining San Gabriel neighborhoods
- Additional discussion venues
  - City Council
  - Community Services Commission
  - Historical Preservation & Cultural Resource Commission
  - San Gabriel Unified School District
  - Little League Baseball
- Feasibility Study will include comprehensive outreach program

Dream your PARK
San Gabriel Parks and Open Space Master Plan

Vincent Lugo Park Stormwater Capture Project

Funding Details

Funding

- Feasibility Study Cost - $300,000
- No matching funds
- Grant Request - $300,000
- Matching Funds Source – None
- O&M Costs Per Year – Not Applicable for Feasibility Study

Partners (to be determined/confirmed)

- City of Alhambra
- SGCWD
- Upper San Gabriel Valley MWD

Upper San Gabriel Valley Municipal Water District

San Gabriel County Water District

City of Alhambra

Vincent Lugo Park Stormwater Capture Project

Program Preferences

- Climate change response through drought resilience
- Regional water self-reliance through offset of water purchase from Upper San Gabriel Valley MWD
- Addresses SCW Program Goals
  - Protects local waters in Rio Hondo
  - New groundwater recharge opportunity in Raymond Basin
- Expected useful life of ~ 50 years
- Feasibility Study will initiate CEQA process

Vincent Lugo Park Stormwater Capture Project

Benefits

Physical Benefits

- Improve stores of groundwater supplies
- Improve groundwater quality
- Reduce reliance on potable water for irrigation
- Enhance recreational facilities

Benefits Determination Method

- Feasibility Study will produce metrics on benefits through hydrologic, hydrogeologic, and economic analyses

Vincent Lugo Park Stormwater Capture Project

Estimated Budget

Table 1 – Feasibility Study Budget

Category	Cost Share: Non-State Fund Source	Requested Grant Amount	Other Cost Share (including other State Sources)	Total Cost
Project Administration		$30,000		$30,000
Planning/Design/ Engineering/ Environmental Documentation		$270,000		$270,000
Grand Total		**$300,000**		**$300,000**

Vincent Lugo Park Stormwater Capture Project

Feasibility Study Schedule

Task	Start Date	End Date
Direct Project Administration	07/06/2020	06/30/2021
Planning/Design/ Engineering/ Environmental Documentation	09/07/2020	06/30/2021

Questions/Comments?

Thank You!