

Safe, Clean Water Program

Central Santa Monica Bay

Watershed Area Steering Committee (WASC)



Meeting Minutes:

Thursday, January 23, 2020
10:00am - 12:00pm
Culver City Hall - Patacchia Room,
9770 Culver Boulevard, Culver City, CA 90232

Attendees

Committee Members Present:

Liz Crosson (Los Angeles)
Gloria Walton (SCOPE)
Bruce Reznik (LA Waterkeeper)
Charles Herbertson (Culver City)
Josette Descalzo (Beverly Hills)
Katie Mika (LA Bureau of Sanitation)
Mark Lombos* (LA County)

Rita Kampalath (LA County CEO)
Darryl Ford* (LA Recreations & Parks)
Alysen Weiland* (PSOMAS)
E.J. Caldwell (West Basin)
Rick Valte* (Santa Monica)
Delon Kwan (LADWP)
Cung Nguyen (LACFCD)

Committee Members Not Present:

Ackley Padilla (Los Angeles)
Jeff Camp (Los Angeles)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Ms. Liz Crosson, the Chair of the Central Santa Monica Bay WASC, called the meeting to order.

All committee members made self-introductions, and a quorum was established.

2. Approval of Meeting Minutes from January 9, 2020

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

Committee members noted that Ms. Josette Descalzo and Ms. Ariel Flores should be corrected to Mr. for both members and that Mr. Alex Hyde should have a star as he is an alternate. Mr. Bruce Reznik noted that there is a Water keeper spelling correction, which should be capitalized in both locations it appears in the minutes.

Mr. Bruce Reznik made a motion to approve the meeting minutes from January 9, 2020. Ms. Gloria Walton seconded the motion. The Committee voted to approve the meeting minutes from January 9, 2020 (unanimous).

3. Public Comment Period

No public comments were received

Safe, Clean Water Program

Central Santa Monica Bay

Watershed Area Steering Committee (WASC)



4. Committee Member and District Updates

Mr. Kirk Allen updated the committee provided a summary of: the Regional Oversight Committee meeting next week; the new Ex Parte and COI Q&A guideline document; the scoring progress so far by the Scoring Committee (SC); and noted that Mr. Jacob Lipa and Ms. Alysen Weiland of PSOMAS would need to abstain from discussion and voting on all projects due to Conflicts of Interest.

Mr. Bruce Reznik summarized the SC progress, noting that the SC is choosing two projects per watershed per week to evaluate; that there is a systematic process being implemented; and that the SC welcomes applicants to attend SC meetings to help address any clarifying questions during scoring.

Ms. Katie Mika noted that being present at the SC meetings is well worth the time to observe the process in person.

5. Discussion Items:

a) Ex Parte Communication Disclosures

Mr. Bruce Reznik has had conversations with Our Water LA Coalition and Stantec discussing Nature Based Solutions and the process used for scoring in the SC.

Ms. Katie Mika, Mr. Mark Lombos, Mr. Rick Valte, Mr. Josette Descalzo, and Mr. Delon Kwan inquired what level of discussion with outside parties triggers a required Ex Parte disclosure. Mr. Kirk Allen provided clarification of the types of key disclosures that are necessary for the Ex Parte communications.

Ms. Liz Crosson is now part of a kickoff group within the City of LA to discuss Safe Clean Water (SCW) project development for the City.

b) Summary of feasibility studies, project concepts, and scientific studies submitted for Central Santa Monica Bay WASC for consideration

Mr. Kirk Allen provided a summary of the projects and concept submittals received for CSMB.

Ms. Rita Kampalath inquired how DAC benefits are being quantified and if it will be up to the WASC to determine what portion of the projects will benefit a DAC. Mr. Kirk Allen clarified that the DAC benefit is generally qualitative and there is no set metric currently for DAC benefit. It is up to the WASCs to determine if the project does truly benefit a DAC area or population. There is currently a narrative within each submittal where applicants describe how their project benefits a DAC, but again it is up to the WASC to determine if they agree with the DAC benefits claimed.

Mr. Bruce Reznik requested if the CSMB WASC group could have a presentation on DAC Benefits. Mr. Kirk Allen and District Consultant Stantec noted that the District is currently developing a presentation, and that the Regional Oversight Committee meeting next week will be covering the topic of how to quantify DAC benefits.

Ms. Katie Mika inquired about the project scheduling process and the schedule required for developing the Stormwater Investment Plan. Mr. Kirk Allen noted that all project applicants have been sent a form requesting their multi-year funding request estimates, and that the total WASC requested funding stream is being consolidated. All projects are now posted online for WASC members to read.

Safe, Clean Water Program

Central Santa Monica Bay

Watershed Area Steering Committee (WASC)



Mr. Josette Descalzo inquired if the WASC is to factor in its own contingency into the multi-year SIP. Mr. Kirk Allen confirmed that it is up to the WASC to ensure that there is a sufficient amount of contingency within the SIP. Mr. Cung Nguyen noted that it's critical that contingency is built into the SIP as applicants with cost overruns will not be able to go above the funding amount allocated within the SIP. Mr. Josette Descalzo requested if contingency could be added to the project submittal website to help the WASC determine what level of contingency is being estimated by project applicants.

c) Presentations for Scientific Studies Program

i) Sustainable Water Infrastructure Project (City of Santa Monica)

Ms. Rita Kamplath asked if these presentations can be made available. Mr. Kirk Allen noted that these presentations will be provided online within the meeting Minutes.

Ms. Rita Kampalath inquired what the site looks like currently in terms of the community enhancements and how it will look post construction. Mr. Selim Eren explained the final community enhancements will be improved post construction.

Mr. Charles Herbertson inquired if this project will utilize non-potable water. Mr. Selim Eren explained that the city does have a non-potable water system, and an upgraded network will soon allow it to be used throughout the city's non-potable water network.

Mr. Charles Herbertson inquired what the city will do if they don't receive SCW funding. Mr. Selim Eren noted that this project is already fully funded, so the project will still move forward.

Mr. Delon Kwan inquired if the Committee could view these projects in advance. Mr. Kirk Allen noted that these projects are available online through the Projects Module, and all WASC members have been given special access to view all projects on that web tool. If possible, the District will try to have presentations available ahead of WASC meeting, but the District recommends WASC members use the Projects Module.

Mr. Deon Kwan inquired how the advanced water treatment facility will tie into the project. Mr. Selim Eren noted that this project plans to make use of that system so that the water collected by the project is not wasted.

Ms. Liz Crowson inquired if there is a storage capacity for the non-potable water system. Mr. Selim Eren noted that he was unable to remember offhand, but that the application will have these details.

Mr. Mark Lombos inquired that if SC funds were awarded, where would those funds be utilized. Mr. Selim Eren noted that all project costs are already currently funded by other funding sources.

Ms. Katie Mika requested additional information on the benefits for the current phase of the project. Mr. Selim Eren noted that the entire project is implemented at once, and benefits will be available quickly; noting also that this project is part of the EWMP projects list.

Mr. Bruce Reznik noted that for projects with multiple elements it is a challenge for the WASC to weigh exactly what project phase the committee is being asked to evaluate. Mr. Selim Eren noted that there are several elements of the master plan that are not part of this submittal, but that it is clear within the application which elements are within this phase this submittal.



Mr. Bruce Reznik noted that the SC is finding that applicants are claiming community benefits for a much larger master plan when the current phase does not provide those benefits. Mr. Selim Eren provided a slide noting which community benefits will come from this specific phase of the application.

Mr. Josette Descalzo requested what percent of the master plan will be contributing to groundwater recharge. Mr. Selim Eren noted that this will be based on the estimated dry weather runoff, which can be found within the project submittal. Approximately 80AFY will be developed for water supply.

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

Mr. Mark Lombos inquired what the benefit is of a region-wide study vs. smaller local studies. Mr. Richard Watson noted that it is critical to know regional trends vs. only specifics for local studies which may only provide one data point. This regional study is very expensive, but there is an economy of scale for doing a multiple watershed study.

Mr. Rick Valte requested clarification for the cost of the study noted in two slides. Mr. Richard Watson noted he will need to confirm which number was correct within the presentation.

Mr. Charles Herbertson inquired what would happen if a specific watershed did not approve the study. Mr. Richard Watson noted that the budget would come down, and that the specific watershed would not be studied. The Stakeholder Process would largely stay the same however. He noted that other WASCs have suggested a meeting of Chairs and Vice Chairs from all WASCs to coordinate on a final decision for this multi-watershed study.

Ms. Liz Crosson inquired who the lead agency is for this study. Mr. Richard Watson noted that the Gateway Water Management Authority will be the lead agency for this study.

Mr. Bruce Reznik inquired how cost sharing will work for this study. Mr. Richard Watson noted that a large portion of the study will be cost shared through staff time vs. funding.

Ms. Rita Kampalath inquired if the study will include a source ID for locating bacteria sources. Mr. Richard Watson confirmed that yes, the study will attempt to locate the source of these markers.

Ms. Katie Mika inquired if an epidemiology investigation will be part of the study. Mr. Richard Watson noted that there are other studies out there that are already looking at that type of research. This study will not explore epidemiology.

6. Voting Items:

None

7. Discuss Future Meeting Dates/Times

The committee discussed several alternate meeting days and times. It was decided to keep the current meeting schedule.

Safe, Clean Water Program

Central Santa Monica Bay Watershed Area Steering Committee (WASC)



8. Items for next agenda

Mr. Liz Crosson requested several items be added to the next agenda, including: SIP requirements and process; a presentation on DAC benefit quantification with guidance from the ROC; and an indication of which projects have been scored.

Mr. Kirk Allen noted that Presentations are currently being scheduled and will appear on next week's agenda.

Mr. Josette Descalzo and Ms. Liz Crosson requested County Counsel attend at least one meeting to help clarify the committee's multiple questions on Ex Parte communications.

9. Adjournment

Ms. Liz Crosson thanked the committee members and public for their time and participation and adjourned the meeting.

Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Cung Nguyen	FCD	CUNGUYEN@dpw.lacounty.gov	P	
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
E.J. Caldwell	West Basin	edwardc@westbasin.org	P	
Alex Heide	West Basin	alexanderh@westbasin.org	A	
Cathie Santo Domingo	Los Angeles Recreation & Parks	cathie.santodomingo@lacity.org	P	
Darryl Ford	Los Angeles Recreation & Parks	Darryl.Ford@lacity.org	A	
Katie Mika	Los Angeles - Sanitation	kathryn.mika@lacity.org	P	
Ariel Flores	LA Sanitation and Environment	ariel.flores@lacity.org	A	
Delon Kwan	Los Angeles Department of Water and Power	delon.kwan@ladwp.com	P	
Art Castro	Los Angeles Department of Water and Power	art.castro@ladwp.com	A	
Rita Kampalath	LA County Chief Sustainability Office	RKampalath@ceo.lacounty.gov	P	
Gary Gero	LA County Chief Sustainability Office	ggero@ceo.lacounty.gov	A	
Jacob Lipa	Lipa Consulting Company	jacob@lipaconsulting.com	P	
Alysen Weiland	PSOMAS / Balancing the Natural and Built Environment	aweiland@psomas.com	A	
Gloria Walton	SCOPE	gwalton@scopela.org	P	

Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Bruce Reznik	LA Waterkeeper	bruce@lawaterkeeper.org	P	
Liz Jones	LA Waterkeeper	liz@lawaterkeeper.org	A	
Ackley Padilla	Los Angeles	ackley.padilla@lacity.org	P	
Charles Herbertson	Culver City	charles.herbertson@culvercity.org	P	
Kim Braun	Culver City	Kim.Braun@culvercity.org	A	
Lauren Amimoto	Inglewood	lamimoto@cityofinglewood.org	A	
Jeff Camp	Los Angeles	jeff.camp@lacity.org	P	
Josette Descalzo	Beverly Hills	jdescalzo@beverlyhills.org	P	
Hany Demitri	West Hollywood	Hdemitri@weho.org	A	
Liz Crosson	Los Angeles	liz.crosson@lacity.org	P	
Susie Santilena	Los Angeles	susie.santilena@lacity.org	A	
Neal Shapiro	Santa Monica	Neal.shapiro@smgov.net	P	
Rick Valte	Santa Monica	rick.valte@smgov.net	A	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	P	
Mark Lombos	Los Angeles County	MLOMBOS@dpw.lacounty.gov	A	

Central Santa Monica Bay
Watershed Area Steering Committee Meeting
COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Bruce Hamamoto	Los Angeles County	BHAMAMO@dpw.lacounty.gov	A	

Central Santa Monica Bay
 Watershed Area Steering Committee Meeting
 PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
Selim	Eren	City of Santa Monica	selim.eren@smgov.net
Armando	D'Angelo	LA County PW	ADANGELO@PW.LACOUNTY.GOV
Kim	BRAUN	CITY of Culver City	Kim.BRAUN@culvercity.org
Yun	Zhao	Civicspark/Culver City	Sunny.Zhao@culvercity.org
Cassandra	Cortez	Civicspark/Culver City	Cassandra.Cortez@culvercity.org
Conor	Mossavi	LADWP -	conor.mossavi@ladwp.com
JIM	BURTON	ECOKAI	JBURTON@ECOKAI.COM
Brian Lamar	Stewart	L.A. County/Stewart Enterprises	WesleyStewart@stewartenterprises.com

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

City of Santa Monica

SUSTAINABLE WATER INFRASTRUCTURE PROJECT (SWIP)

Engineering & Street Services Division

Selim Eren, PE

selim.eren@smgov.net

(310) 458-8721

January 23, 2020



City of Santa Monica

- Population: 93,000 residents
- 18,000 metered customers
- During peak summer months, tourists and day visitors increase population by approximately 100,000 people per day
- Existing water sources:
 - MWD Imported Water
 - Groundwater
 - Recycled Runoff



SWIP ENVIRONMENTAL GOALS

- **Reduce pollution and improve water quality in the Santa Monica Bay**
- Implement Enhanced Watershed Management Program (EWMP) for Jurisdictional Groups 2 and 3
- **Innovative approach to integrate and treat alternative water resources such as brackish ground water, urban runoff, storm water and wastewater**
- City's water self-sufficiency goal by 2023
- **Provide long term sustainability and drought resilience to local groundwater supplies by recharging local ground water basins**
- Offset 12% of water demand which is from the imported water with locally produced water



SWIP

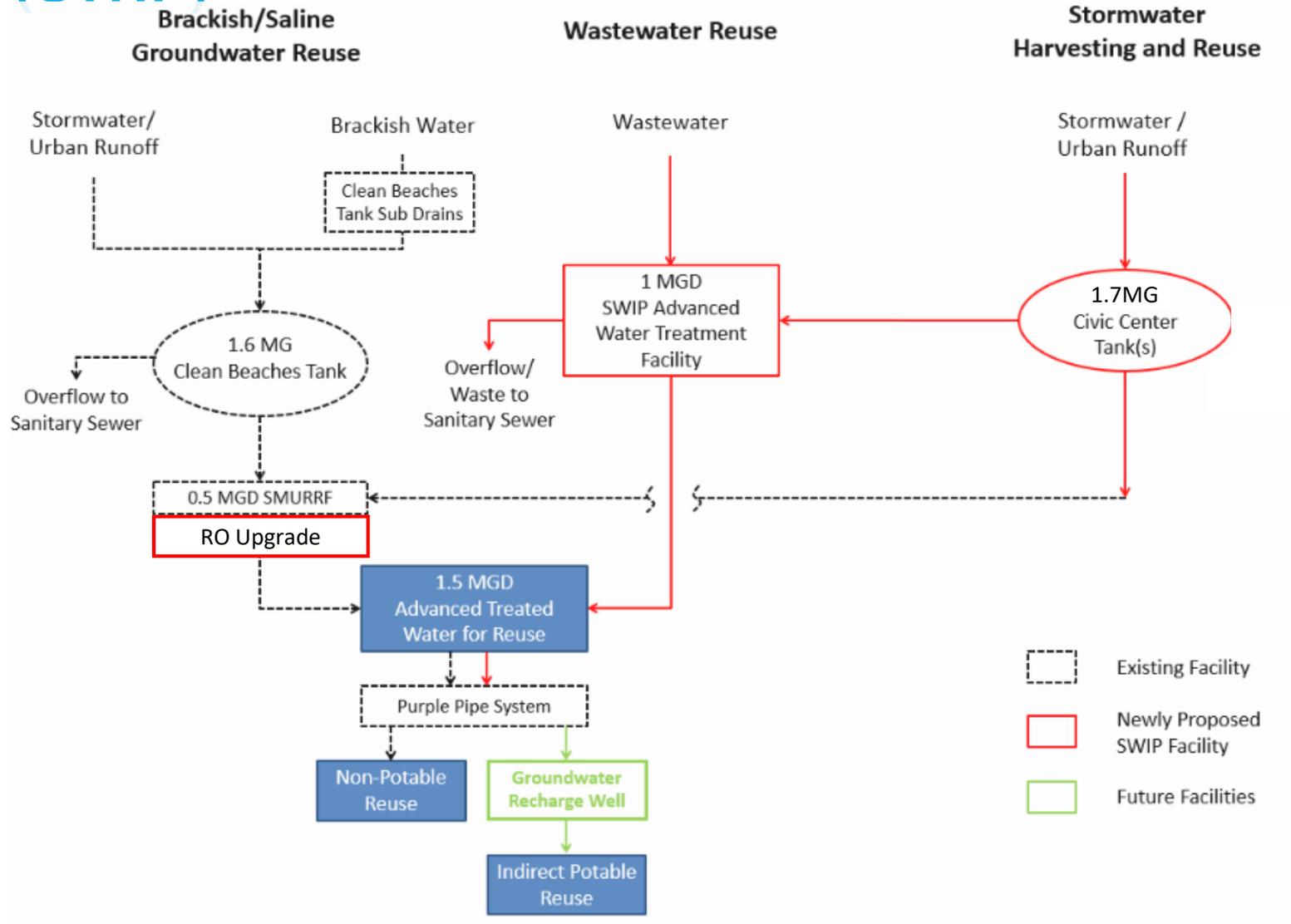
- **Element 1: Upgrade the existing Santa Monica Urban Runoff Recycling Facility (SMURRF) with a new Reverse Osmosis (RO) treatment system.**
 - Treat brackish groundwater and storm water harvested by the nearby Clean Beaches (CBI) harvesting tank (completed in 2018)
 - Non-potable uses, in residential and commercial building, such as toilet flushing and irrigation
 - Injection for ground water replenishment
- **Element 2: New 1 million gallon per day (MGD) Advanced Water Treatment Facility (AWTF)**
 - Primarily treat municipal wastewater, and mixture of 70% wastewater and 30% storm water from Element 3
 - Treatment process below ground: membrane bioreactors (MBR), cartridge filters, reverse osmosis, UV/Cl₂ advanced oxidation process and chlorine disinfection
 - Potable reuse via groundwater injection
- **Element 3: New 1.7 million gallon (MG) Storm Water Harvesting Tank**
 - Harvest from Pico/4th Watershed, 88 acre
 - Divert dry-weather and wet-weather runoff upto 85th percentile 24 hour storm volume and peak flow
 - Treatment at Element 2 for groundwater injection



Sustainable Water Infrastructure Project (SWIP)



Sustainable Water Infrastructure Project (SWIP)



SWIP Storm Water Harvesting – Element 3

- **1.7 million gallon harvesting tank**
- 0.45 million gallon capacity to be treated in the Element 2, AWTF
- 24 hour total harvesting capacity 2.15 MG or 7.11 ac-ft
- **88 acre Pico/4th Watershed**
- Maximum storm water diversion capacity 5.5cfs
- **Captures 85th percentile 24-hour volume and peak flow**
- **Primary and secondary pollutants to be reduced are bacteria and trash, listed as a TMDL for Santa Monica Bay**
- **Project is listed in EWMP for Santa Monica Bay J2 and J3 adopted by LARWQCB**
- **Treat and use for non-potable distribution and potable reuse via groundwater recharge**
- Produced Water Quality to meet Title 22 Groundwater Replenishment Reuse Project (GRRP) requirement
- **Total 1,680 acre-feet/year of new, drought resilient water supply**



Pico/4th Watershed



Project Schedule and Delivery

- Siting Study August 2015
- Technical Engineering and Feasibility Studies May 2016
- **CEQA document IS/MND September 2016**
- State Revolving Fund financing September 2017
- Final Concept Design Report March 2018
- **Progressive Design-Build Delivery** procurement August 2018
- Pre-construction, Design phase 60% completed June 2019
- **Coastal Commission permit November 2019**
- **Construction phase starting February 2020**
- **Expected Project Completion July 2022**



Project Costs and Funding

- **\$15M**, Element 3, construction cost of stormwater harvesting tank
- **\$7.5M Grant** requested for construction cost of stormwater harvesting tank
- **50% matching funds**, \$7.5M for construction cost of stormwater harvesting tank
- Estimated O&M and monitoring costs \$19,000 per year

- Total Project Budget \$95.9M for all SWIP Elements 1, 2 and 3
- \$20 M City municipal funds
- \$75.9M 30-year loan financed through Clean Water State Revolving Funds (SRF) to be paid back by City municipal funds

Project Outreach

- EWMP for Santa Monica Bay J2 & J3 public meetings and hearing at Los Angeles Regional Water Quality Control Board,
- City's Taskforce on Environment, appointed residents,
- City's Water advisory committee, appointed residents,
- City's Clean Beaches and Oceans Parcel Tax Oversight Committee, appointed residents,
- City Council meetings, for financing approvals, project approvals,
- Clean Water SRF loan financing hearing,
- CEQA environmental hearing,
- Coastal commission hearing,
- Special meetings with project neighbors and users
- Project website,
- On-site signage,
- Plant tours
- Messaging for protecting beaches and oceans, watershed management, and sustainability of local water supplies

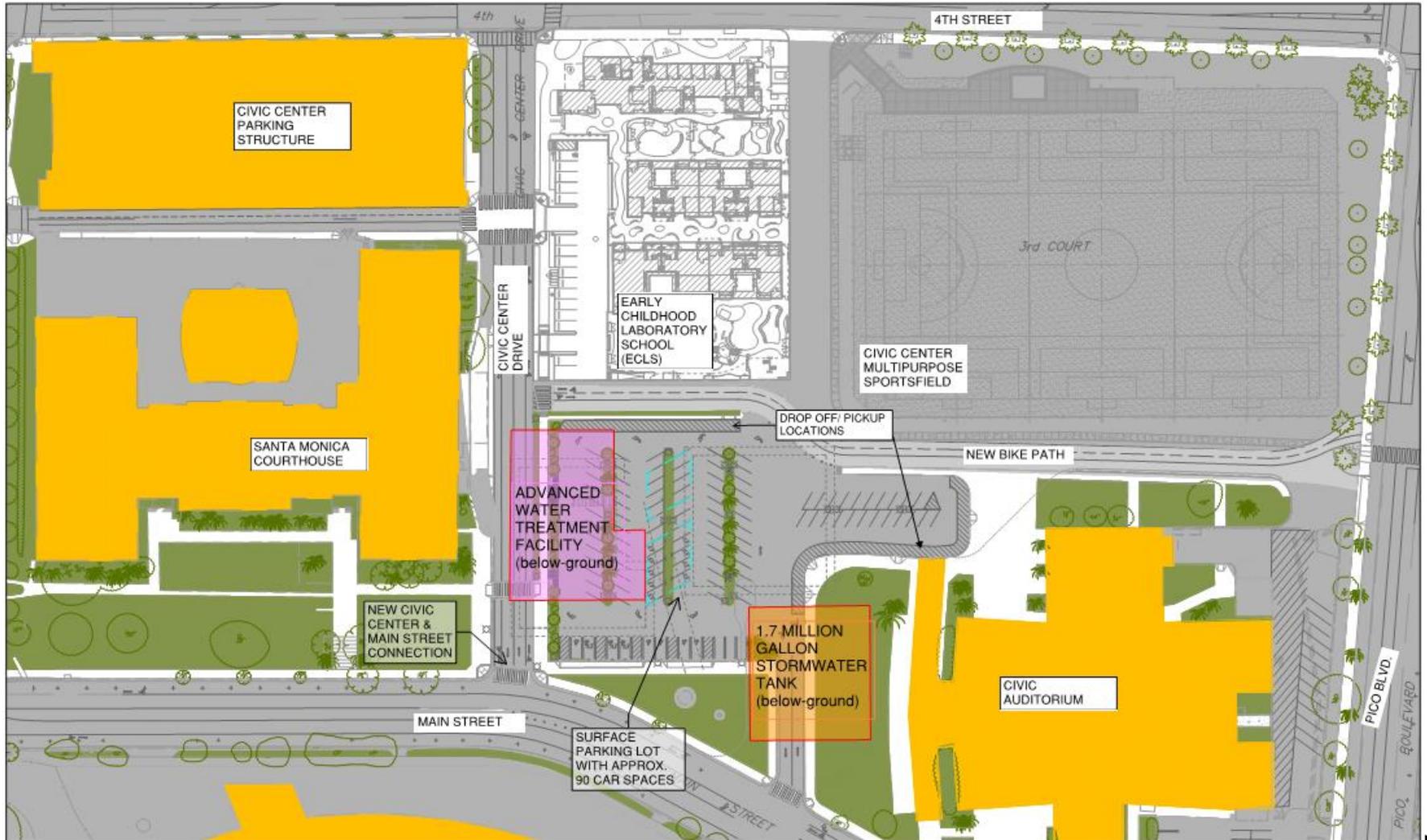


Additional Public Benefits

- Underground treatment plant and harvesting tank provide better opportunity for public space
- 90 parking spaces for public access to the adjacent Courthouse, School and Sports field
- 12 new fast DC chargers for electric vehicles
- New Bike Path that serves adjacent School and Sports field
- Approximately 35 new trees
- New native landscaping



SWIP Site Plan



Sustainable Water Infrastructure Project (SWIP)



RAND CORPORATION
BUILDING

MAIN STREET

COURTHOUSE
BUILDING

CIVIC CENTER DRIVE

PRELIMINARY RENDERING OF THE CIVIC
CENTER PARKING LOT - LOOKING
TOWARDS WEST

Safe Clean Water Program

- SWIP captures and treats storm water for groundwater recharge
- SWIP is an adaptation toward a sustainable and drought resilient City in response to climate change
- SWIP reduces City's reliance on limited imported water from long distances
- SWIP provides opportunity to other communities within Region to have a stake in the limited imported water supply
- SWIP address all Goals of the Safe Clean Water Program
 - Capture stormwater, urban runoff, wastewater
 - Protection of Santa Monica Bay from pollutants
 - Use innovative new technologies for treatment
 - Improve public facilities with new improved amenities
 - Drought resiliency and sustainability
 - Using local funds. for project that provides local benefits



SWIP IS SHOVEL READY!

QUESTIONS?

www.smgov.net/swip

Engineering & Street Services Division

Selim Eren, PE

selim.eren@smgov.net

(310) 458-8721



Overview of Proposed Scientific Study

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

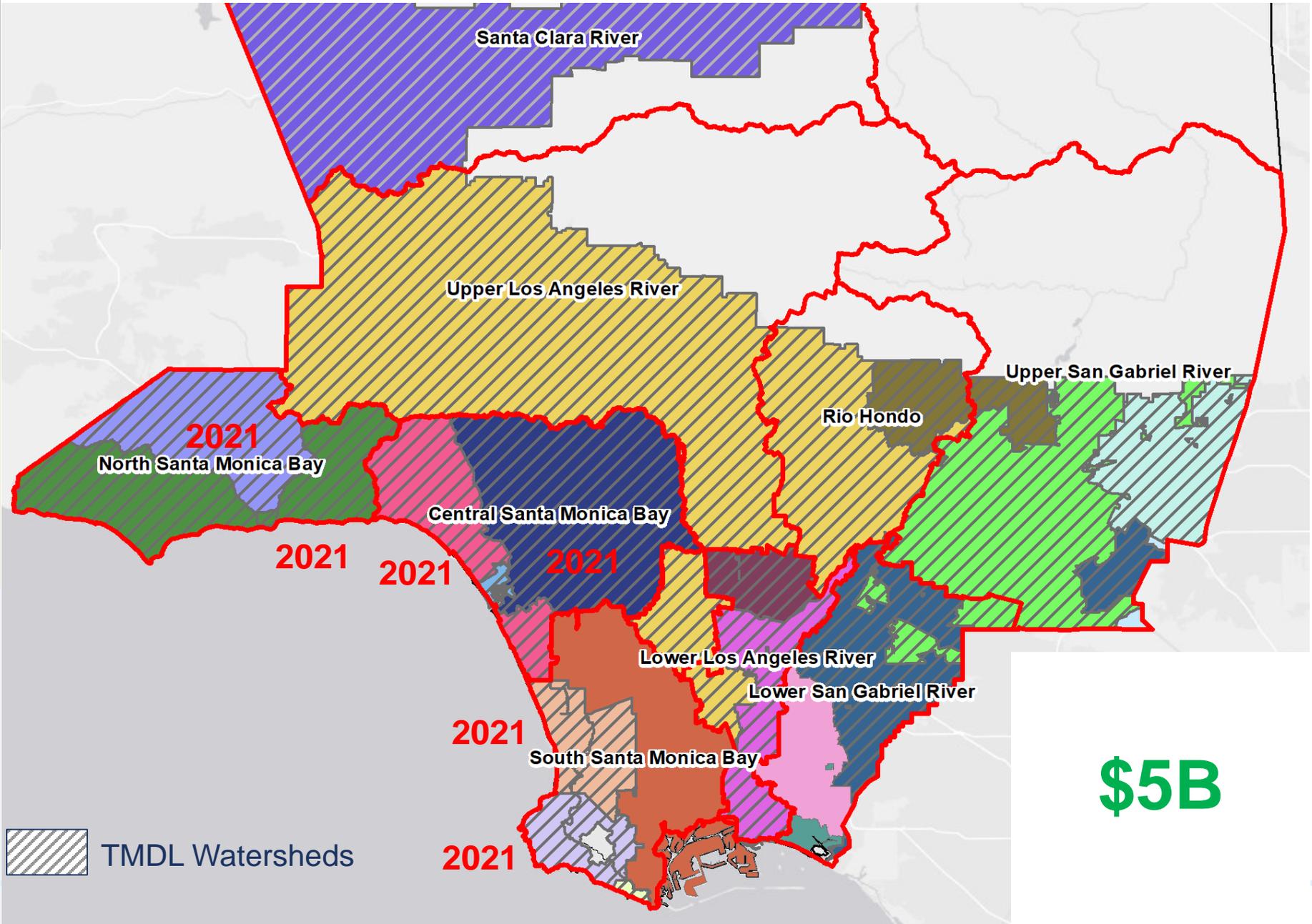
Presentation to Central Santa Monica Bay WASC

23 January 2020

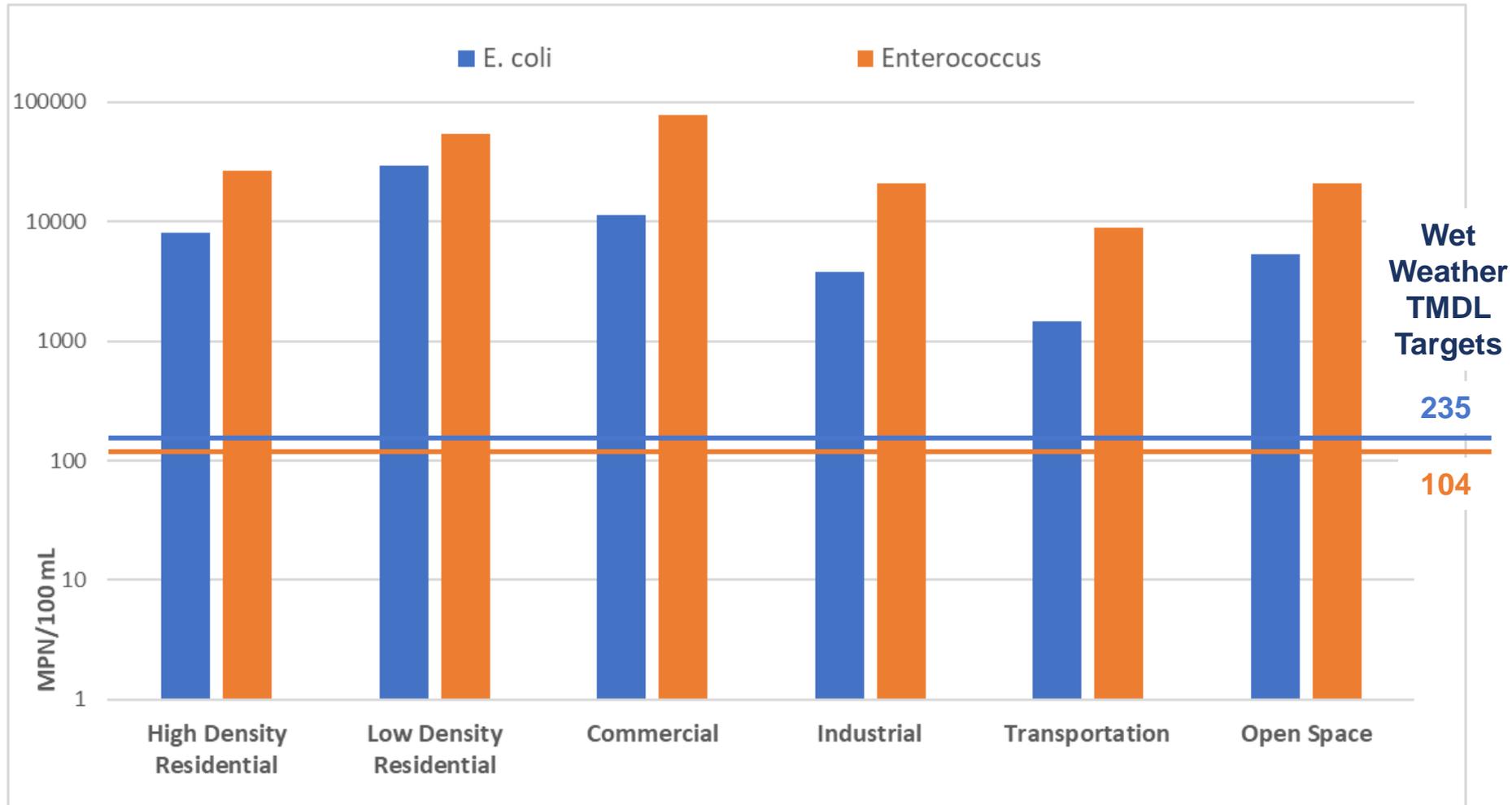
Overview

- Bacteria Challenges
- Scientific Study Approach
- Scientific Study Schedule and Cost Estimate
- Summary

E/WMP Groups Addressing Bacteria



Wet Weather Average Concentrations: LA County Land Uses

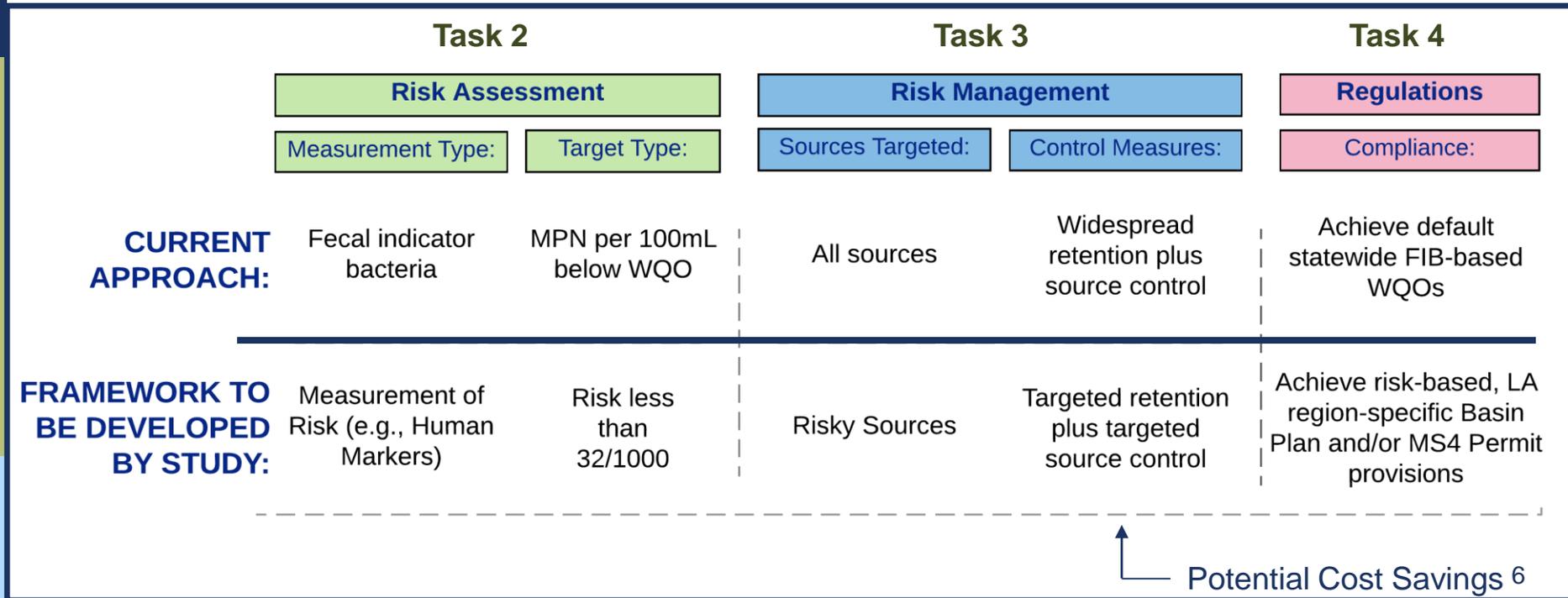


Scientific Study: Initial Steps

- 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

What will the study do?

Task 1 Stakeholder Process



Study Schedule

Task	Year										
	1	2	3	4	5	6	7	8	9	10	
Task 1 – Stakeholder Process	■	■	■	■	■	■	■	■	■	■	■
Task 2 – Risk Assessment	■	■	■	■	■	■	■	■	■	■	■
Task 3 – Risk Management	■	■	■	■	■	■	■	■	■	■	■
Task 4 – Regulatory Revisions	■	■	■	■	■	■	■	■	■	■	■

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.

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

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%	\$890,000	\$4,450,000	\$1,181,920	28%
Lower Los Angeles River	9.0%	\$640,000	\$3,200,000	\$909,031	
Lower San Gabriel River	11.7%	\$835,000	\$4,175,000	\$1,137,470	
North Santa Monica Bay	1.3%	\$90,000	\$450,000	\$141,252	
Rio Hondo	8.1%	\$575,000	\$2,875,000	\$782,646	
Santa Clara River	4.2%	\$300,000	\$1,500,000	\$462,119	
South Santa Monica Bay	12.9%	\$920,000	\$4,600,000	\$1,272,424	
Upper Los Angeles River	27.1%	\$1,930,000	\$9,650,000	\$2,604,041	
Upper San Gabriel River	13.3%	\$945,000	\$4,725,000	\$1,309,097	
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.

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 Funds
Central Santa Monica Bay	\$330,518	\$330,518	\$330,518	\$116,293	\$116,293	\$1,224,140	\$4,450,000	28%
Lower Los Angeles River	\$237,676	\$237,676	\$237,676	\$83,627	\$83,627	\$880,281	\$3,200,000	
Lower San Gabriel River	\$310,093	\$310,093	\$310,093	\$109,107	\$109,107	\$1,148,491	\$4,175,000	
North Santa Monica Bay	\$33,423	\$33,423	\$33,423	\$11,760	\$11,760	\$123,789	\$450,000	
Rio Hondo	\$213,537	\$213,537	\$213,537	\$75,133	\$75,133	\$790,877	\$2,875,000	
Santa Clara River	\$111,411	\$111,411	\$111,411	\$39,200	\$39,200	\$412,632	\$1,500,000	
South Santa Monica Bay	\$341,659	\$341,659	\$341,659	\$120,213	\$120,213	\$1,265,404	\$4,600,000	
Upper Los Angeles River	\$716,741	\$716,741	\$716,741	\$252,187	\$252,187	\$2,654,596	\$9,650,000	
Upper San Gabriel River	\$350,943	\$350,943	\$350,943	\$123,480	\$123,480	\$1,299,789	\$4,725,000	
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.

Summary

- Time is right
- To make this successful, can't just be technical
- LA Specific Study is needed to identify the best way to focus on risk in the region

Questions and Thank You

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