

Safe, Clean Water Program

Rio Hondo

Watershed Area Steering Committee (WASC)



Meeting Minutes:

Wednesday, February 26, 2020

9:00am - 11:00am

City of Monrovia, Monrovia Room

[119 West Palm Ave Monrovia, CA 91016](https://www.monrovia.ca.gov/119/West-Palm-Ave-Monrovia-CA-91016)

Attendees

Committee Members and Alternates:

Fernando Villaluna* (LA County)
Julian Juarez (LA County Flood Control District)
Kelly Gardner (Main San Gabriel Basin)
Kristen Ruffell (Sanitation Districts)
Mark Hall (Greater LA County Vector Control District)
Brent Maue (City of Pasadena Parks and Recreation)
Daniel Rossman (The Wilderness Society)

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 Crudginton (Monrovia)

Committee Members Not Present

Tom Love (Upper San Gabriel Valley Municipal Water District)
Michael Hurley (Cal Water)

Ron Miller (LA/OC Building Trades)

*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 February 12, 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.

The committee voted to approve the meeting minutes from February 12, 2020 (13 votes in agreement and 1 vote abstain).

3. Committee Member and District Updates

Ms. Kevin Kim (District) provided a summary of the scoring progress so far by the Scoring Committee (SC), adoption of the General Income Based Tax Reduction Program, and informed the committee of the Meeting of Chairs/Vice Chairs on Thursday, February 27, 2020.

4. Public Comment Period

No public comment.

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5. Voting Items:

None.

6. Discussion Items:

a. Presentations

i. Infrastructure Program

1) Arcadia Wash Water Conservation Diversion Project (City of Monrovia)

Presentation by Alex Tachiki and Oliver Galang. The proposed project is a Diversion that takes flows from Arcadia Wash channel at Live Oak Ave and directs them for potential future treatment at Phase II, Rio Hondo Ecosystem Restoration Program. This is Phase 1 of a two-phase project that will ultimately result in a treatment wetlands. This project was identified for implementation in the Rio Hondo/San Gabriel River revised Watershed Management Program.

Mr. Tachiki requested this project be considered under the Technical Resources Program.

Following the presentation, the committee members asked questions about the location of the monitoring stations and the timeline for Phase 2 of this project. Mr. Tachiki responded that there is a monitoring station at Peck Park Lake and that Peck Park Lake does not have a TMDL for bacteria. Mr. Tachiki responded that the timeline for Phase 2 is unknown at this time, but a Joint Powers Authority (JPA) will be formed to assist with the land acquisition process.

Committee members raised concerns about the inconsistencies in scoring by the Scoring Committee. The scoring criteria was developed and refined through a lengthy stakeholder advisory process. While the District intends to revisit and refine the scoring criteria in the future this year was a unique case where all the projects were sent to the Scoring Committee due to the expedited timeline to submit Stormwater Investment Plans. In subsequent years, the WASCs will review and decide which projects are sent to the Scoring Committee.

2) Baldwin Lake and Tule Pond Restoration Project (Los Angeles County Public Works/Flood Control District)

Presentation by Joshua Felton. The proposed project, located at the Los Angeles County arboretum and Botanic Garden in the City of Arcadia, will improve water quality and enhance the aesthetic, historical, and operational features of the Lake and Pond. Features of this project include filtration unit, bioswales and community investment features such as observation decks and educational signage.

The committee members discussed coordination efforts between projects that capture the same water and other technical attributes of the project. Mr. Felton was asked about the sediment in the pond and about current water quality issues. Mr. Felton responded that sediments will be removed through dredging and that the existing water has low oxygen levels. The public commented that this project and the Arcadia Wash Water Conservation Diversion Project are both important projects to meet MS4 compliance.

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ii. Technical Resources Program

1)None

iii. Scientific Studies Program

1)None

b. Discussion of Stormwater Investment Plan Development Process

i. Disadvantage Community Benefit

Mr. Kim clarified that If the WASC confirms that a project provides DAC benefits and the project is included in the SIP, the full funding amount will be used toward the DAC criteria calculation. The District will provide a summary of DAC benefits at the next meeting.

ii. Infrastructure Program, Technical Resources Program, and Scientific Studies Program Project selection process

Mr. Kim stated that the District recommends the WASCs allocate up to 80% of the estimated Regional Program Funds to account for tax reductions and appeals. For the subsequent 4 years, the District recommends the WASCs allocate up to 50% of the estimated Regional Program Funds. Any unused funds will roll over to the following Fiscal Year. Ms. Melissa Turcotte (District) provided a preview of the SIP planning tool to assist in developing the SIP

iii. Voting options and process

The District solicited recommendations on how the committee would like to select projects. Ms. Ruffell suggested the committee (1) vote on the targeted percent allocation for each year, (2) vote on the prioritization of the two infrastructure projects and (3) vote on the technical resources program and scientific studies. District will provide ballots for each voting item at the next meeting.

7. Items for next agenda

The District recommends the following items for the next agenda. (1) Further Discussion on project selection process and (2) Stormwater Investment Plan discussion and development. The committee voiced general questions about the SIP programming process. Programming guidelines to be shared with the committee at the next meeting. There were general comments from the public regarding the allocation percentages for the three separate programs in the Regional Program. District stated that the allocation percentages are defined in the implementation ordinance and revisions to the ordinance, as well as, the scoring criteria will be revisited in future years.

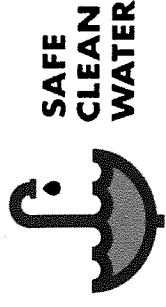
8. Adjournment

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

Rio Hondo

Watershed Area Steering Committee Meeting

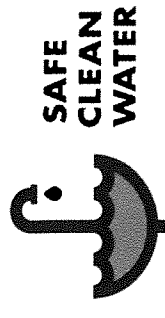
COMMITTEE MEMBER AND ALTERNATE SIGN-IN


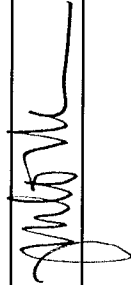


Member Name	Municipality/ Organization	Email Address	Signature
Julian Juarez	FCD	JJUAREZ@dpw.lacounty.gov	<i>Julian Juarez</i>
Kelly Gardner	Main San Gabriel Basin	kelly@watermaster.org	<i>PRESENT</i>
Brent Maue	City of Pasadena Department of Public Works	Bmaue@cityofpasadena.net	<i>PRESENT</i>
Kristen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

Rio Hondo

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



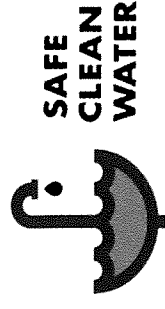
Member Name	Municipality/ Organization	Email Address		Signature
James Carlson	Sierra Madre	jcarlson@cityofsierramadre.com	P	
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
Tony Zampielo	Main San Gabriel Basin Watermaster	tony@watermaster.org	A	
Martha Tremblay	Sanitation Districts	mtremblay@lacsdsd.org	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	

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Rio Hondo

Watershed Area Steering Committee Meeting

PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
YOUSSEF	CHEBABA	LACPW	YCHERBAS1@DPW.LACOUNTY.GOV
JOSHUA	FELTON	LACPW	
OLIVER	GLANG	CHATELAIN BODY	oliver.galang@craftwaterinc.com
MIKE	AUBO	Stantec	Mike.Aub@stantec.com
GANDY	SPIDER	ARBORETUM	sswider626@charter.net
JUD	WARREN	WESTON	robert.warren@westonsolutions.com
DAWN	PETSCHAUER	LASAN	dawn.petschauer@lacity.org
WILLIAM	O'BRAZIS	KOLAMUDA	WOBZANIS@KOLAMUDA.COM
RAM	WARNER	Calce - Inyoreturn	PWARNER2@gmail.com
EDUARDO	WATSON	Herb supporters	
Cameron	McCollough	JCHA	cmccollough@jcha.net
TJAR	Kidgeway	RWQCB-LA	
RICHARD	SCHULTZ	ARBORETUM	RICHARD.SCHULTZ@ARBORUM.ORG
BLAKE	HATTINGTON	SELF	

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

February 26, 2020



Baldwin Lake and Tule Pond Restoration Project

In partnership with Department of Parks and Recreation

Funding Requested: \$8.5 Million

Presented by:
Joshua Felton

PROJECT PARTNERS

- County Supervisorial District No. 5
- Department of Parks and Recreation
- The Arboretum Foundation
- City of Arcadia



HISTORY

Baldwin Lake is a historical feature of the Arboretum and the region. It was the site for a Native American settlement prior to the arrival of the Spanish to California.

In 1875, Mr. Baldwin purchased the land and established Baldwin Ranch and in the late 1880s he dredged the Lake and deepened it to a depth of 12 to 15 feet.

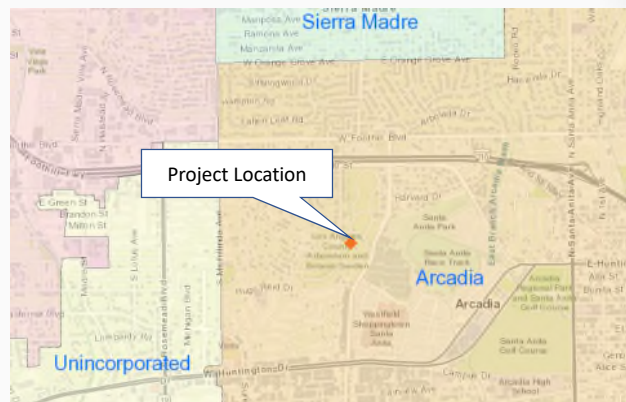
The site and its surrounding area **became the Arboretum in 1947** when the State of California and the County of Los Angeles purchased the property.

Over the years, the Lake has been featured in numerous movies and television shows. Additionally, the **National Register of Historic Places** listed the Lake as a support feature for the adjacent **Queen Anne Cottage** and **Coach Barn**.



PROJECT LOCATION

- Baldwin Lake and Tule Pond are two significant features within the Los Angeles County Arboretum and Botanic Garden in the City of Arcadia.
- The Arboretum is owned by the County of Los Angeles and is jointly operated and maintained by the Los Angeles Arboretum Foundation and the County of Los Angeles Department of Parks and Recreation (DPR).



PROJECT WATERSHED



Tule Pond
Tributary Area:
205 Acres



Arboretum
Tributary Area:
120 Acres



EXISTING CONDITIONS



EXISTING CONDITIONS BALDWIN LAKE

- Today, the Lake is approximately 2.5 to 3 feet deep due to sediment and organic material accumulation.
- Problematic features of the lake include:
 - Lake dries out between storm events
 - Low levels of dissolved oxygen
 - Spikes in temperature during the summer
 - Lack of water circulation
 - Potentially high bacteria levels.

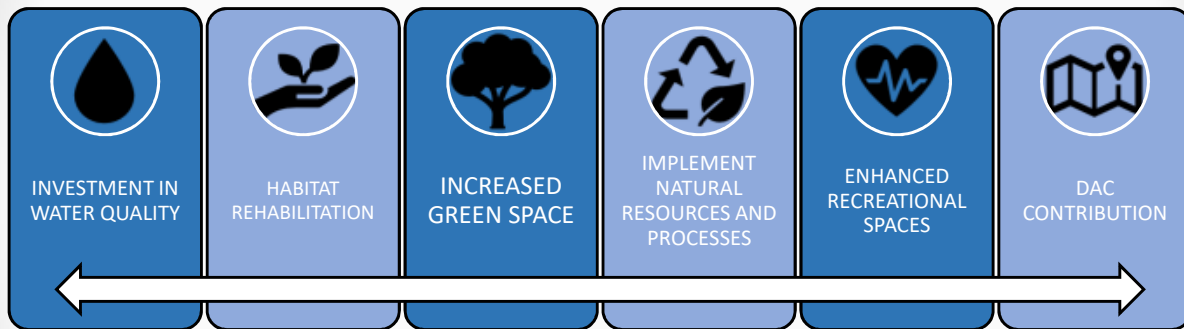


EXISTING CONDITIONS TULE POND

- Over the past decades, the runoff and storm flows from the drains and surrounding arboretum into the Pond have contributed to sediment deposition.
- This has negatively affected the Pond's ability to perform as a pre-settling basin to Baldwin Lake, as originally intended.
- Poor Water Quality
- Sediment Contaminated with lead and metals



PROJECT OBJECTIVES

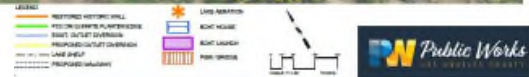


BALDWIN LAKE RESTORATION

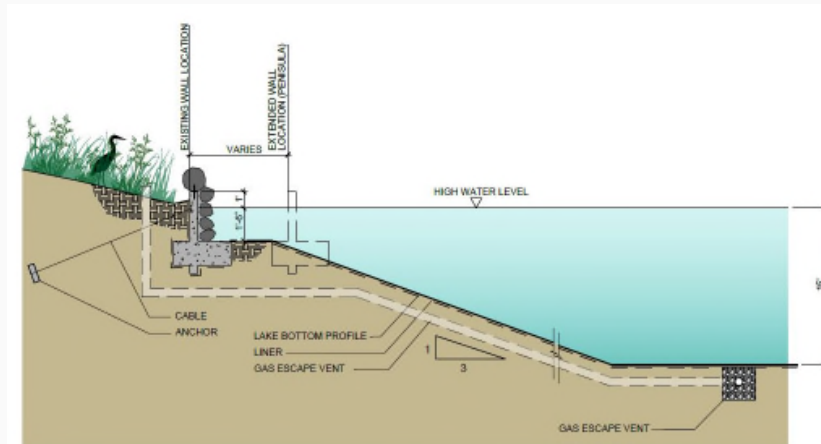
- **Baldwin Lake efforts include:**
 - Sediment removal to a depth of 15 feet
 - Restoration of 2,900 feet of the historic retaining wall
 - Lake Liner and Ventilation system
 - Add energy dissipator to outlet of connector pipe between Tule Pond and Baldwin lake
 - Landscape and irrigation restorations
 - Observation decks
 - Lake Aeration and Recirculation
 - Educational and Wayfinding Signage



Baldwin Lake Restoration



HISTORIC WALL - LAKE EDGE CROSS SECTION



TULE POND RESTORATION

Tule Pond efforts include:

- Sediment removal to original depth (8ft-10ft) to enhance infiltration basin functionality and storm attenuation
- Relocation of 4th storm drain outlet
- Water quality features will reduce: Trash, sediment, metals and bacteria
 - Six Bioswales along the road parkway
 - Hydrodynamic filtration units in each of the four storm drains
- Captures and treats:
 - 100% dry weather runoff
 - 100% of 85th Percentile storm event

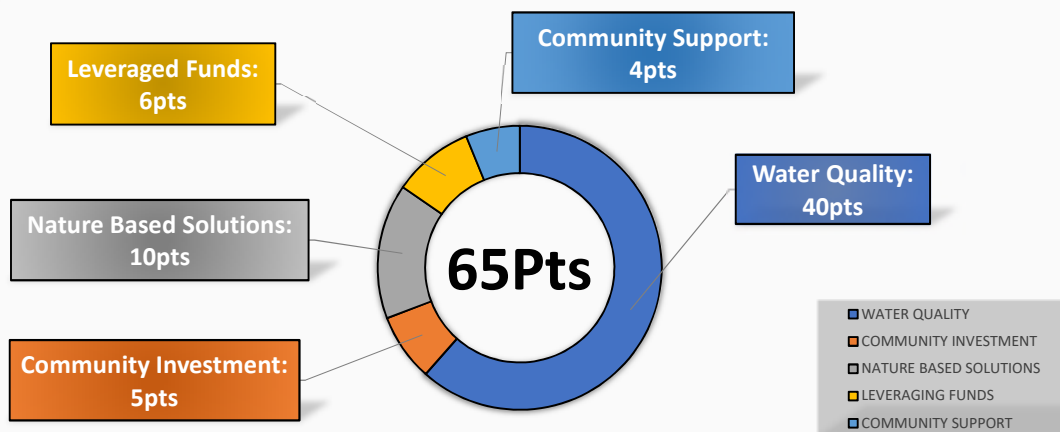


rWMP

- Tule Pond Water Quality enhancements were initially phase 1 of the rWMP, Arcadia Wash Ecosystem Restoration and Groundwater Recharge Project (ERGRP)
- Phase 2 of ERGRP is still in conceptual planning phase.



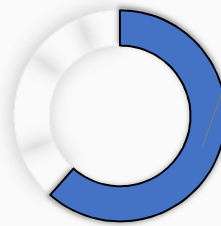
SCORE BREAKDOWN



WATER QUALITY & WATER SUPPLY

Water Quality:

- Water treated to reduce:
 - Trash
 - Bacteria
 - Sediment
 - Metals
- Dry weather flow – 100% treated
- Wet weather flow – 100% of 85th percentile



Water Quality:
40pts

Water Supply:

- Pond capacity: 8.3 AF
- Pond Infiltration: 83 AFY (assumes 10 storm events per yr.)



COMMUNITY BENEFITS

Nature Based Solutions:

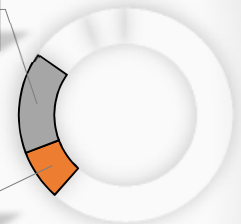
- Infiltration Basin
- Bioswales
- Native Plants
- Use of Natural Soils
- Follows Natural Water course
- Provides Additional Green Space

Nature Based Solutions:
10pts

Community Investment:

- Water Quality Improvements
- Observation Decks
- Educational and Wayfinding Signage
- Enhance Recreational Opportunities
- Restoration of shoreline for Increased Vegetation
- Implementation and Enhancement of Natural Processes

Community Investment:
5pts



DAC BENEFITS

Additional Community Benefits

- Arboretum visitors come from across Los Angeles County, with the majority from the San Gabriel Valley, East Los Angeles, and the Inland Empire.
- Of over 500,000 annual visitors, 33,458 are provided with free admission, either on monthly “Free Days”, or through EBT programs (food assistance for low income families).

Schools served:

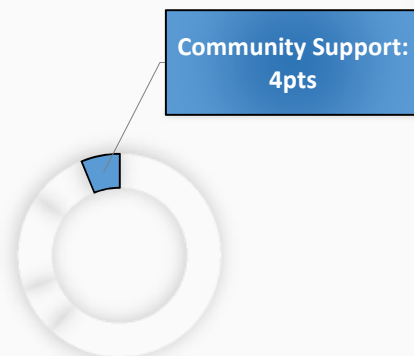
- In 2018 some 285 schools visited the arboretum, many with multiple field trips.
- Over 70% of visiting schools are designated as Title 1, which requires that over 40% of the student body is classified as low income
- Representation among School Districts include:
 - Los Angeles Unified
 - Pasadena Unified
 - Baldwin Park
 - Arcadia
 - El Monte



COMMUNITY SUPPORT

Project Stakeholders Include:

- The Save Baldwin Lake Task Force
- Audubon Society
- Historical Societies
- Gabrielino-Tongva Tribe
- Local School Districts



PROJECT COST ESTIMATE

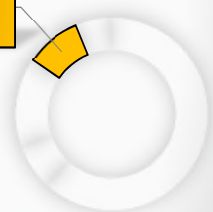
Cost

- Total Project Cost: \$19.6 Million
- Construction Cost: \$16.0 Million
- Planning, Design, Construction Admin. and Inspection Cost: \$3.6 Million

Funding

- LACFCD: \$8.7 Million
- DPR: \$1.0 Million contribution from Measure A
- City of Arcadia and EWMP Partners: \$1.4 Million for Water Quality
- Funding Requested: \$8.5 Million

Leveraged Funds:
6pts



COST ANALYSIS

	Item	Cost
Baldwin Lake	Sediment Removal, Connector Inlet Modification, Env. Mitigation, Landscape restoration, Liner	\$4,670,000
	Historic Wall Restoration and Shoreline Stabilization	\$5,340,000
	Multi-Use Features such as aerators, viewing decks, educational signage	\$215,200
	Subtotal	\$10,225,200
Tule Pond	Sediment Removal, Inlet Modifications, realign 4th drain pipe, Shore edge stabilization, Env. Mitigation, Landscape Restoration	\$2,450,900
	Water Quality Items (Bioswales, hydrodynamic filtration units)	\$1,425,000
	Landscape/Hardscape/Irrigation	\$387,600
	Subtotal	\$4,263,500
	Total Construction Cost	\$14,488,700
	Construction Contingency (10%)	\$1,448,870
	Total Soft Cost (inc. Const. Admn. and Inspection)	\$3,600,000
	Total Project Cost	\$19,537,570



5-YEAR FUNDING PROJECTION

Work Completed	FY20-21		FY21-22		FY22-23		FY23-24		FY24-25	
	SCW Funds Requested	Leveraged Funds	SCW Funds Requested	Leveraged Funds	SCW Funds Requested	Leveraged Funds	SCW Funds Requested	Leveraged Funds	SCW Funds Requested	Leveraged Funds
- Design and Planning - Grant Applications - Environmental Documentation - Contract Advertise and Award	\$440,000	\$873,500	\$270,000	\$539,500	-	\$20,000	-	-	-	-
- Construction - Construction Administration - Construction Inspection	-	-	-	-	\$4,730,000	\$6,342,514	\$3,060,000	\$3,261,986	-	-
- O&M	-	-	-	-	-	-	\$130,000	-	\$231,000	-
Totals by Fiscal Year & Funding Agency	\$440,000	\$873,500	\$270,000	\$539,500	\$4,730,000	\$6,362,514	\$3,190,000	\$3,261,986	\$231,000	\$0



SCHEDULE

MILESTON DESCRIPTION	ESTIMATED START	ESTIMATED FINISH
Project Concept Report	January 2019	September 2019
Project Design Concept Report	October 2019	May 2020
Design Plans	June 2020	September 2021
Environmental Docs/Permits	August 2020	April 2022
Signed Plans, Specifications, & Engineer's Estimate (PS&E)	December 2021	March 2022
Advertise/Award	May 2022	July 2022
Construction	October 2022	November 2023



QUESTIONS?



craftwater
engineering, inc.

RIO HONDO WATERSHED AREA STEERING COMMITTEE
February 26, 2020 | City of Monrovia

RIO HONDO
SAN GABRIEL
RIVER
WATER QUALITY GROUP

**Rio Hondo Ecosystem Restoration Project
Phase I, Arcadia Wash Diversion Project**

PRESENTED BY
Alex Tachiki, Rio Hondo San Gabriel River Water Quality Group
Oliver Galang, PE | Craftwater Engineering


1

RIO HONDO WATERSHED AREA STEERING COMMITTEE SAFE, CLEAN WATER PROGRAM INFORMATION	
DESCRIPTION	DATA/INFORMATION
PROJECT NAME	Phase I, Arcadia Wash Water Conservation Diversion Project
PROJECT LEAD	City of Monrovia on behalf of the Rio Hondo San Gabriel River Water Quality Group
PRESENTERS	Alex Tachiki , City of Monrovia Oliver Galang , Craftwater Engineering
TOTAL FUNDING REQUEST	TECHNICAL RESOURCES PROGRAM TOTAL PROJECT COST: \$300,000


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REGIONAL WATER MANAGEMENT PROGRAM
Rio Hondo San Gabriel River revised Watershed Management Program



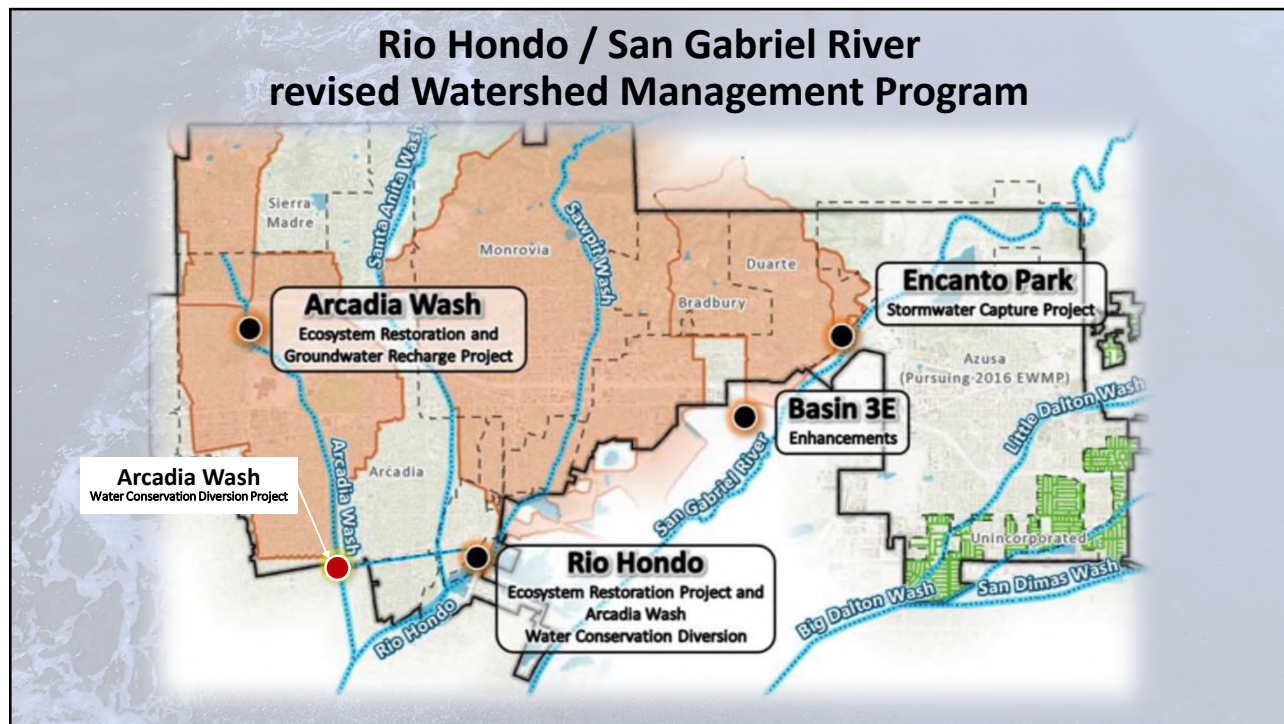
Rio Hondo/San Gabriel River Watershed is a **26,240-acre watershed**

Highest priority pollutants include metals, with **zinc as the limiting pollutant**, and **bacteria**

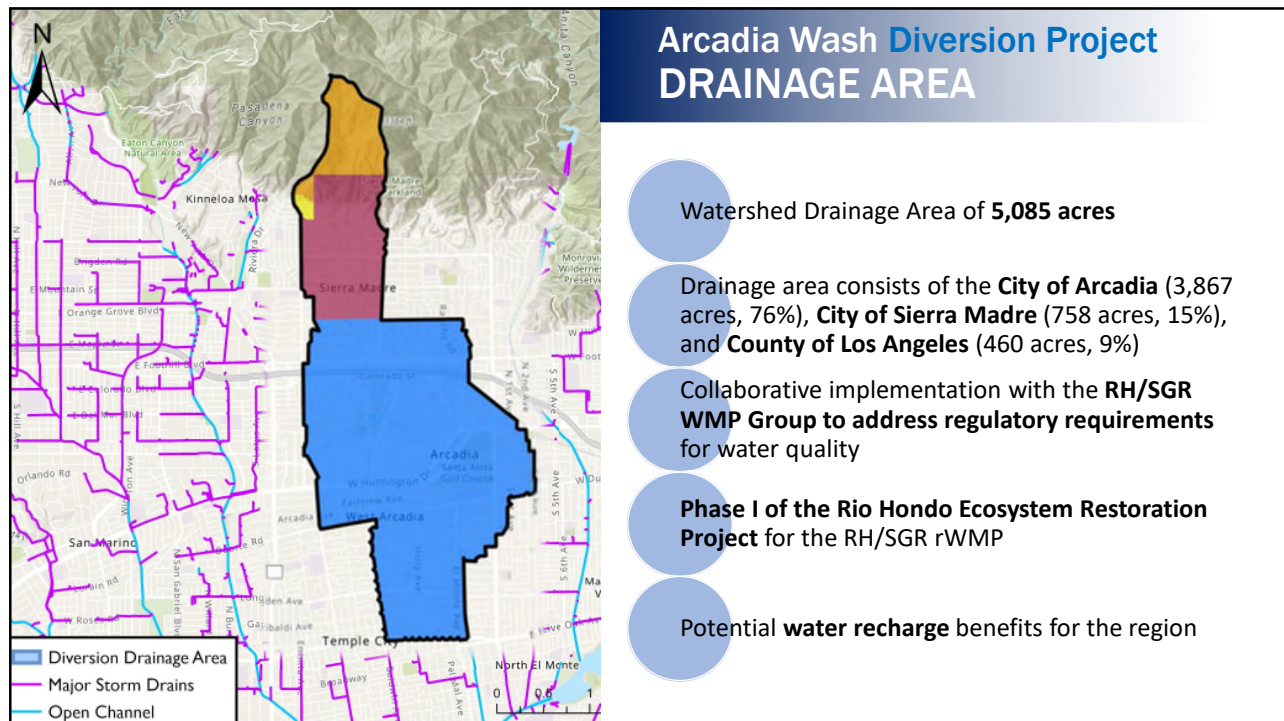
RH/SGR WMP was approved on 4/21/16 and was revised and approved on 05/17/2019

The **revised compliance strategy** relies heavily on regional projects and green streets

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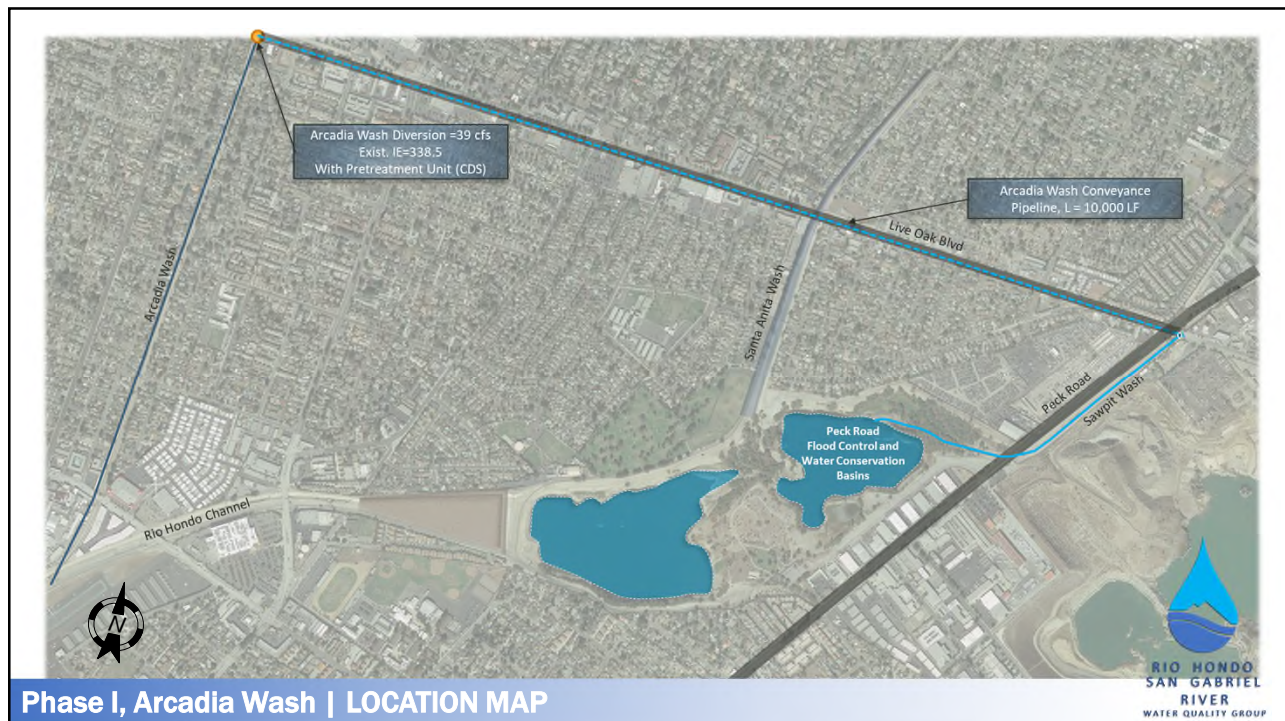
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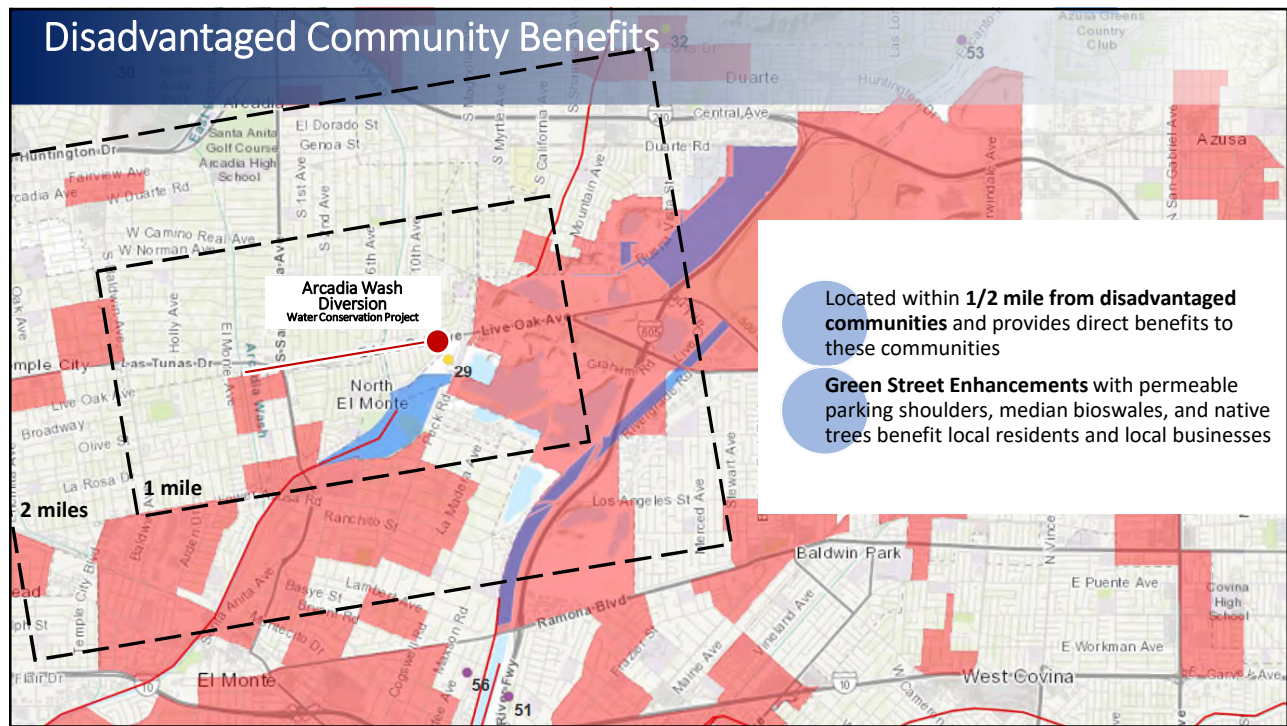
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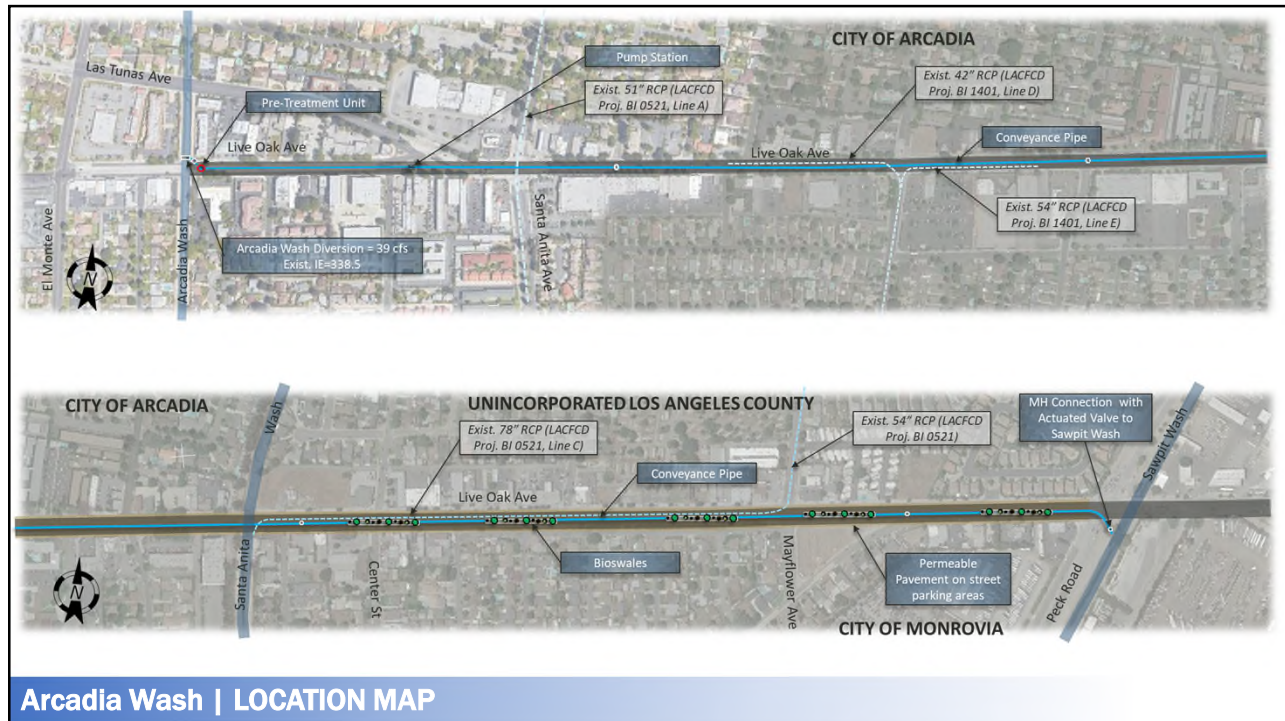
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ARCADIA WASH DIVERSION PROJECT Schedule and 5 Year Look Ahead

TASK NAME	Start	Finish
Phase I. Arcadia Wash – Feasibility Study	July 2020	June 2021
Phase I. Arcadia Wash - Design and Permitting	July 2021	December 2022
Phase I. Arcadia Wash - Contract Award and Construction	January 2023	September 2024
Phase II. Rio Hondo Ecosystem Restoration Design and Permitting	January 2022	September 2023
Phase II. Rio Hondo Ecosystem Restoration Construction	October 2023	September 2025

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ARCADIA WASH DIVERSION PROJECT Expenditure Projections of SCW Program Funds


YEAR	FISCAL YEAR	SCW FUNDS	DESCRIPTION
1	FY 20-21	\$ 300,000	Feasibility Study
2	FY 21-22	\$ 1,270,000	Planning, Design, and Permitting
3	FY 22-23	\$ 1,262,371	Permitting and Bidding
4	FY 23-24	\$ 5,100,000	Contractor mobilization and Construction
5	FY 24-25	\$ 5,032,125	Construction

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**ARCADIA WASH
STORMWATER CAPTURE PROJECT
WATER QUALITY AND WATER SUPPLY BENEFITS**



- Dry-Weather Project treats up to **30 cfs** with Pre-Treatment Unit, pump station, and in-line storage
- Phase I Water Supply benefits from diversion to recharge at Peck Road Water Conservation Basins, estimated at **112 AFY**

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ARCADIA WASH DIVERSION PROJECT COMMUNITY INVESTMENT and NATURE-BASED SOLUTIONS



Landscaped medians with bioswales and native trees

Additional trees to provide shade and reduce heat island

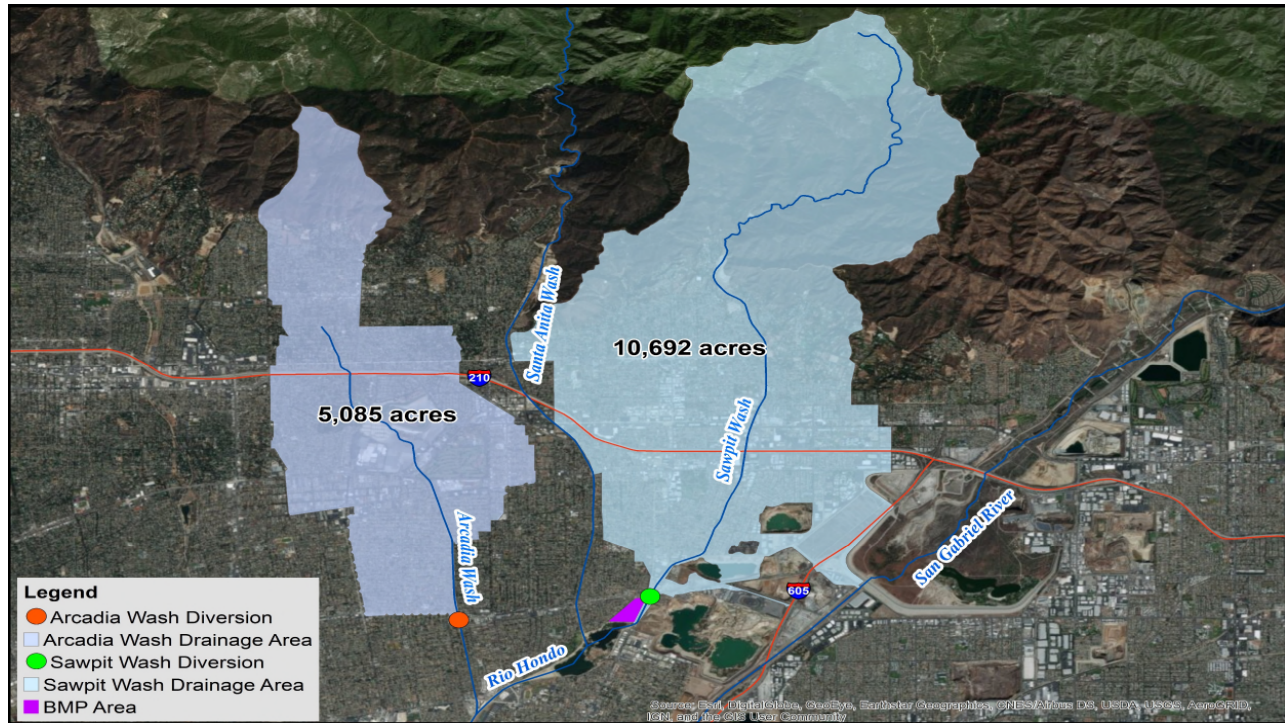
Permeable pavement parking on shoulders to reduce impervious areas

17



Rio Hondo Ecosystem Restoration, Phase II

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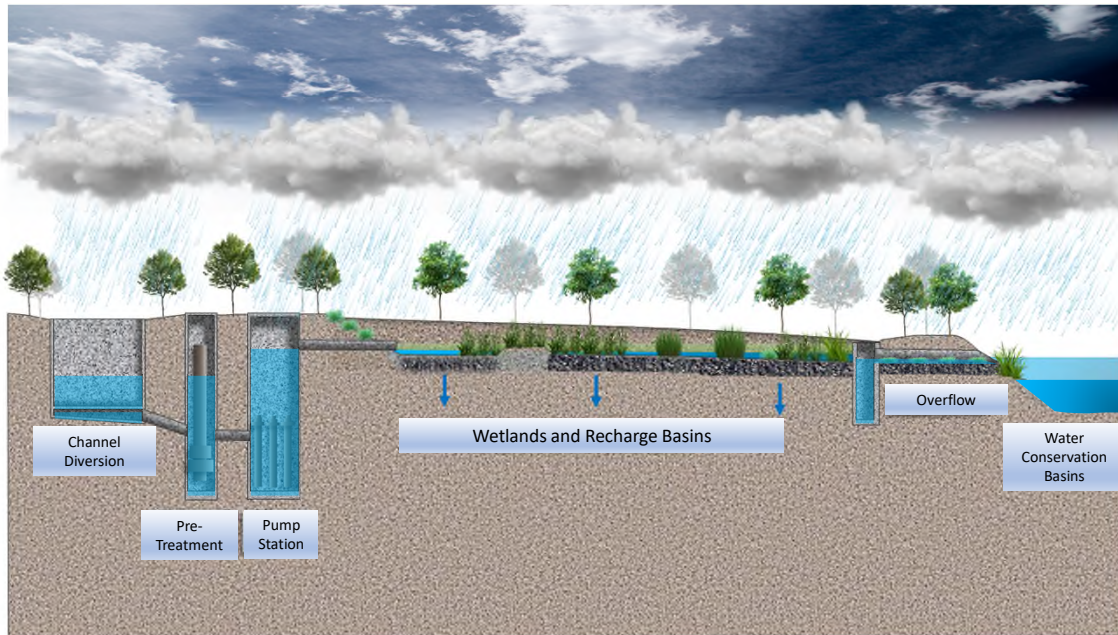


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Rio Hondo Ecosystem Restoration Project | SCHEMATIC DIAGRAM



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Rio Hondo Ecosystem Restoration Project | Site Photos



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Questions?

Alex Tachiki, City of Monrovia on behalf of the
Rio Hondo/San Gabriel River Water Quality Group

Oliver Galang, PE | Craftwater Engineering

