

Safe, Clean Water Program

Upper Los Angeles River Watershed Area Steering Committee (WASC)



Meeting Minutes:

Monday, February 10, 2020

3:00pm – 5:00pm

Los Angeles County Public Works, Headquarters – Conference Room C
900 S. Fremont Ave., Alhambra, CA 91803

Attendees:

Committee Members Present:

Paul Lui (LA Dept. of Water and Power)

Javier Solis* (LA Recreation & Parks)

Alfredo Magallanes (Los Angeles – Sanitation)

Art Castro* (LA Dept. of Water and Power)

David Nahai (Lewis Brisbois Bisgaard & Smith)

Veronica Padilla-Campos (Pacoima Beautiful)

John Luker (Santa Susana Mountain Park
Association)

Yazdan Emrani (Glendale)

Teresa Villegas* (Los Angeles)

Patrick DeChellis (La Canada Flintridge)

Miguel Luna (Urban Semilla DakeLuna
Consultants)

Paul Alva (Los Angeles County Public Works)

Gary Hildebrand (Los Angeles County Flood
Control District)

Ernesto Pantoja (Laborers Local 300)

Ackley Padilla (Los Angeles)

Committee Members Not Present:

Jeff Camp (Los Angeles)

Kris Markarian (Pasadena)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Mr. David Nahai, the Chair of the Upper Los Angeles River WASC, called the meeting to order.

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

2. Approval of Meeting Minutes from January 22, 2020

The District provided a copy of the meeting minutes from the previous meeting. Mr. Nahai asked the committee members for comments or revisions, there were none. A motion was made to approve the meeting minutes from January 22, 2020. Mr. Paul Liu seconded the motion. **The Committee voted to approve the meeting minutes from January 22, 2020 (unanimous).**

3. Committee Member and District Updates

a) Regional Coordination Update

Mr. Mike Antos (District consultant) announced that the interactive map that was discussed in the previous meetings is now available online. District staff navigated to the map titled "Safe, Clean Water GIS Reference Map" on the Safe, Clean Water website and Mr. Mike Antos demonstrated a few of the many features of the map.

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Mr. CJ Caluag stated that the Statement of Qualifications for a Watershed Coordinator should be released in April 2020, and anticipates a 6 to 8 month process to complete the watershed coordinator selection process.

b) Scoring Committee Update

Mr. CJ Caluag announced that all 58 projects (i.e., projects submitted to the Infrastructure Program) have been reviewed by the Scoring Committee (SC), and that 19 of these projects need to provide additional information to be scored. Those 19 project applicants should have received an email to provide more information. The SC will reconvene on February 18th.

Mr. Caluag noted the tentative upcoming WASC timeline. The District scheduled project applicant presentations throughout February and into the beginning of March. District staff discussed the "Regional Program" flowchart on page 99 of the Regional Program Committee Handbook. The Committee will develop their Stormwater Investment Plan (SIP) in March, and the Regional Oversight Committee will provide their review and recommendations in April. May through June, the District will prepare the Board Letter that presents the SIP to the Los Angeles County Board of Supervisors for approval. For this WASC, the Committee could start discussing the SIP at the second WASC meeting in March.

Draft fund Transfer Agreements templates are expected sometime in March or April. Following a 30-day public review period, the SCW team to address comments received and take to the Los Angeles County Board of Supervisors (BOS) for approval.

Mr. Caluag reminded the Committee about the Technical Resources Program (TRP) process. Mr. Matt Frary further explained how the Technical Assistance Teams (TAT) teams are available to assist agencies to help develop feasibility studies for regional program eligibility. The \$300,000 amount is merely a placeholder amount that the District is committed to deliver the necessary feasibility study for the TRP applicant. If the final product is less than \$300,000, the remaining amount goes back to be budgeted by the ULAR WASC. If the final product is over \$300,000, the additional amount will be funded by the Districts' program funding under the Safe Clean Water Program (SCWP).

Ms. Teresa Villegas asked if there will be updates to the Committee on the TRP costs, and Mr. Frary affirmed that the watershed coordinator will provide this update. The quarterly reporting is intended for infrastructure project (IP) and TRP progress. At future WASC meetings, this will be standard update items, such as who the District has interacted with, any questions, challenges, opportunities, and justifications for why it was less or more expensive than the \$300,000 placeholder.

Mr. Paul Liu asked how it affects TRP project applicants that have already presented and provided an estimate. Mr. Frary said that the amount is just a reference point, and committee is to look at whether or not the TRP is worthy of investment for the ULAR, where if it is, Committee can decide to budget up to \$300,000. The District will continue to share the TRP costs that the District or District consultant comes up with. All projects submitted to the TRP are in different levels of completion.

Mr. Nahai asked how the \$300,000 placeholder was produced, and that Mr. Caluag had previously stated that this number was based on District experience. Mr. Frary stated that stakeholders here have done similar work, and that the nineteen general requirements for a complete feasibility study to be submitted to the IP needs to be done for small and large projects.

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Mr. Gary Hildebrand appreciated the explanation from the District, and that he is comfortable using the \$300,000 placeholder. However, Mr. Hildebrand also said that there are only so many studies we can approve with the TRP budget for the ULAR WASC, and that if the Committee uses the \$300,000 placeholder, it will limit the number of TRPs the Committee can approve. Mr. Frary said yes and that he does not expect many of the feasibility studies to be cheaper than \$300,000.

Mr. Caluag pointed out one of the handouts "Overview of Scored Projects for WASC Consideration", which was produced with the results from the SC, and referred to Attachment E which shows the scores of the projects and funding details per year. This information can help with formulating the 5-year SIP. Mr. Caluag said that some of the projects did not provide sufficient information to be scored. On February 18, 2020 the SC will meet and reevaluate these projects again.

Mr. Caluag also pointed out the Scoring Rubric handout that shows the items that the Scoring Committee was looking for when scoring the projects, and then referred to a third hand out, WASC Review Sheet, stating that the Committee may choose to use this when evaluating a project.

Mr. Nahai asked if the SC is aware that all presentations have still not been made, and Mr. Caluag stated that the SC is aware, and that the SIP development will allow the committee to ask further questions about each project.

Ms. Veronica Padilla-Campos asked if the Committee can ask the presenters questions from the SC notes, and Mr. Caluag affirmed that this can occur.

Ms. Villegas asked if the website includes all the SC members. Mr. Caluag said the SC members are listed in the SCW Program website, in addition to all the WASC and Regional Oversight Committee (ROC) members. Ms. Villegas expressed concern that not everyone on the SC is technical, and that projects that are scored low before they give their presentations will already have an inference of not being a good project. Mr. Caluag said that the score is meant to demonstrate the projects to the WASC that passed the minimum 60-point score threshold and that the WASC ultimately decides which projects go into the SIP. Mr. Frary added that it is recommended that the Committee should consider all low-scoring projects (e.g., 64-point project) and all higher-scoring projects (e.g., 94-point project) equally for consideration to be included in the SIP. Mr. Nahai recommended to the Committee to keep all meeting handouts provided by the District, all presentation materials and all notes/evaluations of each project presentation.

Mr. Nahai asked how the Committee is supposed to interpret the SC's methodology in scoring and issuing a passing score. Mr. Frary said some of the notes are just sharing the thoughts that are available for each WASC's consideration. The notes are for the Committee to decide whether it is important or not when evaluating a project for SIP consideration.

4. Public Comment Period

No public comments.



5. Discussion Items

a) Ex Parte Communication Guidelines

Mr. Frary said he wanted to clarify the Ex Parte Communication Guidelines for the Committee because there are a large number of stakeholders and members that span across various watershed boundaries. The goal of the Ex Parte Communication Guidelines is to promote the SCW Program's goals of transparency and inclusivity, using these existing public platforms to share information that might be pertinent in the decision-making process.

Mr. Yazdan Emrani relayed a message from the Director of Public Works (Director) from the City of South Pasadena. The Director expressed his concerns for two special studies and funding, with wanting to know if the funding would come out of the scientific studies allocation, or from the TRP allocation. The Director also expressed concern if any of the South Pasadena municipal funds would be impacted. Mr. Nahai said that in the future the committee should encourage other agencies to come to the WASC meetings and disclose any concerns.

Mr. John Luker offered to recuse himself from the discussions for a project for an earlier discussion disclosed in the previous meeting. Mr. Frary and Mr. Nahai agreed that it is not necessary to recuse. Mr. Luker later forwarded the email correspondence with the Offices of District 5 to the District, which can be found as an attachment along with the Oro Vista Local Area Urban Flow Management Project presentation. Mr. Nahai reminded the WASC members to disclose any and all project information and discussions. Mr. Alfredo Magallanes disclosed that the first IP presentation scheduled today (item 5.b.i.1 below) was under his supervision.

b) Presentations:

i) Infrastructure Program (IP)

(1) Oro Vista Local Area Urban Flow Management Project

Presentation by Phuoc Le (Watershed Protection Program, LASAN, City of Los Angeles). This project in the Sunland Tujunga area of Los Angeles includes Best Management Practices (BMPs) designed to capture, treat and percolate runoff from an 85th percentile, 24-hour storm event using three types of BMPs; 6 single and 8 double drywells, 4300 SF of infiltration planters and 12,000 SF of pervious concrete sidewalks. (22.4 AF/yr.)

Mr. Paul Liu asked for clarification on the Water Benefits. One slide listed 22 acre-feet (AF) can be captured, which is more than the required 85th percentile of water from the SCW Program, but another slide listed 40 AF. Mr. Phuoc Lee stated that 22 AF are attributed to only wet-weather conditions, and that the 40 AF is a year-round number.

Mr. Hildebrand asked for clarification on the \$10 million requested funds shown on one slide, but that another slide showed that the project will receive 25-percent from Los Angeles Department of Water and Power (LADWP) funding and 75-percent from SCW Funding. Mr. Magallanes said that ongoing discussions with LADWP will need to continue and develop for the 25-percent leveraged funding.

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Ms. Villegas asked for clarification on the Scoring Rubric from SC, to help reconcile numbers this project is showing vs. no water supply points allocated. A member of the public said projects have to meet a specific amount of water supplied to get a score.

Mr. John Luker asked what happens after each dry well meets its 50-year lifespan. Mr. Le said at that point, the drywell will need to be removed and replaced.

Ms. Padilla-Campos asked about outreach/community involvement and whether the project has support. Mr. Le said councilmember for this district is very supportive of this project. This project is located in a mostly commercial/industrial area, with a nearby school and church, which are generally supportive of the project. He said once the project moves forward, further outreach will be conducted.

Mr. Nahai asked about the cost breakdown (\$7 million this year and \$4 million next year; this is more than \$10.5 MIL). A member of the public said yes, \$7 million is what is being requested now, and that the future requests will need to be modified accordingly.

Mr. Ernesto Pantoja asked what happens in a scenario where the WASC where to award this project \$7 million and down the line, LADWP approves the 25 percent leveraged funding. Mr. Pantoja further asked if SCW funds could be restored to the IP funding source. Mr. Nahai said the Committee can only review and consider what is put before us, and also recommended to the City of Los Angeles to scale back the SCW funding request.

Mr. Paul Alva asked if the operation and maintenance (O&M) of the project is being asked for in the next five years. Mr. Le said they are requesting O&M funds starting in April 2024.

The committee decided to take a break at this time.

(2) Franklin D. Roosevelt Park Regional Stormwater Capture Project

Presentation by Mackenzie Domann (LA County Public Works). The Franklin D. Roosevelt Park Regional Stormwater Capture Project will divert stormwater and urban runoff from the existing storm drain into two infiltration galleries in Roosevelt Park and three infiltration wells along Whitsett Avenue. The project also incorporates new above ground improvements including a new turf soccer field, a healthy court, education garden, and picnic area.

Mr. Patrick DeChellis asked if this project is already under construction, that the project is already funded. Ms. Domann stated that the project is fully funded and that with past projects which have received grant funding, we have been able to reallocate L.A County general funds to other projects. This project would function the same way if awarded SCW funding.

Mr. DeChellis then said to come back and request funding for future projects that are not fully funded. Ms. Domann said that MS4 permit compliance has an astronomical price tag in the billions of dollars.

Mr. Pantoja asked about why artificial turf was proposed. Ms. Domann said the community pushed for artificial turf.

Ms. Padilla-Campos asked if the project has support letters from the community. Ms. Domann said there are no support letters, but that they may have meeting minutes from community meetings.

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Mr. Ackley Padilla made a general comment about disadvantaged communities (DAC) and questioned what happens to their investment and how they are inadvertently being taxed twice and that the DACs should be getting an added investment. He said that the committee needs to look critically at projects and their benefits to DACs. He stated that he was not referring to the Roosevelt Project which he believed was a great candidate for SCW but had concerns about other projects not in DAC areas.

Mr. Nahai asked for clarification on where the remaining funding was coming from outside of the Prop 84 grant and the potential SCW funding. Ms. Domann said the funding comes from the LA County General Fund.

(3) Walnut Park Pocket Park Project

Presentation by Joe Venzon (LA County Public Works). The Walnut Park Pocket Park Project is centered around the construction of a brandnew park in the unincorporated community of Walnut Park. The project will divert both stormwater and urban runoff from the surrounding area into infiltration drywells located beneath the park, and will incorporate above ground improvements including landscaping, social gathering spaces, walking paths, and exercise equipment.

Mr. Pat DeChellis asked who owns the vacant parcel. Mr. Joe Venzon said Los Angeles County purchased it recently.

ii) Technical Resources Program (TRP)

(1) Pasadena Unified School District Campus Green Infrastructure Development Project

Presentation by Claire Robinson (Managing Director, Amigos de los Rios). Project Concept will retrofit three PUSD Schools of different scales: a high school, a middle school and an elementary school. Projects seek to manage stormwater by increased capture, filtering and infiltration through a natural systems approach focused on community-based design of green infrastructure.

Mr. Hildebrand appreciates this project. He asked about whether the project will handle just runoff from the school footprint, or also take in upstream runoff. Ms. Robinson said she believes the project can capture a lot of water from Altadena streets, and that the TRP will help us see where opportunities are to take stormwater from other areas.

Mr. Liu asked about the costs (\$3 million total, and \$300,000 for feasibility study). Ms. Robinson said the feasibility study estimate is based on other projects, and that her team cannot answer the 19 feasibility requirements, so TRP is in place to do this.

Mr. Alva would like updates on the elementary school, appreciates this work, and he asked if Ms. Robinson knows if any neighboring schools were scheduled to be shut down. Ms. Robinson said no nearby schools will be closing, and that Jackson's and Muir are close enough that the TRP may be able to look at both schools.

Mr. Nahai asked that if everything goes well with the feasibility study, does this project plan to come back and try to get money from the SCW program. Ms. Robinson said as a non-profit, they are constantly looking for grants, including the SCW program.

iii) Scientific Studies Program (SS)

- (1) None

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6. Break

Break was taken after 5.b.i.1.

7. Voting Items

- a) None

8. Items for next agenda

Mr. Caluag announced that this is a standing agenda item and for the Committee to consider that the reminding presentations are scheduled during the next two WASC meetings.

Mr. Nahai asked about the future meetings. Mr. Caluag said that there are two meetings in March and that the Committee may want to consider a third meeting in March to have more than one WASC meeting to discuss the SIP. Mr. Nahai agreed and told the Committee to possibly expect a third meeting in March.

9. Adjournment

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

Next Meeting: Monday, February 24, 2020, 3:00pm – 5:00pm
LA County Public Works Headquarters, Conference Room B
900 S. Fremont Avenue, Alhambra, CA

Future Meeting Dates and Times:

Monday, March 2, 2020, 2:00pm – 4:00pm (LA County Public Works Headquarters, Conference Room A)

Thursday, March 12, 10:00am – 12:00pm (LA County Public Works Headquarters, Conference Room C)

Thursday, March 26, 2:00pm – 4:00pm (Media Center, Training Room A/B, 2714 Media Center Drive, Los Angeles, CA 90065)

Presentation timeslots held for February 24th:

- Infrastructure Program
 - Echo Park Lake Rehabilitation (City of Los Angeles, Bureau of Sanitation)
 - Fernangeles Park Stormwater Capture Project (LADWP)
 - Strathern Park North Stormwater Capture Project (LADWP)
 - Valley Village Park Stormwater Capture Project (LADWP)

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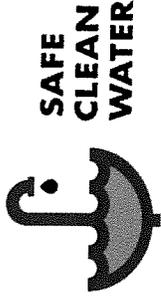


- Technical Resources Program
 - Green Street Demonstration Project on Main Street (City of Alhambra)
- Scientific Studies Program
 - Coordinated Safe Clean Watershed Plans (City of Los Angeles)

Presentation timeslots held for March 2nd:

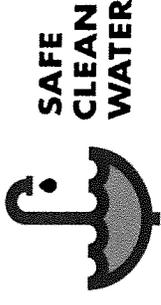
- Infrastructure Program
 - Lankershim Boulevard Local Area Urban Flow Management Network Project (City of Los Angeles, Bureau of Sanitation)
 - Active Transportation Rail to River Corridor Project - Segment A (Los Angeles Metropolitan Transit Authority)
 - City of San Fernando Regional Park Infiltration Project (City of San Fernando)
 - The Distributed Drywell System Project (City of Glendale)
 - Rory M. Shaw Wetlands Park Project (Los Angeles County Flood Control District)
- Technical Resources Program
 - None
- Scientific Studies Program
 - None

Upper Los Angeles River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address	Signature
Gary Hildebrand	FCD	garyisah@gmail.com	
Genevieve Osmena	FCD	gosmena@dpw.lacounty.gov	
Paul Liu	Los Angeles Department of Water and Power	paul.liu@ladwp.com	
Rafael Villegas	Los Angeles Department of Water and Power	Rafael.Villegas@ladwp.com	
Cathie Santo Domingo	Los Angeles Recreation & Parks	cathie.santodomingo@lacity.org	
Javier Solis	Los Angeles Recreation & Parks	javier.solis@lacity.org	
Alfredo Magallanes	Los Angeles - Sanitation	alfredo.magallanes@lacity.org	
Ariel Flores	LA Sanitation and Environment	ariel.flores@lacity.org	
Delon Kwan	Los Angeles Department of Water and Power	delon.kwan@ladwp.com	
Art Castro	Los Angeles Department of Water and Power	art.castro@ladwp.com	
Ernesto Pantoja	Laborers Local 300	ernesto.pantoja@gmail.com	
Sergio Rascon	Laborers Local 300	srascon@local300.com	
Miguel Luna	Urban Semilla DakeLuna Consultants	miguel@dakeluna.com	
David Nahai	Lewis, Brisbois, Bisgaard & Smith	dn@davidnahai.com ; lr@davidnahai.com	
Jacob Lipa	Lipa Consulting Company	jacob@lipaconsulting.com	

Upper Los Angeles River
 Watershed Area Steering Committee Meeting
 COMMITTEE MEMBER AND ALTERNATE SIGN-IN

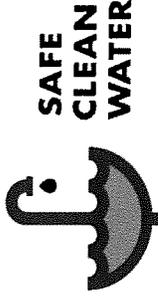


Member Name	Municipality/ Organization	Email Address	Signature
Veronica Padilla-Campos	Pacoima Beautiful	vpadilla@pacoimabeautiful.org	
Felipe Escobar	Pacoima Beautiful	fescobar@pacoimabeautiful.org	
John Luker	Santa Susana Mountain Park Association	jcluker2@yahoo.com	
Wendi Gladstone <i>The Lorax</i>	Santa Susana Mountain Park Association	ssmpawendi@gmail.com	
Yazdan Emrani	Glendale	YEmrani@Glendaleca.gov	
Chris Chew	Glendale	CChew@Glendaleca.gov	
Patrick DeChellis	La Canada Flintridge	pdechellis@lcf.ca.gov	
Barbara Romero	City of Los Angeles	barbara.romero@lacity.org; riki.esquer@lacity.org	
Teresa Villegas	Los Angeles	teresa.villegas@lacity.org	
Ackley Padilla	Los Angeles	ackley.padilla@lacity.org	
Jeff Camp	Los Angeles	jeff.camp@lacity.org	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	
Mark Lombos	Los Angeles County	MLOMBOS@dpw.lacounty.gov	
TJ Moon	Los Angeles County	TMOON@dpw.lacounty.gov	
Kris Markarian	Pasadena	kmarkarian@cityofpasadena.net	

Upper Los Angeles River

Watershed Area Steering Committee Meeting

COMMITTEE MEMBER AND ALTERNATE SIGN-IN

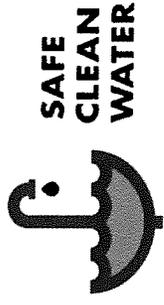


Member Name	Municipality/ Organization	Email Address	Signature
Sean Singletary	Pasadena	ssingletary@cityofpasadena.net	A
Brent Malle	Pasadena	bmaue@cityofpasadena.net	
Joe Vonzon	County		
Dawn Petschauer	LASAN	dawn.petschauer@lucity.org	
Thuan Nguyen	County		
Louis Romero	County	lorome@spwv.com	

Upper Los Angeles River

Watershed Area Steering Committee Meeting

PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
Katie	Mika	City CA	kathryn.mika@cityca.org
Susie	Santilena	City of LA	susie.santilena@cityofla.org
Phuoc	LE	"	phuoc.le@cityofla.org
Mik	Bapua	CWE	vbapua@awe.org
Peter	Ton that	LADWP	peter.tonthat@ladwp.com
HUGO	GARCIA	JLHA	HGARCIA@JLHA.NET
Bronwyn	Kelly	Carollo	bkelly@carollo.com
Conor	Mossavi	LADWP	conor.mossavi@ladwp.com
CHRISTIAN	HERNANDEZ	CORDOBAS COOP	CHRISTIAN.HERNANDEZ@CORDOBAS.COOP
Samantha	Matthews	SGV COG	samthens@sgvcog.org
CLAUDE	Robinson	Amigos de los Rios	claive.samiyos@delosrios.org
Ariella	Pallin		ariella@amigosdelosrios.org
Kimberly	Henry	Wood	
Juliana	Lee	South Pasadena	jlee@southpasadena.gov
EUGEN	ARAUJENDA	Comun Fu Watershed	huan@comunfuwatershed.org

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

Oro Vista Local Area Urban Flow Management Network



Funding Requested : \$10,590,600

Presented by: Phuoc Le, P.E.



Storm Animation

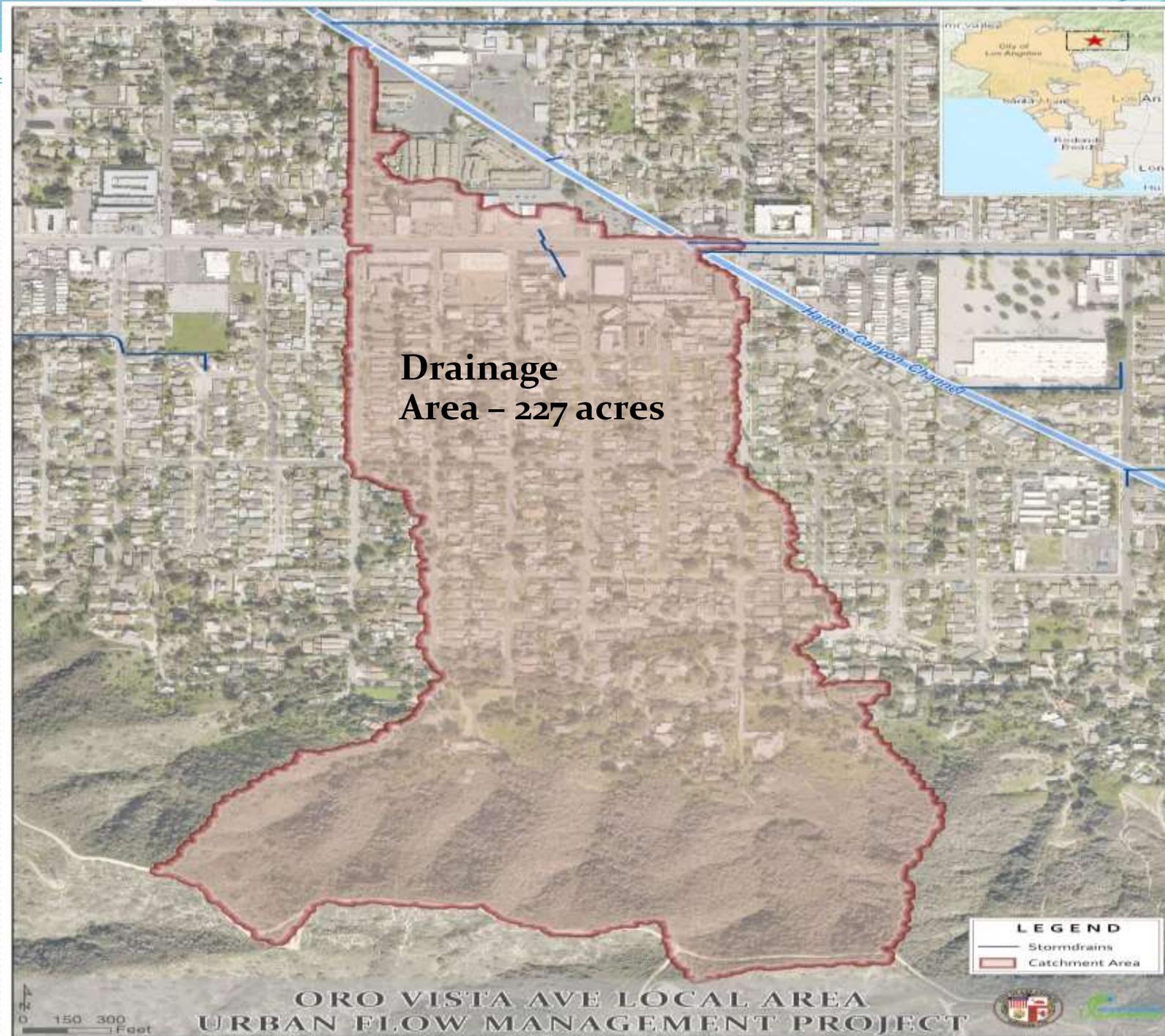


Project Overview

- **Location:** Along Oro Vista Avenue from Hillrose Street to Wyngate
 - The area was identified and recommended for implementation in ULAR EWMP
 - Total Drainage Area – 227 acres
- Yearly Volume Capture – 22.4 AF

Project Goals/Objective

- Improve water quality
 - Remove pollutants affecting local water bodies by capturing, treating, and infiltrating stormwater runoff
 - Increase water supply
 - Modernize storm water infrastructure
 - Provide pedestrian and vehicular safety
 - Alleviate localized flooding
- ❖ The proposed project will use Best Management Practices (BMPs) to capture the 85th percentile, 24-hour storm event, runoff
- ❖ It will treat the water using flow-through infiltration systems
- ❖ It will perform a combination of treat-and-release with water diversion strategies during wet weather conditions

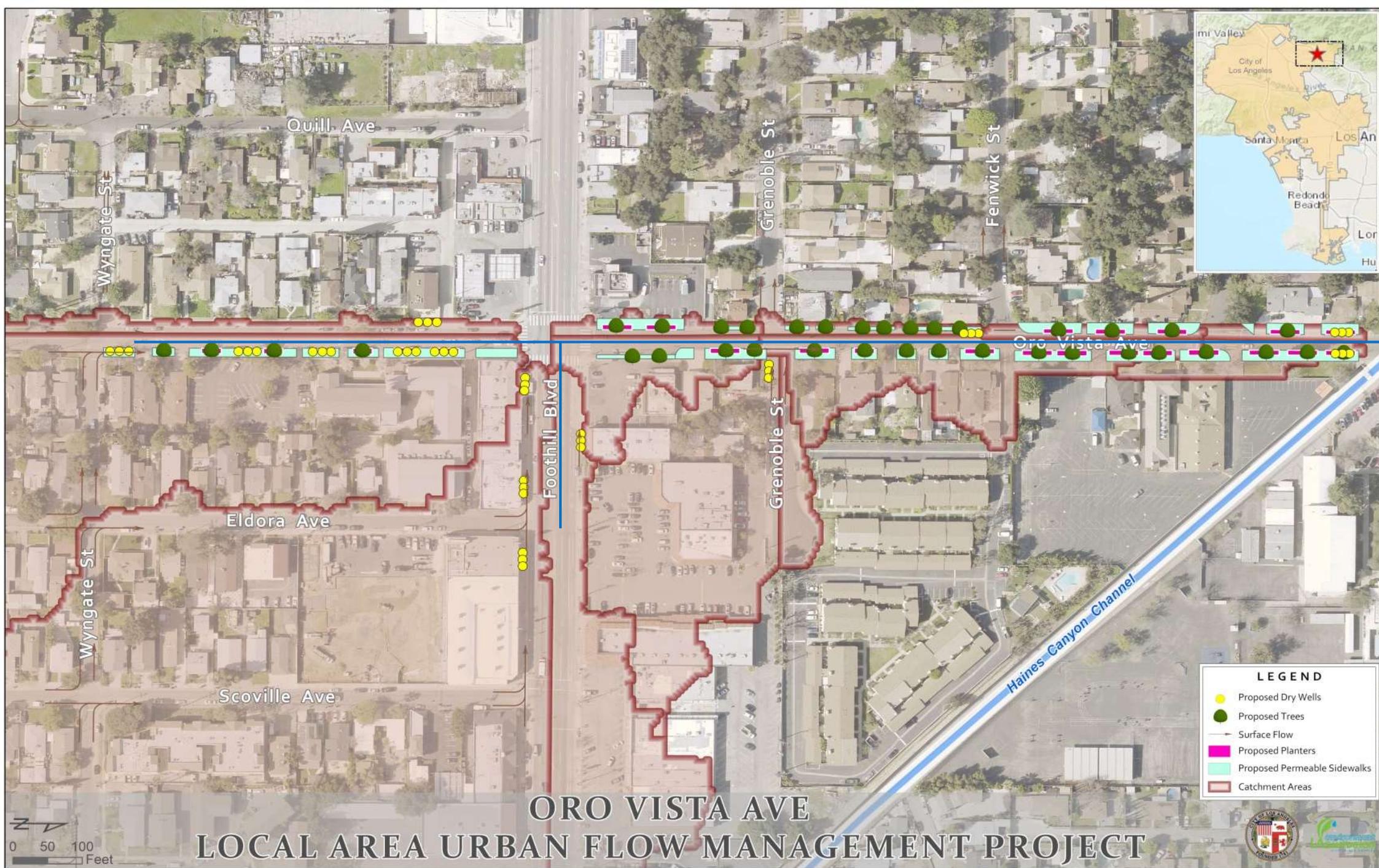


BMPs

- 14 Drywell Systems
- 36 Canopy Trees
- 4300 sq.ft Infiltration Planters
- 12,000 sq. ft Permeable Sidewalk
- 13 catch basins with diversion structures

Storm Drain Network

- 1400 ft of 57 to 66-inch RCP Pipe



Oro Vista Local Area Urban Flow Management Network

System Performance for Stormwater and Pollutant Capture

Metric	Stormwater inflow (AF/yr)	Stormwater infiltrated (AF/yr)	Zinc Removed
20-year simulation (1999 – 2018)	55.1	44.2	89.5%
10-year simulation (2009 – 2018)	38.4	29.1	89.5%

- 85th percentile, 24-hour storm event (rainfall depth 1.1”) – produces a total volume of 6.3 AF
- 10-year, 24-hour storm event (rainfall depth 5.4”) – produces a total volume of 50.6 AF

The Oro Vista Project BMPs are designed to capture and infiltrate a total of 22.4 AF of runoff in 24 hours

- The Project BMPs captures and infiltrate 100% of stormwater volume during an 85th percentile, 24-hour storm event
- The Project BMPs capture and infiltrate 38% of the total 10-year, 24-hour storm water volume.
- Exceed the ULAR EWMP Implementation Plan BMP Compliance Targets of 4.4 AF

Oro Vista Local Area Urban Flow Management Network

Safe, Clean Water Benefits

WET WEATHER WATER QUALITY BENEFITS



50 Pts

SIGNIFICANT WATER SUPPLY BENEFITS



2 Pts

NATURE BASED SOLUTIONS

Infiltration Planters
Add Urban Greening
and Heat Island Effect.
This Project Contains
Approximately



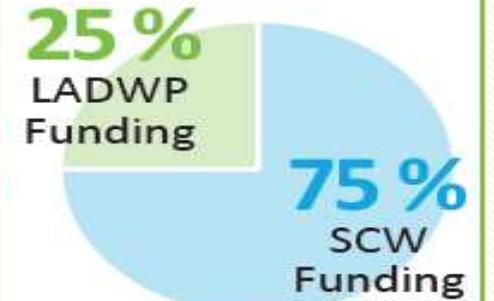
11 Pts

COMMUNITY BENEFITS



5 Pts

LEVERAGING FUNDS AND COMMUNITY SUPPORT



7 Pts

Oro Vista Local Area Urban Flow Management Network

Before



After



Social and Community Benefits

- ❑ Reduce heat island effect and improve air quality
- ❑ Increase shade trees and other vegetation
- ❑ Improve storm flow management
- ❑ Provide pedestrian and vehicular safety

Oro Vista Local Area Urban Flow Management Network

Schedule

Milestone	Anticipated Completion Date
Design	November 2022
Permitting	January 2023
Start Construction	February 2023
Complete Construction	April 2024
Start O&M	April 2024

Oro Vista Local Area Urban Flow Management Network

Project Budget

Estimated Project Expenses	
Planning and Design	\$1,471,850
Estimated Construction	\$9,118,750
Total Estimated Expenses	\$10,590,600

Annual Cost Breakdown	
Annual Maintenance Cost	\$82,400
Annual Operation Cost	\$ N/A
Annual Monitoring Cost	\$ N/A
Annual Costs (50-year Life Span)	\$82,400

Contact

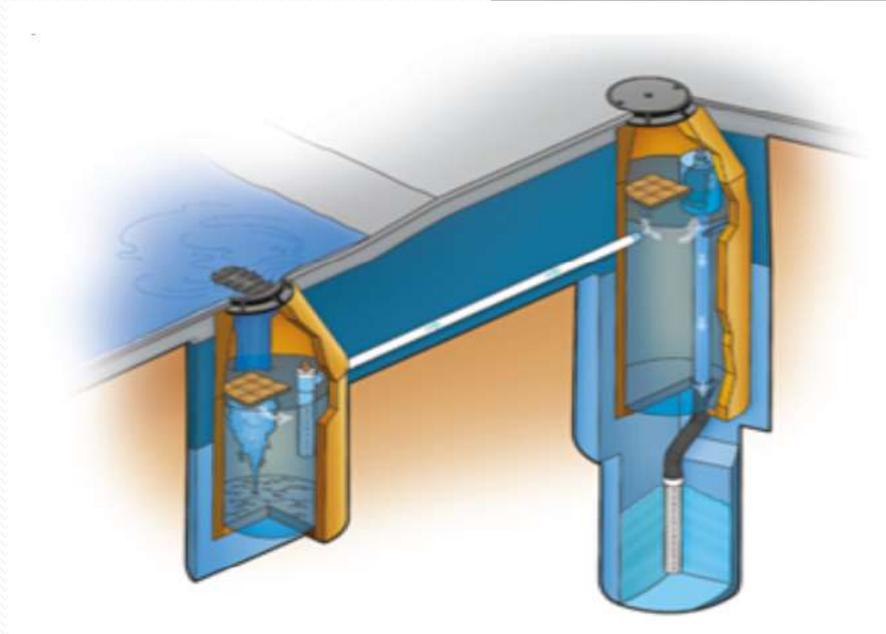
City of Los Angeles,
LASAN and Environment
Phuoc Le, P.E.
Environmental Engineer
Phuoc.le@lacity.org
(213) 485-3931

**THANK
YOU**



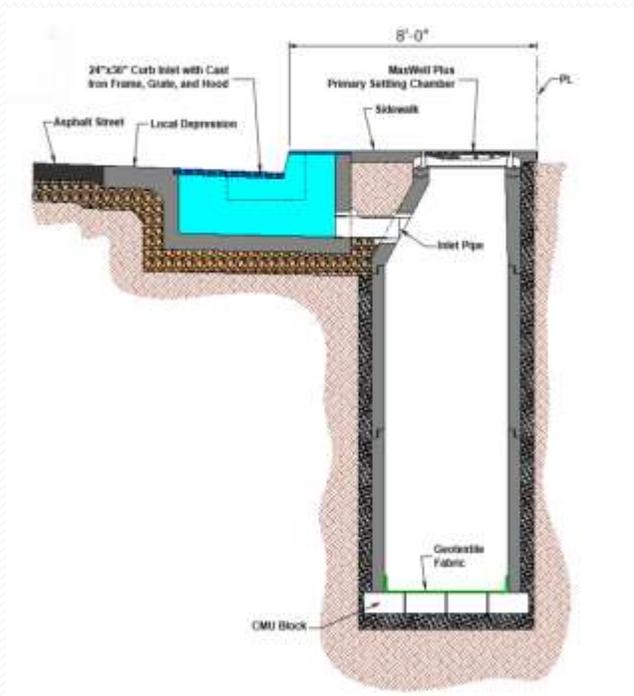
Scope – BMP Features

- High Efficiency drywell systems
- Street Trees
- Permeable Sidewalk
- Drought-tolerant Landscaping
- Catch Basins with Diversion Structures

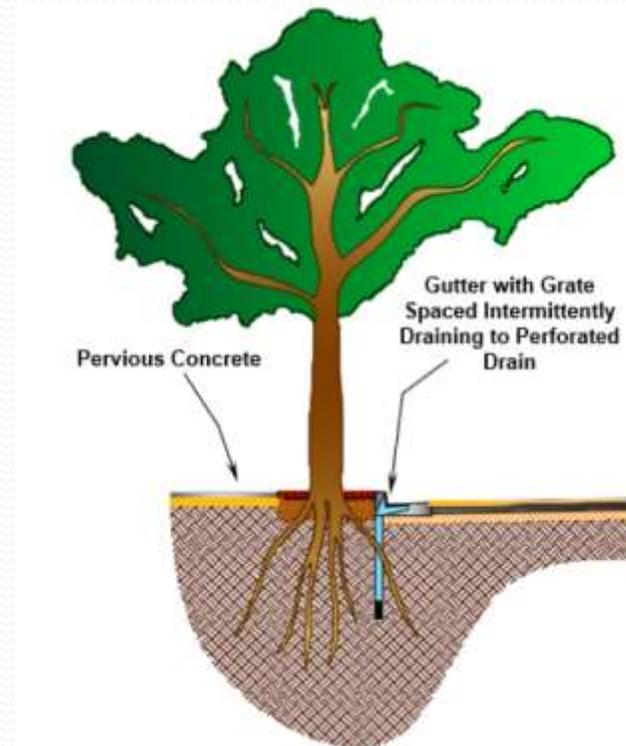


Scope - BMPs

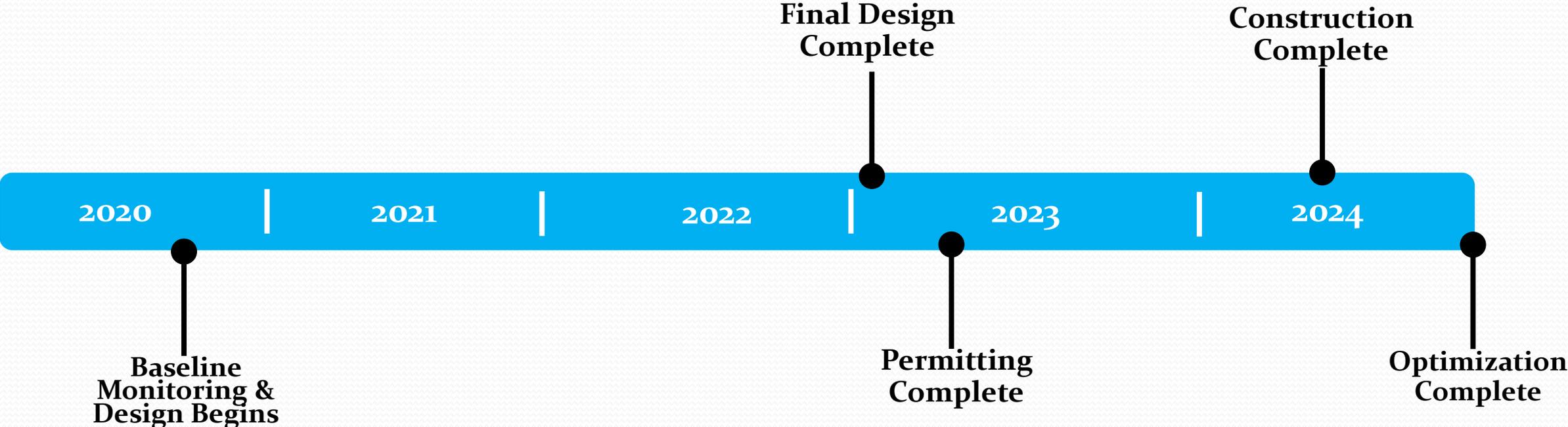
- Curb inlets with grating in the local depressions will be installed as an element in the drywell system to increase the amount of stormwater and runoff water captured



- Street trees are bioretention BMPs that capture and treat stormwater runoff through a variety of physical and biological treatment processes



Schedule



Mayra Cabrera

From: CJ Caluag
Sent: Monday, February 10, 2020 2:20 PM
To: Mayra Cabrera
Subject: FW: Oro Vista - Measure W Regional Project
Attachments: SKM_C55819121312550.pdf; SKM_C55819121312551.pdf

C.J. Caluag
Associate Civil Engineer
Los Angeles County Public Works
Office: (626) 458-4037

From: Luker II John <jcluker2@yahoo.com>
Sent: Monday, February 10, 2020 10:34 AM
To: CJ Caluag <ccaluag@dpw.lacounty.gov>
Cc: Jerrod DeGonia <jdegonia@lacbos.org>
Subject: Fwd: Oro Vista - Measure W Regional Project

CAUTION: External Email. Proceed Responsibly.

Hi CJ,

Thanks for sending me your email, I was unsure where to send it.

This is what I was sent by the Offices of District 5. I've spoken with Jason Maruca, the Aide who sent them and Jerrod DeGonia, Supervisor Bangers District Director about Ex Party' communications. It won't happen again. I've also CC'd Director DeGonia.

Thank you,
John Luker
Change Everything

818 371-7918

Begin forwarded message:

From: "Maruca, Jason" <JMaruca@bos.lacounty.gov>
Date: January 16, 2020 at 2:29:50 PM PST
To: "jcluker2@yahoo.com" <jcluker2@yahoo.com>
Subject: FW: Oro Vista - Measure W Regional Project

FYI

From: Eve Sinclair <eve.sinclair@lacity.org>
Sent: Thursday, January 9, 2020 8:00 AM

To: Maruca, Jason <JMaruca@bos.lacounty.gov>
Subject: Fwd: Oro Vista - Measure W Regional Project

FYI, info on Measure W submission



**MONICA
RODRIGUEZ**
L.A. CITY COUNCILWOMAN

Eve Sinclair, Area Director
Sunland-Tujunga Office
Councilwoman Monica Rodriguez, 7th District
[7747 Foothill Blvd, Tujunga, CA 91042](http://www.monicarodriguez.org)

Phone: [818-352-3287](tel:818-352-3287) Fax: [818-875-4554](tel:818-875-4554) http://secure-web.cisco.com/1IYTiHvUw0RfebMOCHXPtoRkakaLnlYc2NFwfLILFIFrLIBXQe_j5g8T-2YG2bwyExJtaLpa4Ee1VMlqQQIBHYG7X8okbnlr84lwiAbiiStpXb1U-Ff7nvKuWUT4joHV9CWC0YOPFR_dMlt5G6xxfSke_D9zFmdMU9UsT5VwXcJmsw34Z5iGR8Df_AWOG9nT3z2/http%3A%2F%2Fwww.monicarodriguez.org



----- Forwarded message -----

From: **Eve Sinclair** <eve.sinclair@lacity.org>
Date: Fri, Dec 13, 2019 at 4:23 PM
Subject: Oro Vista - Measure W Regional Project
To: Maruca, Jason <JMaruca@bos.lacounty.gov>

Hello, Jason! Here is info on the regional project that the City of LA is submitting for Measure W funding. Could you take a look at it and let me know how we can best advocate for this project? Thanks for your guidance, as always!!!



**MONICA
RODRIGUEZ**
L.A. CITY COUNCILWOMAN

Eve Sinclair, Area Director
Sunland-Tujunga Office
Councilwoman Monica Rodriguez, 7th District
[7747 Foothill Blvd, Tujunga, CA 91042](http://www.monicarodriguez.org)

Phone: [818-352-3287](tel:818-352-3287) Fax: [818-875-4554](tel:818-875-4554) http://secure-web.cisco.com/1IYTiHvUw0RfebMOCHXPtoRkakaLnlYc2NFwfLILFIFrLIBXQe_j5g8T-2YG2bwyExJtaLpa4Ee1VMlqQQIBHYG7X8okbnlr84lwiAbiiStpXb1U-Ff7nvKuWUT4joHV9CWC0YOPFR_dMlt5G6xxfSke_D9zFmdMU9UsT5VwXcJmsw34Z5iGR8Df_AWOG9nT3z2/http%3A%2F%2Fwww.monicarodriguez.org



Project Description

Located in the Sunland Tujunga area of **Council District 7** includes BMPs designed to capture, treat and percolate runoff from an 85th percentile, 24-hour storm event using 3 types of BMPs; 6 single and 8 double drywells, 4,300 SF of infiltration planters and 12,000 SF of pervious concrete sidewalks. A new 57 to 66-inch diameter reinforced concrete storm drain (1,393 ft) between Foothill Blvd. and the Haynes Canyon Channel will be constructed with 13 new catch basins to capture water from larger rain events and convey it to the channel.

Project Highlights

- Capture and Infiltrate 38.4 acres feet (AF) of stormwater per year (0.04 MGD)
- Removal of bacteria and metals
- Nature Based/BioDiversity: Infiltration planters providing habitat ; removal of pavement providing heat island relief

Project Budget

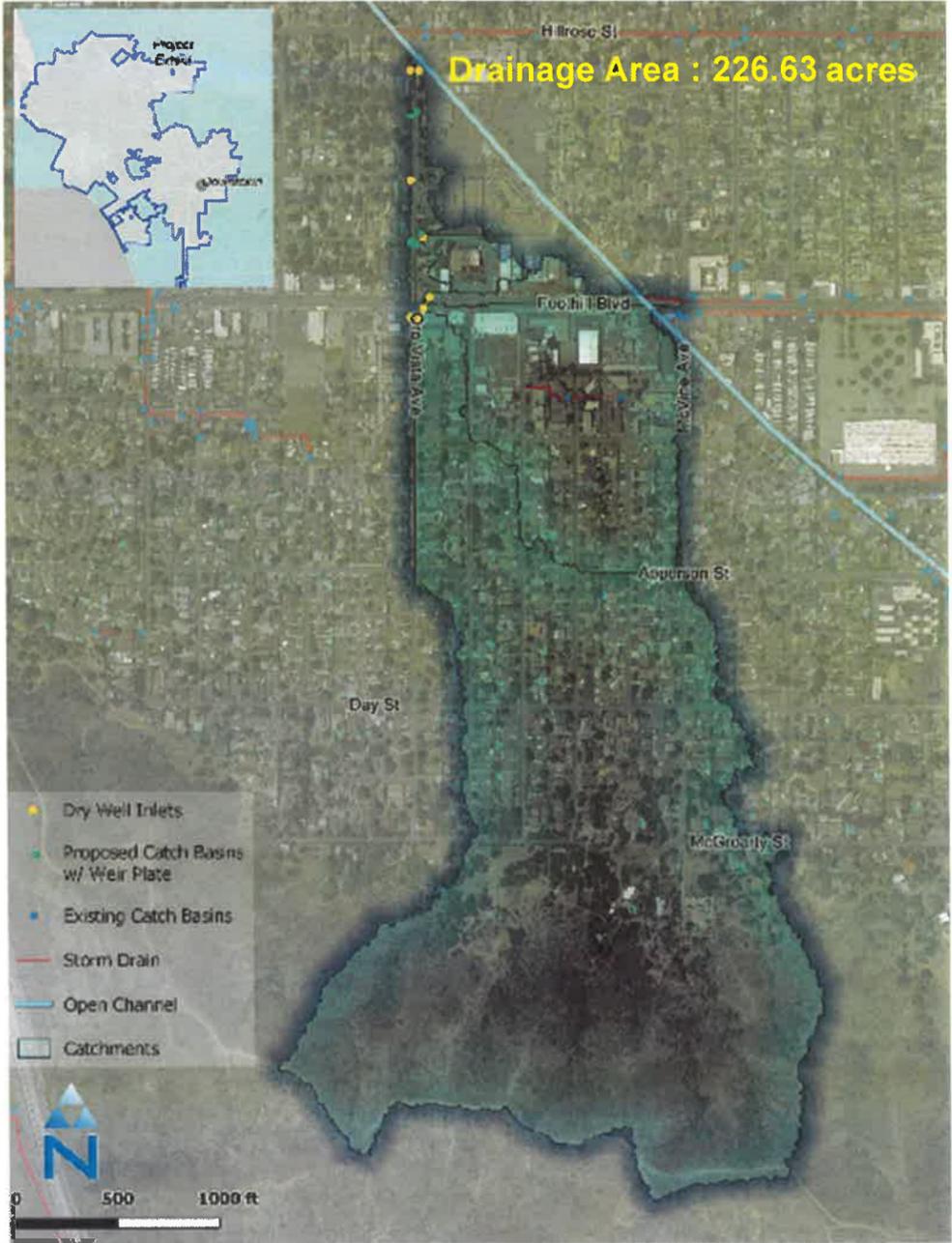
Cost Component	Cost
Soft Cost (Design, Construction Mgmt,	\$6,975,959
Construction Cost	\$7,295,000
Contingency	\$1,459,000
O&M Cost (50 years)	\$82,400
Capital Project Cost Total (50 years)	\$15,812,359

Project Timeline

Project Phase	YEAR 1				YEAR 2				YEAR 3				YEAR 4				YEAR 5			
	Q1	Q2	Q3	Q4																
Baseline Monitoring																				
Design																				
Permitting																				
Construction																				
Utility Relocation																				
Optimization																				

Safe Clean Water (Measure W) Score

Score Criteria	Scoring Standards	Score
Wet + Dry Weather (WW) Water Quality Benefits	WW Best Management Practices (BMPs): Cost Effectiveness (A1.1)	20
	WW BMPs: Water Quality Benefit (A1.2)	30
Significant Water Supply Benefits	Water Supply Cost Effectiveness (B1):	0
	Water Supply Benefit Magnitude (B2):	2
Community Investments Benefits	Distinct Community Investment Benefit (C1):	5
Nature-Based Solutions	Implements a Nature-Based Solution (D1):	11
Leveraging Funds and Community Support	Achieves Cost-Sharing (E1):	3
	Demonstrates strong local, community-based support (E2):	4
Total	Total Points	75



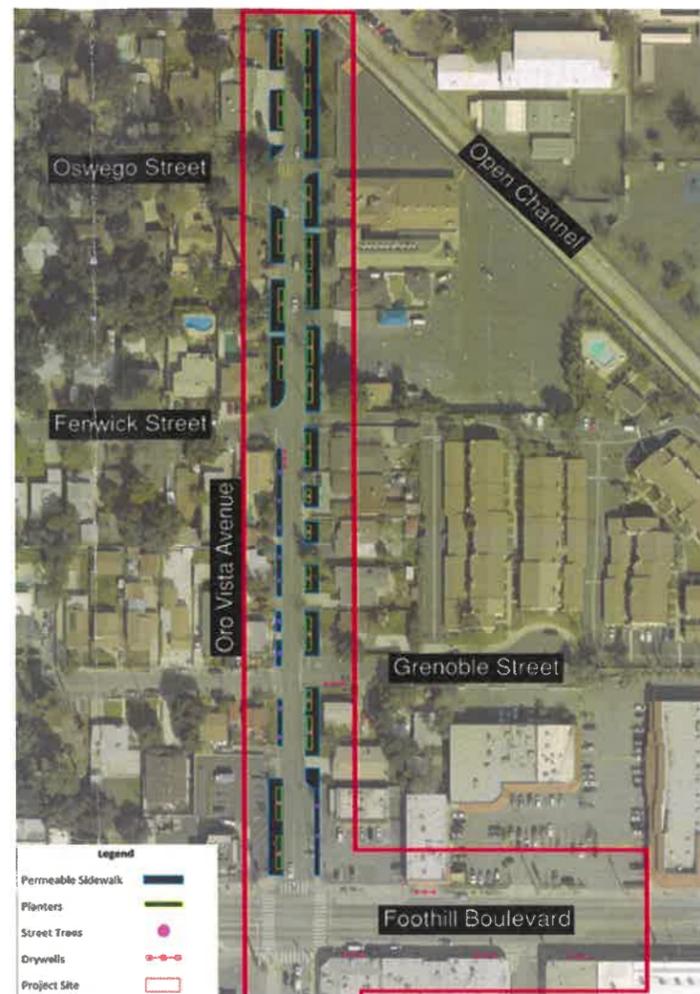
Drainage areas based on coarse desktop analysis. No field verification performed.

Oro Vista Avenue Urban Flow Management Project

Project BMP Layout



BMPs north of Foothill



BMPs south of Foothill



Project Rendering



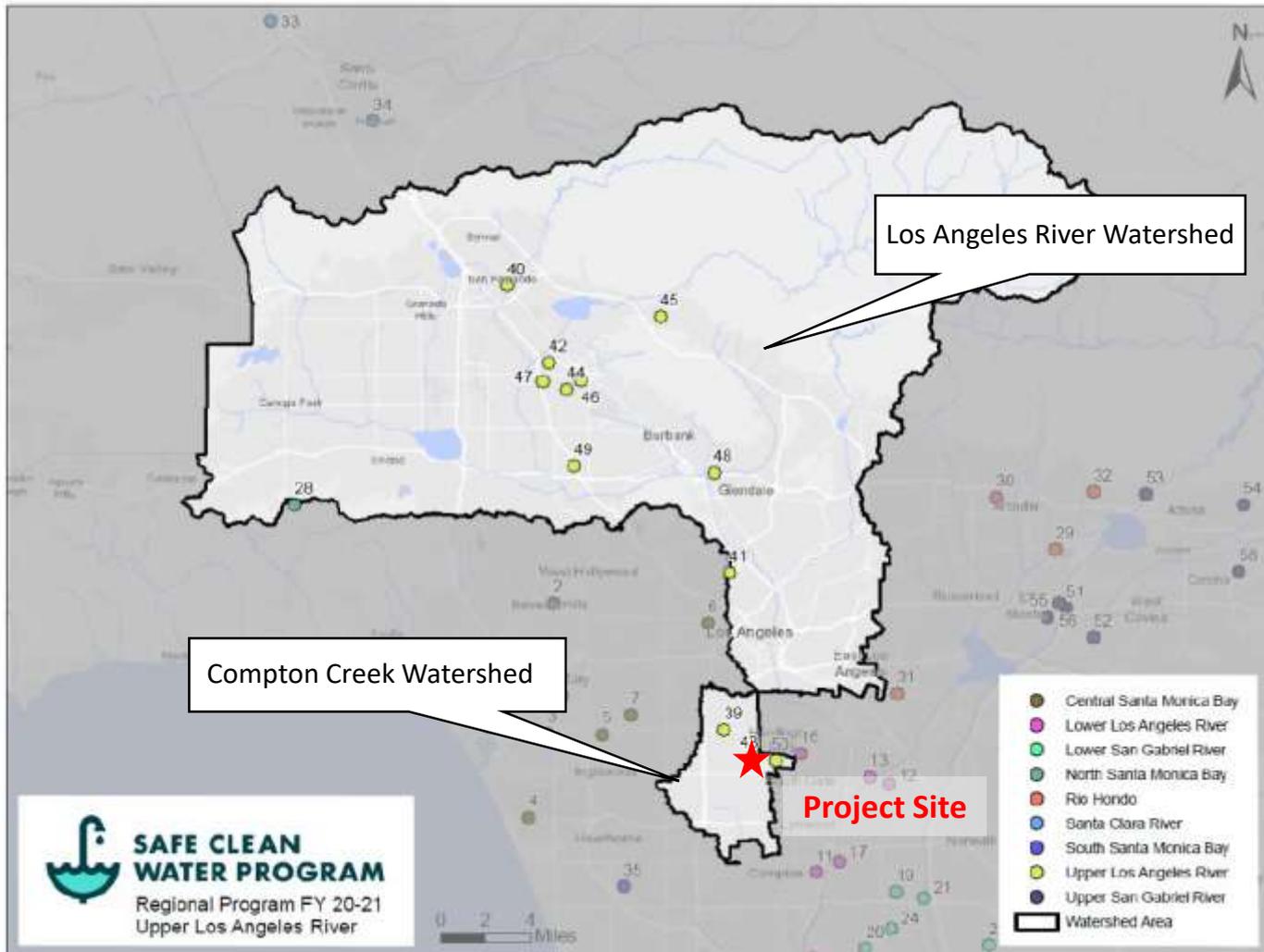


Franklin D. Roosevelt Park Regional Stormwater Capture Project

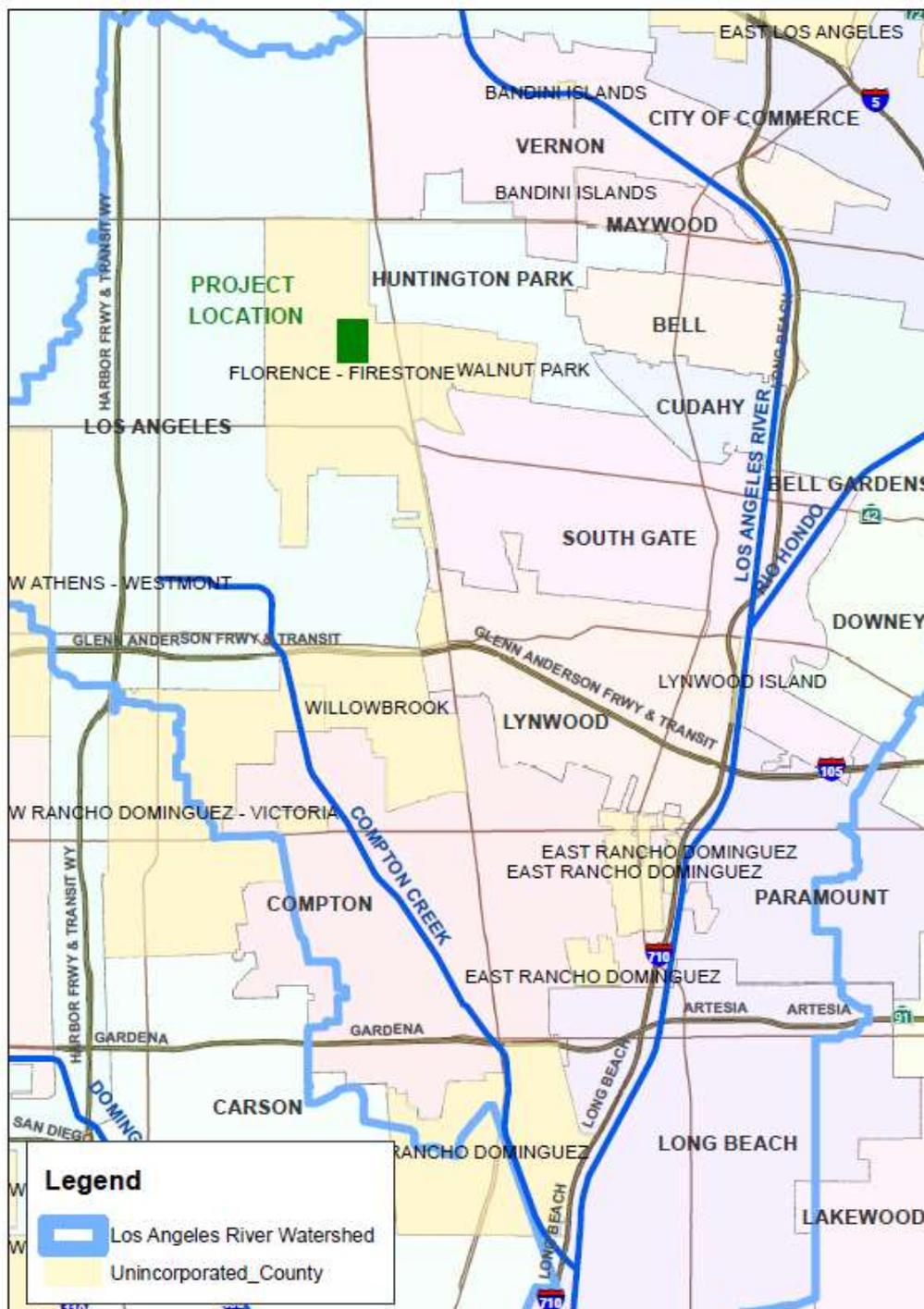
Presented by:

Mackenzie Domann, P.E.
LA County Public Works

Franklin D. Roosevelt Park Regional Stormwater Capture Project



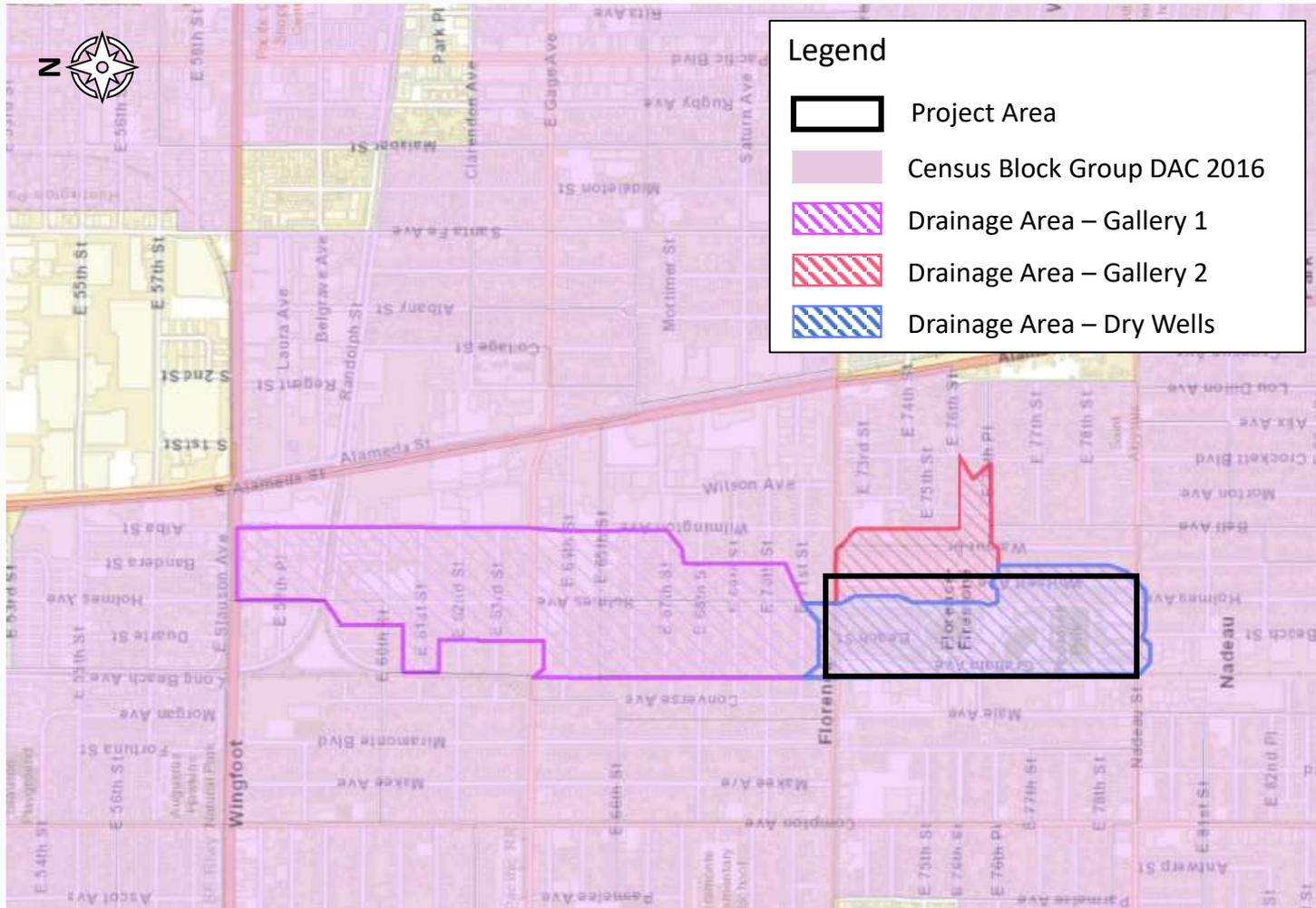
Franklin D. Roosevelt Park Regional Stormwater Capture Project



- Florence-Firestone Community
- Compton Creek Watershed
- Upper Los Angeles River EWMP Signature Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project



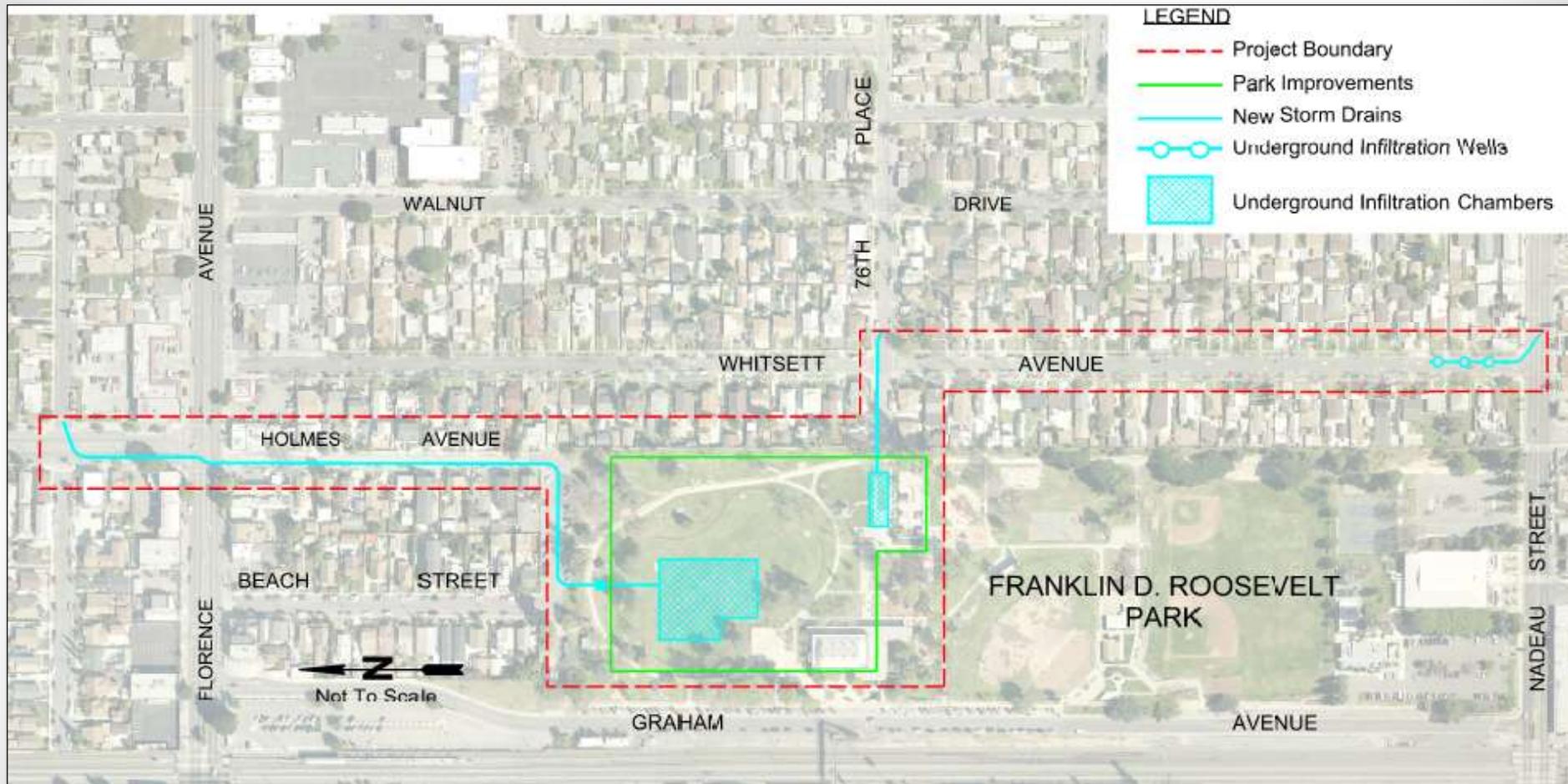
① 123 acre (6.5 ac-ft)

② 25 acre (0.9 ac-ft)

③ 55 acre (1.2 ac-ft)

Total: 203 acre tributary area

Franklin D. Roosevelt Park Regional Stormwater Capture Project



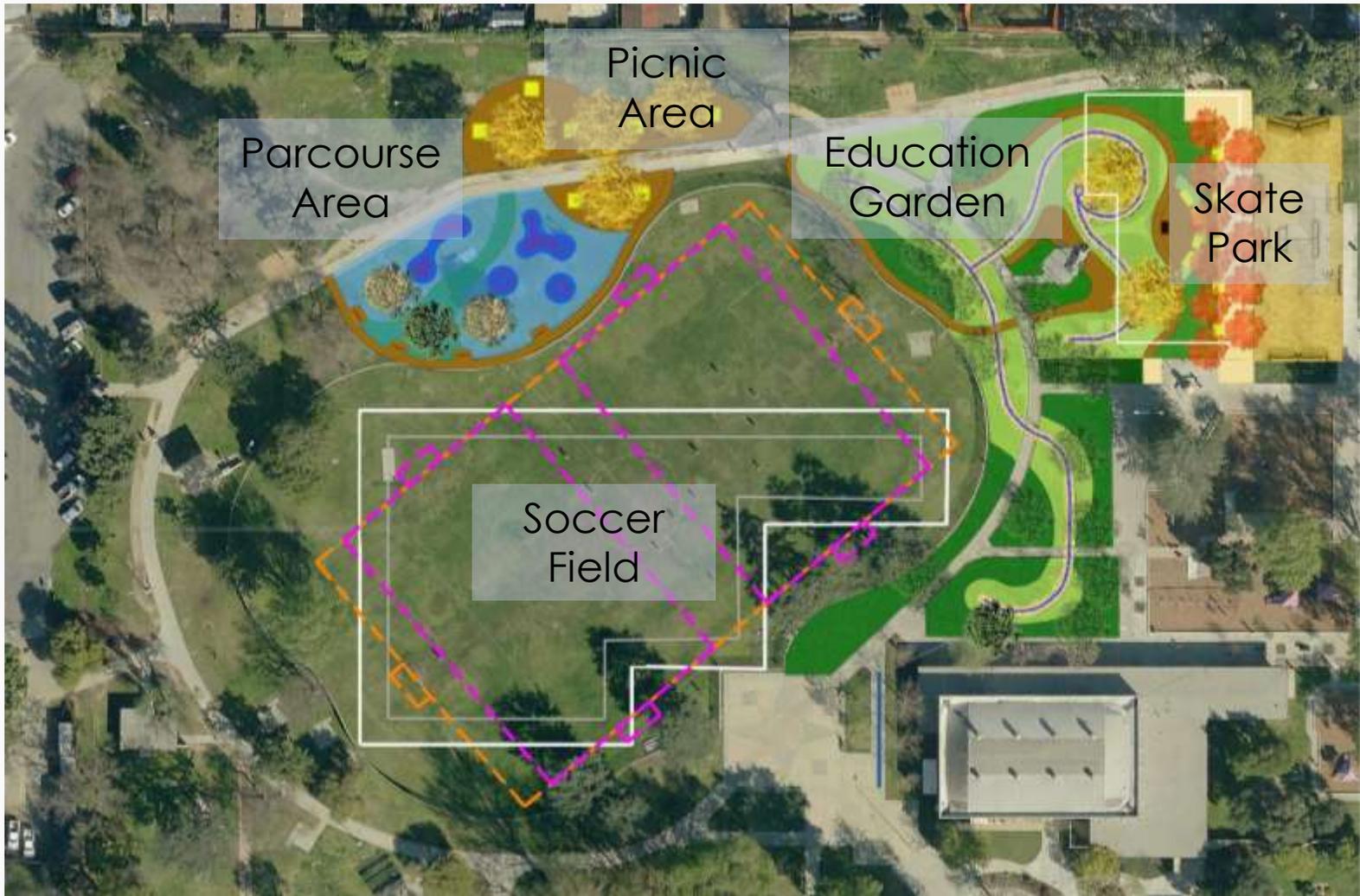
Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project

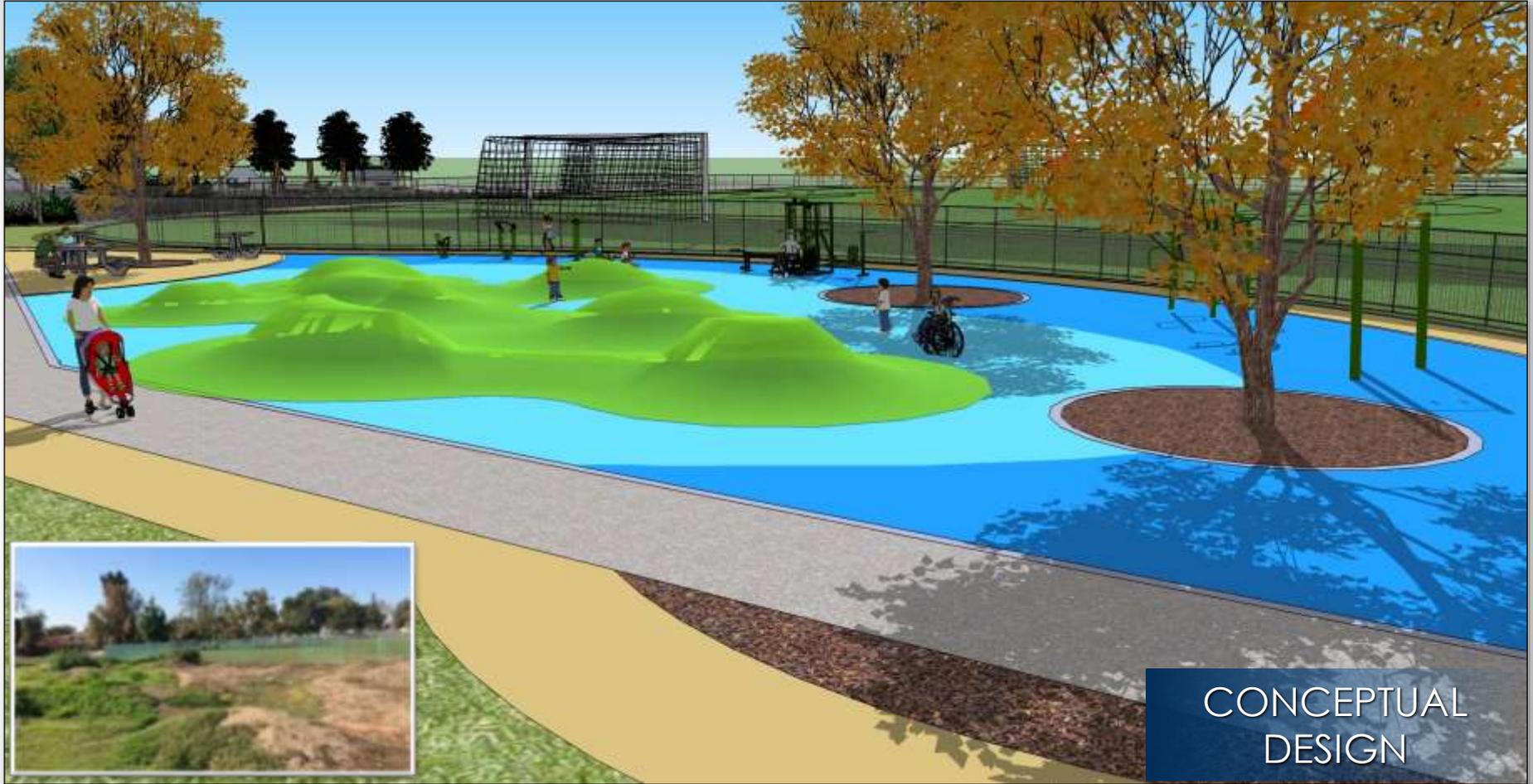


Franklin D. Roosevelt Park Regional Stormwater Capture Project



CONCEPTUAL
DESIGN

Franklin D. Roosevelt Park Regional Stormwater Capture Project



CONCEPTUAL
DESIGN

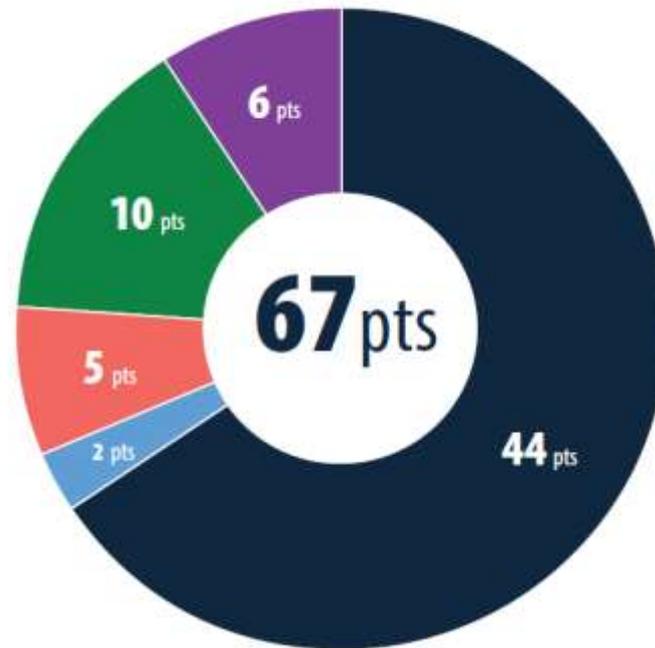
Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project

Safe, Clean Water Program Score

- Water Quality
- Water Supply
- Community Investment
- Nature-Based Solutions
- Funds and Community



Franklin D. Roosevelt Park Regional Stormwater Capture Project



Safe, Clean Water Benefits:

Water Quality

- 203 acre Watershed
 - Zinc
 - Bacteria
 - Trash
- 8.5 AF capacity

Water Supply

- 50 AF / year



Franklin D. Roosevelt Park Regional Stormwater Capture Project

Safe, Clean Water Benefits (Cont'd):

Community Investment

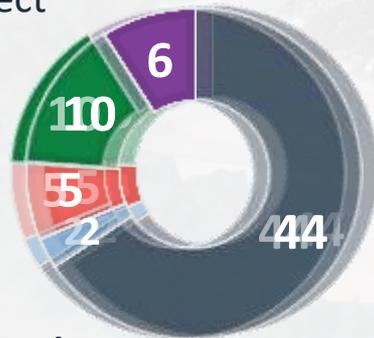
- Improve Flood Management
- Enhance Park/Habitat
- Enhance Recreational Opportunities
- Reduce Heat Island Effect
- Increase Tree Canopy

Nature Based Solutions

- Natural Process
- Natural Materials

Leveraging Funds & Support

- County General Fund
- Prop 84 Grant
- Community Outreach



Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project

Cost and Schedule:

Phase	Cost	Completion
Planning and Design	\$ 2,400,000	February 2018
Construction	\$ 9,600,000	April 2020
Total Project Cost	\$ 12,000,000	

Request	FY
\$4 M	2020-2021

Grant	Amount
Prop 84	\$2.05 M

Franklin D. Roosevelt Park Regional Stormwater Capture Project

Why Fund This Project?

- Meets SCW Eligibility
- No risk of project cost increase
- Safe Clean Water Showcase Project



Franklin D. Roosevelt Park Regional Stormwater Capture Project



County of Los Angeles – Public Works

Mackenzie Domann, P.E.

mdomann@dpw.lacounty.gov

(626) 458-4323



Walnut Park Pocket Park Project

Presented by:

Joseph Venzon, P.E.
LA County Public Works

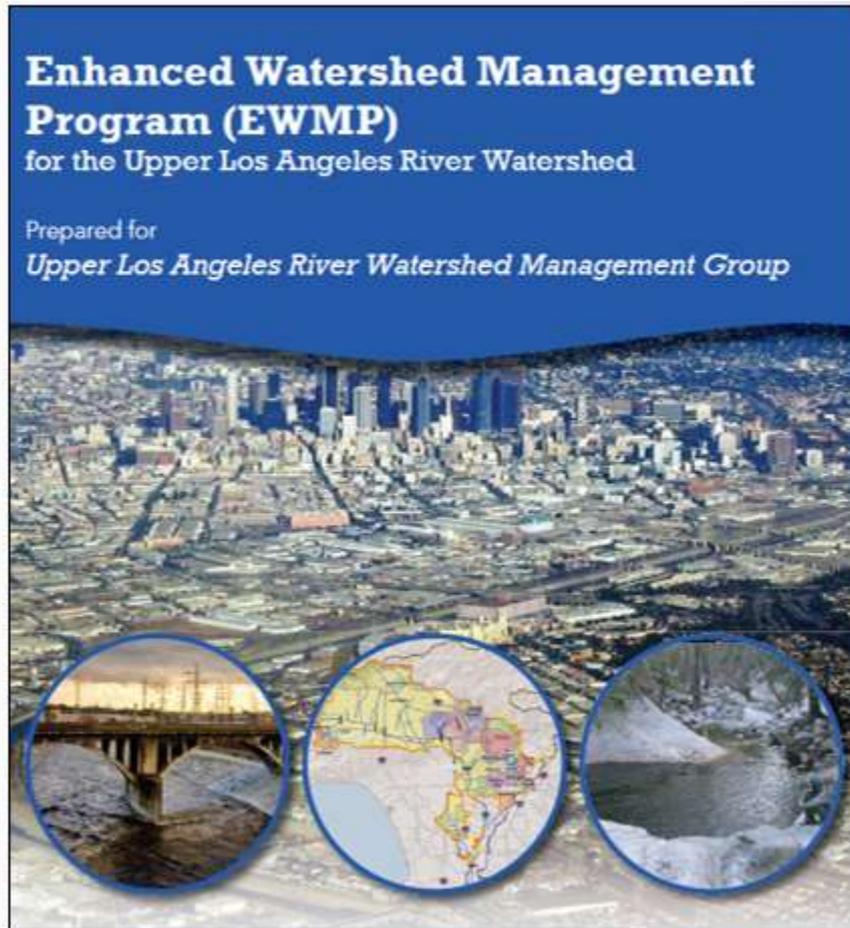
Walnut Park Pocket Park Project



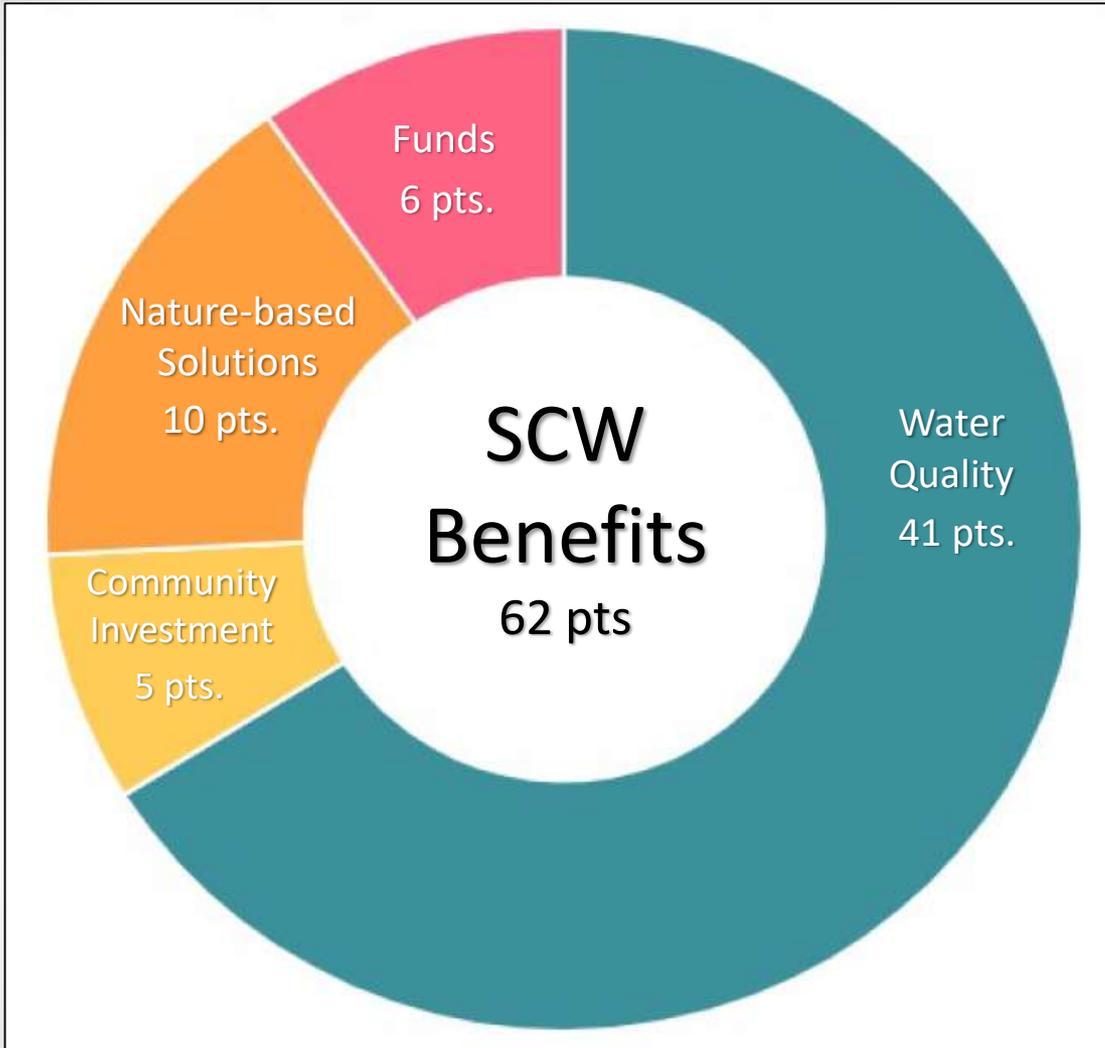
Walnut Park Pocket Park Project



Walnut Park Pocket Park Project



Walnut Park Pocket Park Project



Water Quality

Pollutant reduction of zinc and copper

Community Investment

Enhanced recreational opportunities and park/habitat

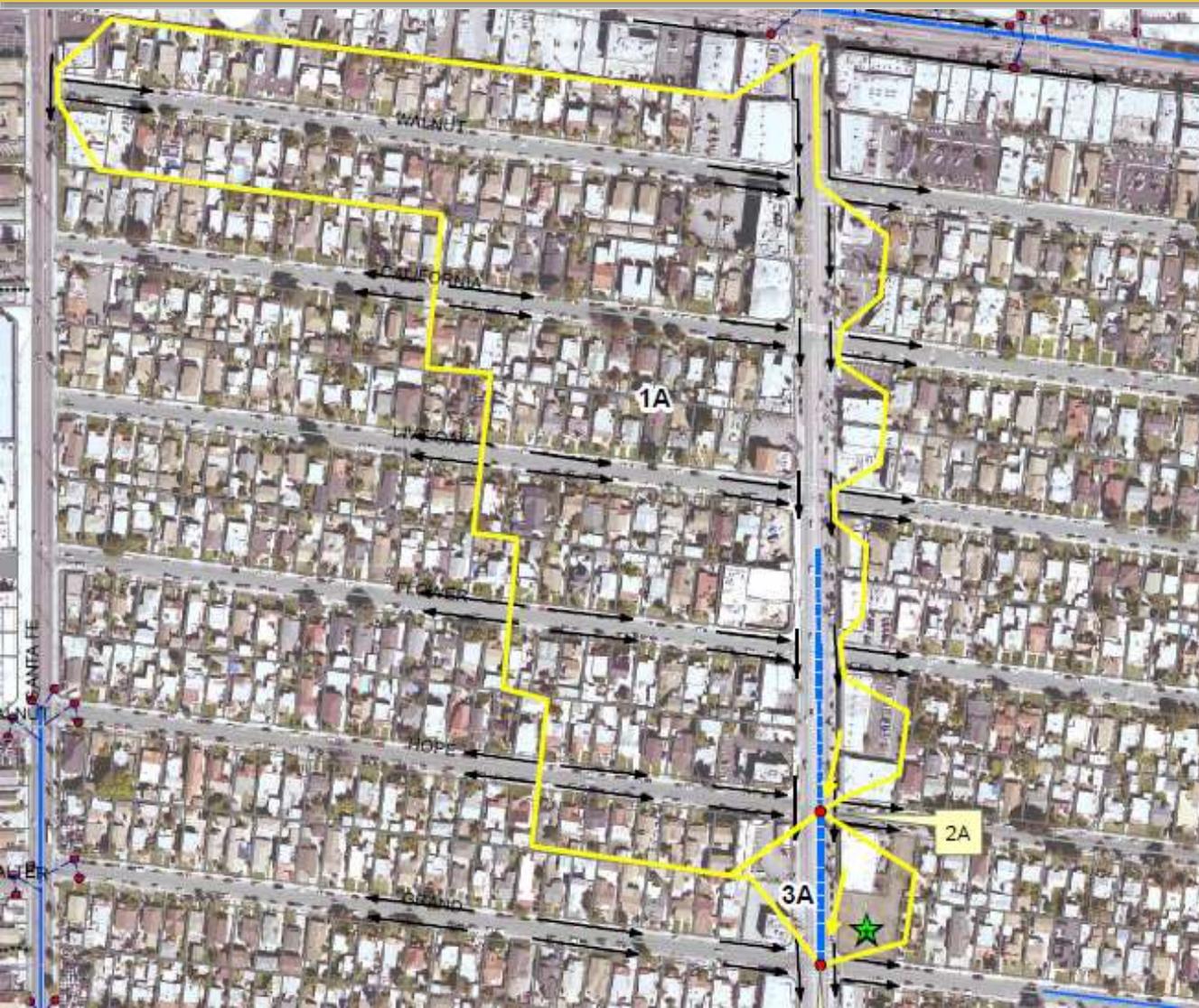
Nature-based Solutions

Natural process and materials

Leveraging Funds

Project partnerships and community outreach

Walnut Park Pocket Park Project



- 32 acre drainage area
- 8 acre-feet of annual water capture

Walnut Park Pocket Park Project



- Catch basins and diversion system
- Pretreatment
- Infiltration drywells
- 1.4 acre-foot capacity (85th percentile storm)

Walnut Park Pocket Park Project



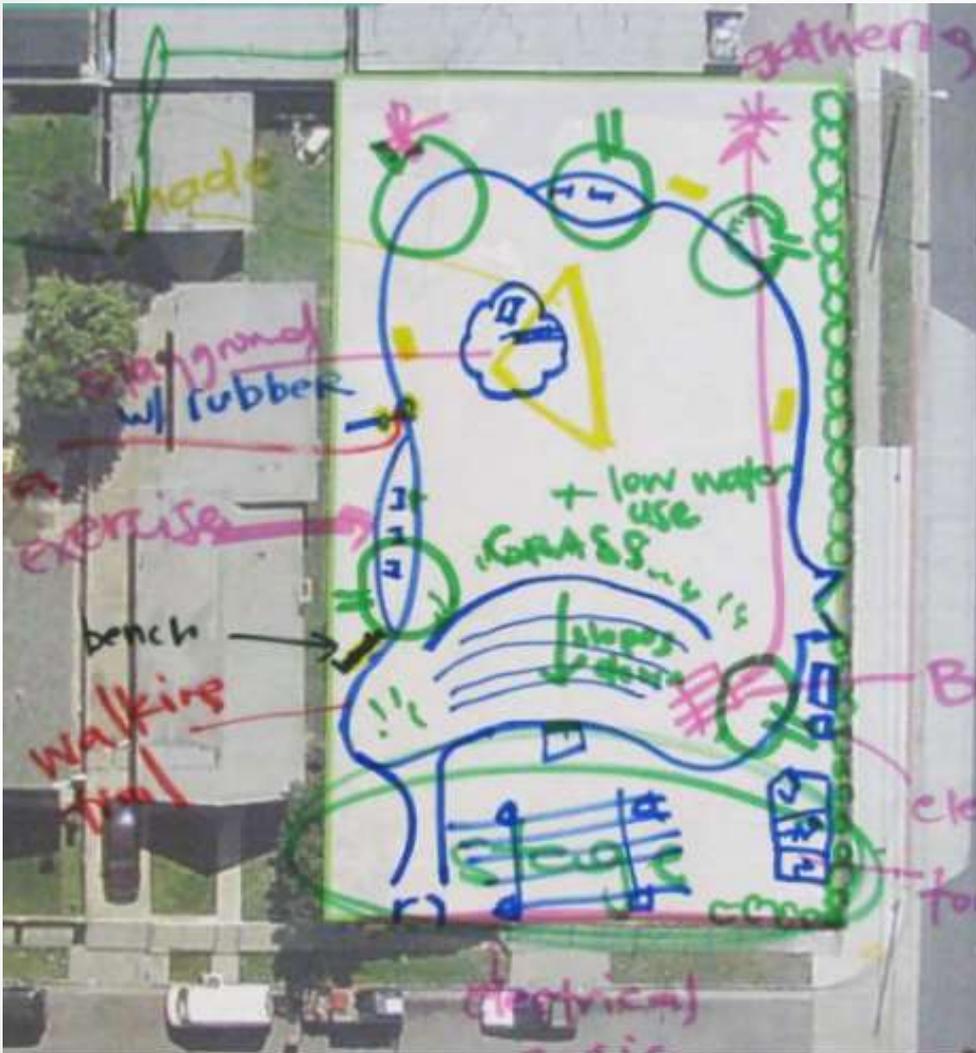
Example photos of drywell installation

Walnut Park Pocket Park Project

WALNUT PARK COMMUNITY PARKS AND RECREATION PLAN LOS ANGELES COUNTY DEPARTMENT OF PARKS AND RECREATION



Walnut Park Pocket Park Project



Walnut Park Pocket Park Project

Above-ground amenities

- Landscaping
- Social gathering spaces
- Walking Paths
- Exercise Equipment



Walnut Park Pocket Park Project



Walnut Park Pocket Park Project

Project Partners



Above-ground amenities



Stormwater/water quality components

Walnut Park Pocket Park Project

Preliminary Cost Estimate (Stormwater Features) and Schedule:

Phase	Cost	Completion
Planning & Design	\$ 200,000	Mid 2021
Construction	\$ 2,000,000	Mid 2022
Total Estimate	\$ 2,200,000	

Request	FY
\$500,000	2020-21
\$500,000	2021-22
\$1M	

Walnut Park Pocket Park Project



Questions

Los Angeles County Public Works

Joseph Venzon, P.E.
jvenzon@dpw.lacounty.gov
(626) 300-2630



SAFE CLEAN WATER L.A.

Pasadena Unified School District Campus Green Infrastructure Development Project

Managing Director - Claire Robinson
Amigos de los Rios / Emerald Necklace Group
claire@amigosdelosrios.org

Total Funding Requested: \$300,000

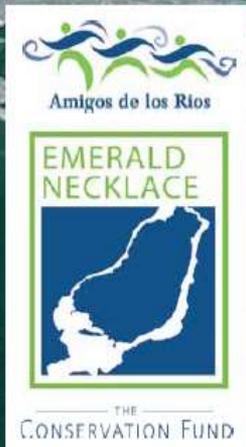
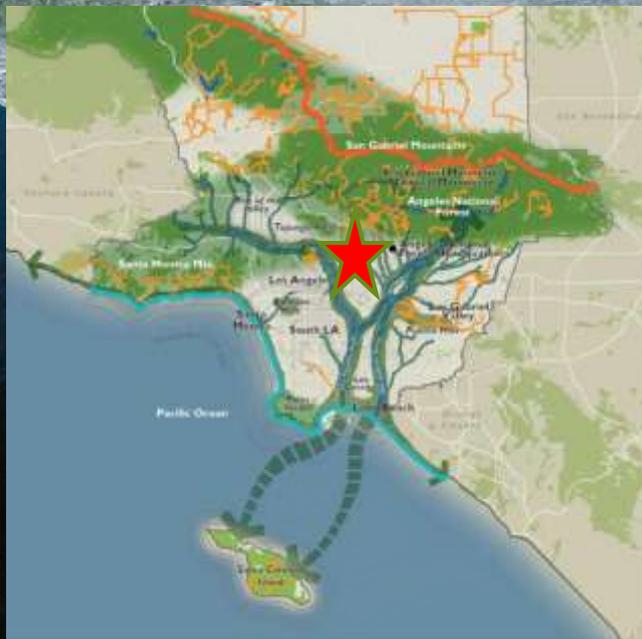


AMIGOS DE LOS RIOS
EMERALD
NECKLACE



EMERALD NECKLACE FOREST TO OCEAN EXPANDED VISION PLAN:

Towards a Common Vision



The Emerald Necklace Forest to Ocean Expanded Vision Plan: Towards a Common Vision
Funded by: The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal
Protection Bond Act of 2006 Proposition 84 and the State of California Strategic Growth Council



© 2014 Amigos de los Rios



SAFE CLEAN WATER L.A.



AMIGOS DE LOS RIOS

EMERALD
NECKLACE

Water Resources
Stormwater Mgt

Open Space
Recreation Access

Sustainable
Transportation

Biodiversity
Habitat Corridors

Climate Response
Resilient Communities

Green
Infrastructure
& Public
Health

CONVERGENT GREEN INFRASTRUCTURE PLANNING

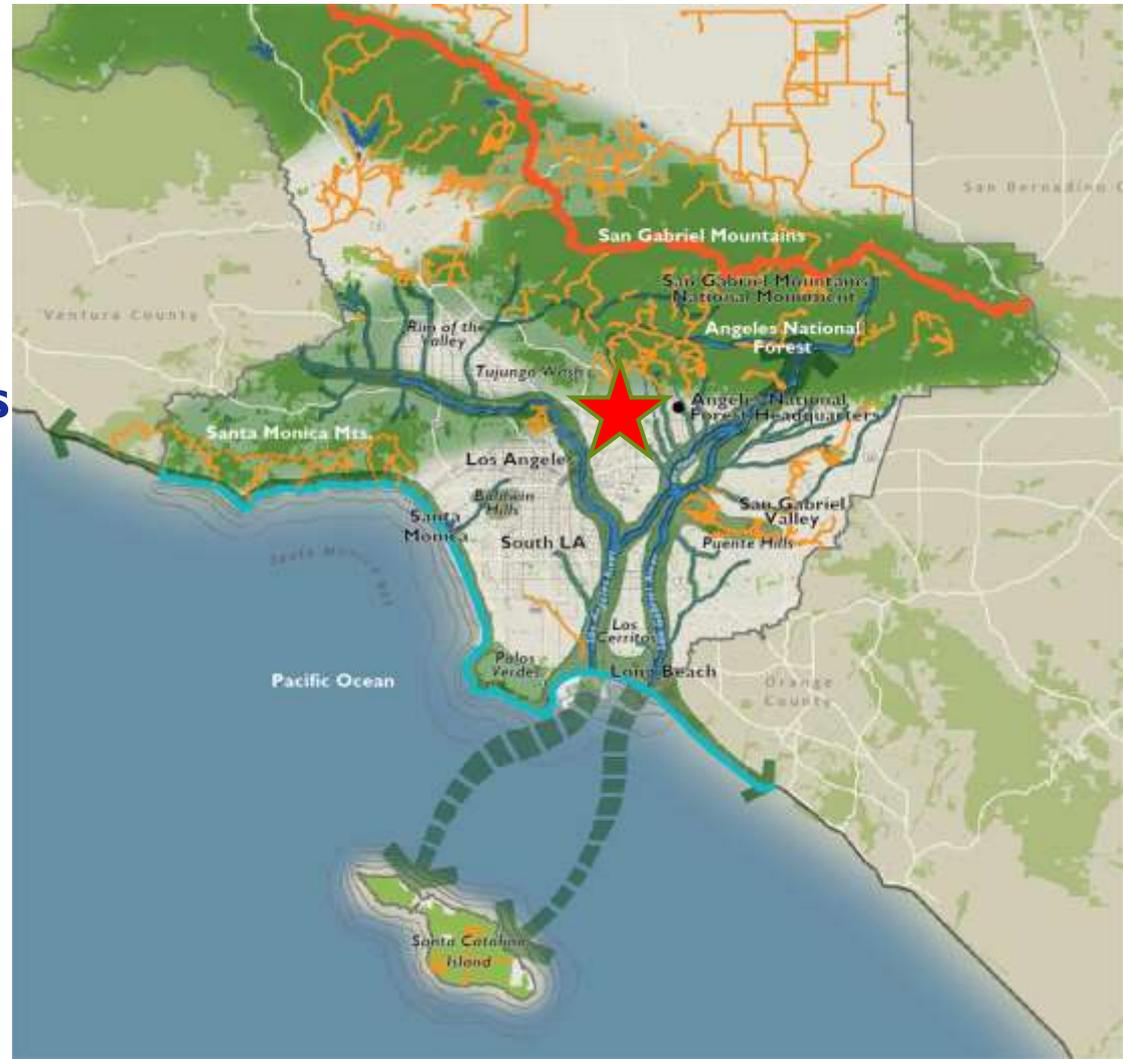


AMIGOS DE LOS RIOS

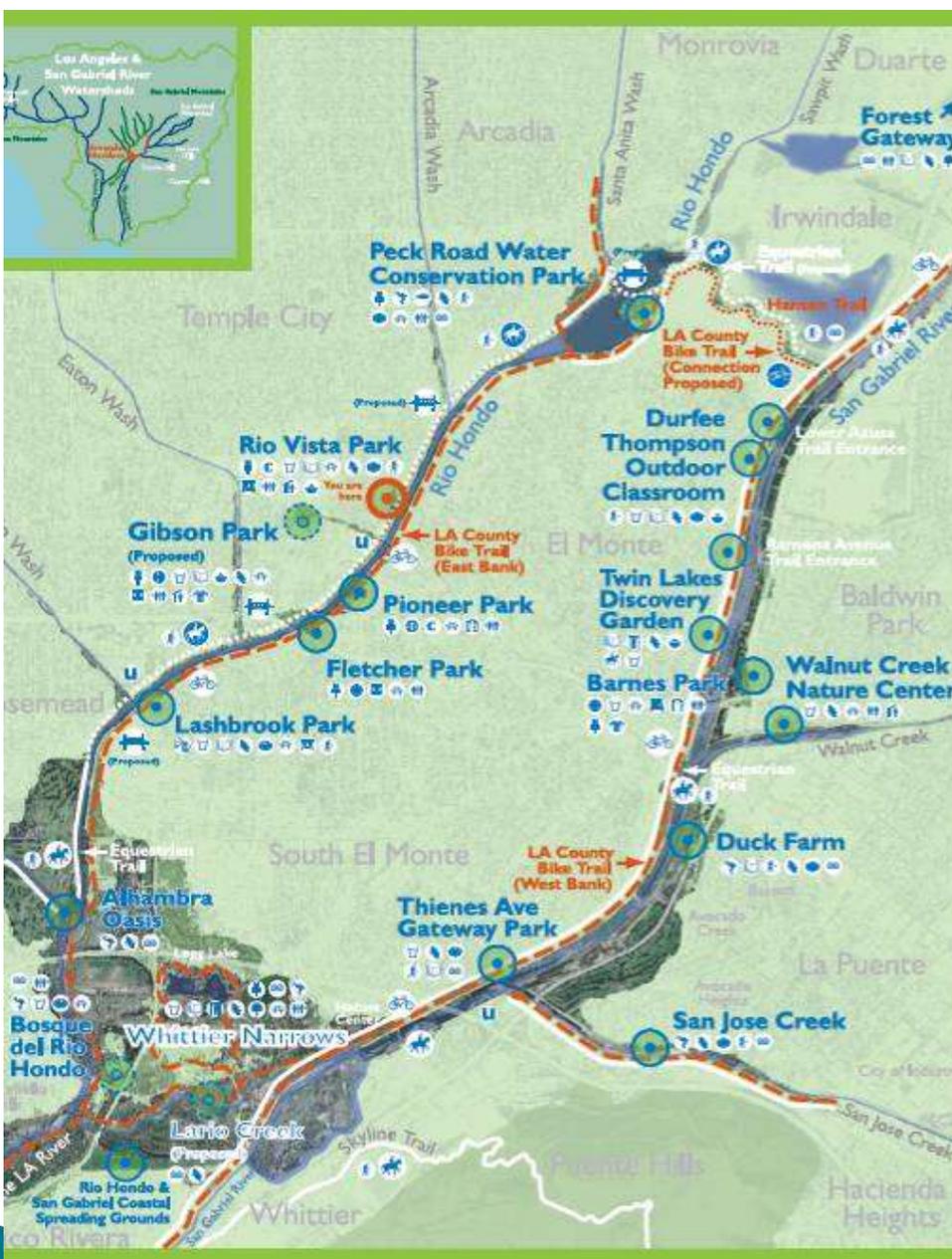
EMERALD
NECKLACE

WATERSHED APPROACH Olmsted Bartholomew Plan 1930 Founded 2003

501(c)3 non-profit organization committed to protecting water resources, restoring open space & natural resources in our urban environments by creating an 'Emerald Necklace' Green Infrastructure network of sustainable parks, trails and schools throughout the Los Angeles Basin from the Mountains to the Sea.



FOCUS on DAC Communities



PECK ROAD WATER CONSERVATION PARK



VETERANS MEMORIAL PARK



RIO VISTA PARK



LASHBROOK PARK



GIBSON MARIPOSA PARK



DURFEE THOMPSON PARK

NATURAL INFRASTRUCTURE

Multi Objective Projects



Pasadena Unified School District Campus Green Infrastructure Development RIO HONDO WATERSHED

Project Concept will retrofit three PUSD Schools and seeks to manage stormwater by increased capture, filtering and infiltration through a natural systems approach focused on community-based design of green infrastructure.

Multi Objective Goals: Key Stormwater, Ecosystem & Community Health Benefits:

Pervious Paving & Permeable Surfaces, Healthy Soil
Bioswales, Rain Gardens, Landscape Infiltration Planters,
Urban Forestry, Mulched Native Plant Landscape Areas,
Watershed Education Program



REGIONAL GOALS

REGIONAL GOAL

- 1 Promote Active Transportation - Walking, Biking, and Alternative Commute Options
- 2 Create Functional and Multi-Purpose Natural (Green) and Built (Grey) Environment Networks
- 3 Improve Public Health by Expanding Access to Nature and Outdoor Recreation
- 4 Treat Water as a Multi-Benefit Amenity
- 5 Design and Build Communities Resilient to the Current and Projected Impacts of Climate Change
- 6 Enhance Regional Anchors for People and Wildlife
- 7 Support Environmental Awareness and Civil Engagement through Education, Outreach, and Cultural Heritage
- 8 Foster a Green Economy that Creates Jobs and Encourages Investment in Local Multi-Benefit Projects



COMMON VISION

- 1 An interconnected network of walking and biking trails, from forest to ocean
- 2 Interconnected and complementary green and grey infrastructure networks
- 3 A nature-based network of recreation facilities that promotes public health, social justice and equity
- 4 A water network that infiltrates groundwater, manages wet weather events and provides human enjoyment
- 5 Communities resilient to changing water supplies, climate extremes and sea level rise
- 6 A linked network of open space treasures from the Mountains to the Sea
- 7 A network of culturally aware and civically involved communities that support conservation, restoration and recreation
- 8 A robust and sustainable local economy that produces new economic opportunities around a growing green infrastructure

TOWARDS A COMMON VISION



Development of NEXT Generation Watershed Stewards



A special thanks to the following California Conservation Corps, Los Angeles Conservation Corps, and San Gabriel Valley Conservation Corps Members who have built Lashbrook Park for the benefit of current and future generations:

- | | | | | | | | | | |
|---------------------|------------------|--------------------|-------------------|----------------|------------------|------------------|--------------------|-------------------|------------------|
| Adrian Dominguez | Andres Garcia | Chris Hernandez | Eric Guerrero | Hilario Garcia | John Salinas | Larry Penabaz | Henry Flores Gomez | Ricky Trujillo II | Servil Hues |
| Adrian Avencio | Angel Oyin | Christian Rivas | Enika Salazar | Jamal Davis | Justine Brown | Lavel Newman | Nicholas Ray | Rodney Kib-Ji | Thomas Padgett |
| Adriana Gonzalez | Anthony Delgado | Christian Pava | Felisa Salazar | Jenny Martinez | Juan Duran | Lisa Pilo | Nicole Servino | Ronald Gonzalez | Thomas Ponce |
| Albert Duhon | Anthony Benoit | Christina Diaz | Fernando Gonzalez | Jenny Pardo | Juan Gonzalez | Luis Aguilar | Orlando Rios II | Ruben Castro | Timothy Dizon |
| Alfredo Garcia | Aracely Taylor-J | Christopher Zamora | Fernando Ruiz | Jerry Zaldivar | Juan Lopez | Marcos Duran | Peter Therasavong | Salvador Estrada | Ulises Gallego |
| Alva Castorena | Ayla Martinez | Daniel Gomez | Gary Snyder | Jenny Walker | Juan Dizon | Marga Chavez | Philip Zayas | Tania Cruz | Wilfredo Serrano |
| Alfredo Gonzalez | Brendakay Taylor | Daniel Lopez | Garry Salazar | Josiah Jackson | Josiah Garcia | Merlin Araya | Rafael Martinez | Torgio Tambo | William Orozco |
| Alfredo Juarez | Britni Perkins | Daniel Perez | Gilbert Duarte | Josiah Vega | Josiah Garcia Jr | Maryanne Jimenez | Rayna Rios | Sara Magallon | |
| Andre De La Chausse | Camero Green | Danny Flores | Gonzalo Diaz | Juan Zapata | Juan Velasco | Matthew Hudson | Rafael Flores | Sally Perez | |
| Andres Garcia | Captain Keast | David Smith | Guillermo Loont | Jerry Pabon | Juan Flores | Michael Garcia | Raul Aguilar | Stephen Diaz | |
| Andres Arriaga | Cesar Casas | Eric Garcia | Heather Ruiz | Jos Santos | Karenda Arnold | Michael Sanchez | Ronald Nieves | Stephanie Holt | |





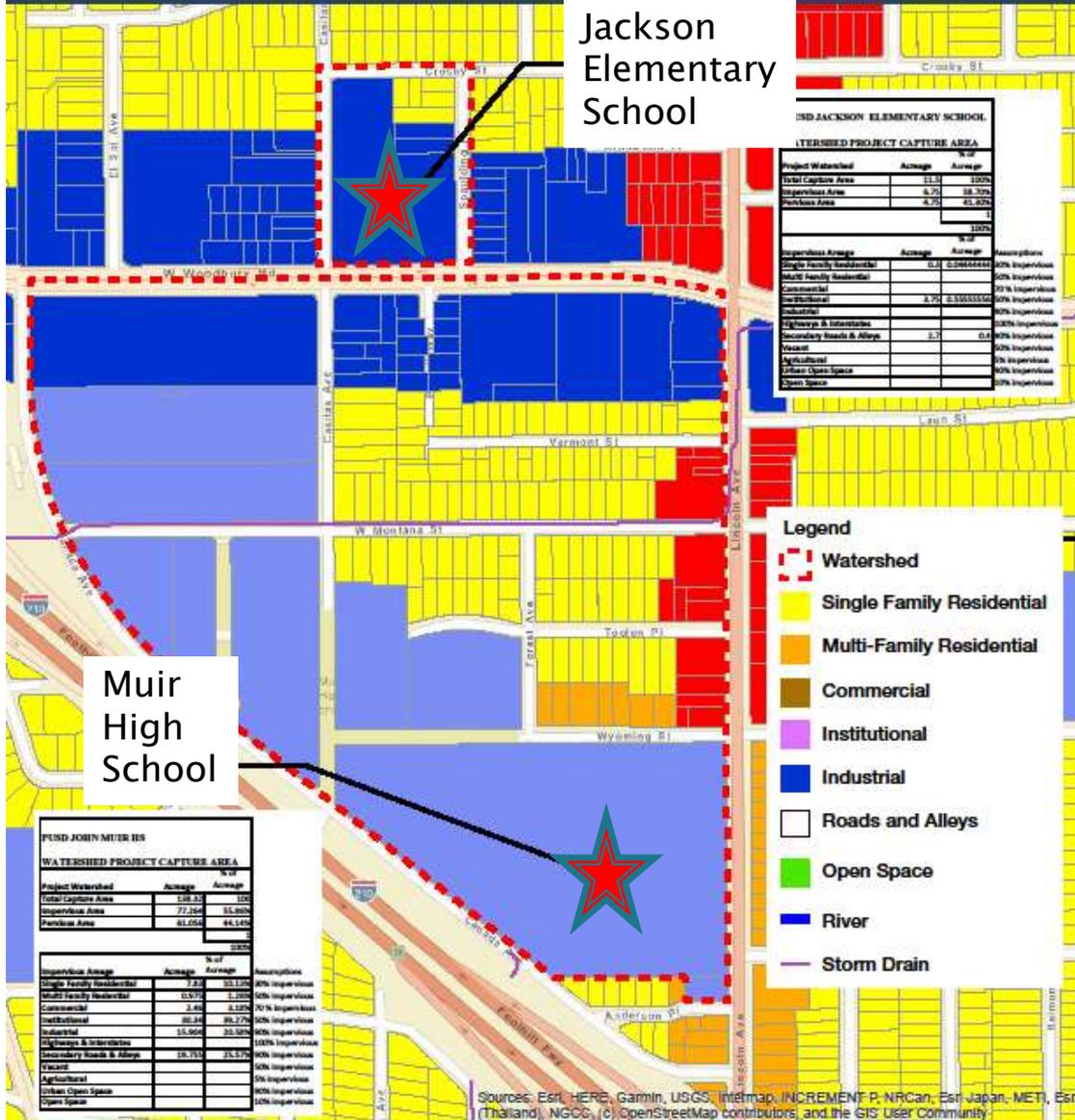
Pasadena Unified School District Campus Green Infrastructure
Development Project
Measure W Safe Clean Water

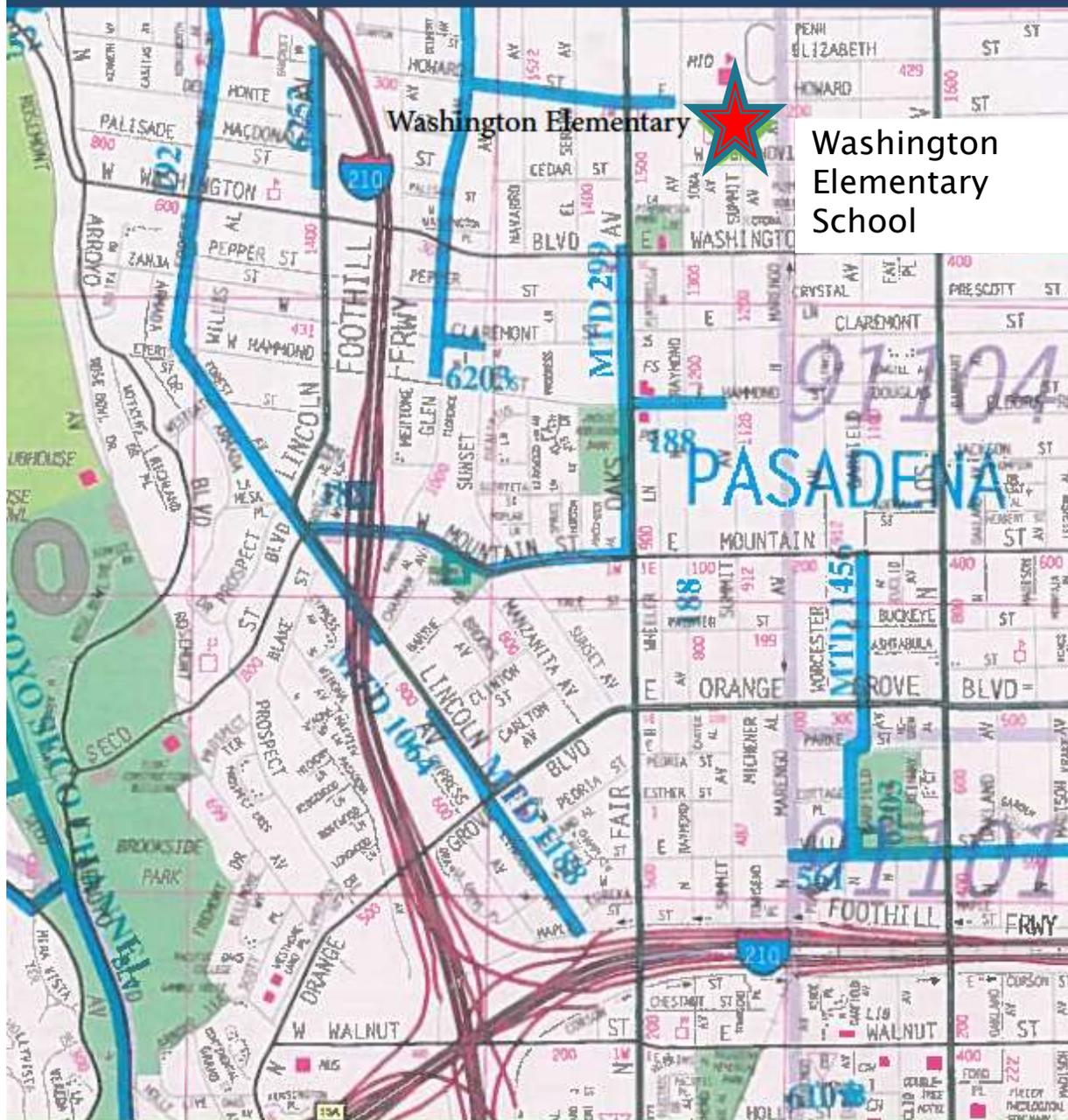


Jackson Elementary School & Muir High School



PASADENA UNIFIED SCHOOL DISTRICT
Dur Children. Learning Today. Leading Tomorrow.





Washington Elementary



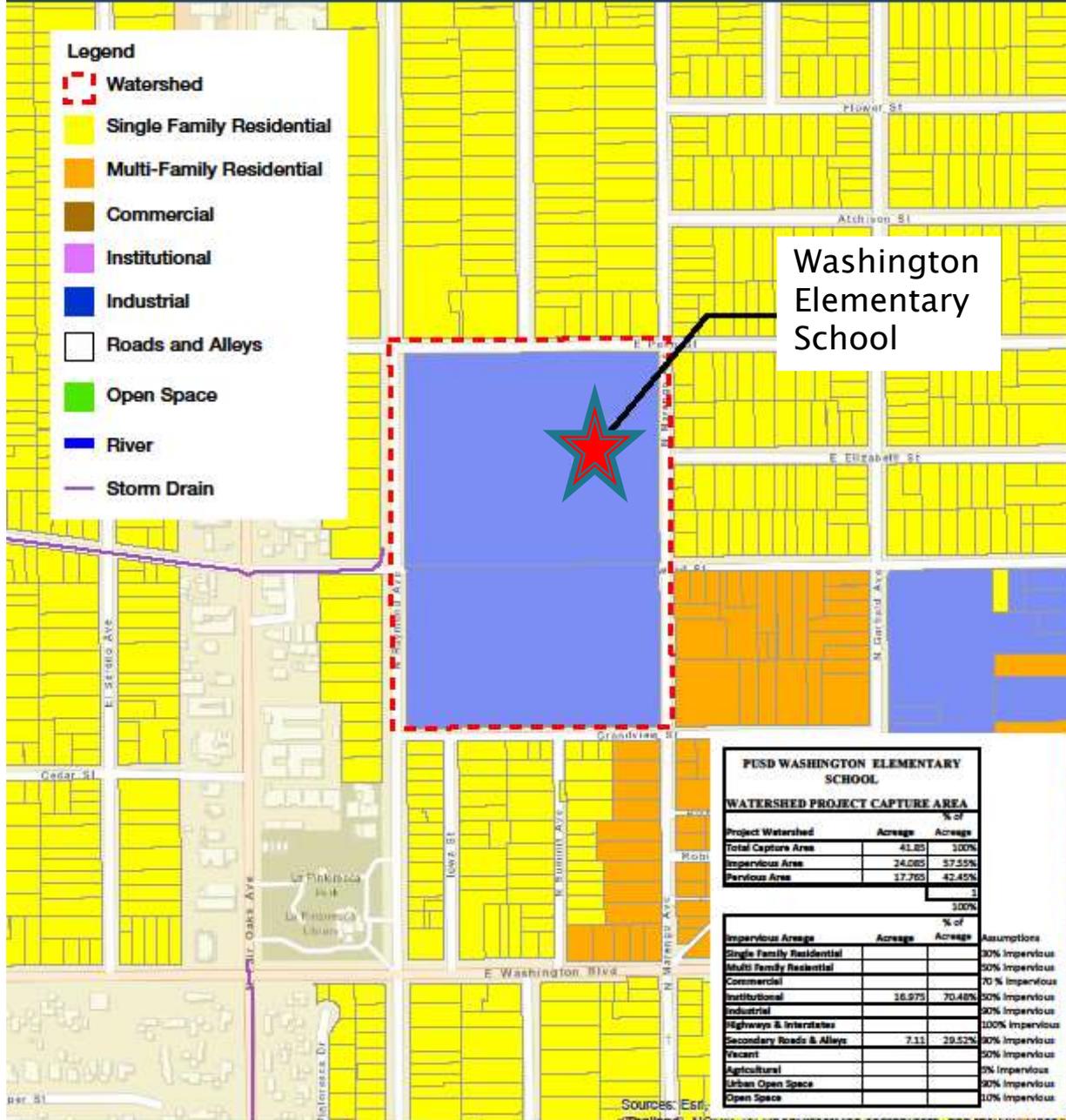
Washington
Elementary
School

Pasadena Unified School District Campus Green Infrastructure

Development Project

Measure W Safe Clean Water





- Legend**
- Watershed
 - Single Family Residential
 - Multi-Family Residential
 - Commercial
 - Institutional
 - Industrial
 - Roads and Alleys
 - Open Space
 - River
 - Storm Drain

Washington
Elementary
School

PUSD WASHINGTON ELEMENTARY SCHOOL
WATERSHED PROJECT CAPTURE AREA

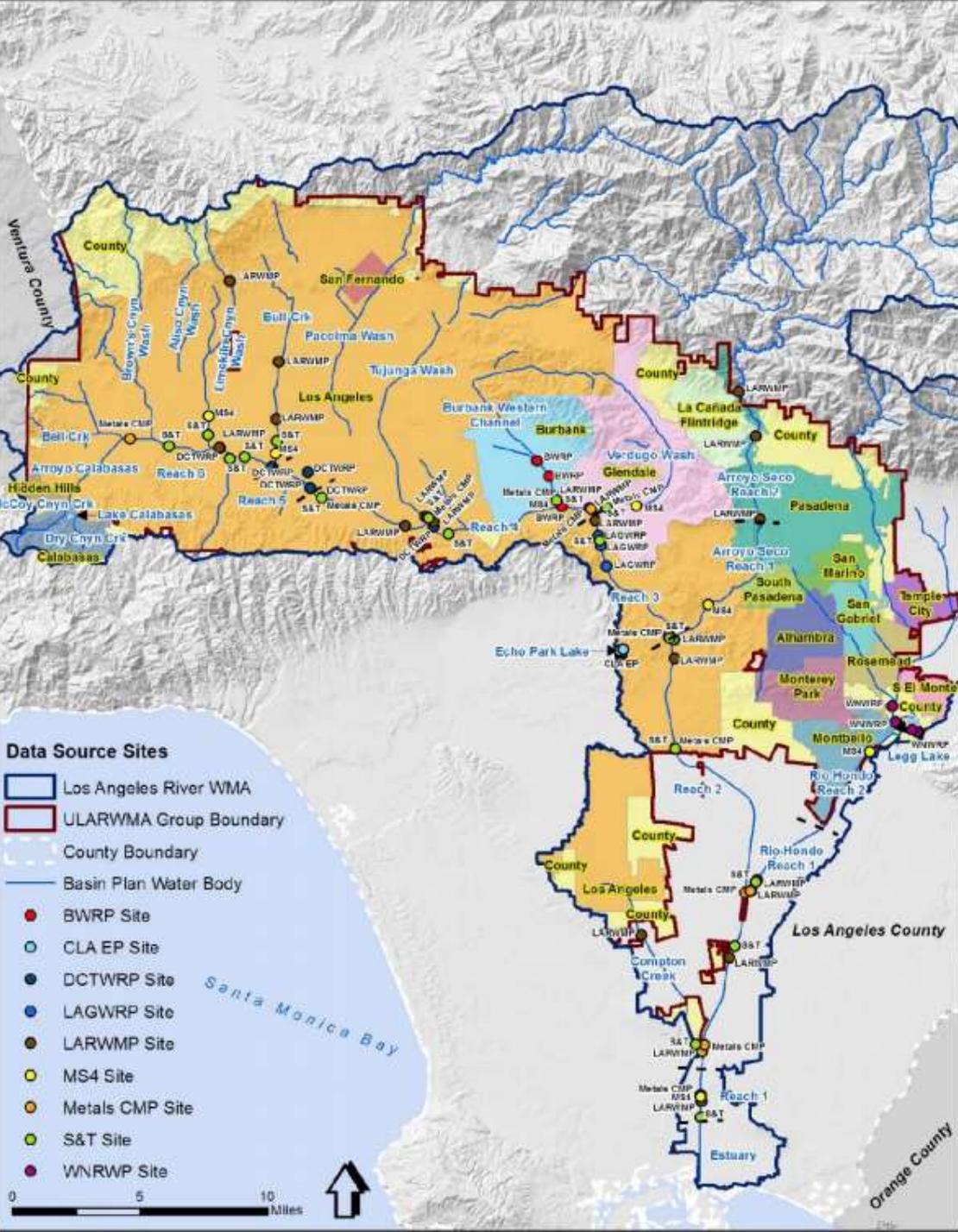
Project Watershed	Acreage	% of
Total Capture Area	41.85	100%
Impervious Area	24,085	57.55%
PerVIOUS Area	17,765	42.45%

Impervious Area	Acreage	% of	Assumptions
Single Family Residential			30% Impervious
Multi Family Residential			50% Impervious
Commercial			70% Impervious
Institutional	16,975	70.46%	30% Impervious
Industrial			30% Impervious
Highways & Interstates			100% Impervious
Secondary Roads & Alleys	7.11	29.53%	30% Impervious
Vacant			50% Impervious
Agricultural			0% Impervious
Urban Open Space			30% Impervious
Open Space			10% Impervious

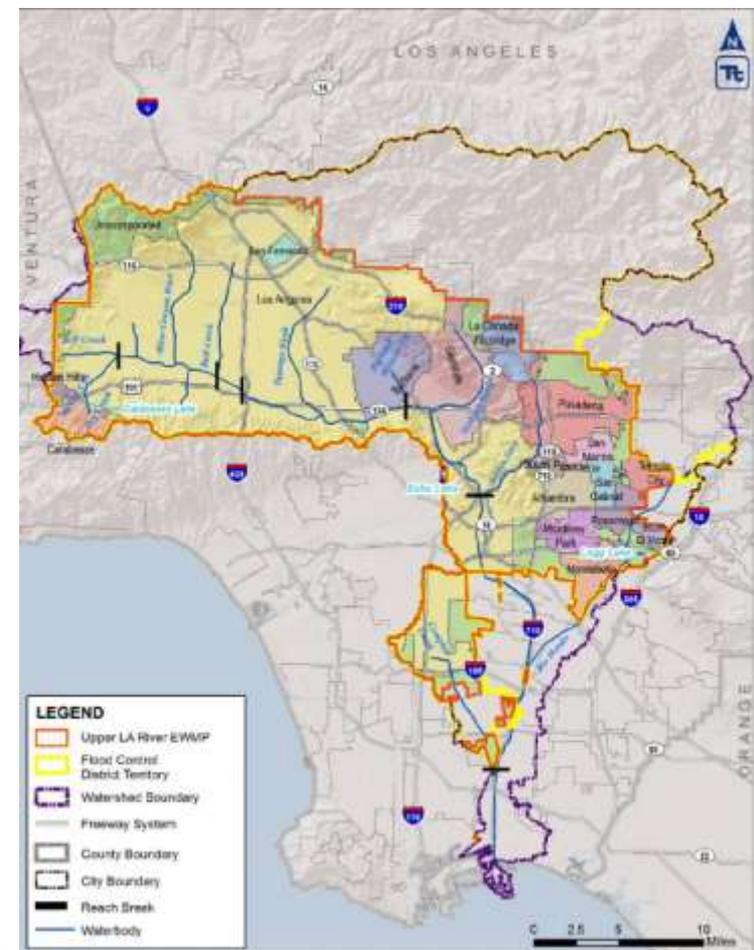
Source: Esri

Upper Los Angeles River EWMP

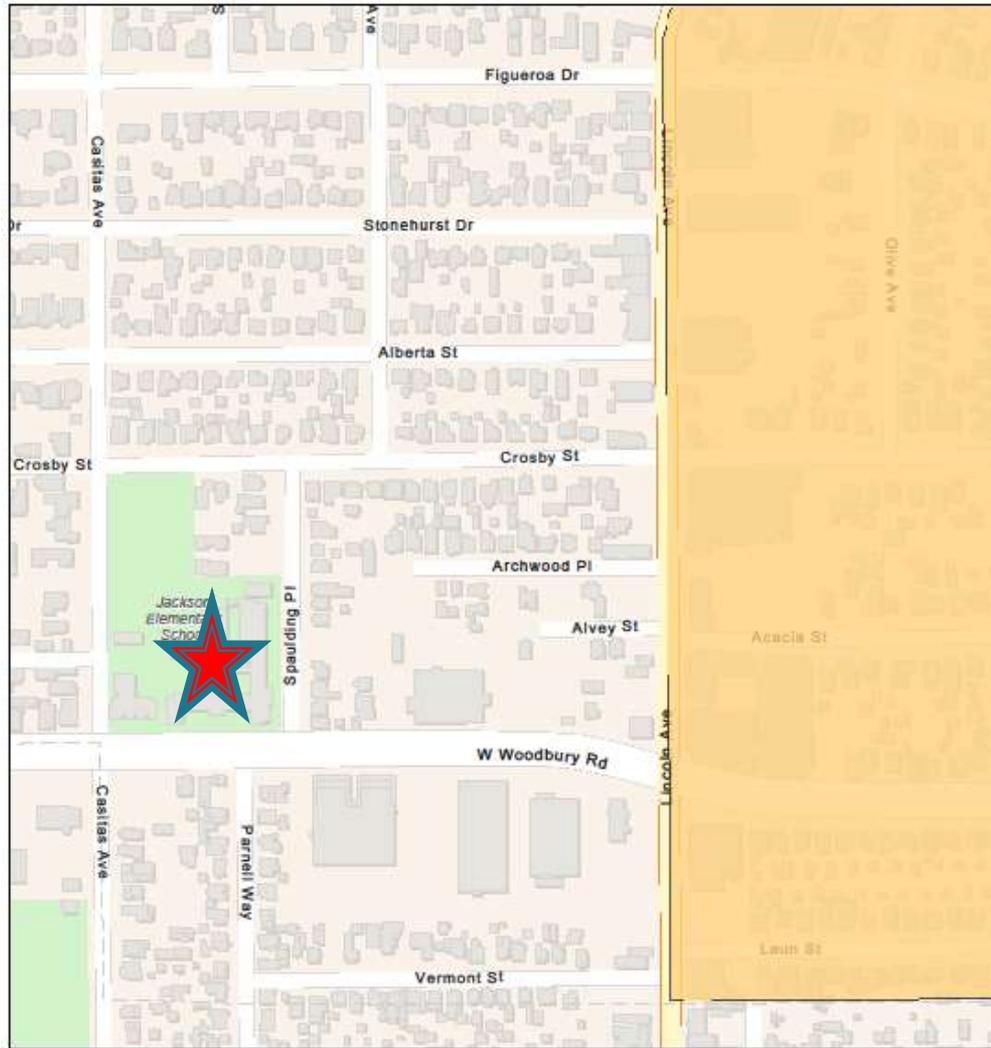
- ▶ Project is located in the Upper Los Angeles River EWMP
- ▶ Municipality benefits include
 - Nature-based storm water capture, filter and infiltration
 - Water Conservation
 - Urban Greening –
 - Air Quality & Community Sense of Place
 - Vector Control
 - Heat Island Reduction
 - Environmental Education



Feasibility study will allow Amigos de los Rios to collect data on stormwater capture, water infiltration and conservation, pollutant filtration, vector mitigation.

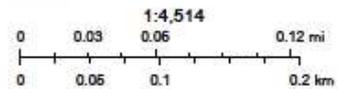


Jackson Elementary School



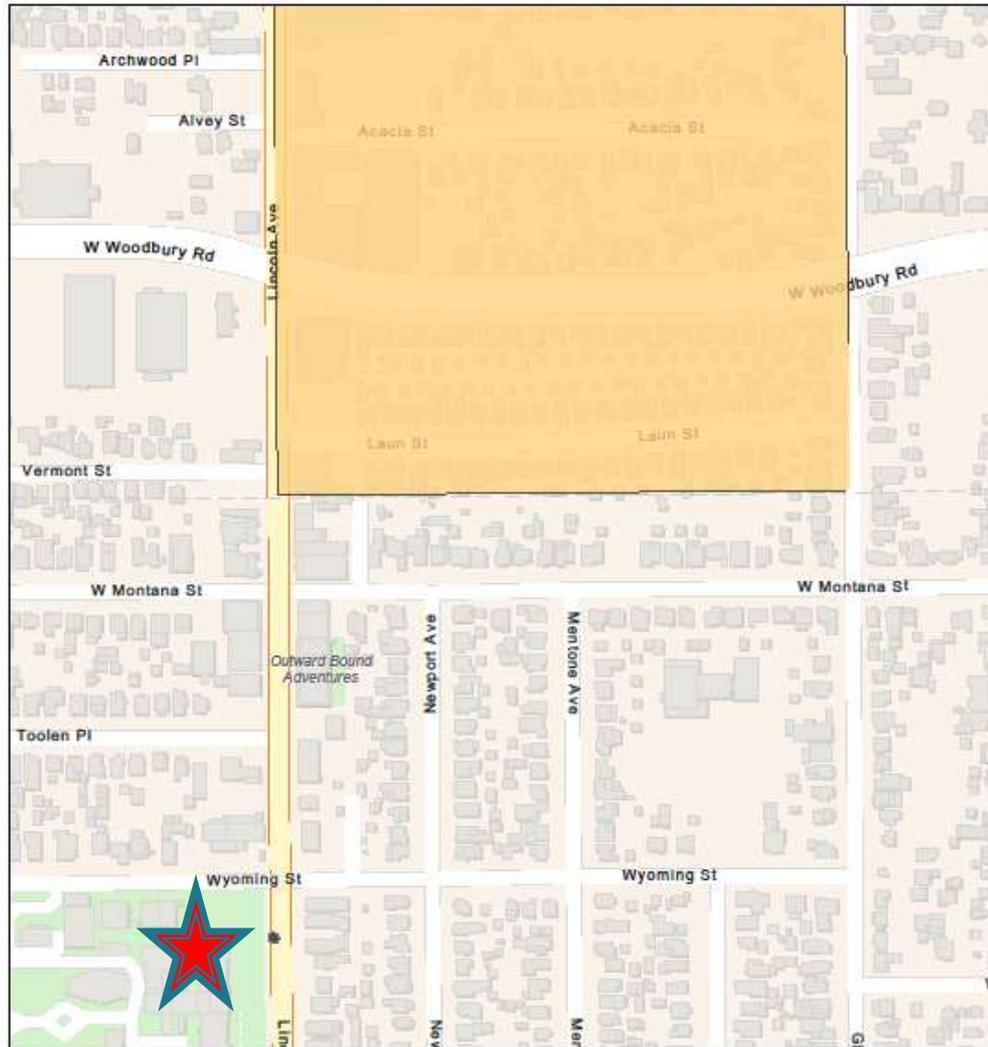
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-  California Counties
- Disadvantaged Communities - Places 2016
 -  Data Not Available
 -  Severely Disadvantaged Communities (MHI < \$38,270)
 -  Disadvantaged Communities (\$38,270 >MHI< \$61,026)



U.S. Census Bureau. Contact: gis@water.ca.gov, U.S. Bureau of Reclamation, California Department of Conservation, California Department of Fish and Game, California Department of Forestry and Fire Protection, National Oceanic and Atmospheric Administration, Sources: Esri, HERE,

John Muir High School



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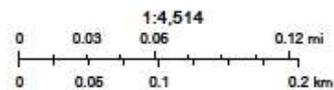
California Counties

Disadvantaged Communities - Places 2016

Data Not Available

Severely Disadvantaged Communities (MHI < \$38,270)

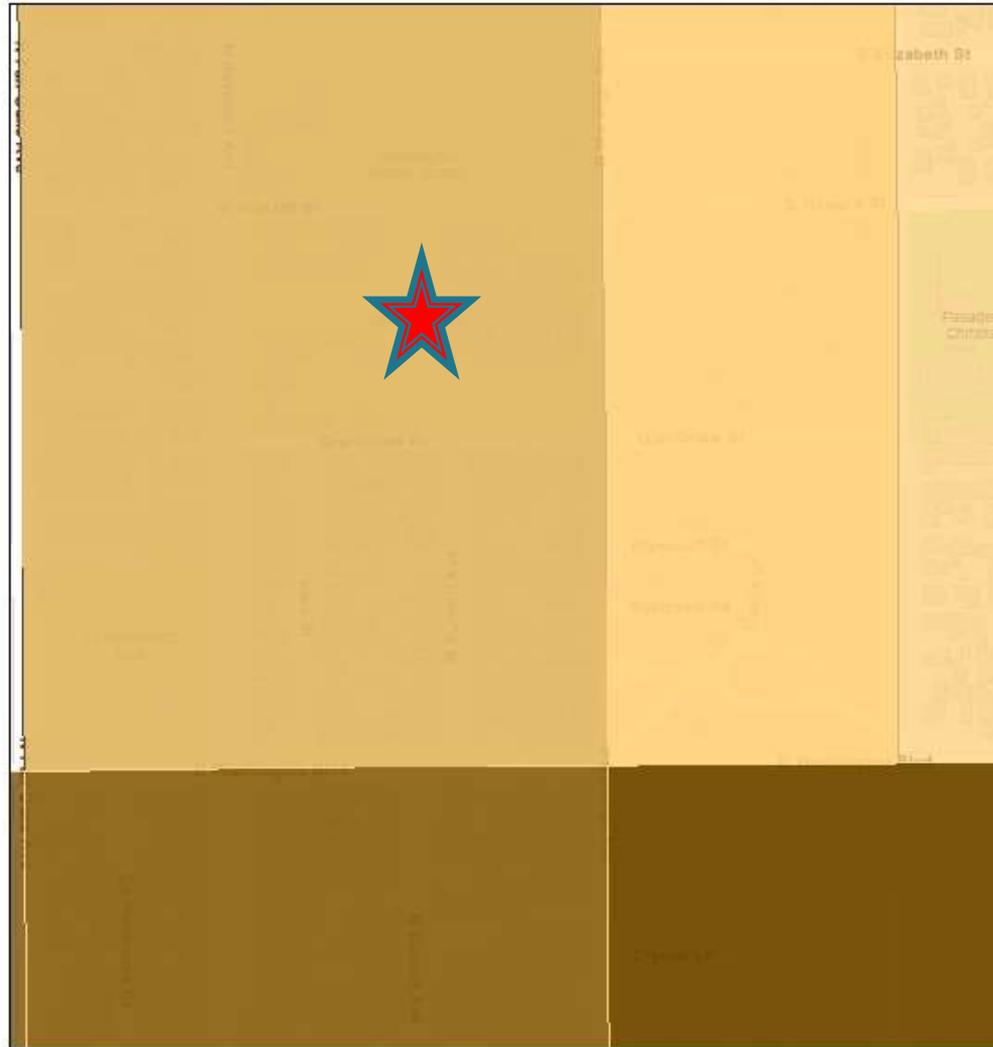
Disadvantaged Communities (\$38,270 > MHI < \$61,026)



U.S. Census Bureau. Contact: gis@water.ca.gov, U.S. Bureau of Reclamation, California Department of Conservation, California Department of Fish and Game, California Department of Forestry and Fire Protection, National Oceanic and Atmospheric Administration. Sources: Earl, HERE,

Web AppBuilder for ArcGIS

Washington Elementary School



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California Counties

Disadvantaged Communities - Places 2016



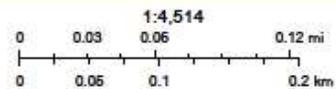
Data Not Available



Severely Disadvantaged Communities (MHI < \$38,270)

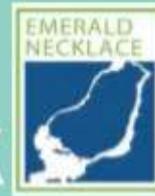


Disadvantaged Communities (\$38,270 >MHI< \$61,026)



U.S. Census Bureau. Contact: gis@water.ca.gov, U.S. Bureau of Reclamation, California Department of Conservation, California Department of Fish and Game, California Department of Forestry and Fire Protection, National Oceanic and Atmospheric Administration. Sources: Esri, HERE,

Web AppBuilder for ArcGIS



PECK RD. WATER CONSERVATION PARK

-QUARRY REDEVELOPED

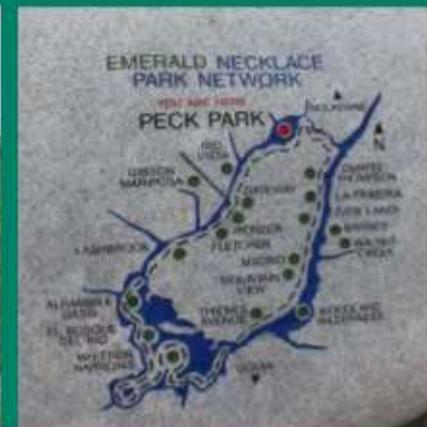


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- Created 540 linear foot bioswale
- Created 350 linear foot decomposed granite trail
- Removed subterranean concrete from former quarry
- Total trees planted to date 240
- Total shrubs planted to date 1,611
- Total trees planted to date 8,712

> phase I completed





Water Resources & Quality Benefits

▶ Storm Water Management

- Capture Urban Runoff & Storm Water w/Green Infrastructure Elements
- Recharge groundwater /Reduce waste of Imported Water/RainWater
- Preventing pollutants from entering Storm Drain System & Waterways.
- Trash, Nitrogen Compounds, E. Coli, and Cadmium
- Address Drainage Issues, Local Flooding & Vector Control

▶ Water quality concerns downstream

- Copper, lead, zinc, DDT, PAHs, PCBs coliform and enterococcus.
- Natural infrastructure elements filter pollutants before entering water sources

▶ Public Health – Vector Issues

- ▶ West Nile & Zika Virus

▶ Water Conservation – grass removal /Native Plant Landscape/Efficient Irrigation



Pasadena Unified School District Campus Green Infrastructure Development

Estimate of Project Costs

Item	Amount
Contingency	\$120,446
Construction	\$2,039,140
Establishment	\$192,000
Design, Outreach, Permissions /Construction Admin	\$390,000
Overhead	\$328,990
TOTAL	\$3,070,576

Project Management & Admin	\$ 57,000
Community Based Design/Outreach	\$ 60,000
Civil Engineering/Monitoring Design	\$ 105,000
Landscape Architecture/Arborist	\$ 40,000
Survey Engineer	\$ 45,000
Overhead	\$ 36,840
TECHNICAL ASSISTANCE TOTAL	\$ 343,840

**Technical Assistance Request
\$343,840**



AMIGOS DE LOS RIOS

EMERALD
NECKLACE



The Health Benefits of Urban Greening



Urban Greening Improves Physical Wellness

Urban green spaces encourage exercise and are a more restorative environment than indoor settings.¹

Green spaces provide necessary places and opportunities for physical activity. Exercise improves cognitive function, learning, and memory.^{1,2}

In a study, residents of areas with the highest levels of greenery were three times as likely to be physically active and 40% less likely to be overweight or obese than residents living in the least green settings.³

Childhood asthma rates are the highest in parts of the city where tree density is the lowest.⁴



Urban Greening Improves Mental Wellness

The experience of nature helps to restore the mind from the mental fatigue of work or studies, contributing to improved work performance and satisfaction.^{5,6,7}

People who visit green spaces for 30 minutes or more a week have lower rates of depression and high blood pressure.⁸

Even brief glimpses of natural elements improve brain performance by providing a cognitive break from the complex demands of urban life.⁹

Urban nature can provide calming and inspiring environments and encourages learning, inquisitiveness, and alertness.^{10,11}



Urban Greening Improves Academic Performance

Memory performance and attention span improve by 20 percent after spending an hour interacting with nature.¹²

Symptoms of ADD in children can be reduced through activity in green settings, thus "green time" can act as an effective supplement to traditional medicinal and behavioral treatments.^{13,14,15}

Nature experiences are important for encouraging imagination and creativity, cognitive and intellectual development, and social relationships.^{16,17,18}

College students with more natural views from their dorm windows scored higher on attention tests and rated themselves as able to function more effectively.¹⁹



Jeff Seymour Family Center Green Infrastructure Campus





Green Infrastructure Elements

A Urban Community Forestry

Habitat • Heat Island reduction
Stormwater capture • Carbon sequestration



B Rain Garden

Stormwater capture • Habitat



C Bioswale

Stormwater capture • Habitat



D Rain Modules

Stormwater capture



E Stormwater Basin

Stormwater capture • Rain modules



F Bike Safety Track

Cool pavement / Heat Island reduction
Bike training / active transportation
Stormwater capture • Habitat



G Community Garden

Food production • Education



H Bike Park / Skills Track

Bike training / active transportation
Nature-based play



I Walking Paths

Physical fitness • Habitat



J Interpretive Elements

Education • Community Science

● = Location of Green Infrastructure Signage



Campus green infrastructure plan implemented through a community-based process by AMIGOS DE LOS RIOS, a 501(C)3
We hope you enjoy! • www.amigosdelosrios.org



Funding for this project has been provided by the California Greenhouse Gas Reduction Fund through the California Department of Forestry and Fire Protection (CAL FIRE), Urban and Community Forestry Program.



Jeff Seymour Family Center Green Infrastructure Campus



SCHEDULE

- ▶ Design by 7/2020 –10/2020
- ▶ Permit & Construction by 2/2021–8/2021
- ▶ Establish/Operate of Natural Infrastructure Elements by 2/2021 –7/2025

Jackson Elementary School

593 W Woodbury Rd., CA 91001



PASADENA UNIFIED SCHOOL DISTRICT
Our Children. Learning Today. Leading Tomorrow.



Legend

- | | | | | | |
|--|--|--|-------------------|--|-----------------------|
| | Mulched Landscape-
Native Plants/Turf Removal | | Proposed Tree | | Bioswale/Raingarden |
| | Storm Drain | | Permeable Surface | | Interpretive Elements |
| | Entry/Exit | | Habitat Garden | | LID Planter |
| | | | Rain Barrel | | |

Pasadena USD Campus Green Infrastructure Development
Safe Clean Water Program | Concept Plan

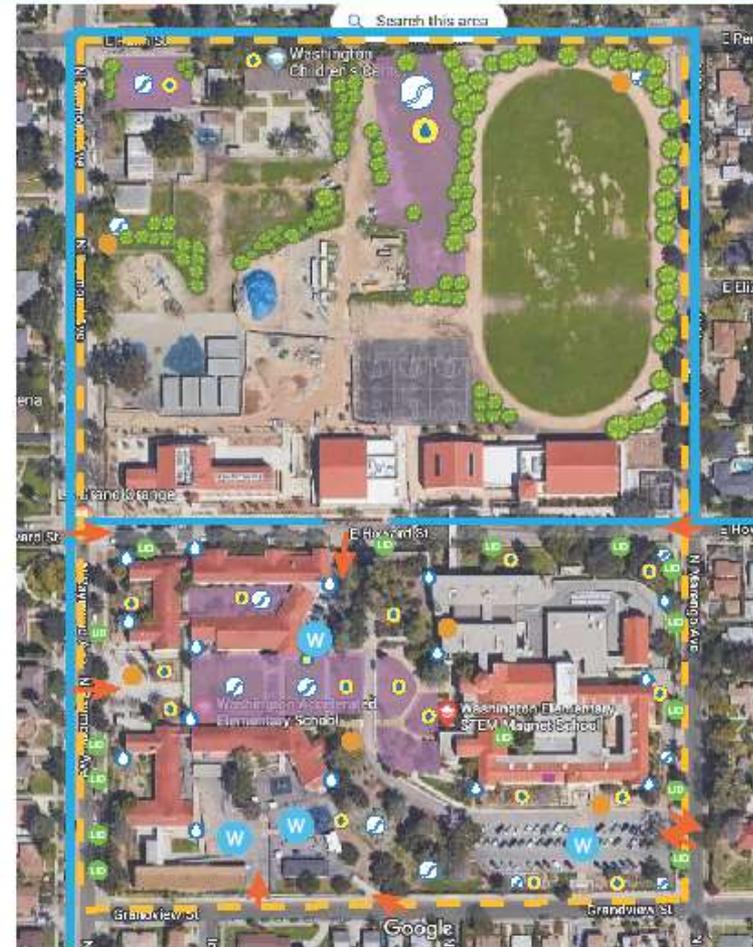
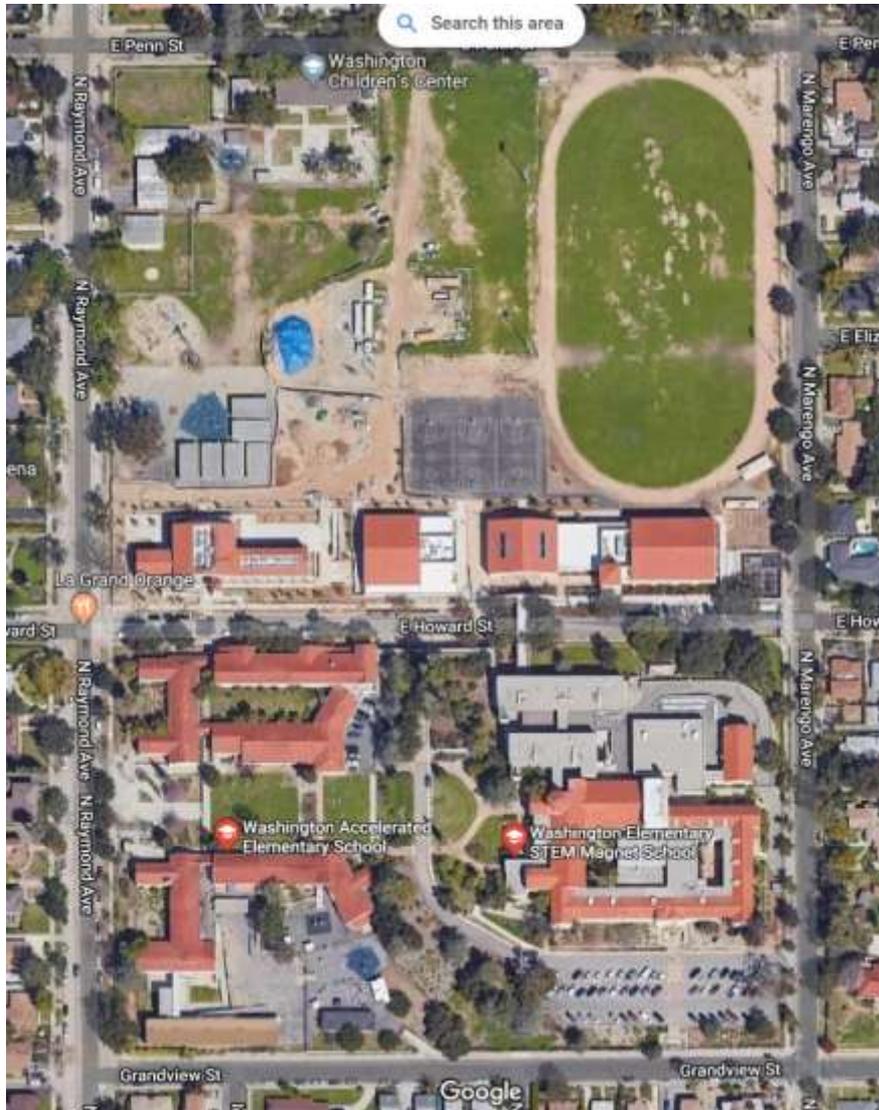




Legend

- | | | |
|---|---|---|
|  Mulched Landscape-Native Plants/Turf Removal |  Proposed Tree |  Bioswale/Raingarden |
|  Storm Drain |  Permeable Surface |  Interpretive Elements |
|  Entry/Exit |  Habitat Garden |  LID Planter |
| |  Rain Barrel | |



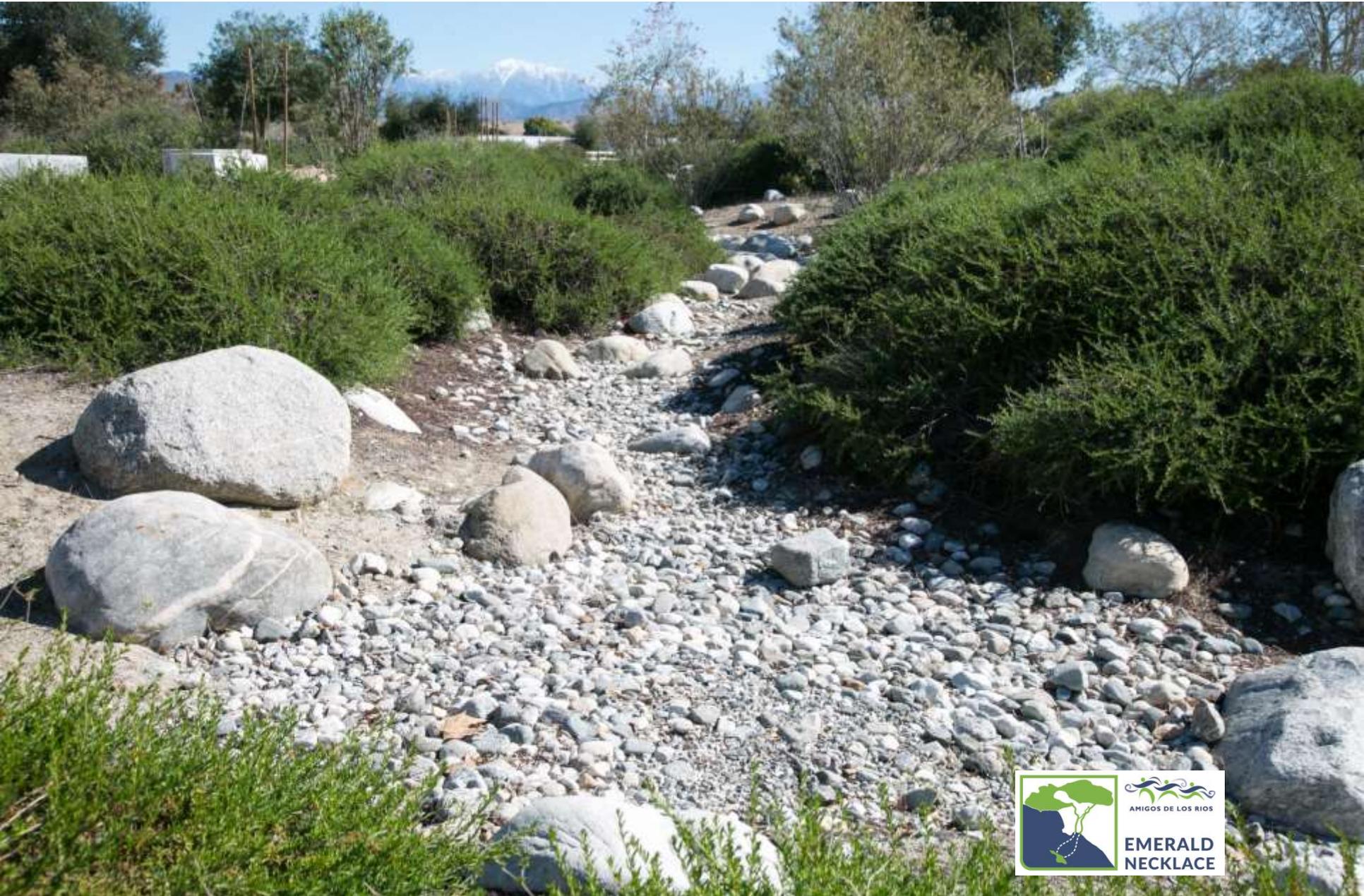


Legend

Mulched Landscape-Native Plants/Turf Removal	Proposed Tree	Bioswale/Raingarden
Storm Drain	Permeable Surface	Interpretive Elements
Entry/Exit	Habitat Garden	LID Planter
	Rain Barrel	



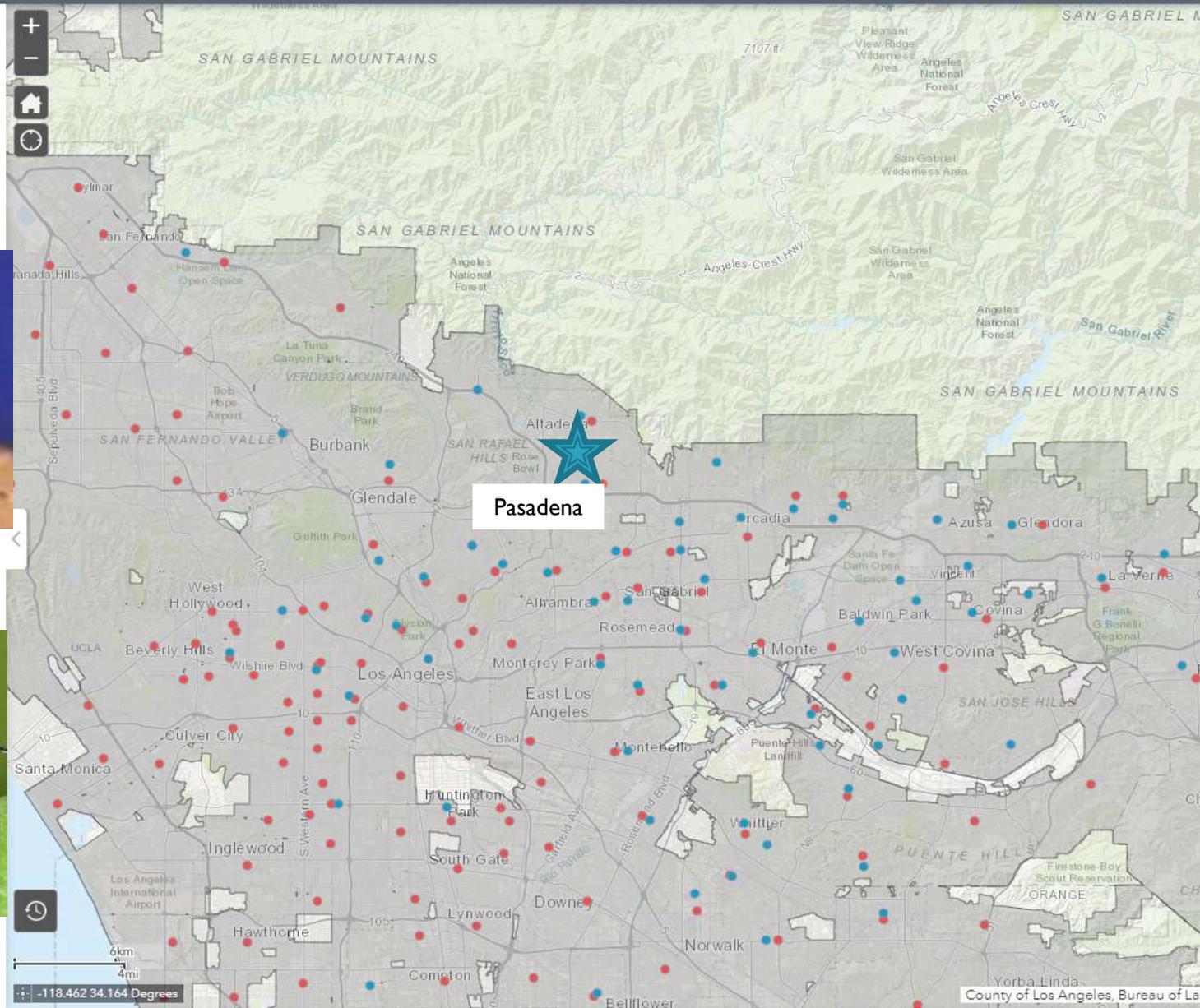
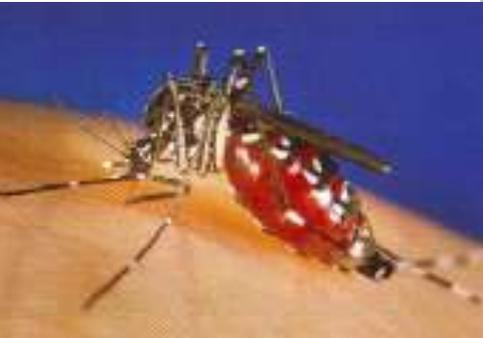




Cities with Current Aedes Detections

- Aedes aegypti
- Aedes albopictus

Approximate Aedes Infestation Area



Coordinates: -118.462 34.164 Degrees

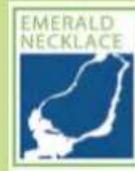
County of Los Angeles, Bureau of LA



AMIGOS DE LOS RIOS
**EMERALD
NECKLACE**

Emerald Necklace Green Infrastructure | Los Angeles County

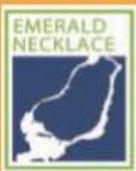
DURFEE-THOMPSON SCHOOL JOINT USE PROJECT, EL MONTE



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Emerald Necklace Green Infrastructure | Los Angeles County

MADRID EXERCISE & NATURE TRAIL



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ACRES: 7
FUNDER: Proposition A Supervisor Gloria Molina
DATE/COST: 2008 / \$340k
PROJECT TEAM: Amigos with VCA Engineering, Stephanie Biano, SGVOC and LAOC



> amenities



ACRES: 2
FUNDER: California Natural Resources Agency, California Community Foundation, California Department of Transportation, LA County Supervisor 1st District & LA County Open Space District, CAL FIRE
DATE: 2013
PROJECT TEAM: Amigos, Mountain View School District, Terra Form Construction, CCC, LAOC, and SGVOC



> exercise & nature

> Outdoor Classroom



> Therapy Area



> Educational Signage



> Nature Trail





Development of NEXT Generation Watershed Stewards



