

South Santa Monica Bay Watershed Area Steering Committee (WASC) Meeting Minutes



Wednesday, February 16, 2022
1:00pm - 3:00pm
WebEx Meeting

Committee Members Present:

Cung Nguyen, LA County Flood Control District (Agency)
E.J. Caldwell, West Basin (Agency)
*Aimee Zhao, Water Replenishment District (Agency)
*Christopher Lapaz, LA County Sanitation Districts (Agency)
*Darryl Ford, Los Angeles Recreation and Parks (Agency)
Craig Cadwallader, Surfrider Foundation (Community), Chair
Marissa Caringella, Santa Monica Bay Restoration Commission (Community)
Hany Fangary, Fangary Law Group (Community)
Wendy Butts, Los Angeles Conservation Corps (Community)
Eliza Jane Whitman, Carson (Municipal)
Susie Santilena, Los Angeles (Municipal)
*Thuan Nguyen, LA County (Municipal)
John Dettle, Torrance (Municipal)
Geraldine Trivedi, EWMP: Manhattan Beach (Municipal), Vice Chair
Heecheol Kwon, EWMP: Hawthorne (Municipal)
Ken Rukavina, EWMP: Rancho Palos Verdes (Municipal)
Nancy Shrodes, Heal the Bay (Watershed Coordinator, non-voting member)

*Committee Member Alternate

There were no Committee Members absent.
See attached sign-in sheet for full list of attendees.

1. Welcome and Introductions

Craig Cadwallader, Chair of the South Santa Monica Bay (SSMB) WASC, welcomed Committee Members and called the meeting to order.

The Los Angeles County Flood District (District) staff conducted a brief tutorial on WebEx and facilitated the roll call of Committee Members. All Committee Members made self-introductions and a quorum was established.

2. Approval of Meeting Minutes from January 19, 2022

District Staff presented the meeting minutes from the previous meeting. Motion to approve meeting minutes by Member Ken Rukavina, seconded by Member Susie Santilena. The Committee voted to approve the January 19, 2022 meeting minutes (approved, see vote tracking sheet).

3. Committee Member and District Updates

Member Santilena announced their transition from the City of Los Angeles Mayor's Office to Los Angeles Sanitation and Environment and indicated that they would continue to serve on the WASC. Member Santilena introduced their new alternate, Ryan Jackson, who is taking over the Member's former duties at the Mayor's Office.

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District Staff provided an update, noting:

- On February 8, 2022, the Board of Supervisors voted to continue meeting virtually, acting under the authority of Assembly Bill 361 which authorizes public committees to meet without complying with all the teleconferencing requirements of the Brown Act when the situation warrants it. The Board is reviewing its position every 30 days.
- The District is continuing to process Transfer Agreement Addendums for Year 1 projects and initial Transfer Agreements for Year 2 projects. District staff requested the Project Developers to submit all required documents to safecleanwaterla@pw.lacounty.gov and to reach out to the District directly for any status updates.
- Projects approved for funding in year 1 (FY 20-21 Stormwater Investment Plan), Q2 2021 Quarterly Report for the Regional Program were due on Feb 15, 2022. For projects approved for funding in year 2 (FY 21-22 Stormwater Investment Plan) and projects receiving their first disbursement, their first quarterly report will be due on May 15, 2021. The May 15, 2021 quarterly report shall capture all expenditures through March 2022.
- The District will add a functionality to the existing Municipal Program Reporting Module to streamline the Annual Plan Process. The District will hold an informational session in early March and encouraged all municipalities to sign up for the Reporting Module to receive future notices.
- The District reminded the committee members that it is important for the WASC and the work of the Regional Program to remain transparent and fair. These principles are built into the SCWP and are represented by the *ex parte* disclosures on each agenda. WASC members whose job connects them to specific projects should ask colleagues or consultants to attend WASC meetings to share about or advocate for those projects during Stormwater Investment Plan deliberations and should avoid using their position as WASC members to advocate for projects from their home entities. Not all projects are connected to a WASC member's outside job, and those that aren't must advocate for their inclusion during the managed opportunities (the application itself, presentation(s), questions from the WASC, and the public comment period). Ensuring that each project gets treated fairly during discussion and voting agenda items and that all proponents have equal access to engage the WASC discussion needs to be part of how the WASC manages itself.

4. Watershed Coordinator Updates

Watershed Coordinator Nancy Shrodes provided an update, noting:

- Presented to the City of Carson City Hall about the SCWP. City Council members expressed enthusiasm about the program.
- Will hold a watershed-wide event on March 15 which will discuss how SCWP elements can address various issues.
- Held an event in Rancho Palos Verdes to spread program awareness among park-goers.
- Created an outreach plan to schedule meetings with underrepresented communities per Member Dettle's recommendation.
- Attended South Bay Regional Water Management Plan meeting on February 1.
- Attended meeting about issues, needs, and potential projects for local gardeners.
- Continuing to participate in Green School Yards working group.
- Working on presentation for South Bay Cities Council of Governments.
- Planning to meet with Northrop Grumman about the program and potential improvements for their campuses.

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Chair Cadwallader asked if there is flexibility for scheduling the upcoming watershed-wide event. Watershed Coordinator Shrodes replied that the date is firm. The event will include a 40-minute presentation followed by breakout rooms. Chair Cadwallader said that the South Bay has several meetings on Tuesdays, so it would be good to avoid scheduling events on Tuesdays in the future.

5. Public Comment Period

There were six (6) Public comment letters/emails submitted to the District in support of the City of Los Angeles Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance Project but none of the commenters were able to attend the meeting. The public comment cards/emails will be included in the meeting minutes.

6. Discussion Items:

a) Ex Parte Communication Disclosure

Member Thuan Nguyen noted their involvement with the Rancho Dominguez San Pedro Street Green Improvement project. Member Dettle said that they discussed projects with Vice Chair Geraldine Trivedi at the most recent Enhanced Watershed Management Program (EWMP) meeting.

b) Infrastructure Program (IP) Presentations

i) Downtown Lomita Multi-Benefit Stormwater Project

Presentation by Carla Dillon of the City of Lomita and Jennifer Coryell of CDM Smith
This project will improve water quality through an infiltration gallery and 34 drywells and create new green spaces and bike lanes in Downtown.

Vice Chair Trivedi noted that the project's goal is to meet community needs and asked what business needs would be met. Coryell suggested mainly through surface features like trees and bench placements, and even engage local artists to design new surface features. Most water quality aspects will be based on best engineering design. The Vice Chair asked whether geotechnical work would obtain a precise infiltration rate. Coryell stated that the infiltration rate currently used in preliminary design is based on the data from adjacent property and needs to be confirmed through geotechnical analysis on the actual project site.

Watershed Coordinator Shrodes noted that a community outreach and development plan is a great idea. Watershed Coordinator Shrodes asked for additional information about the plan—specifically, whether they have considered specific partnerships. Coryell said they have discussed engaging with local community groups to determine the best way to reach people, such as developing material in different languages. Coryell noted that they have not determined the specifics but understand that starting with local groups is the best way to reach the community. Metrics for community outreach will be developed and reported in the community outreach plan.

Member Cung Nguyen noted that the Flood Control District provided a letter of conceptual approval for the project in July 2021.

Member Santilena requested clarification about whether the 5.6-acre-foot capture over 110 acres is total capacity expected per storm event or annual collection number. Coryell said

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it is the 85th percentile 24-hour storm.

ii) **West Rancho Dominguez - San Pedro Street Green Improvement**

Presentation by Haris Harouny of Los Angeles County Public Works

This project will divert and capture stormwater runoff through the implementation of best management practices (BMPs) within road right of way.

Vice Chair Trivedi asked for an explanation of the proposed sacrificial drywells. Harouny explained that in order to avoid sediment clogging in production drywells, they will include “sacrificial drywells” before the main drywells. The “production drywells” will be located after the sacrificial drywells and will be much deeper. They should work for the lifetime of the project since they will not accumulate sediment.

Member Santilena asked if soil cells will be used for pre-treatment. Harouny said no, pre-treatment will include debris boxes and sacrificial drywells.

Member Darryl Ford asked for the distance of the road that runs along the project. Harouny said it is approximately 1.25 miles long.

iii) **Machado Lake Ecosystem Rehabilitation (MLER) Operation and Maintenance**

Presentation by Gordon Haines of City of Los Angeles Sanitation and Environment

This operations and maintenance (O&M) project ensures the sustainability, operability, and continuous water quality and community benefits provided by the existing MLERP.

Member Dettle asked for an explanation for the proposed \$1.4 million per year for O&M. Gordon Haines noted that the feasibility study contains details and shared that the O&M funds will cover: invasive species control, algae removal, sediment removal, security, and vector control. Member Dettle asked if they have documentation of the amount of money the City of Los Angeles pays for maintenance each year, since the project has been around for years. Haines said that documentation does exist the city has been contributing around 300k per year for maintenance. Member Dettle said they would like to see a comparison of that amount alongside the maintenance funding breakdown proposed for this project.

Watershed Coordinator Shrodes asked if City of LA are considering other leveraging funds. Haines said they have some Municipal Program funds and are considering other sources as well. Watershed Coordinator Shrodes asked about the process involved with gaining a diverse array of community support. Haines said stakeholders were already invested in the original project and formed the basis of their outreach. City of LA has communicated with members of the community through email, phone calls, and social media to request support.

Chair Cadwallader requested a comparison of maintenance costs at freshwater marshes with similar freshwater projects. The Chair also asked whether the project site is no longer considered an impaired waterbody. Haines replied that it is considered impaired. The project applicants included data regarding water quality in the feasibility report, which also includes a cost breakdown. Haines noted that the site is a complex ecosystem and requires substantial maintenance to keep running.

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c) Scientific Studies (SS) Presentations ([SCW Portal](#))

i) Regenerate LA: Nature-Based Solutions for Community Parks

Introduction by Mike Antos from the Stantec Regional Coordination team, on behalf of the District

Presentation by Callie Ham and Jessica Chirtas of Kiss The Ground

This study aims to restore soil health, improve soil permeability, reduce nitrate leaching and building resilience to droughts and floods in LA parks.

Member Dettle noted that the lake exceeds the nutrient Total Maximum Daily Load (TMDL) and asked if the applicant had considered using a park without nutrient TMDL exceedances. Ham said no, the park was selected in partnership with LA City Department of Recreation and Parks (Recreation and Parks). Ham conveyed that Recreation and Parks wanted to advance their understanding of soil health and land management at that site.

Member T. Nguyen confirmed their general understanding of the project. Chirtas added that they would collect soil cores, which would allow them to gauge baseline soil properties. They could repeat the sampling effort in different regions using a stratified random sampling approach. Then, they would sample again. The project would integrate water samples collected after rain events. It is difficult to capture changes with runoff because much of it depends on the intensity of the rain events.

7. Public Comment Period

Mark Hall (LA Vector Control District) expressed their support for the Machado Lake Project Operation & Maintenance Project. Vector control in the area and surrounding areas is important due to trash and debris. West Nile virus is present in the water and among the local bird population. There are mosquitos in the area, therefore, there is risk of human transmission.

District staff noted that public comments in support of the Machado Lake Project were received prior to the meeting and will be included with the meeting minutes.

8. Voting Items

a) Transfer Regenerate LA's submittal from the Technical Resources Program (TRP) to Scientific Studies Program.

Chair Cadwallader asked if the Committee would like to discuss this item prior to holding the vote. Vice Chair Trivedi said that the park selection is not ideal due to the TMDL, which would be increased by composting associated with the study. In addition, an outreach plan is not in place. Member Dettle added that compost creates nutrients, which can leach into the lake and have an adverse effect.

Member Santilena said they are not opposed to transferring from Technical Resource Program to the Scientific Study. Transferring the Scientific Study would not commit the WASC to selecting the Scientific Study in the Stormwater Investment Plan for funding. Member Santilena noted that the nutrient issue should be assessed in detail and the sources of the nutrients considered in the context of where the applicant proposes to conduct the study.

Chair Cadwallader expressed concern about the questions that remain. They feel that additional

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information may help the Committee make a decision. Watershed Coordinator Shrodes said that community input is important to the Scientific Study and that the applicant distributed informational material throughout the community. Watershed Coordinator Schrodes is not concerned about the community outreach aspect of the project. Member Rukavina said they are not voting on the merits of the project—they are voting on whether to move it from the Technical Resources Program to the Scientific Studies Program.

Chair Cadwallader asked District staff for their recommendations moving forward. District staff suggested a motion to move the project from the Technical Resources Program to the Scientific Studies program. Regional Coordinator Antos added that the WASC will receive insight from the Southern California Coastal Water Research Project if they move the project to the SS program.

Member Santilena motioned to transfer the submittal to the Scientific Studies Program, seconded by Member T. Nguyen. The Committee voted to transfer the submittal (approved, see vote tracking sheet).

9. Items for Next Agenda

The next meeting is scheduled for March 16, 2022, 1:00 PM – 3:00 PM. See the SCWP website for meeting details.

District staff noted that a Preliminary Ranking Survey will be shared with the WASC after the conclusion of this meeting. The purpose of the Preliminary Ranking Survey is to help facilitate initial discussion for Projects, Project concepts and Scientific Studies. District staff asked the Committee members if they had concerns with pursuing that option again. No members commented.

10. Adjournment

Chair Cadwallader thanked WASC members and the public for their attendance and participation and adjourned the meeting.

SOUTH SANTA MONICA BAY WASC MEETING - February 16, 2022

Member Type	Organization	Quorum Present				Voting Items	
		Member	Voting?	Alternate	Voting?	Approve Meeting Minutes For January 19th, 2022	Elect to transfer Regenerate LA's Proposal from the Technical Resources Program to Scientific Studies Program.
Agency	LACFCD	Cung Nguyen	x	Ramy Gindi			y
Agency	West Basin MWD	E.J. Caldwell	x	Alex Heide		a	y
Agency	Water Replenishment District	Robert Beste		Amiee Zhao	x	y	y
Agency	LAC Sanitation District	Kristen Ruffell		Christopher Lapaz	x	y	y
Agency	LA Recreation & Parks	Cathie Santo Domingo		Darryl Ford	x	y	y
Community Stakeholder	VACANT						
Community Stakeholder	Surfrider Foundation South Bay Chapter	Craig Cadwallader	x	Mary Simun		y	y
Community Stakeholder	Santa Monica Bay Restoration Commission	Marissa Caringella	x			y	y
Community Stakeholder	Fangary Law Group	Hany Fangary	x	Justin Massey			y
Community Stakeholder	Los Angeles Conservation Corps	Wendy Butts	x	Bo Savage		y	y
Municipal Members	Carson	Eliza Jane Whitman	x	Vernon Villanueva		y	y
Municipal Members	Los Angeles	Susie Santilena	x	Ryan Jackson		y	y
Municipal Members	LAC Public Works	TJ Moon		Thuan Nguyen	x	y	y
Municipal Members	Torrance	John Dettle	x	Wilson Mendoza		y	n
Municipal Members	EWMP: Beach Cities	Geraldine Trivedi	x	Doug Krauss		y	n
Municipal Members	EWMP: Dominguez	Heecheol Kwon	x	Lauren Amimoto		y	y
Municipal Members	EWMP: Peninsula	Ken Rukavina	x	David Wahba		a	n
Watershed Coordinator	Heal the Bay	Nancy Shrodes	x			N/A	N/A
Total Non-Vacant Seats		16			Yay (Y)	12	13
Total Voting Members Present		16			Nay (N)	0	3
Agency		5			Abstain (A)	2	0
Community Stakeholder		4			Total	14	16
Municipal Members		7				Approved	Approved

Other Attendees

- Alex Chin
- Amanda Begley
- Austine Racelis
- Bridget Childs
- Callie Ham
- Carla Dillon
- Christine McLeod McLeod
- Cristian Hernandez
- Cung Nguyen
- Curtis Fang
- David A Sundstrom
- emily ramos
- Gordon Haines
- Gregor Patsch
- Guustavo Orozco
- Haris Harouny
- Jacqueline Mak
- Jennifer Coryell
- Jessica Chiartas
- Jud Warren
- Julian Lee
- Kathleen McGowan
- Kevin Kim (LACFCD)
- LA Sanitation perry
- Mark Hall
- Michael Scaduto
- Michelle Staffield
- Mike Antos (Regional Coord.)
- Ryan Jackson
- Sheila Brice
- Sonali Abraham
- Tammy Takigawa
- Uriel Cobian
- wendy dinh
- Vernon Villanueva
- Ryan Jackson
- Wilson Mendoza
- Lauren Amimoto

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	Downtown Lomita Multi-Benefit Stormwater Project
Project Lead	City of Lomita
Total Funding Requested	\$449,300
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	20	20	20	•
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	30	30	30	•
Water Supply Part 1	0	13	0	•
Water Supply Part 2	0	12	0	•
Community Investment	5	10	5	•
Nature-Based Solutions	13	15	13	•
Leveraging Funds Part 1	6	6	6	•
Leveraging Funds Part 2	4	4	2	•
TOTALS	78	110	76	•

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	Fulton Playfield Multi-Benefit Infiltration Project
Project Lead	City of Redondo Beach
Total Funding Requested	\$4,292,138
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	20	20	20	<ul style="list-style-type: none"> Recommend using a lower more conservative infiltration rate (0.25 cfs). Update application. Adjusted drawdown rate to 0.25 cfs
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	30	30	25	<ul style="list-style-type: none">
Water Supply Part 1	6	13	0	<ul style="list-style-type: none">
Water Supply Part 2	5	12	0	<ul style="list-style-type: none">
Community Investment	10	10	5	<ul style="list-style-type: none"> Not part of a school
Nature-Based Solutions	15	15	10	<ul style="list-style-type: none">
Leveraging Funds Part 1	0	6	0	<ul style="list-style-type: none">
Leveraging Funds Part 2	4	4	3	<ul style="list-style-type: none"> Outlined community identified needs
TOTALS	90	110	63	<ul style="list-style-type: none"> Add explanation of how detention basin works

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	Hermosa Beach Multi-Benefit Parking Lot Greening Project (Lot D)
Project Lead	Hermosa Beach
Total Funding Requested	\$423,950
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	20	20	20	•
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	30	30	30	•
Water Supply Part 1	0	13	0	•
Water Supply Part 2	0	12	0	•
Community Investment	5	10	5	• Credit for localized flooding
Nature-Based Solutions	11	15	11	•
Leveraging Funds Part 1	6	6	6	•
Leveraging Funds Part 2	4	4	4	• 4 letters of support and extensive community engagement
TOTALS	76	110	76	•

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	Los Angeles Harbor College Central and West Campus Underground Infiltration and Biofiltration Project
Project Lead	Los Angeles Community College District & BuildLACCD
Total Funding Requested	\$3,152,758
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	7	20	7	<ul style="list-style-type: none"> Need justification of how effective drawdown rate and stormwater use was determined Provided requested geotech info
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	20	30	20	<ul style="list-style-type: none">
Water Supply Part 1	0	13	0	<ul style="list-style-type: none">
Water Supply Part 2	0	12	0	<ul style="list-style-type: none">
Community Investment	10	10	5	<ul style="list-style-type: none"> Minimal park space and recreation enhancement
Nature-Based Solutions	15	15	11	<ul style="list-style-type: none"> Removal of impermeable area
Leveraging Funds Part 1	6	6	6	<ul style="list-style-type: none">
Leveraging Funds Part 2	4	4	2	<ul style="list-style-type: none"> Have not engaged benefitting DACs Need to provide referenced letter of support
TOTALS	62	110	51	<ul style="list-style-type: none"> Does not meet points threshold

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	Machado Lake Ecosystem Rehabilitation (MLER) Operations and Maintenance
Project Lead	City of Los Angeles, LA Sanitation and Environment
Total Funding Requested	\$5,700,000
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	20	20	20	<ul style="list-style-type: none"> Recommend scoring as dry weather project
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	30	30	20	<ul style="list-style-type: none">
Water Supply Part 1	0	13	0	<ul style="list-style-type: none">
Water Supply Part 2	9	12	0	<ul style="list-style-type: none"> Need verification of amount of potable water offset by project
Community Investment	10	10	5	<ul style="list-style-type: none">
Nature-Based Solutions	10	15	10	<ul style="list-style-type: none">
Leveraging Funds Part 1	3	6	3	<ul style="list-style-type: none">
Leveraging Funds Part 2	4	4	3	<ul style="list-style-type: none"> Discussion of ongoing engagement
TOTALS	86	110	61	<ul style="list-style-type: none">

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	West Rancho Dominguez - San Pedro Street Green Improvement
Project Lead	Los Angeles County Public Works
Total Funding Requested	\$800,000
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	11	20	11	•
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	30	30	30	•
Water Supply Part 1	0	13	0	•
Water Supply Part 2	0	12	0	•
Community Investment	5	10	5	• Addresses localized flooding, improving vegetation
Nature-Based Solutions	13	15	10	• Natural materials • Over claim of removal of impermeable area
Leveraging Funds Part 1	6	6	6	•
Leveraging Funds Part 2	4	4	2	• Provide info on August community engagement
TOTALS	69	110	64	•

Safe, Clean Water Program

Scoring Rubric - Fiscal Year 2022-2023



Watershed Area	South Santa Monica Bay
Project Name	Wilmington-Anaheim Green Infrastructure Corridor Project
Project Lead	City of Los Angeles, Bureau of Sanitation and Environment
Total Funding Requested	\$12,808,258
Project Type	Wet

Scoring Section	Applicant Score	Maximum Points	Scoring Committee Score	Notes
Water Quality Wet + Dry Weather Part 1	7	20	7	<ul style="list-style-type: none"> Need verification of how infiltration rate was determined No geotech report or plans provided
Water Quality Wet + Dry Weather (30 pts) Part 2 Dry Weather (20 pts) Part 2	30	30	30	<ul style="list-style-type: none">
Water Supply Part 1	0	13	0	<ul style="list-style-type: none">
Water Supply Part 2	5	12	0	<ul style="list-style-type: none"> Need to provide proof of water supply benefit General letter of support from WRD
Community Investment	10	10	5	<ul style="list-style-type: none"> Project not in a school
Nature-Based Solutions	11	15	11	<ul style="list-style-type: none">
Leveraging Funds Part 1	N/A	6	0	<ul style="list-style-type: none">
Leveraging Funds Part 2	4	4	3	<ul style="list-style-type: none">
TOTALS	67	110	56	<ul style="list-style-type: none"> Does not meet points threshold



Public Comment Form

Name:* _____

Organization*: _____

Email*: _____

Phone*: _____

Meeting: _____

Date: _____

LA County Public Works may contact me for clarification about my comments

*Per Brown Act, completing this information is optional. At a minimum, please include an identifier so that you may be called upon to speak.

Phone participants and the public are encouraged to submit public comments (or a request to make a public comment) to SafeCleanWaterLA@dpw.lacounty.gov. All public comments will become part of the official record.

Please complete this form and email to SafeCleanWaterLA@dpw.lacounty.gov by at least 5:00pm the day prior to the meeting with the following subject line: "Public Comment: [Watershed Area] [Meeting Date]"
(ex. "Public Comment: USGR 4/8/20").

Comments

Yisak Kim

From: Guyton Durnin <gwdurnin@gmail.com>
Sent: Tuesday, February 15, 2022 4:58 PM
To: DPW-SafeCleanWaterLA
Subject: Support for City's Machado Lake Funding Request

CAUTION: External Email. Proceed Responsibly.

I, Guyton Durnin, support the City of Los Angeles Sanitation and Environment's funding request to the LA County Safe Clean Water Regional program for the Machado Lake Ecosystem O&M project. This project supports the overall lake ecosystem and continues the amazing work volunteers have done to transform it in the past 25 years (when I first started to volunteer).

Thanks!
Guyton

Yisak Kim

From: Martin Byhower [REDACTED]
Sent: Monday, February 14, 2022 6:25 PM
To: DPW-SafeCleanWaterLA
Subject: Public Comment: SSMB WASC Feb 16, 2022

CAUTION: External Email. Proceed Responsibly.

Re: "Agenda Item 6b)iii: Machado Lake Ecosystem Rehabilitation (MLER) Operation and Maintenance Presentation"

Martin Byhower
[REDACTED]

My name is Martin Byhower. I worked for over 30 years to help improve conditions and restore the historically spectacular ecosystem that was once present at Ken Malloy Harbor Regional Park. Years of neglect, abuse and misuse led to extreme degradation in the park. The rehabilitation program funded by Proposition O has led to dramatic improvements. Trash and homeless encampments seem to still be a problem there even though innovative systems for improving water quality and habitat have made a huge difference. Unfortunately, entropy is rampant at the park and it requires constant oversight and management to maintain and continue to improve the amenities there. The park could easily slip back into its former status as a meeting point for gangs and criminal activity, chemical spills from the adjacent refinery, breeding grounds for disease vector mosquitoes and colonization by invasive species. The park is located in a relatively disenfranchised, economically depressed, industry-adjacent area, primarily populated by people of color. Environmental justice dictates that the park remains attended to, and that the water quality and habitat improvements continue to be monitored and extended so that local residents as well as visitors from the broader region have a lovely, safe experience when visiting the park.

Machado Lake and the surrounding park contain unique and environmentally sensitive coastal wetlands, coastal sage scrub, and other threatened habitats that are currently seeing the return of threatened and endangered migratory and breeding species. It is the only coastal wetland for miles north or south along the Pacific Funding for removal and control of terrestrial and aquatic weeds and invasive plants is necessary to protect both the lake/wetlands and the native plant habitat restoration areas established as part of the original City Proposition O project around the Lake and Ken Malloy Regional Park.

Please generously fund the city O&M Budget so that we don't lose our precious resource!

Thank you,
Martin Byhower

I arise in the morning torn between a desire to savor the world and to save the world. This makes it hard to plan the day.

– E.B.White

It's Your Nature
martinbyhower.com



Public Comment Form

Name:* _____

Organization*: _____

Email*: _____

Phone*: _____

Meeting: _____

Date: _____

LA County Public Works may contact me for clarification about my comments

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Comments



Public Comment Form

Name*: Sydney Baune Organization*: Harbor Community Neighborhood Coalition
Email*: Gomaxbaby@aol.com Phone*: 310-612-4952
Meeting: SSMB WASC Date: 2/16/2022

LA County Public Works may contact me for clarification about my comments
*Per Brown Act, completing this information is optional. At a minimum, please include an identifier so that you may be called upon to speak.

Phone participants and the public are encouraged to submit public comments (or a request to make a public comment) to SafeCleanWaterLA@dpw.lacounty.gov. All public comments will become part of the official record.

Please complete this form and email to SafeCleanWaterLA@dpw.lacounty.gov by at least 5:00pm the day prior to the meeting with the following subject line: "Public Comment: [Watershed Area] [Meeting Date]" (ex. "Public Comment: USGR 4/8/20").

Comments

I support the City of Los Angeles Sanitation and Environment's funding request to the LA County Safe Clean Water Regional program for the Machado Lake Ecosystem O&M project...

I am so sorry I was unable to be here in person to speak about this beloved park! Machado Lake is an ancient, naturally occurring lake and a beautiful source of joy for Harbor City and the surrounding communities. Each day families utilize this amazing park. Every year it is transformed into a winter wonderland for thousands to enjoy. This park even contains a bird sanctuary! Every effort should be made to maintain and preserve the beauty of this park and the rare lake within its boundaries.

Yisak Kim

From: Stephen Dexter <sgdexter@earthlink.net>
Sent: Wednesday, February 16, 2022 7:08 AM
To: DPW-SafeCleanWaterLA
Subject: Public Comment: SSMB WASC Feb 16, 2022

CAUTION: External Email. Proceed Responsibly.

Re: Agenda Item 6b)iii: Machado Lake Ecosystem Rehabilitation (MLER) Operation and Maintenance Presentation”

Stephen Dexter
106 West Street
Methuen, MA 01844
sgdexter@earthlink.net
(310) 465-9611

My name is Stephen Dexter and while living in Los Angeles over the course of three decades, I enjoyed birdwatching at Harbor Park on a regular basis. It truly is a gem in the middle of the city, where families go to picnic and enjoy themselves. A magnet for attracting birdwatchers, photographers and others seeking some tranquility and beauty.

Over the years, I watched the quality of the park diminish - being confronted in the woods by hostile vagrants on several occasions, participating in several cleanups to get rid of trash as well as human feces. When money was set aside and used to improve the quality of the park I was thrilled.

Before moving back to Massachusetts, I saw the park fall back into chaos again. Money needs to be used to consistently maintain a reasonable level of quality, so families can enjoy themselves without being subjected to harassment by the homeless, without having to witness trash scattered about.

This is one place where families, who cannot afford to travel to scenic spots outside of Los Angeles, can enjoy. This is one place where birdwatchers like myself, can enjoy a diversity of bird life that cannot be found anywhere else in the greater Los Angeles area.

My thanks, in advance for allocating the funds to go toward this worthwhile cause.

Stephen Dexter



Downtown Lomita Multi-Benefit Stormwater Project

Infrastructure Program

Fiscal Year 2022-2023

South Santa Monica Bay Watershed Committee

City of Lomita

Presented by

Carla Dillon, City of Lomita

Jennifer Coryell, CDM Smith



Project Overview

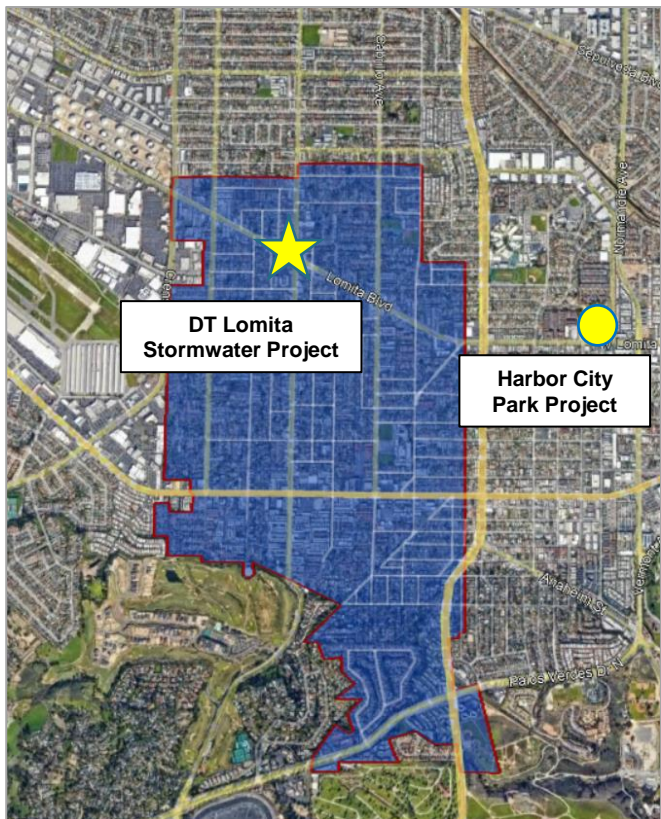
Project located in Downtown Lomita that will include an infiltration gallery, 34 drywells, increased green space, and new bike lanes.

- Primary and Secondary Objectives:
 - Improve water quality within the Wilmington Drain watershed (tributary to the Machado Lake Watershed)
 - Increase green space and decrease the local heat island effect
 - Encourage sustainable modes of transportation
- Project Status: conceptual design and feasibility study completed
- Total Funding Requested to Complete Design: \$449,300
 - Year 1 Funding Requested: \$300,000
 - Year 2 Funding Requested: \$149,300



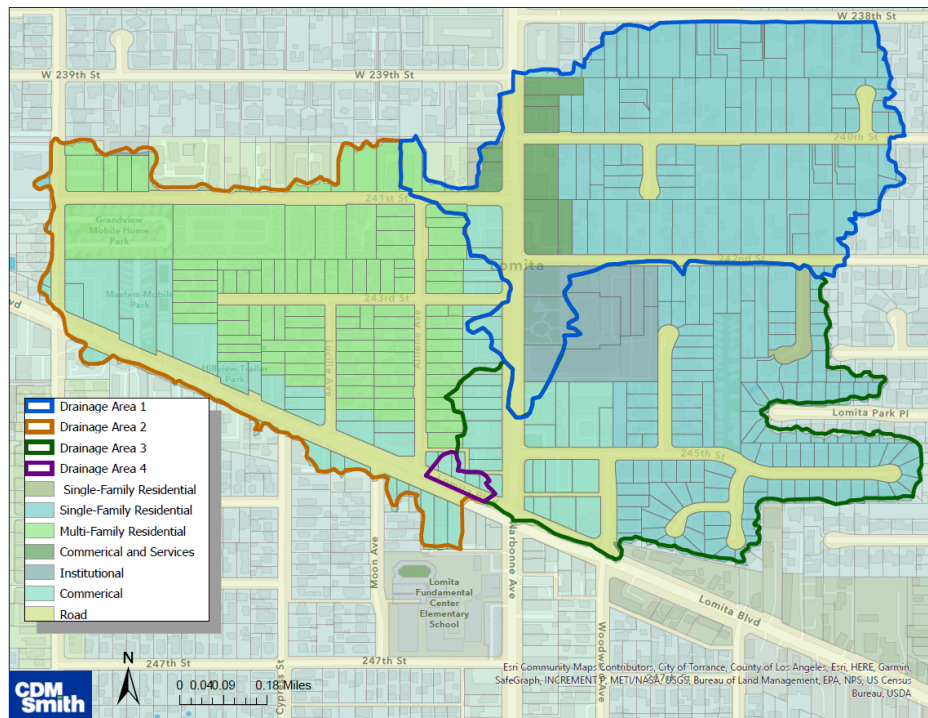


Project Location

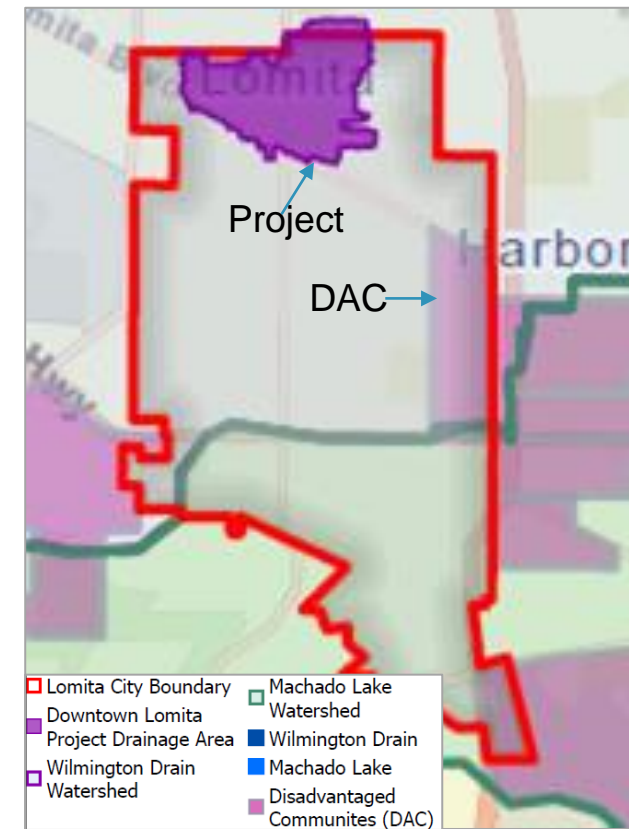


The City of Lomita is part of the Dominguez Channel WMG, within the South Santa Monica Bay WASC.

The project is upstream of the Harbor City Park Project currently funded through the TRP Program.



The project has a total capture area of 110.5 acres, with 72.5 acres of impervious area.

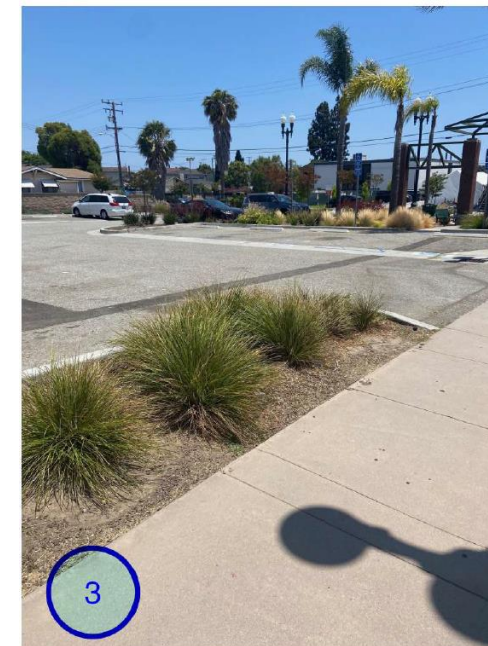


The project is located 0.6 miles from the nearest DAC (located within City boundary); DAC likely to benefit from improvements to their downtown area.



Project Background

- The need for a **stormwater quality project** in the Downtown Area of Lomita was identified during the development of the 2021 EWMP
- Project area is **highly impervious** and **lacks** green space, shade, pedestrian facilities, and a designated, safe bicycle lane
- Area frequently experiences localized **flooding**
- As the stormwater quality project was developed, **additional amenities** to residents fit seamlessly into the design (e.g., rebuild better goals; multi-benefit features)
- Project provides **stormwater capture, downstream water quality improvement, beautification, and recreational/transportation benefits** to the community.
- Goal is to tailor surface features to **meet the needs of the community**.
- City began engaging local businesses, stakeholders, and government representatives of the district, and will facilitate **two-way communication** and **workshops** during design.



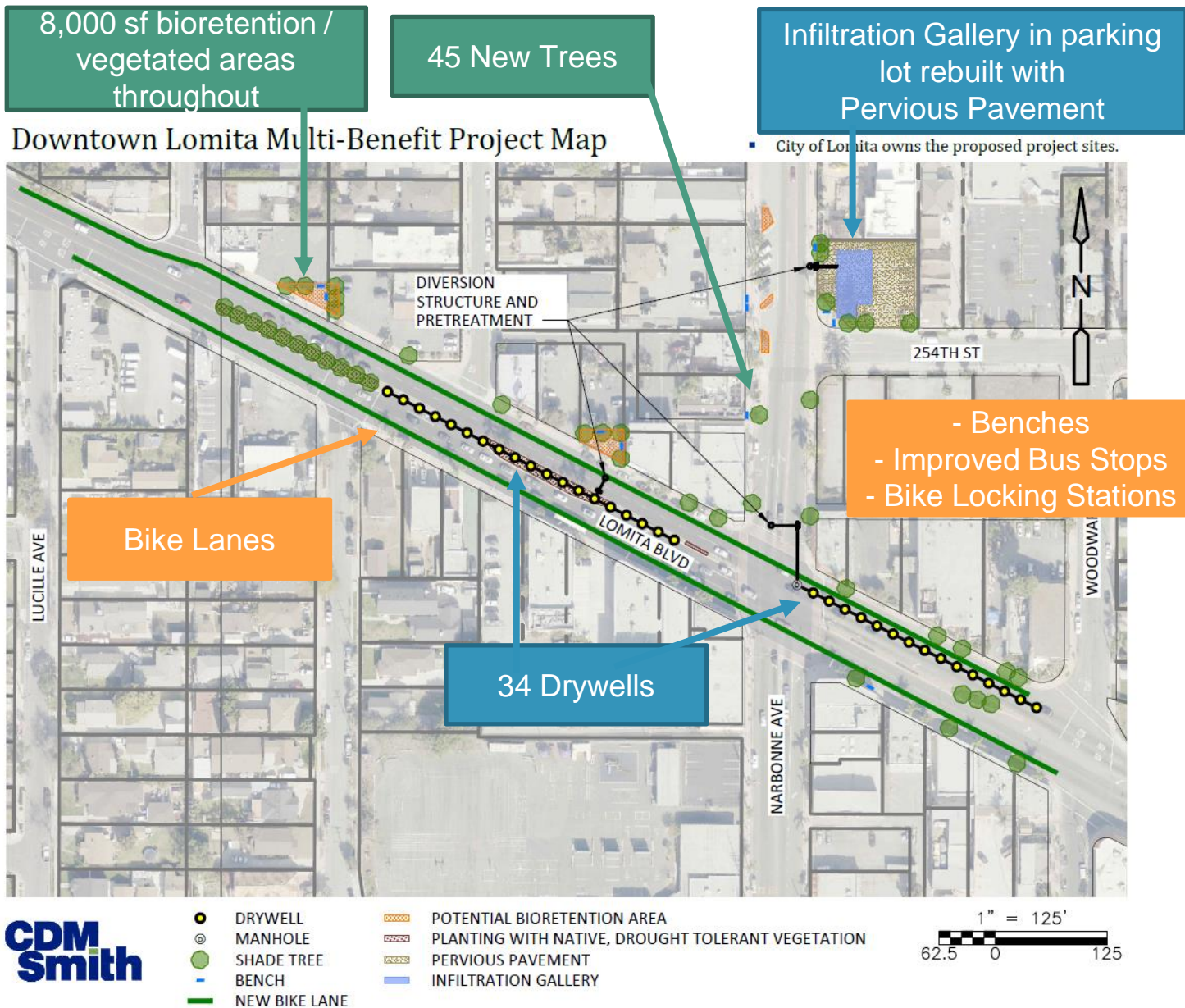
Narbonne Ave. Parking Lot Site Conditions



Lomita Blvd. Site Conditions ⁴



Project Details



- The proposed BMPs will capture and infiltrate **5.6 ac-ft** of runoff over the 110-acre drainage area.
- Infiltration rate of **16.9 inches/hour** assumed based on recently **completed geotechnical testing** done directly adjacent to infiltration gallery; measured values were further reduced by a factor of safety (factor based on LA County LID manual). Additional geotechnical investigations to be conducted during design to confirm.
- Proposed **community amenities** will increase shade, reduce heat island effect, encourage physical activity and alternate modes of transportation, provide seating, and promote socialization in Downtown Lomita.
- **City commits over 50% of total cost, equaling \$449,500**, for the pre-design and design phases.





Cost & Schedule

Phase Costs			
Phase	Description	Cost	Completion Date
Design	Pre-design (conceptual design and feasibility study already completed)	\$ 102,000.00	07/2021
Design	Geotechnical Investigations	\$ 150,000.00	06/2023
Design	Permitting (CEQA, environmental permits, right-of-way permits, agency agreements)	\$ 107,800.00	08/2023
Design	Design (30%, 60%, 90%, 100%, and Geotechnical Investigations)	\$ 539,000.00	10/2023
Construction	Infiltration gallery, drywells, bioretention area, permits and insurance, contingency	\$ 5,390,000.00	10/2025
Total Funding:		\$ 6,288,800.00	

Annual Cost Breakdown	
Annual Maintenance Cost:	\$ 25,000.00
Annual Operation Cost:	\$ 25,000.00
Annual Monitoring Cost:	\$ 25,000.00
Project Life Span:	50 years

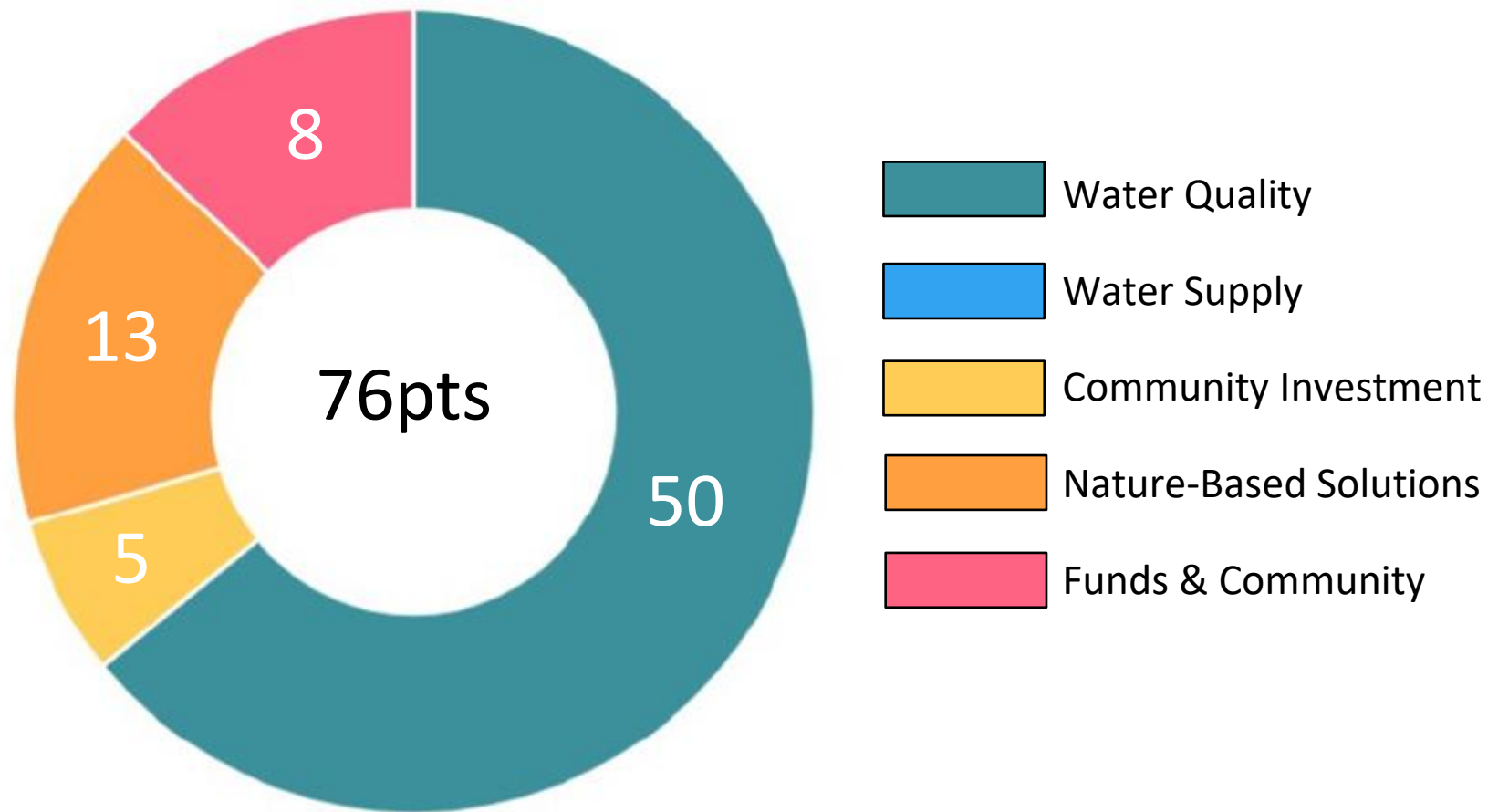


Funding Request

Funding Requested by Year & Phase			
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
Year 1	\$ 300,000.00	Design	Year 1 (Geotechnical Investigation, CEQA, and Design)
Total Year 1	\$ 300,000.00		
Year 2	\$ 149,300.00	Design	Year 2 (Design (60, 90, 100) and Permitting)
Total Year 2	\$ 149,300.00		
Total Funding:	\$ 449,300.00		

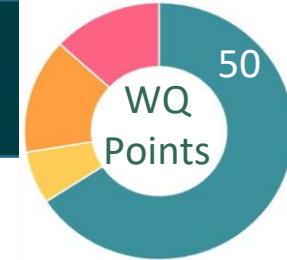


Scoring Committee Score





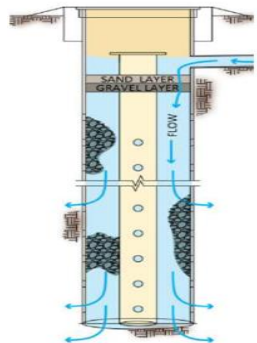
Water Quality Benefits



- **Water quality benefits** achieved through removal of pollutants via capture, infiltration, and filtration of 5.6 ac-ft of stormwater (85th percentile, 24-hour storm)
- Multiple **pollutants removed** including nitrogen (Machado Lake Nutrients TMDL) as the primary pollutant, and zinc (DC and LA/LB Harbor Toxic Pollutants TMDL) as the secondary pollutant.
- **Load reductions** estimated to be: 92% for nitrogen and 85% for zinc.

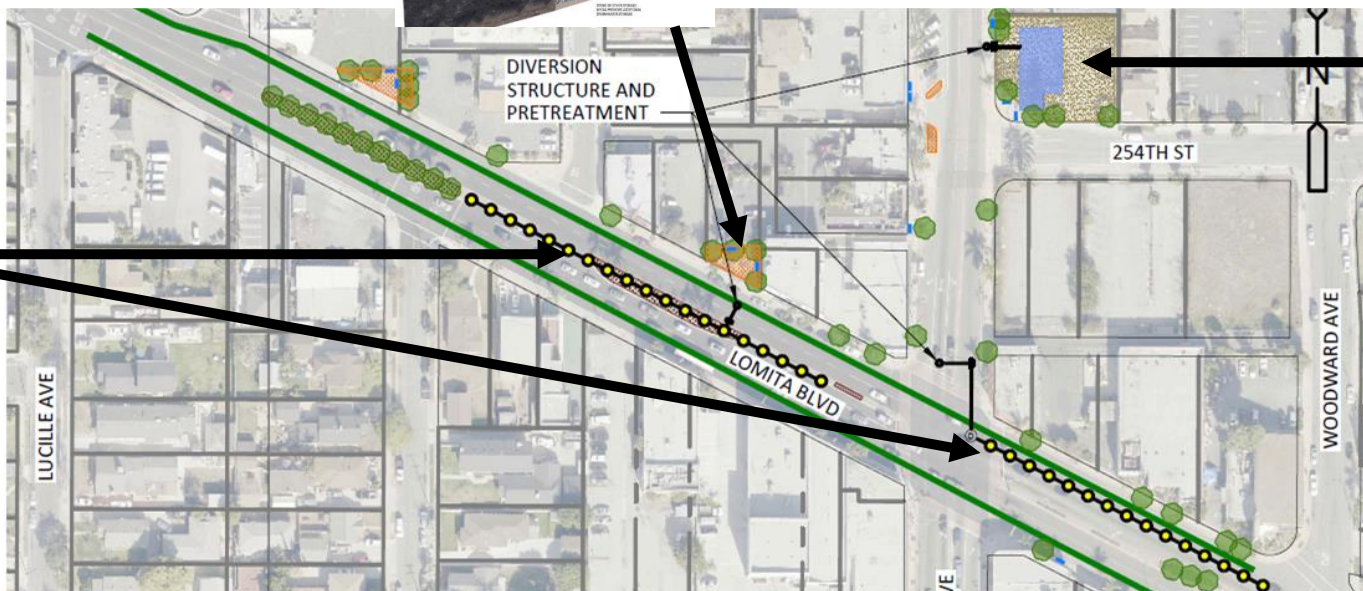


Area 4: 0.03-ac-ft to bioretention.

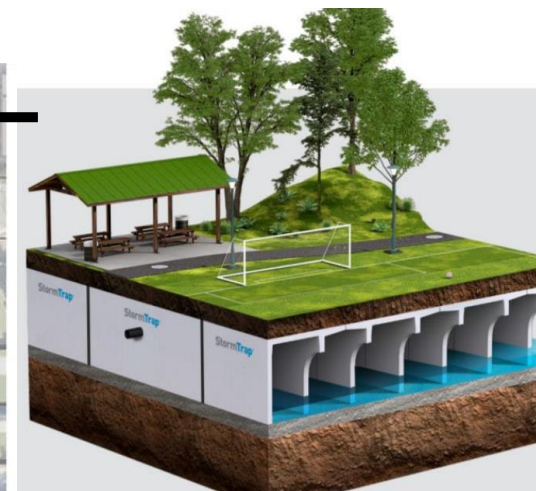


**Area 2: 40-ac tributary
2.2-ac-ft to 19 drywells**

**Area 3: 33-ac tributary
1.7 ac-ft to 15 drywells**



Pretreatment at all three diversion points



Example subsurface storage under parking lot

Area 1: 1.7 ac-ft to subsurface infiltration gallery (3,100 sf, 5' depth); 37-ac drainage area



Community Investment Benefits and Nature-Based Solutions

- **Community Investment Benefits (5 pts)**

- **Flood management:** Reduced flooding in Downtown Lomita by infiltrating 5.6 ac-ft of stormwater
- **Enhance recreational opportunities:** Bicycle lane installed along north and south sides of Lomita Blvd from Woodward Ave. to Lucille Ave. with bike lock stations. Provides the opportunity for cyclists to safely navigate this stretch of roadway. Promoting alternatives to vehicular travel will also reduce air pollution and potentially increase foot traffic to Downtown Lomita. Pedestrian-friendly benches will encourage walking and socializing.
- **Reduced local heat-island effect and increased shade:** Conceptual design include a total of 45 trees and 8,000 sf of drought-tolerant native bioretention areas along the sidewalk and medians. This will result in the reduction in ambient air temperature by 0.02 degrees Celsius.

- **Nature-Based Solutions (13 pts)**

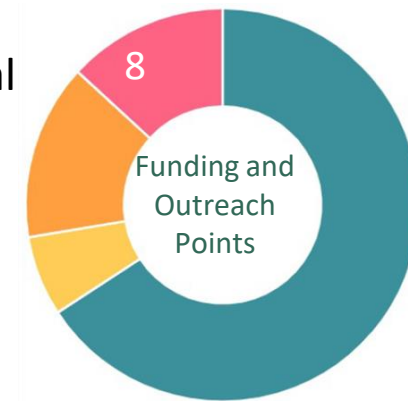
- Natural processes and natural materials are implemented through **infiltration** via infiltration galleries, drywells and pervious pavement, and **biofiltration** via vegetated bioswales and tree wells. Treatment through vegetation and addition of trees has the added benefit of reducing the heat island effect.
- 12,300 SF of pervious area is **converted to impervious** (65% of project footprint)






Leveraging Funds and Community-Based Outreach

- **Cost Share:** City commits **\$449,500** in matching municipal funds, which exceeds **50%** of the total cost (\$51,000 total for pre-design and \$398,500 for design).
- **Community-Based Outreach:**
 - Engagement with local businesses and communities began during the feasibility study
 - Community stakeholders, businesses, and local representatives provided initial letters of support
 - A comprehensive **Outreach and Engagement Plan** will be developed during the design phase to expand on this initial effort to facilitate two-way communication and ensure the final design includes elements with strong public support.
 - Stakeholder workshops will be held on days/times when the **highest number of community members** are expected to attend. Workshops will inform as well as engage the local community.
 - Local organizations, such as the Chamber of Commerce, will be **partnered** with to notify the community about the project and upcoming workshops. Social media and other means will be used as well.





Questions?



West Rancho Dominguez – San Pedro Street Green Improvement Project

Infrastructure Program
Fiscal Year 2022-2023
South Santa Monica Bay
Los Angeles County Public Works
Haris Harouny, P.E.



Project Overview

Project will divert and capture stormwater runoff through the implementation of best management practices (BMPs) within road right of way.

- Primary Objective: Water Quality
- Secondary Objectives: Community Enhancements
- Project Status: Requesting funds for Design
- Total Funding Requested: \$800,000





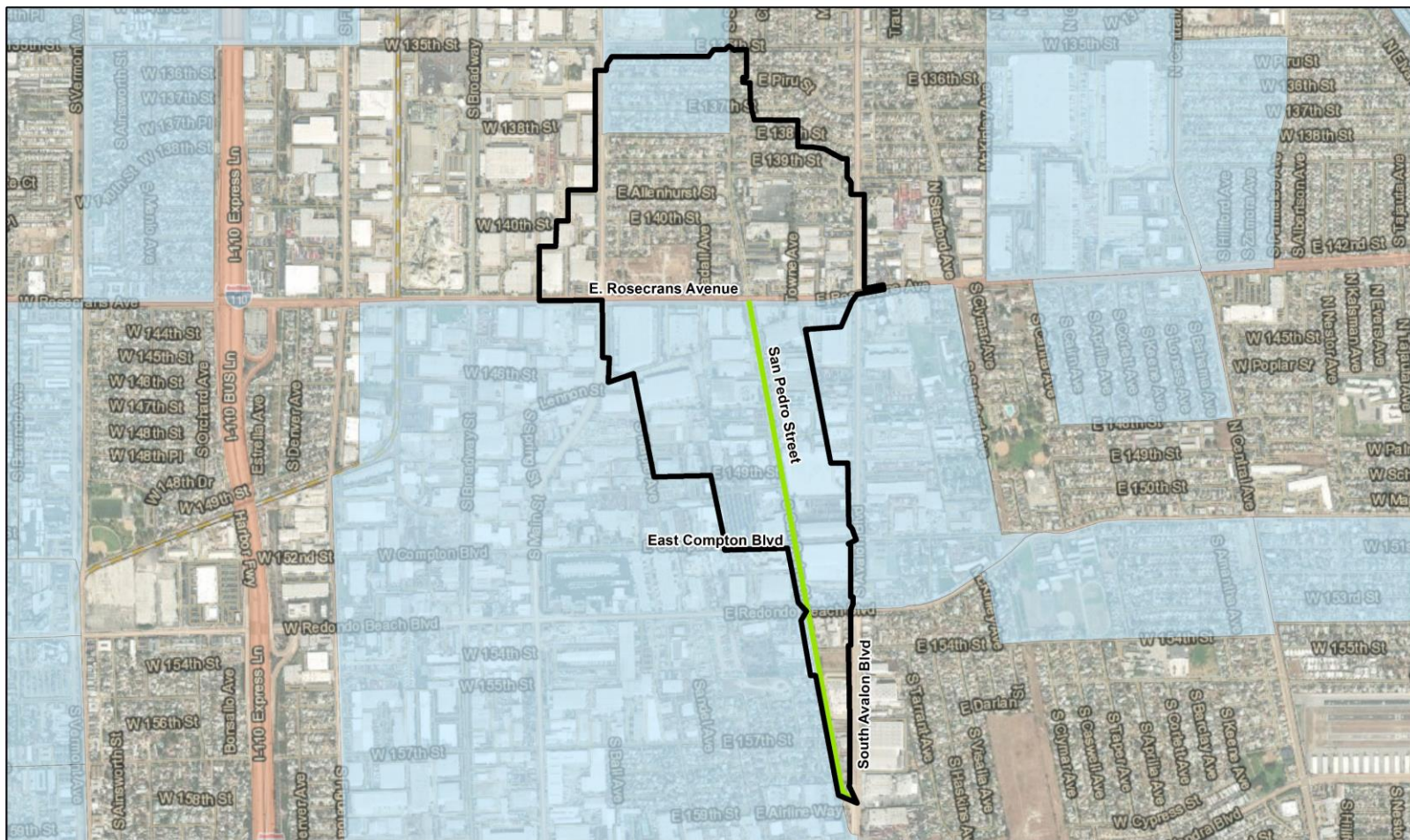
Project Location



- Dominguez Channel Watershed
- South Santa Monica Bay Watershed Area Steering Committee
- Unincorporated Area of Los Angeles County: West Rancho Dominguez



Project Location



- San Pedro Street between Rosecrans Ave and Avalon Blvd
- Capture Area = 278 Acres
- Project limits are within Disadvantage Communities

San Pedro Street Green Improvement Project (GS.025)

- Project Drainage Area
- Green Street Project Site
- Disadvantaged Communities (Census Block Group)



County of Los Angeles

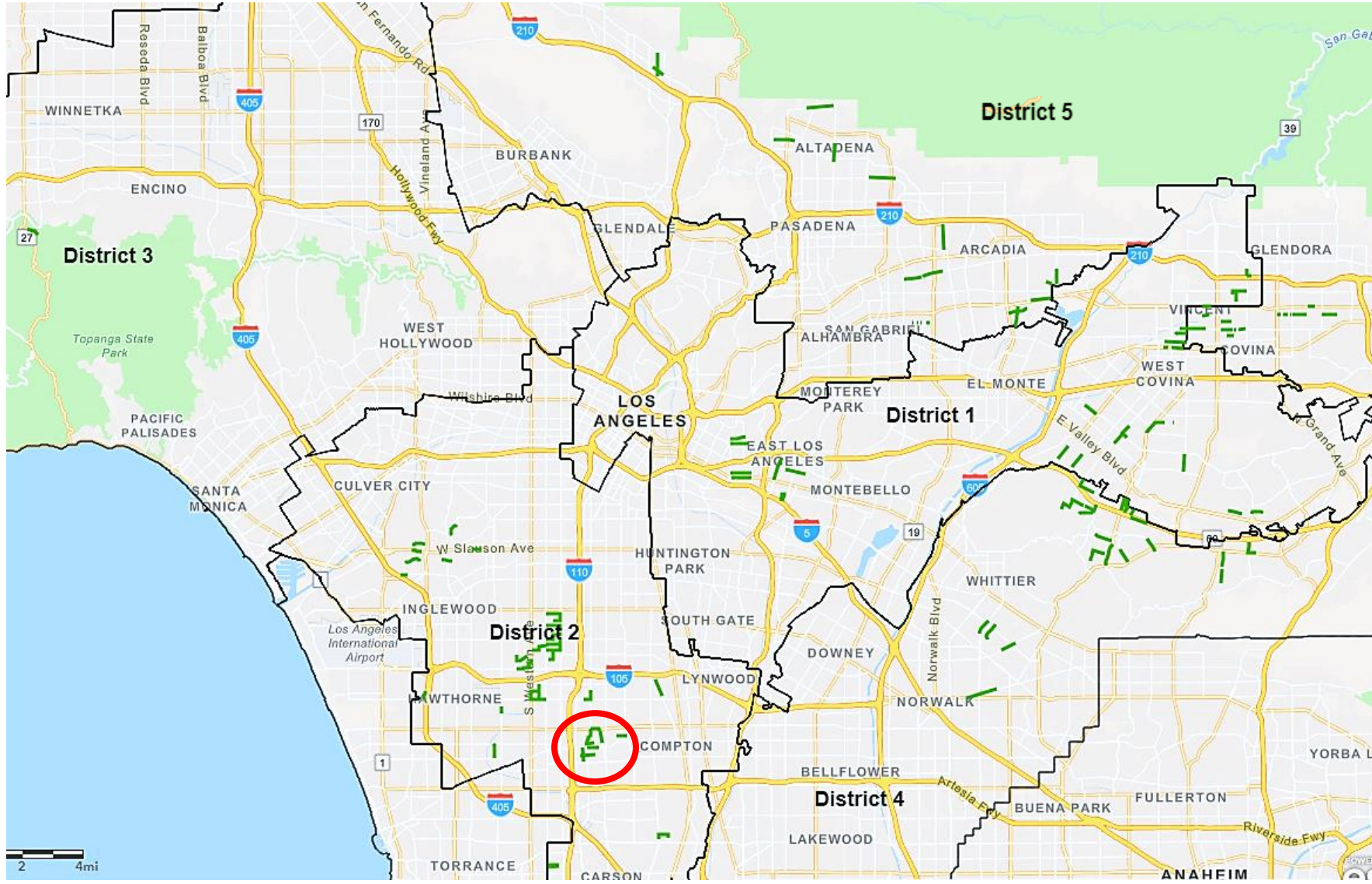
Prepared by Larry Walker Associates, Inc.

July 27, 2021

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Data Source: i03_Census_BlockGroup_DisadvantagedCommunities_2016



Project Background



- LA County Green Street Master Plan
- San Pedro, et al Project (road resurfacing)
- DC EWMP Green Street requirements

114 Sites



Project Background

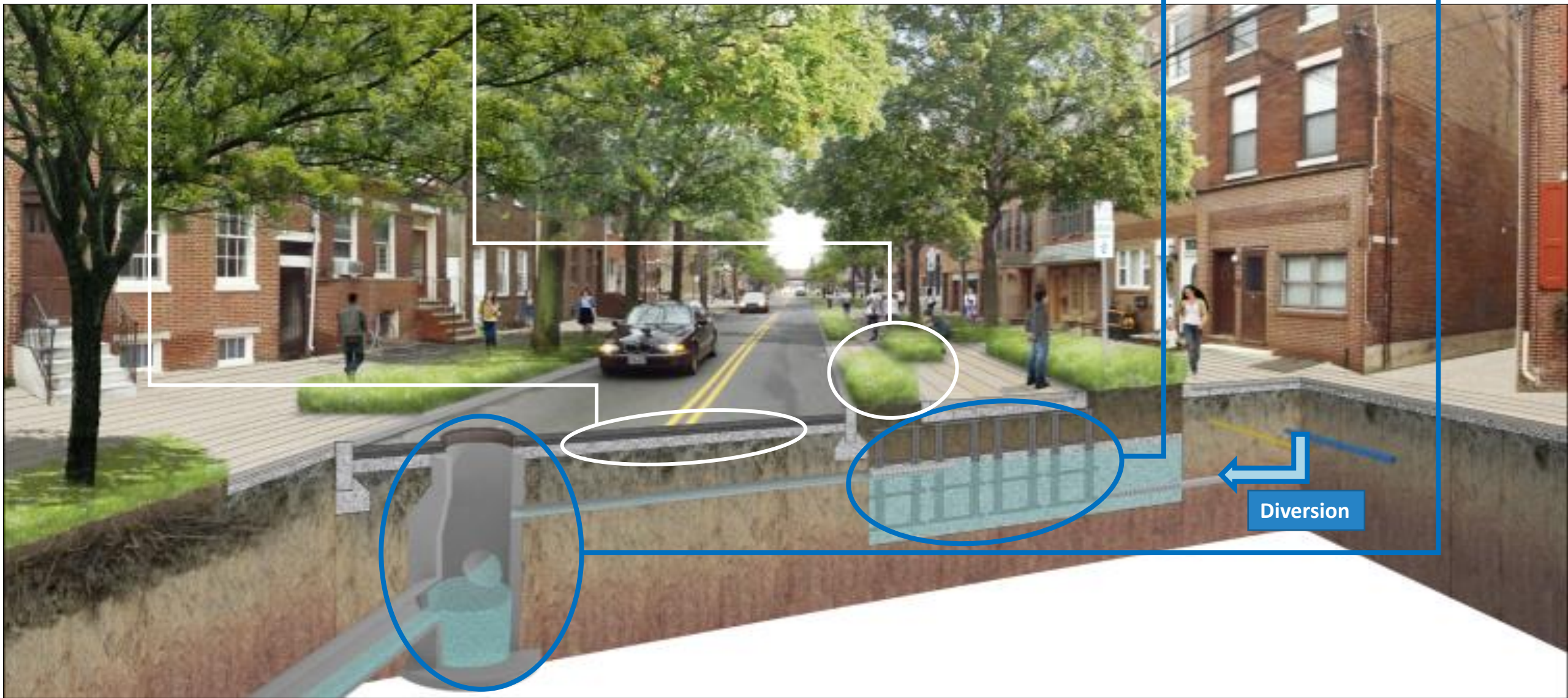
Road resurfacing:
improve road conditions

Bioswales: remove pollutants,
improve traffic safety

**Trees, vegetation,
ground cover**

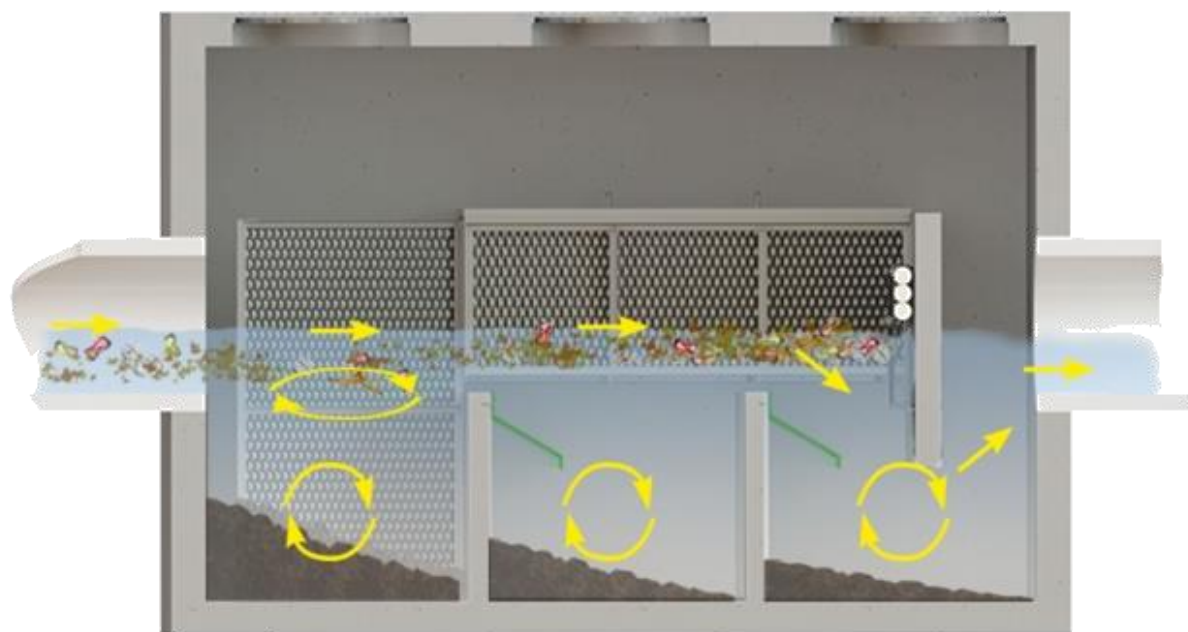
Pretreatment: remove
pollutants/trash

Drywells: capture and
infiltrate stormwater



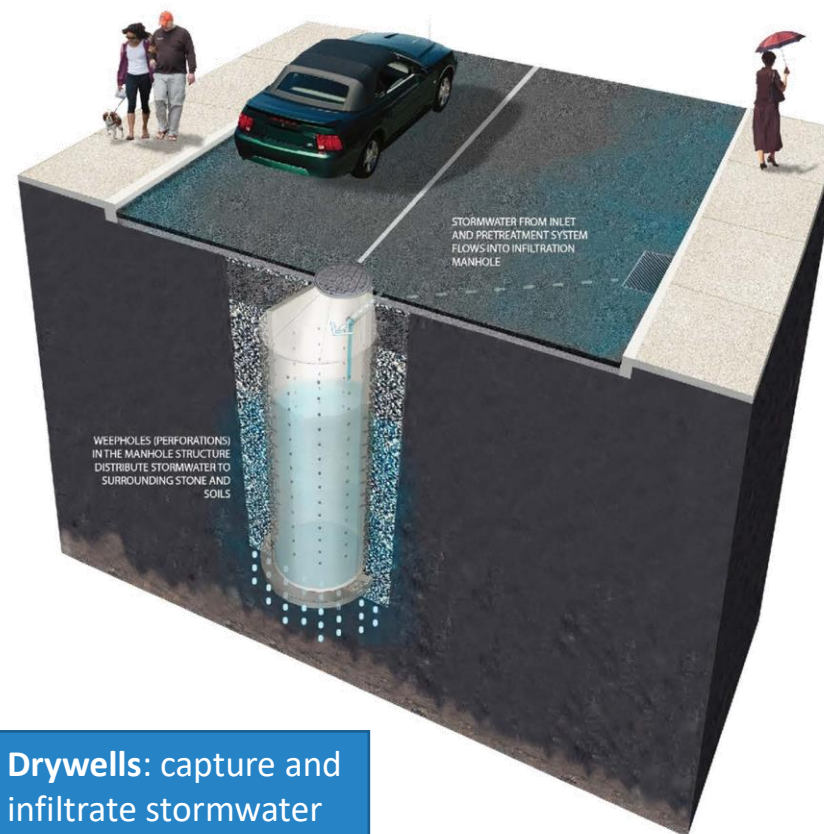


Project Details



Pretreatment Device:
remove pollutants/trash

Figure 2.7: Three-Dimensional View of a Stormwater Drainage Well



Drywells: capture and infiltrate stormwater



Project Details

Figure 2.2: Three-Dimensional View of a Stormwater Bump-out



Mid-block Stormwater Bump-out

Figure 2.1: Three-Dimensional View of a Stormwater Planter





Cost & Schedule

Phase	Description	Cost	Completion Date
Planning	Geotechnical investigation, design concept alternatives development, 30% design, project concept report	\$ 387,000.00	Completed
Design	60%, 90%, and final design plans and specifications	\$ 1,600,000.00	Mid 2023
Construction	Construction, contract administration	\$ 16,800,000.00*	Late 2025
TOTAL		\$ 18,787,000.00	

- Operation & Maintenance Cost: \$50,000
- Project Lifespan & Lifecycle Cost: 50 years - \$20M

*Amount to be finalized after design is complete.



Funding Request

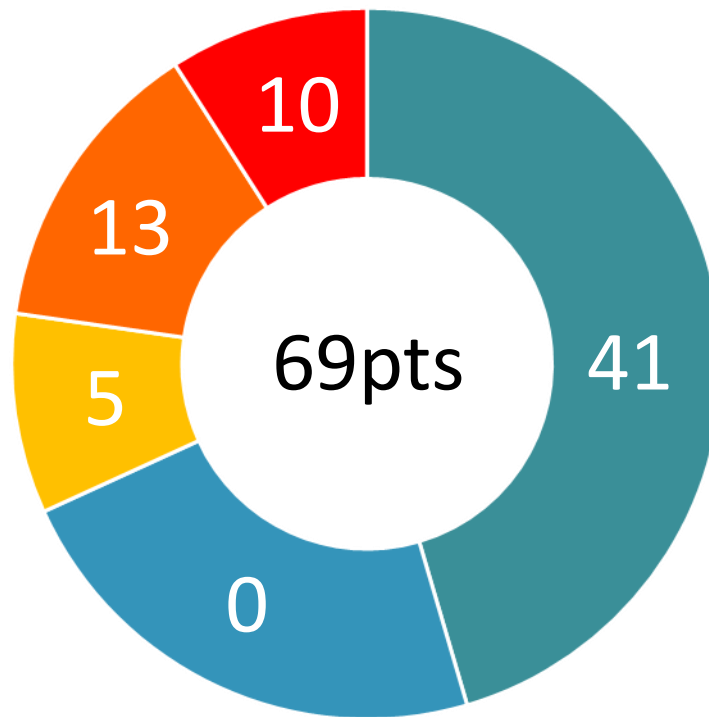
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$800,000	Design	60%, 90%, and final design plans & specifications
TOTAL	\$800,000		

- Leveraged Funding amount and percent: \$800,000 (50%)
- Potential Future funding request for Construction
 - County will match at the minimum 50%



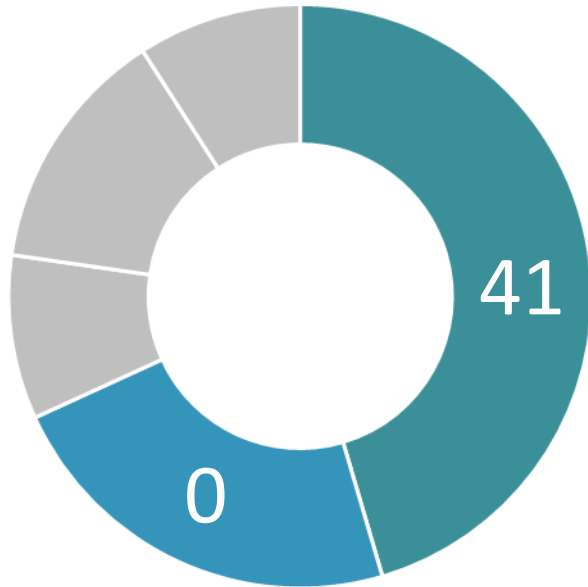
Preliminary Score

- Water Quality
- Water Supply
- Community Investment Benefits
- Nature Based Solutions
- Leveraged Funds and Community Support





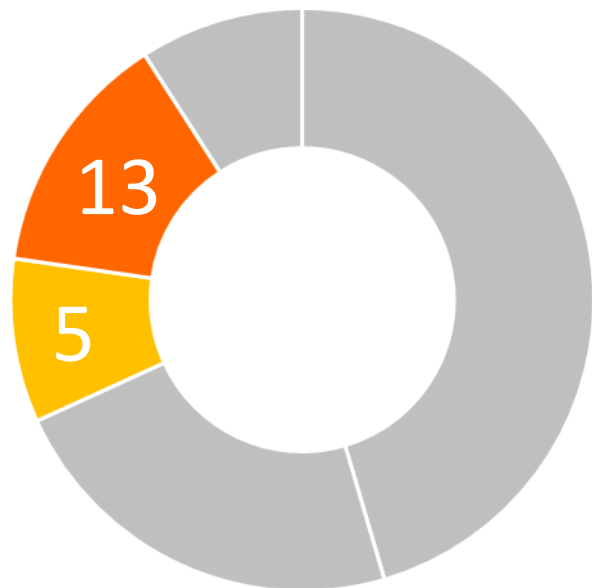
Water Quality & Water Supply Benefits



- Project will divert and treat wet and dry weather runoff via diversion structure, pretreatment device, settling wells, and drywells.
- Tributary Area = 278 Acres
- Capacity = 12.8 AF (24-hour BMP Capacity)
- Primary Pollutant (Zinc) Reduction: 81%
- Secondary Pollutant (Cu) Reduction: 81%



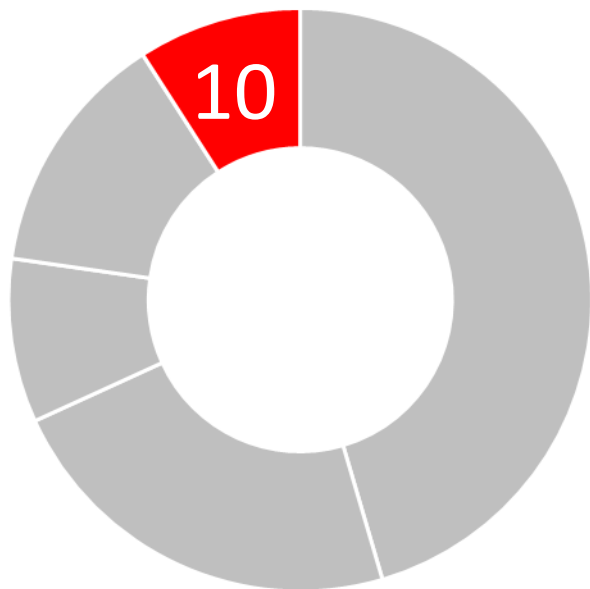
Community Investment Benefits and Nature Based Solutions



- Community Investment Benefits
 - Improves localized flood management
 - Creates new habitat and wetlands
 - Reduces heat local island effect and increase shade
 - Enhance traffic safety
- Nature Based Solutions
 - Implements natural processes (bioretention planters)
 - Utilizes natural materials (bioretention planters)
 - Removes 75% of impermeable area



Leveraging Funds and Community Support



- Leveraging Funds
 - \$800,000 in leveraging funds from LA County General Funds
 - 50% funding matched
- Community Support
 - Coordination with LA Walks
 - Willowbrook and West Rancho Dominguez Pedestrian Plan Community Advisory Committee Meeting
 - Community outreach planned for February 23 at the Willowbrook Community Action for Peace (CAP) meeting



Questions?



Machado Lake Rehabilitation Operation and Maintenance

Infrastructure Program

Fiscal Year 2022-2023

South Santa Monica Bay Watershed

Project Lead: Wing Tam, City of LA Sanitation and Environment

Presenter: Gordon Haines, City of LA Sanitation and Environment



Project Overview – Machado Lake O&M



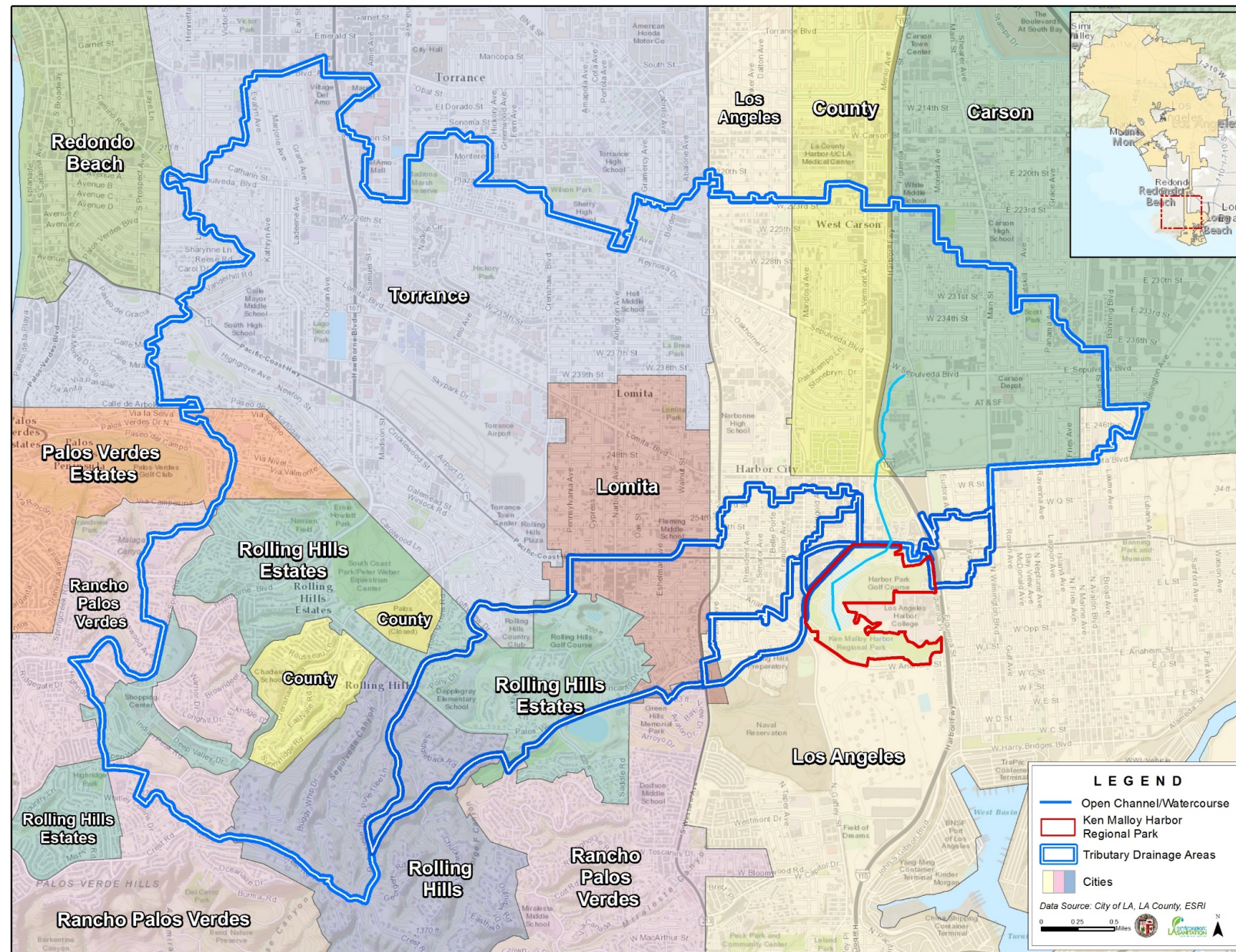
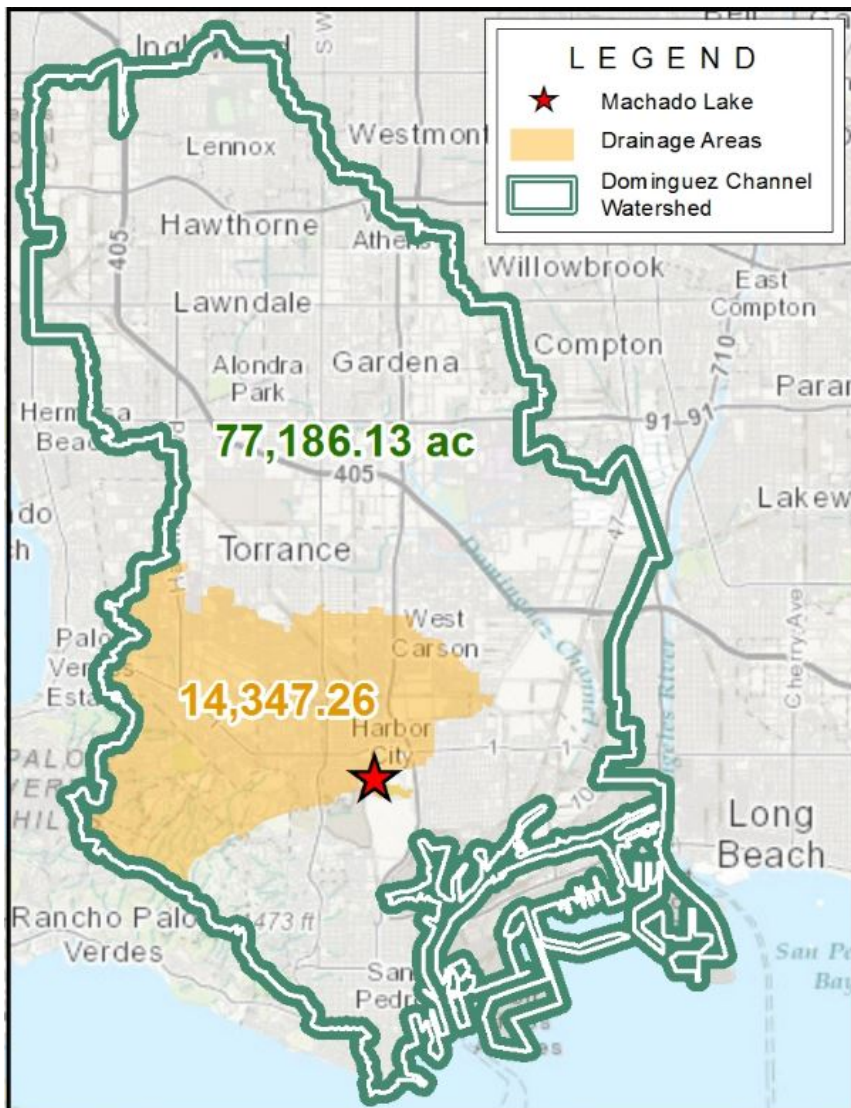
Operation and maintenance of 40-acres of lake and 4 acres of treatment wetlands at a vital regional multi-purpose City of Los Angeles facility.

- Primary Objective: Sustain improvements of City of LA Clean Water Bond (Prop O) project: Regionally improved open space and recreational amenities, flood mitigation, improved water quality, MS4 compliance and reduced water supply demand
- Secondary Objectives: Ensure recreation and habitat beneficial uses, public health protection
- Project Status: O&M
- Total Funding Requested: \$5,700,000





Project Location – Machado Lake O&M





CalEnviroScreen – Machado Lake O&M



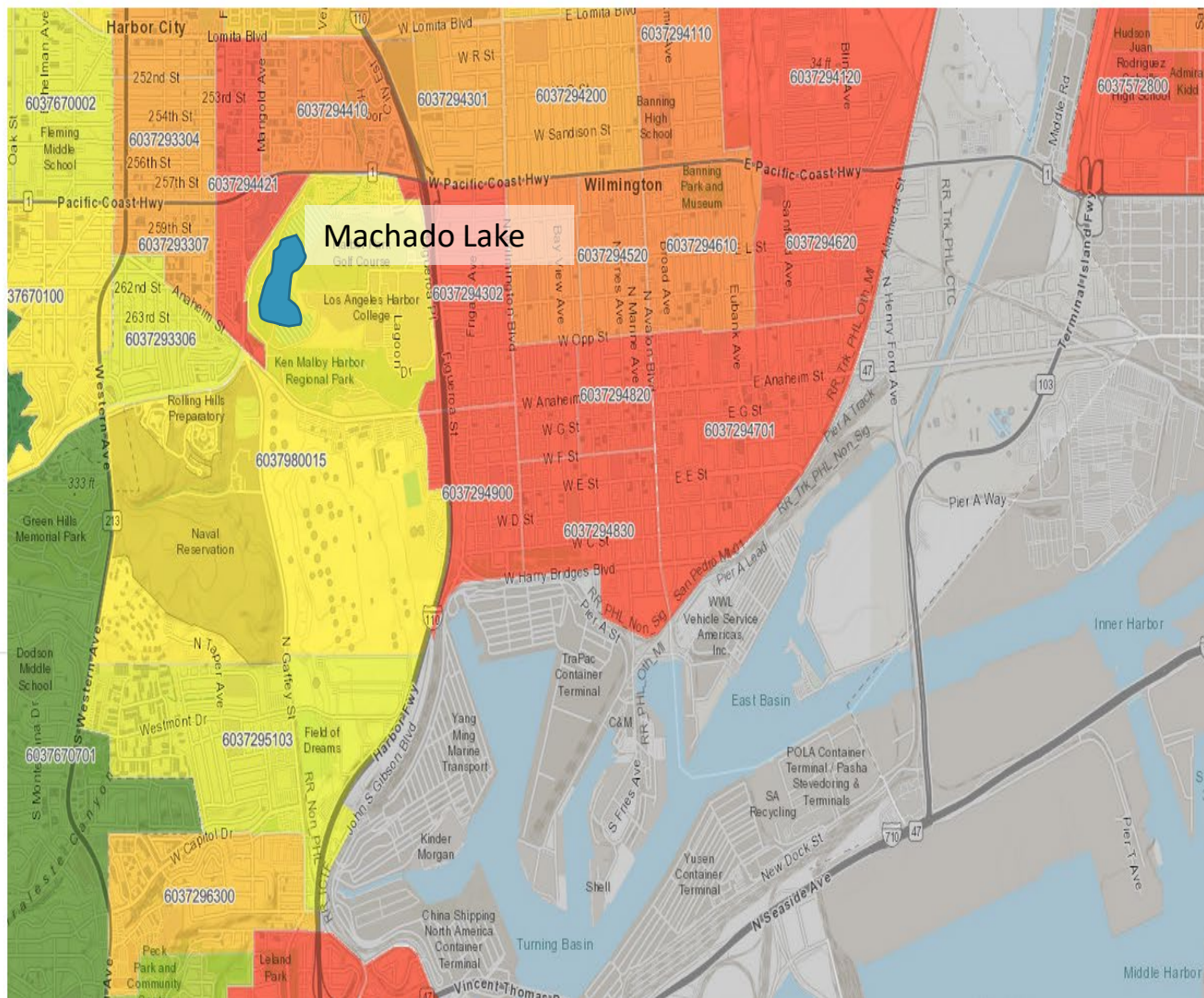
Machado Lake area DACs

Legend

CalEnviroScreen 4.0 Results

- > 90 - 100 (Highest Scores)
- > 80 - 90
- > 70 - 80
- > 60 - 70
- > 50 - 60
- > 40 - 50
- > 30 - 40
- > 20 - 30
- > 10 - 20
- 0 - 10 (Lowest Scores)

CalEnviroScreen 4.0 High Pollution, Low Population



- Harbor City and Wilmington communities 2 miles from Ports of LA/LB
- Over 100,000 people live within 2 mile radius of lake
- 20,000 of those are disproportionately burdened by multiple sources of pollution (90-95th percentile per CalEnviroScreen4.0).



Project Background – Machado Lake O&M



- The \$99 million Machado Lake Rehabilitation Project was constructed under the City of LA's Prop O program and completed in 2018. Located within Ken Malloy Harbor Regional Park in City of Los Angeles, Council District 15.
- The Machado Lake Watershed was identified as one of the impaired watersheds in the EWMP for the Dominguez Channel Watershed Management Area Group (2016).
- The Machado Lake Ecosystem Rehabilitation Project was developed from impairments identified in the 2013 GLAC IRWMP, a Regional Water Management opportunity.
- Funding for the Machado Lake O&M project is necessary to sustain the capital improvements and environmental benefits.



Project Background – Machado Lake O&M



- Benefits to the region and receiving waters include water quality improvements, MS4 compliance and a healthy environment
- Improved flood management and water supply benefits
- Open space, recreational park facilities, wetlands, riparian and aquatic habitat for wildlife
- DAC – 1 in 5 residents in local area disproportionately burdened
- Neighborhoods in Harbor City and Wilmington have some of the highest pollution burdens in the state
 - Park and lake are the prime recreational facility for many in the area, with habitat and park amenities for public to enjoy
 - On a daily basis, scores of individuals, families, schools and groups use the park for recreation, exercise and social and educational activities.



Project Overview – Machado Lake O&M

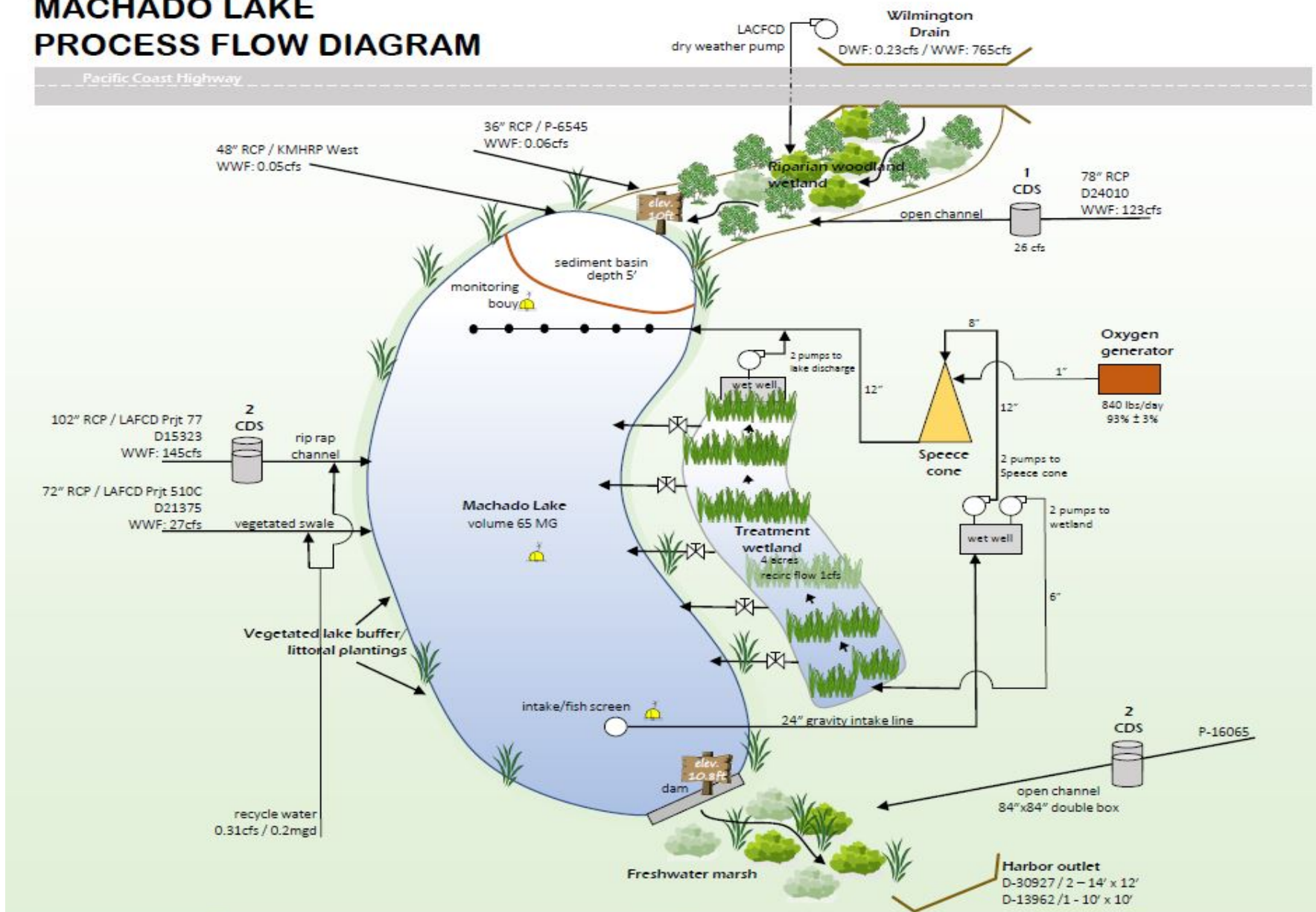




Project Schematic – Machado Lake O&M



MACHADO LAKE PROCESS FLOW DIAGRAM





Project Photos – Machado Lake O&M



BEST OF
SOUTH
BAY



Project Photos – Machado Lake O&M



Trash, debris and overgrown vegetation



Algae, cyanobacteria blooms



Erosion and sedimentation



Invasive species



Project Photos – Machado Lake O&M



Structural BMPs – HDSs, outfalls, riprap



Mechanical and instrument controls: Pump stations, oxygenation, recirculation, monitoring



Cost & Schedule – Machado Lake O&M



Phase	Description	Cost	Completion Date
Planning	Concept report, planning reports and activities	\$ 1,058,851.00	06/2009
Design*	Pre-design Reports, Construction drawings, Specifications, Environmental review, Permits	\$ 7,425,000.00	05/2012
Design*	Right of Way, Bid and Award	\$ 2,450,731	01/2014
Construction *	Construction, Construction Management, Inspection, and Project Management	\$ 77,898,728	02/2018
Construction *	HRMMP, Post-construction and related activities	\$ 2,406,183	04/2022
Total Capital Costs funded:		\$ 91,239,493	
Life-Cycle Cost for Project	(Module-generated)	\$ 110,285,905	2027
Annualized Cost for Project	(Module-generated)	\$ 6,601,030	2027
O&M	Operation and Maintenance	\$1,140,000 / year	June 2027
TOTAL	Operation and Maintenance	\$5,700,000	June 2027

* Capital costs of project funded in whole or part by City of LA Clean Water Bond (Prop O)



Funding Request – Machado Lake O&M



Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$ 1,140,000	O&M	Lake and treatment wetlands trash and debris removal and disposal, invasive species control, algae and BGA control, diversions and trash separator inspections and cleanings, vegetation management, sediment removal, other tasks as needed.
2	\$ 1,140,000	O&M	Same as above
3	\$ 1,140,000	O&M	Same as above
4	\$ 1,140,000	O&M	Same as above
5	\$ 1,140,000	O&M	Same as above
TOTAL	\$5,700,000	O&M	

- Leveraged funding = \$2,295,000 from City of Los Angeles sources, includes costs incurred after 11/7/2018 and expected funding through FY 26-27
- 40% funding match



Preliminary Score – Machado Lake O&M








SAFE
CLEAN
WATER
PROGRAM

SAFE, CLEAN WATER PROJECT SCORE

Preliminary Estimated Project Score: **86 points**

The following graphics summarize the project scoring. The first graphic shows the components of the project score, based on the different scoring sections. The second graphic shows the percent of maximum score achieved by the project within each scoring section.

-  **Water Quality**
-  **Water Supply**
-  **Community involvement**
-  **Nature-Based Solutions**
-  **Funds and Community**

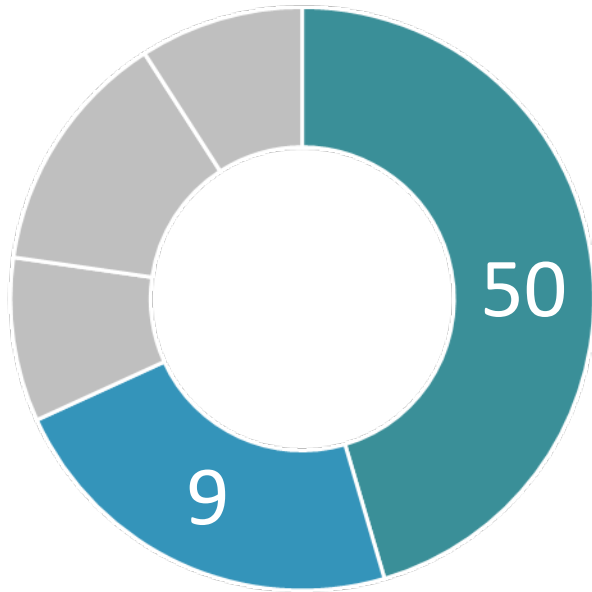


Score Breakdown

- Water Quality: 50
- Water Supply: 9
- Community Investment: 10
- Nature-Based Solutions: 10
- Funds and Community: 7



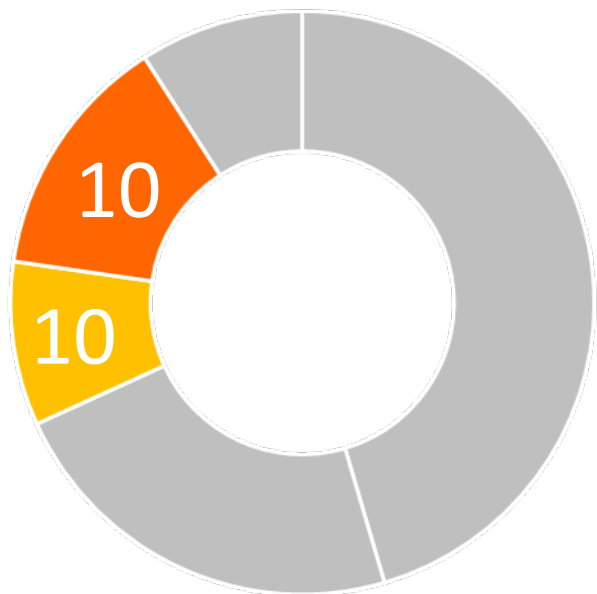
Water Quality & Water Supply Benefits



- Water Quality BMPs: 40 acre Lake improvements, Storm drain pre-treatment devices; Sediment basin, 4 acre treatment wetlands; Recirculation and oxygenation systems
- Wet and Dry weather runoff into the lake
- Tributary Area = 14,347 acres (22 sq miles)
- Capacity = 206 AF (24 hr storm)
- Pollutant Reduction: Total P (85%), Trash (98%)
- Annual Water Supply capture Volume: 244 AF
- Water Supply Use : Augmentation of lake level and sustaining wetland plants
- Water Supply Cost Effectiveness: \$ 27,048 per AF



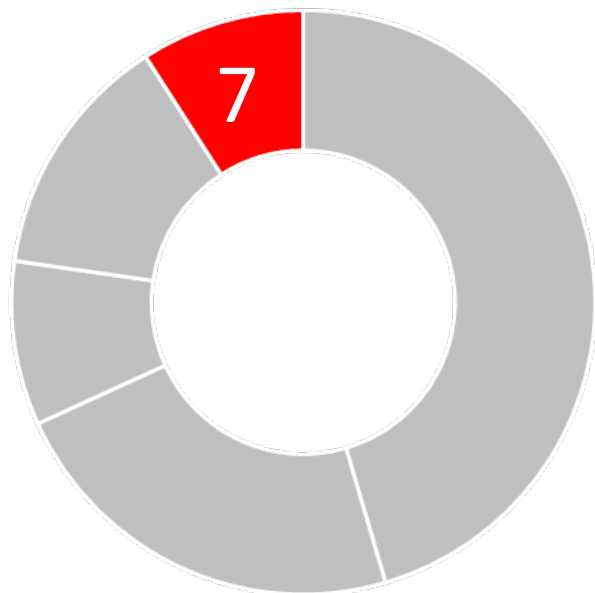
Community Investment Benefits and Nature Based Solutions



- Community Investment Benefits
 - Project will maintain the Flood management benefits of existing facility, reducing local flood risk
 - Maintain and enhance 44 acres of lake, wetlands habitat
 - Maintain improved access to Lake perimeter, wetlands
 - Project will maintain and/or enhance recreation and educational opportunities to provide regional access
 - Lake and wetlands reduces heat island effects
 - Maintain and manage plantings and vegetation
- Nature Based Solutions
 - Treatment wetland plantings and habitat, lake-edge plantings, in-lake improvements (lining) reduced invasive plants, natural processes for improved water quality



Leveraging Funds and Community Support



- Leveraging Funds
 - \$2,295,000 cost share utilizing City of LA Municipal funds 11/7/2018 through FY 26-27.
 - \$690,000 City of LA non-SCW funds
 - \$1,605,000 SCW Municipal funds
 - 40% funding match
- Community Support
 - Letters of Support from Community groups
 - Support of local NGOs, stakeholders and businesses
 - Utilization of local small businesses for maintenance contracted services
 - Outreach to community on O&M activities through social media



**Thank you.
Questions?**

BEST OF THE
SOUTH
BAY

Bestofthesouthbay.com

South Santa Monica Bay Watershed Area Steering Committee

February 16, 2022

Agenda Item 6c(i): Presentation by Kiss the Ground

Project: “Regenerate LA: Nature-Based Solutions for Community Parks”





Context for this presentation

- The Regenerate LA Project
 - Submitted by Kiss the Ground
 - Located in Ken Malloy Harbor Regional Park
- Was submitted for consideration in the Technical Resources Program
- When presented to the WASC, Committee members asked about the proposed work being more like a Scientific Studies Program proposal.
 - In response, the District reviewed if the WASC has the authority to move the project from TRP to SS.
- Also based on the WASC's questions, the District reviewed the TRP application



Outcome of District Review

- The project as submitted does not qualify as a Technical Resources Program Project.
- This project can be moved from TRP to SS through an action by the WASC.
- In support of WASC decision-making, Kiss The Ground was given an opportunity to transfer the project into a Scientific Studies application.
 - This work was completed with support from the Watershed Coordinator, the Regional Coordination team, and the District.
 - The project scope has not changed
 - The value requested has not changed (\$300,000)



Today's discussion agenda item

- A presentation from Kiss The Ground about the effort as a scientific study proposal.
 - Ten-minute presentation
 - Ten minutes of Q&A about the project concept
- The decision item before the WASC today is:
 1. Elect to move the project from TRP to SS for consideration.
 2. Elect to not move the project from TRP to SS.

An aerial photograph of Los Angeles, California, showing the coastline, the city grid, and some green spaces. The image is partially obscured by a dark teal overlay on the left side where the text is placed.

Regenerate LA: Nature-Based Solutions for Community Parks

Scientific Studies Program

Fiscal Year 2022-2023

South Santa Monica Bay Watershed Area

Project Lead: Kiss the Ground

Presenters: Callie Ham, Kiss the Ground

Jessica Chiartas, UC Davis and Soil Life Services



Study Overview

Summary of Study

(Nexus to stormwater, urban runoff and pollution)

Soil lies directly at the nexus of stormwater, urban runoff, and water supply management, as it is the literal skin of the earth, responsible for the infiltration, retention, and filtration of water. Soil structure and the amount of organic matter stored belowground is a direct driver of a given soil's ability to perform these functions, dictating a landscape's response to extreme weather events like drought and flood.

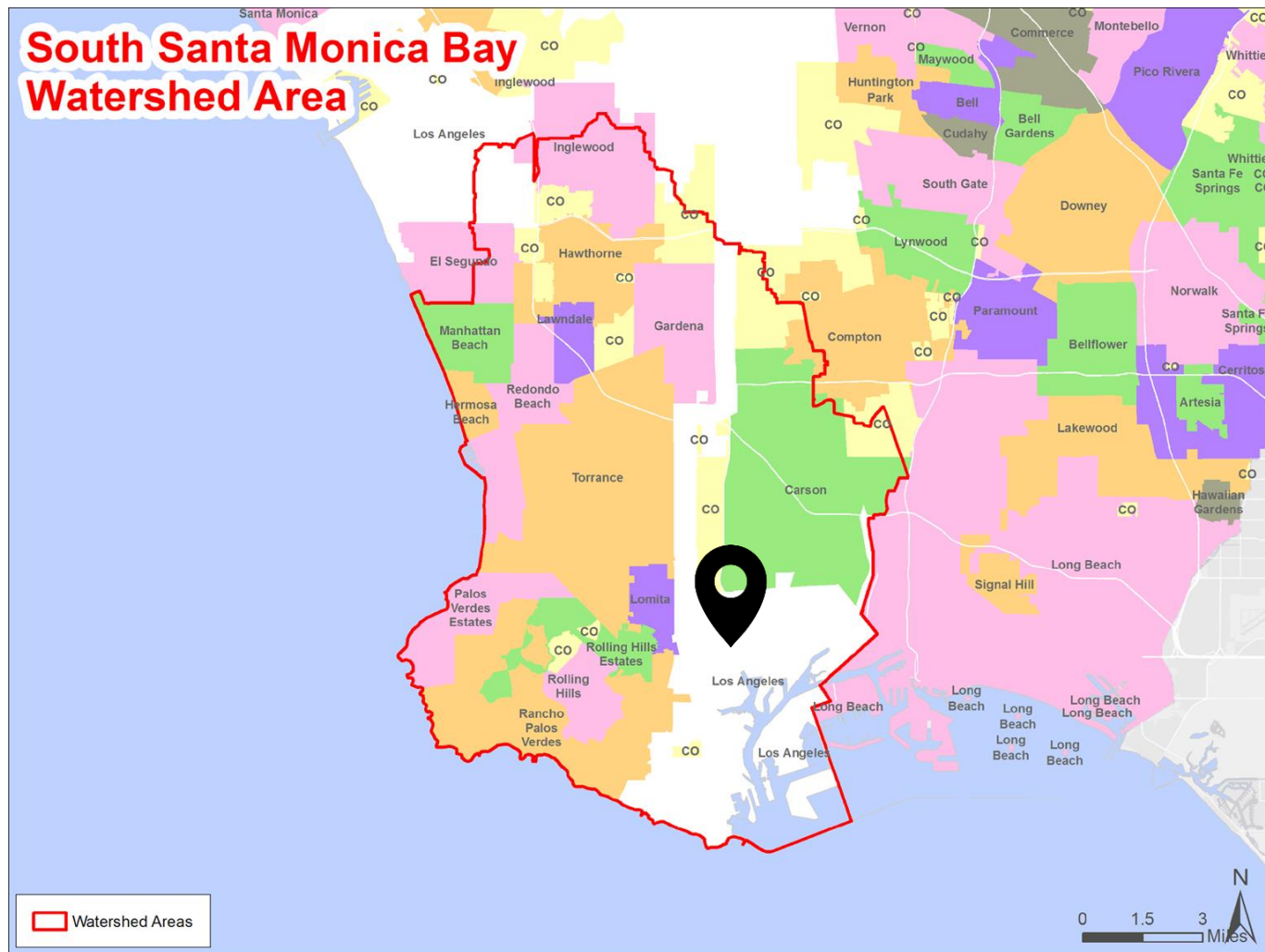
Above ground management, in turn, drives soil organic matter and overall structure. Rebuilding soil structure increases the total amount of pore space belowground where water can be held and improves aggregate stability, reducing the amount of sediment that can clog pores and seal off the surface and/or runoff into surrounding waters.

This study will test the impact of applying compost and other regenerative land management practices on soil organic matter and related hydrologic properties





Study Location



- Ken Malloy Harbor Regional Park
- South Santa Monica Bay Watershed Area
- High level of engagement with local residents

Problem Statement

Runoff of toxic chemicals

- Prolonged periods of drought necessitate reductions in water use/availability, and with increased frequency of heavy rain events, the lack of permeable surfaces in cities contributes to increased runoff of toxic chemicals to surrounding waterways.

Nitrate leaching

- Current lawn/facilities management in LA parks relies heavily on synthetic fertilizers, which contribute to nitrate leaching and production of N₂O, as well as pesticides, herbicides, and fungicides that contain heavy metals, threaten water quality and biodiversity, and provide an unnecessary hazard on the park staff applying them.

Reduction in soil organic matter

- Historic and current management practices have been shown to reduce soil organic matter; which is directly related to a soil's ability to infiltrate water (prevent floods), hold water (prevent drought), filter contaminants, and promote biodiversity.

Need for solutions to food waste diversion, biodiversity promotion, and GHG emission reduction

- The state and the city of LA have also set ambitious goals for diverting food waste, promoting biodiversity, and reducing GHG emissions and are in need of affordable, effective solutions to achieve those goals.



Study Details

Objectives

Overall objective: determine the potential for regenerative land management to promote key soil functions, or ecosystem services, such as infiltration and retention of water, filtration of contaminants, and promotion of biodiversity, while establishing Ken Malloy as a regeneratively managed park and hub for training and education for organic regenerative land management

Specifically, the scientific study aims to investigate the potential for regenerative land management to

- 1) reduce nitrate leaching
- 2) reduce runoff of urban contaminants (via improved infiltration rates and increased soil water holding capacity)
- 3) increase soil carbon and water holding capacity
- 4) contribute to GHG mitigation goals
- 5) reduce overall costs associated with land management



Study Details

Outcomes

Awareness

- Community engagement events raise awareness of community on the importance of organic regenerative land management
- White paper and a series of one-pagers produced for educating and raising interest in implementing regenerative land management at other parks in the LA area.

Roadmap

- Project comprehensively documented from planning to implementation to monitoring, and analysis
- Research findings, training tools and lessons learned used to scale up organic regenerative gardening and land management across LA and to other cities.
- Targets: 20% transition of LA Parks to regenerative land management at 20% by 2030; model adopted by park managers in San Francisco, Sacramento, and San Diego.

Policy

- Research, training tools, and program lessons used to drive local and state policies to create incentives to regenerate urban soils
- Opportunities to access state funding for programs related to park conservation, ecosystem restoration, and green jobs.



Study Details

Study Methodology

This study will test the impact of applying compost and other regenerative land management practices on soil organic matter and related hydrologic properties, while in parallel, establishing compost infrastructure and training and education channels for integrating organic regenerative practices into land management standards of practice.

Specific questions:

1. What is the potential for sequestering carbon in city parks using regenerative land management?
2. What is the impact of regenerative land management (across a range of land uses) on the hydrologic function of a city park?
3. What is the impact of regenerative land management on park staff, perception of visitors, and overall community engagement?



Study Details

Study Methodology

- Year 1: Samples collected to establish baseline for soil and hydrologic conditions across park, including soil organic carbon, bulk density, nitrate/ammonium, aggregate stability, water holding capacity, and hydraulic conductivity, as well as in-field infiltration rates (Year 1, repeated Year 3 and Year 5)
- Compost applied and hedgerows established in key locations each year
- Year 5: data analyzed using multivariate statistics to assess change over time in soil organic matter and a series of soils-related hydrological properties; white paper produced
- Interviews conducted with park staff to understand qualitative impacts
- Years 2-5: Community engagement /demonstration events held





Study Details

Measurements

Soil organic carbon

Dry combustion

Nitrate and ammonium

Nitrate/ammonium analysis at UC Davis Analytical Lab

Bulk density

Core method

Aggregate stability

ARS Wet aggregate Stability method

Infiltration rates

Double Ring Infiltrometer

1 meter depth for Years 1 and 5 and 30cm depth for Year 3

Hydraulic conductivity

HYPROP



Cost & Schedule

Phase	Description	Cost	Completion Date
Inception	Permitting, construction and baseline sampling, initial compost application, labor and coordination	\$198,100	End of Year 1 Target: Dec. 2022
Midterm	Data collection and lab testing, community engagement events, coordination	\$57,900	End of Year 3 Target: Dec. 2024
Completion	Final analysis, reporting and publishing, knowledge sharing events	\$44,000	End of Year 5 Target: Dec. 2026
TOTAL			

- Light coordination costs included through Year 3



Funding Request

WASC	Year 1	Year 2	Year 3	Year 4	Year 4
CSMB					
LLAR					
LSGR					
NSMB					
RH					
SCR					
SSMB	\$198,100	\$20,200	\$37,700	\$0	\$44,000
ULAR					
USGR					
TOTAL					



Summary of Benefits

Water capture

Increased permeability of soil surface

Potential 2.5 million additional gallons of water retained in park soil through SOM 1% increase

Water quality

Phaseout of synthetics fertilizers

Reduced nitrate leaching and contaminant runoff

Soil health and biodiversity

Increased carbon sequestration

Improved habitats for pollinators and native species



Summary of Benefits

Park staff

Improved knowledge and practices

Shift in standards for healthy land management

Community

Healthier environment for community members

Educational opportunities and compost pick-ups

City / State

Savings from reduced inputs and lake management (water, fertilizers)

Documented methodology and tools for scaling



Questions?

ANNEX:

Original application under Technical Resources

An aerial photograph of Los Angeles, California, showing the coastline, the city grid, and the surrounding terrain. The image is split vertically, with the left half being a solid teal color and the right half showing the aerial view.

REGENERATE LA

Technical Resources Program

Fiscal Year 2022-2023

South Santa Monica Bay

Project Lead: Kiss the Ground (*w/ LA Compost as key implementing partner*)

Presenter: Callie Ham



Project Overview

Regenerate LA will build and sustain healthy soil through the transition from toxic chemical use to organic regenerative land management (ORLM)

Primary Objective: *Establish Ken Malloy Harbor Regional as a regeneratively managed park to improve soil health and rebuild the “soil sponge” as a means to increase water infiltration/reduce runoff & increase water holding capacity, sequester carbon, increase biodiversity, and improve water quality; and serve as a “hub/demonstration site” for training and education on ORLM that supports surrounding parks.*



Project Overview

Regenerate LA will build and sustain healthy soil through the transition from toxic chemical use to organic regenerative land management (ORLM)

Secondary Objectives: *Educate park maintenance staff through state-of-the-art online and in person training sessions in ORLM, engage and educate communities on ORLM, leverage the existing network of parks to create sharing/distribution systems for organic amendments to improve soil health and watershed function.*



Project Overview

Regenerate LA will build and sustain healthy soil through the transition from toxic chemical use to organic regenerative land management (ORLM)

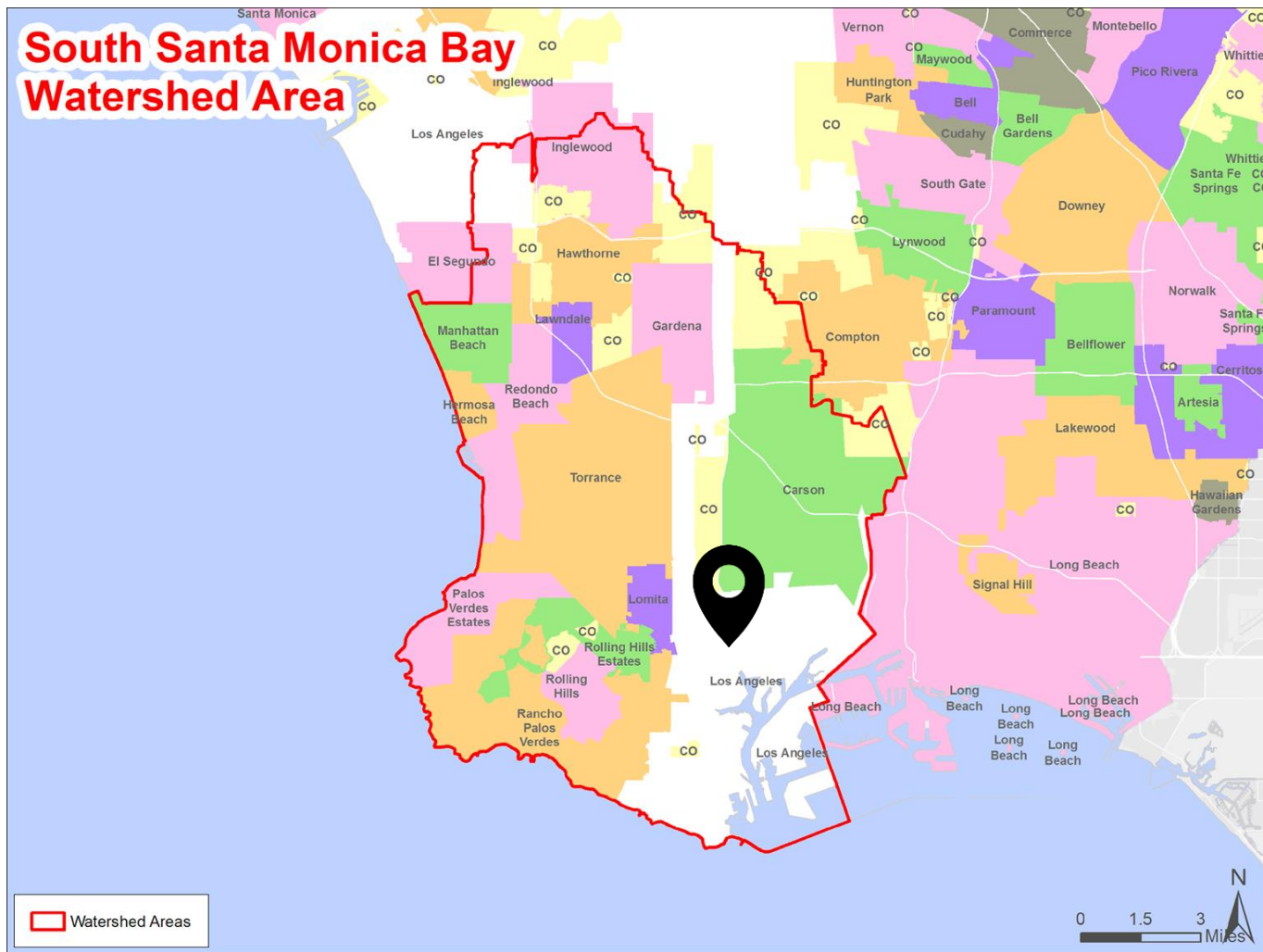
Project Status: Feasibility Study

Total Funding Requested: \$300,000 (or as deemed appropriate by Technical Assistance Team)





Project Location



- Ken Malloy Harbor Regional Park
- South Santa Monica Bay Watershed Area
- Local residents very engaged w/ overflow of people on park volunteer days

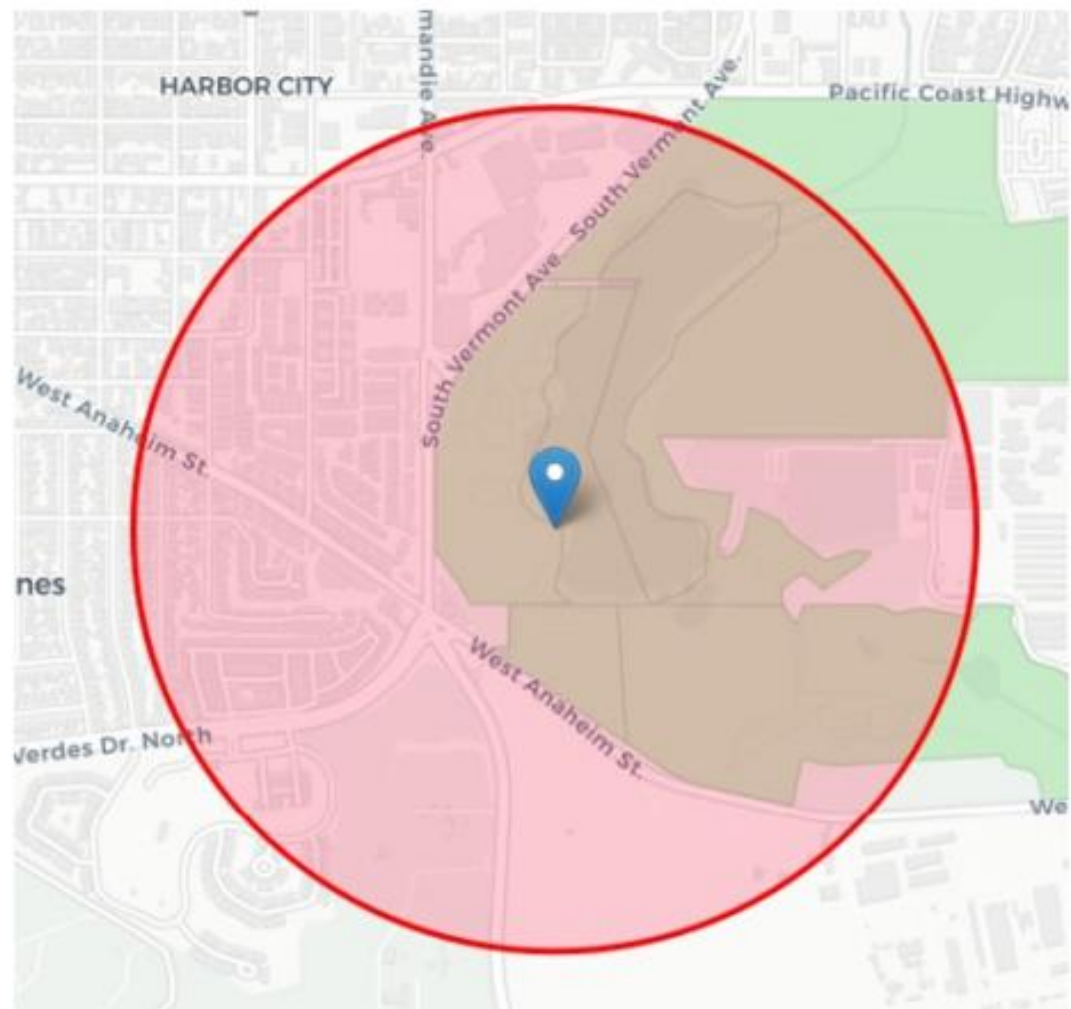


Project Location

PROJECT AREA STATISTICS

County	Los Angeles
City	Los Angeles
Total Population	3,222
Youth Population	596
Senior Population	435
Households Without Access to a Car	101
Number of People in Poverty	510
Median Household Income	\$55,519
Per Capita Income	\$33,593
Park Acres	194.46
Park Acres per 1,000 Residents	60.35

PROJECT AREA MAP





Project Background

2019

LA Green New Deal Sustainability pLAn

Includes 2 healthy soils pilot projects

2020

LASAN's Healthy Soils Advisory Panel

Key stakeholders outlined soil health priorities in healthy soils strategy

2020 - 2021

Healthy Soils Motion 'Regenerate LA'

Introduced by Councilmember Paul Koretz

Calls for the promotion of opportunities to **improve soil health, water retention/capture, and biodiversity** and that promote **green jobs** through **regenerative land mgmt** practices

Endorsed and supported by LASAN and LARAP General Manager - Mike Shull

2021

Regenerate LA project

Partnership between KTG, LA Compost, LARAP, LASAN

- ❖ Compost production
- ❖ Demonstration sites
- ❖ Training & education
- ❖ Pollinator Habitats
- ❖ Data collection
- ❖ Public awareness and community engagement



Project Background

Ken Malloy Harbor Regional selected in partnership with LARAP as 2nd platinum site under RegenerateLA

- Site locations with high potential for compost infrastructure development
- Large maintenance area
- Important watershed implications
- High community engagement
- Location would balance first location in Griffith Park

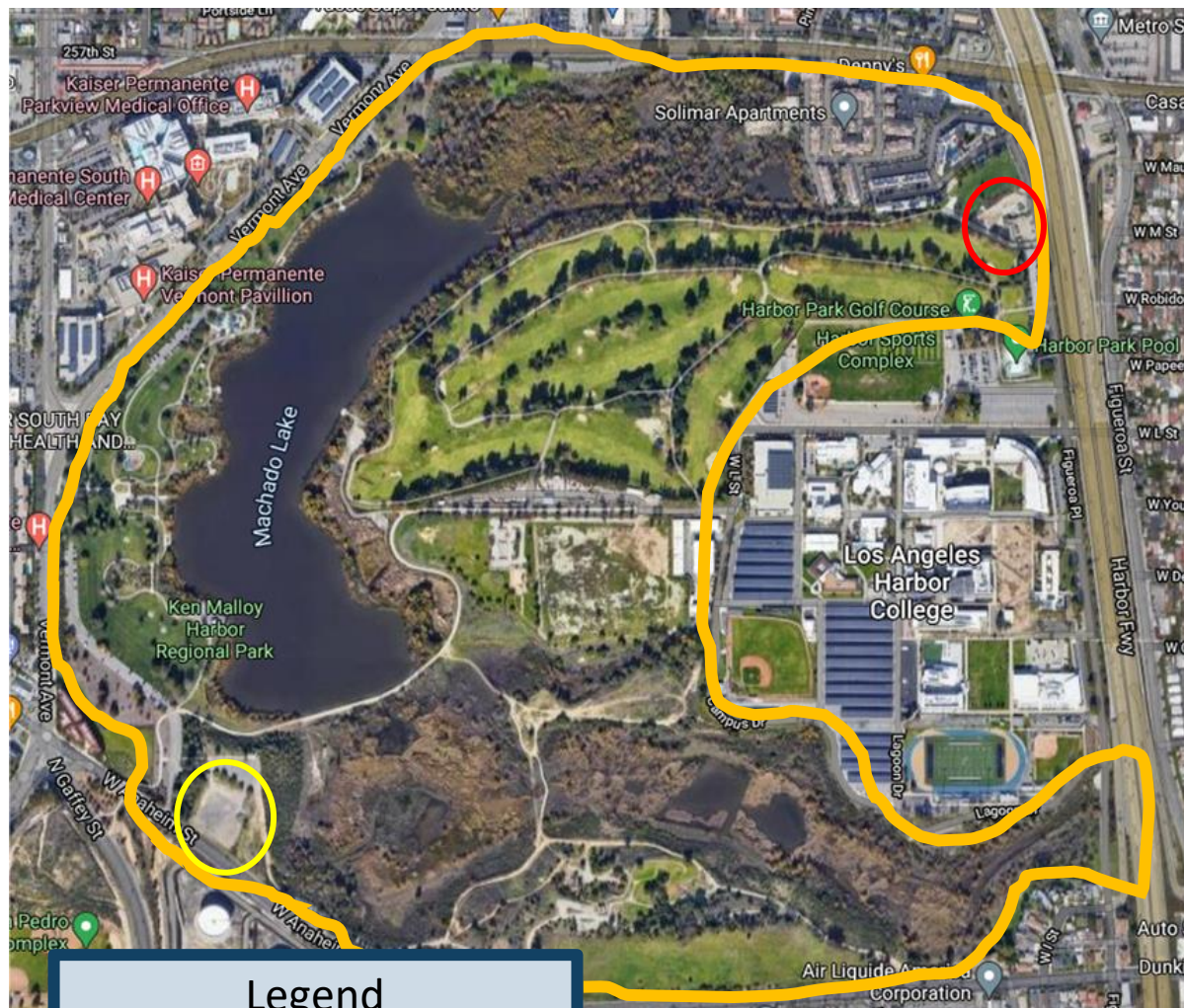
Benefits to municipality, especially DAC:

- Access to chemical-free parks! Clean soils, clean water
- Improvement of local biodiversity and soil sponge: 0.5% increase in SOM could result in 3 million gallons of water!
- Community engagement prior, during, and after project
- Food scrap drop off, compost pick up





Project Details



Legend

- Compost production
- Compost curing

Ken Malloy Harbor Regional Park

- 2 sites: compost production and compost curing
 - Allows to maximize production
- Varied features
 - Park recreation
 - Riparian zones
 - Dog Parks
 - Golf course
 - Campgrounds
- Opportunity for LA to become leader in alternative land management/maintenance options



Cost & Schedule

Phase	Description	Cost	Completion Date
Feasibility Study	Feasibility Study, preliminary design, initial community engagement	\$300,000	June 2022 (TBC)
Planning and design	Final design, permitting, community engagement	\$15,000	Dec. 2022
Construction	Site preparation, compost infrastructure, investment in maintenance tools	\$135,000	March 2023
Implementation	Operational, maintenance, and monitoring (annual costs)	TBD	Dec. 2027 (TBC)
TOTAL		TBD	

- Annual costs will include compost production maintenance, soil testing and monitoring, community engagement / workshops, part time technical expert, part time project coordinator, communications, graphic design and web



Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$300,000	1	Feasibility study
TOTAL			

Requested funds for feasibility study would

- Generate information required for project concept submission to guide and provide baseline data for, transitioning parkland to ORLM, including improvements to soil organic matter, water infiltration and retention, carbon sequestration, and biodiversity
- Provide a roadmap for Ken Malloy to become second platinum site under Regenerate LA



Questions?



Today's Decision Item and Next Steps

- **The decision before the WASC today is:**
 1. **Elect to move the project from TRP to SS for consideration.**
 2. **Elect to not move the project from TRP to SS.**
- If the project is moved:
 - It will be sent to SCWRRP for evaluation alongside other scientific studies
 - The SCWRPP evaluation will be available to the WASC in its deliberation
 - The project will be considered by the WASC for the SIP.
- If the project is not moved:
 - The project will not be considered any further this program year.
 - The proponent can decide to pursue future calls-for-projects with this or another proposal.