

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



Wednesday, January 19, 2022
1:00pm - 3:00pm
WebEx Meeting

Committee Members Present:

Cung Nguyen, LA County Flood Control District (Agency)
*Christopher Lapaz, LA County Sanitation Districts (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: Redondo Beach (Municipal), Vice Chair
*Lauren Amimoto, EWMP: Hawthorne (Municipal)
Ken Rukavina, EWMP: Rancho Palos Verdes (Municipal)
Nancy Shrodes, Heal the Bay (Watershed Coordinator, non-voting member)

*Committee Member Alternate

Committee Members Not Present:

E.J. Caldwell, West Basin (Agency)
Robert Beste, Water Replenishment District (Agency)
Cathie Santo Domingo Los Angeles Recreation and Parks (Agency)

See attached sign-in sheet for full list of attendees.

1. Welcome and Introductions

The Los Angeles County Flood Control District (District) conducted a brief tutorial on WebEx.

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

District staff facilitated the roll call of Committee Members. All Committee Members made self-introductions and a quorum was established.

2. Approval of Meeting Minutes from November 17, 2021

The District provided the meeting minutes from the previous meeting. Motion to approve meeting minutes by Chair Craig Cadwallader, seconded by Vice Chair Geraldine Trivedi. The WASC voted to approve the meeting minutes (approved, see vote tracking sheet).

3. Committee Member and District Updates

District Staff provided an update, noting:

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- On December 21st, 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.
- For the Regional Program's Technical Resource Program, the District sent request for proposals to consultants to develop a Feasibility Study form Project Concepts approved in the FY 21-22 Stormwater Investment Plan.
- The District has initiated the process of sending fund transfer agreements. Addendums for Round 1 projects are already out and initial agreements for Round 2 projects were distributed.
- The Scoring Committee has concluded their review of current submissions. Two projects proposed in the SSMB Watershed Area for which the Scoring Committee had requested clarifying information did not meet the 60-point scoring threshold and thus are not available for WASC consideration (LA Harbor College Central and West Campus Underground Infiltration and Biofiltration Project; Wilmington-Anaheim Green Infrastructure Corridor Project). There are a total of five projects proposed in the SSMB Watershed Area that met the 60-point scoring threshold and are available for SSMB WASC consideration.
- SIP tool data has been updated with information for Round 3 projects for WASC review and currently live..
- Municipal Program Annual Plans are due on April 1st of each year. Annual Plans are required to receive the Municipal Program revenue.
- Claims for the Low-Income Senior-Owned Special Parcel Tax Exemption are due May 1, 2022. The [tax exemption claim form](#) can be found on the Safe, Clean Water Program (SCWP) website.

4. Watershed Coordinator Updates

Watershed Coordinator Nancy Shrodes provided an update, noting:

- Per the Strategic Outreach and Engagement Plan (SOEP), Watershed Coordinators are meant to connect communities to projects, engage a diverse range of stakeholders, and educate communities about the SCWP.
- A lot of time this year was spent onboarding watershed coordinators, as this was the first year that Coordinators worked County-wide.
- Heal the Bay (HtB) hosted a virtual Watershed Wide Workshop , which was held on December 9, 2021. Each slide was translated to Spanish and included closed captions. While it was expected to last for an hour and a half at most, it lasted for over two hours due to the high level of engagement and discussion. 112 participants joined on Zoom, and there were 142 views on the Facebook live stream.
- In 2021, Coordinator Shrodes held and/or attended 80 meetings, interviewed 18 WASC members and alternates, gave 54 presentations throughout the County, tabled seven events, held the first watershed-wide event, and canvased Compton and Wilmington.
- Community members have expressed concerns about water quality, safety of green spaces, and lack of access to green spaces for community members who do not drive.
- QR codes and fliers have been distributed throughout the community.
- A final watershed event for the fiscal year is scheduled with the Los Angeles Community Garden Council.
- Coordinator Shrodes plans to host three BioBlitz events in May with the Natural History Museum.

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Member John Dettle asked which cities in the watershed area are disadvantaged communities and asked if the Watershed Coordinator reached out to staff of those cities. Coordinator Shrodes responded that they have reached out to some city staff contacts, in addition to disadvantaged community members directly. The disadvantaged community areas are indicated online. They start around the San Pedro and Wilmington areas and move north. Member Dettle encouraged Coordinator Shrodes to reach out to City staff to work on projects that may not have sufficient funding.

Vice Chair Trivedi asked if findings and recommendations received from the community surveys would be sent to the cities that can follow up with the community. Coordinator Shrodes said that results would be sent to the cities and that they are still in the process of collecting data. The process will likely be ongoing and will be collected throughout the year.

Member Susie Santilena asked at what time of day the watershed-wide workshop was held and asked if the time was ideal. Coordinator Shrodes replied that the event was held on a Thursday evening from 6:00 PM to 7:30 PM. They wanted it to be after conventional working hours but during the week so as not to impede on social plans. Coordinator Shrodes feels good about the chosen time but is open to discussing the timing with other watershed coordinators to see which times have been successful for others.

5. Public Comment Period

Blake Whittington (public member) commented about the presentation that TreePeople made for their Rebuilding Soils for Effective Nature-Based Solutions project proposal in November. Whittington worked at TreePeople until March of last year and has another application with them open now. Whittington wanted to answer some questions that the WASC asked during the project presentation. The project is based on the idea of soil profile rebuilding. The first goal is to incorporate organic matter into the top layer of soil, and the second is to plant trees. These two goals work hand in hand. During the presentation, someone asked why this project would work in LA if it had originally been done on the east coast. Whittington said that the effect of different climates needs to be studied. In addition, this study will look at the effect on shrubs as well as trees. Lastly, they will study how soil retains water following a storm event.

Council Member Christian Horvath (City of Redondo Beach District 3) endorsed the Fulton Playfield project. They fully support the project's goals to capture runoff and improve water quality.

Zenith Martinez (OurWaterLA) expressed OurWaterLA's support for the renewal of Heal the Bay's Watershed Coordinator's contract. Annual requirements for public engagement events have been exceeded during the critical initial phase. They are confident that Coordinator Shrodes and Heal the Bay will diligently carry out the Watershed Coordinator duties.

Merrill Barr (public member) shared their support for renewal of Heal the Bay's Watershed Coordinator contract. Barr praised Watershed Coordinator Shrodes' ability to communicate with diverse communities and implement real world solutions. They have worked hard to build trust throughout the community and is a trusted messenger. One of their most successful tactics has been engaging with youth, who bring ideas home to their parents.

6. Discussion Items:

a) Ex Parte Communication Disclosure

Chair Cadwallader noted that in July 2021, they attended a meeting about the Fulton Playfield project. This was disclosed in a previous meeting as well.

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Member Dettle disclosed that they met with the Beach Cities watershed group last week to discuss the Beach Cities projects being presented today.

b) Technical Resources Project (TRP) Presentations

i) Hermosa Beach Multi-benefit Parking Lot Greening Project (Lot D)

Presentation by Hermosa Beach; Douglas Krauss

This is a demonstration project at Parking Lot D to include: a permeable paver system, native vegetation bioswales, and community multi-use benefits

Member Dettle asked whether the funding request is split over two years because the City has two different contracts to build each half of the parking lot. Mr. Krauss (City of Hermosa Beach) clarified that it does not have two separate contracts. Michelle Staffield (Consultant) added that for the sake of scheduling the project, it made sense to break down the funding across two years.

ii) Fulton Playfield Multi-Benefit Infiltration Project

City of Redondo Beach; Geraldine Trivedi. Additional presenters – Curtis Fang and Scott Struck of Geosyntec

This is a Beach Cities EWMP Project that supports MS4 compliance, creates additional community greening, and provides recreational opportunities.

Chair Cadwallader asked if the project will compete with West Basin for Water. Vice Chair Trivedi said that the project wells are deep but not as deep as West Basin's, which are located one mile away. They will not compete for water. Member Cung Nguyen noted that the Flood Control District provided a letter of conceptual approval of the project in July 2021.

c) Regenerate LA (Kiss the Ground)

As currently submitted, the project does not fit within the intent of the Technical Resources Program. The District proposed the applicant withdraw their submittal and submit during the next call for projects as a Scientific Study, or they can allow the WASC to vote to transfer the project from the Technical Resources Program to the Scientific Studies Program.

Member Santilena asked if the project could be reviewed by the Southern California Coastal Water Research Project (SCCWRP) if it was approved to be transferred. The District said SCCWRP is aware of the possible switch, and the project would undergo SCCWRP's third-party review if it is transferred.

d) Selection of the SSMB Watershed Coordinator for the next term

Member Trivedi asked whether Coordinator Shrodes specifically would continue as the Coordinator if the HtB contract were to be renewed. The District said yes. Member Trivedi would like to see Coordinator Shrodes continue her role.

Member Dettle said they would like to see SSMB WASC complete a year with Heal the Bay, and noted a desire to see them reach out more to city staff that serve disadvantaged communities to

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help them work on projects without enough funding, as that is a key function of the role.

7. Public Comment Period

There were no public comments under Agenda Item 7.

8. Voting Items

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

No committee members motioned to transfer the project. Member Santilena expressed discomfort with voting on this item and felt the Committee would benefit from more information before doing so. The District asked Callie Ham (Kiss the Ground) to weigh in. Ham said that the main goal of the project is to build out compost infrastructure at parks and increase community engagement in doing so. They would like to capture data on soil health, infiltration, and more throughout the project. Some questions from the WASC have been incorporated into the project design, and a soil expert has contributed to the project design. Kiss the Ground plans to submit the proposal within the Scientific Studies, Regional Program guidelines this week. Ham reminded the WASC they are not voting to approve the project – they are just voting to move it to Scientific Studies.

Chair Cadwallader asked if this could be tabled for the next meeting. Tori Klug (Stantec) questioned if discussing this at the next meeting would allow enough time for SCCWRP to review the project. District suggested that Kiss the Ground could still submit under the Scientific Study Program this week so that SCCWRP has enough time to review, and discussion can continue during the next meeting.

Member Santilena expressed concern about setting a precedent that projects can change scope and hop between programs. District clarified that the scope and budget have not changed from the original submittal. District suggested tabling the discussion for the next meeting.

b) **Reselect the current SSMB Watershed Coordinator for the next term.**

Motion to reselect the current SSMB Watershed Coordinator for the next term, by Chair Craig Cadwallader, seconded by Member Nguyen. The WASC voted to reselect the current SSMB Watershed Coordinator, Heal the Bay (approved, see vote tracking sheet).

9. Items for Next Agenda

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

- a) Three Infrastructure Program projects will be presented at the next meeting. Project applications can be viewed online.
- b) The WASC will further discuss the transfer of Regenerate LA application from Technical Resources Program to Scientific Studies Program.

10. Adjournment

South Santa Monica Bay

Watershed Area Steering Committee (WASC)

Meeting Minutes



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

SOUTH SANTA MONICA BAY WASC MEETING - January 19, 2022

		Quorum Present				Voting Items					
Member Type	Organization	Member	Voting?	Alternate	Voting?	Approve Meeting Minutes For November 17th, 2021	Voting Item 1	Reselect SSMB Watershed Coordinator (Heal the Bay)	Voting Item 3	Voting Item 4	Voting Item 5
Agency	LACFCO	Cung Nguyen	x	Ramy Gindi		y		y			
Agency	West Basin MWD	E.J. Caldwell		Alex Heide							
Agency	Water Replenishment District	Robert Beste		Esther Rojas							
Agency	LAC Sanitation District	Kristen Ruffell		Christopher Lapaz	x	y		y			
Agency	LA Recreation & Parks	Cathie Santo Domingo		Darryl Ford							
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		y			
Community Stakeholder	Los Angeles Conservation Corps	Wendy Butts	x	Bo Savage		y		y			
Municipal Members	Carson	Eliza Jane Whitman	x	<i>Vernon Villanueva</i>	x	y		y			
Municipal Members	Los Angeles	Susie Santilena	x	Ilene Ramirez		y		y			
Municipal Members	LAC Public Works	TJ Moon		Thuan Nguyen	x	y		y			
Municipal Members	Torrance	John Dettle	x	Wilson Mendoza	x	y		y			
Municipal Members	EWMP: Beach Cities	Geraldine Trivedi	x	Doug Krauss	x	y		y			
Municipal Members	EWMP: Dominguez	Heecheol Kwon		<i>Lauren Amimoto</i>	x	a		y			
Municipal Members	EWMP: Peninsula	Ken Rukavina	x	David Wahba		y		y			
Watershed Coordinator	Heal the Bay	Nancy Shrodes	x			N/A	N/A	N/A	N/A	N/A	N/A
	Total Non-Vacant Seats	16				Yay (Y)	12	0	13	0	0
	Total Voting Members Present	16				Nay (N)	0	0	0	0	0
	Agency	2				Abstain (A)	1	0	0	0	0
	Community Stakeholder	4				Total	13	0	13	0	0
	Municipal Members	10				Approved	Not Approved	Approved	Not Approved	Not Approved	Not Approved

Other Attendees

- Adam Acosta
- Blake Whittington
- brett perry
- Callie Ham
- Call-in User_3
- Call-in User_4
- Cung Nguyen
- Curtis Fang
- Danielle Chupa
- Doug Krauss
- eliza Whitman
- emily ramos
- Ghina M Yamout
- Jacqueline Mak
- Jan Dyer
- Jessica Quach
- Jonathan Lee (Tetra Tech)
- Julian Lee
- Katherine (she/her) Pease
- Kathleen McGowan
- Mark Hall
- Matt Romero
- Megan Kung
- Merrill Barr
- Michael Scaduto
- Michelle Staffield
- Mikaela Randolph
- Mora Camplair
- Nate Schreiner - Tetra Tech
- Ryan Jackson
- Sarai Bhaga
- Scott Struck
- Susan Robinson
- Susie Santilena
- Tammy Takigawa
- Thomas Lee

Public Comment

South Santa Monica Bay Watershed Area Steering Committee

Los Angeles County Safe, Clean Water Program

RE: Rebuilding Soils for Effective Nature-based Solutions Presentation by TreePeople

December 28, 2021

Committee Members,

I attended the November 17, 2021 meeting of your committee and witnessed the referenced presentation by TreePeople. It seemed to me that not all committee questions were adequately addressed. I know some about this proposal and hoped I could clarify a few things.

The study would implement a process called Soil Profile Rebuilding. This process has two equally important parts: 1) amending the top soil to 60 cm. with organic matter and, 2) planting trees. This is not just another amending-the-soil project. The trees play a crucial role in breaking up the compacted soil, opening pathways for the organic material to move down the soil profile. Without the tree roots this process would not achieve the increased permeability that it does.

There are four reasons we should run this test here and not rely solely on the East Coast tests.

1. As was mentioned in the presentation the environmental conditions are different here than in Virginia. It seems unlikely that these differences would change the overall performance of Soil Profile Rebuilding, but it seems wise to make sure before investing project money.
2. Many projects in LA County would not be suitable for trees. This study will look at the process' performance when shrubs, with shorter root systems, are used instead. It is unknown at this point how using shrubs will alter the permeability results.
3. The ultimate benefit of Soil Profile Rebuilding for the South Santa Monica Bay area is not so much providing a path from streets to groundwater tables but rather providing space within the soil profile to hold stormwater during storm events so that that water does not need to go through the sewer sanitation system. This issue is another difference from the Arlington, VA trials which needs verification here.
4. Project proponents will be far more likely to embrace Soil Profile Rebuilding if it has been tested locally in conditions similar to their projects.

I hope this helps.

Sincerely,

Blake Whittington

Altadena, CA 91001



Public Comment Form

Name:* Azeneth Martinez Organization*: OurWaterLA
Email*: ourwaterla@gmail.com Phone*: n/a
Meeting: SSMB WASC Date: 01/19/2022

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

Our Water LA (OWLA) would like to state for the record our support for the renewal of Heal the Bay's watershed coordinator contract, which will be voted on by the South Santa Monica Bay WASC on January 19th, 2022. Nancy Shrodes has completed extensive engagement with diverse stakeholders in the South Santa Monica Bay watershed area during her first year as Watershed Coordinator, exceeding the annual requirements for public engagement events even though it has been less than a year since she was officially brought on board. This initial phase of outreach and engagement is critical for the successful implementation of the watershed coordinator program as a whole. We are confident that Nancy Shrodes and the Heal the Bay team would continue to diligently and thoughtfully execute the required tasks as Watershed Coordinator if the contract is renewed. We urge a vote of "yes" to renew Heal the Bay's watershed coordinator contract.



SOUTH SANTA MONICA BAY

QUARTERLY REPORTS REVIEW



-Watershed Coordinator Presentation-



Heal the Bay

SAFE, CLEAN WATER PROGRAM (SCWP) MISSION

CAPTURE IT

Increase water supply

CLEAN IT

Reduce volume of trash that reaches waterways and the ocean

MAKE IT SAFE

Eliminate toxins and chemicals from our waterways

MAKE IT FOR EVERYONE

Provide community benefits



TODAY'S AGENDA



UPDATES ON SOEP IMPLEMENTATION

BY ROLE



REVIEW Q1-Q3 HIGHLIGHTS



LOOKING AHEAD...

WATERSHED COORDINATOR ROLE



SOEP Presented in July, Adopted in August

STRATEGY: 5 General Areas in the Draft SOEP

Suggested areas by Stantec, with many areas of overlap

- 1 Community Engagement (stakeholders, municipalities, community groups)
- 2 Solicit Input and Connect to TRP/Program Elements
- 3 Ensure Diverse Perspectives are Included in Districts and WASCs
- 4 Identify and Ensure Involvement of Members of DAC and Underrepresented Communities
- 5 Ensure Educational Programming About Watershed Management, Ecological and Community Issues



December 9 Watershed Wide Workshop

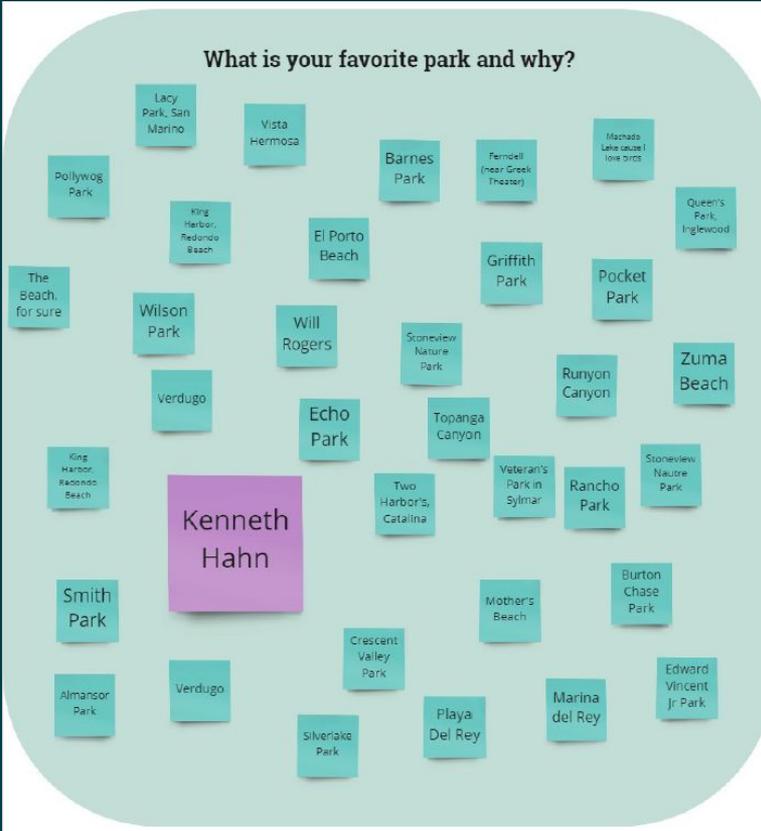
What can stormwater do for us?

¿Qué puede hacer el agua de lluvia por nosotros?

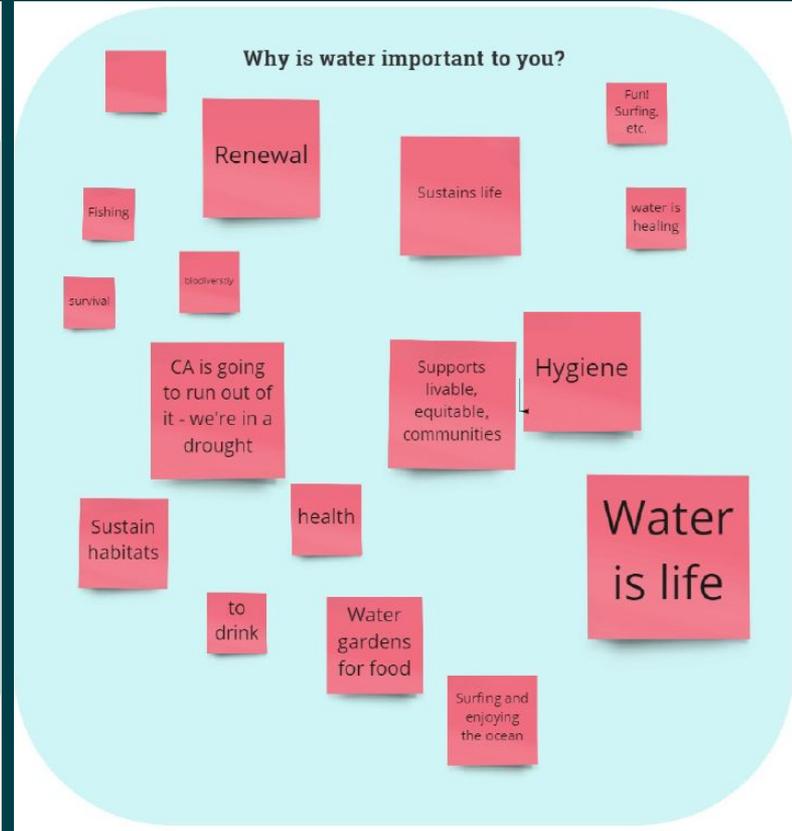


Engagement - Miro Board

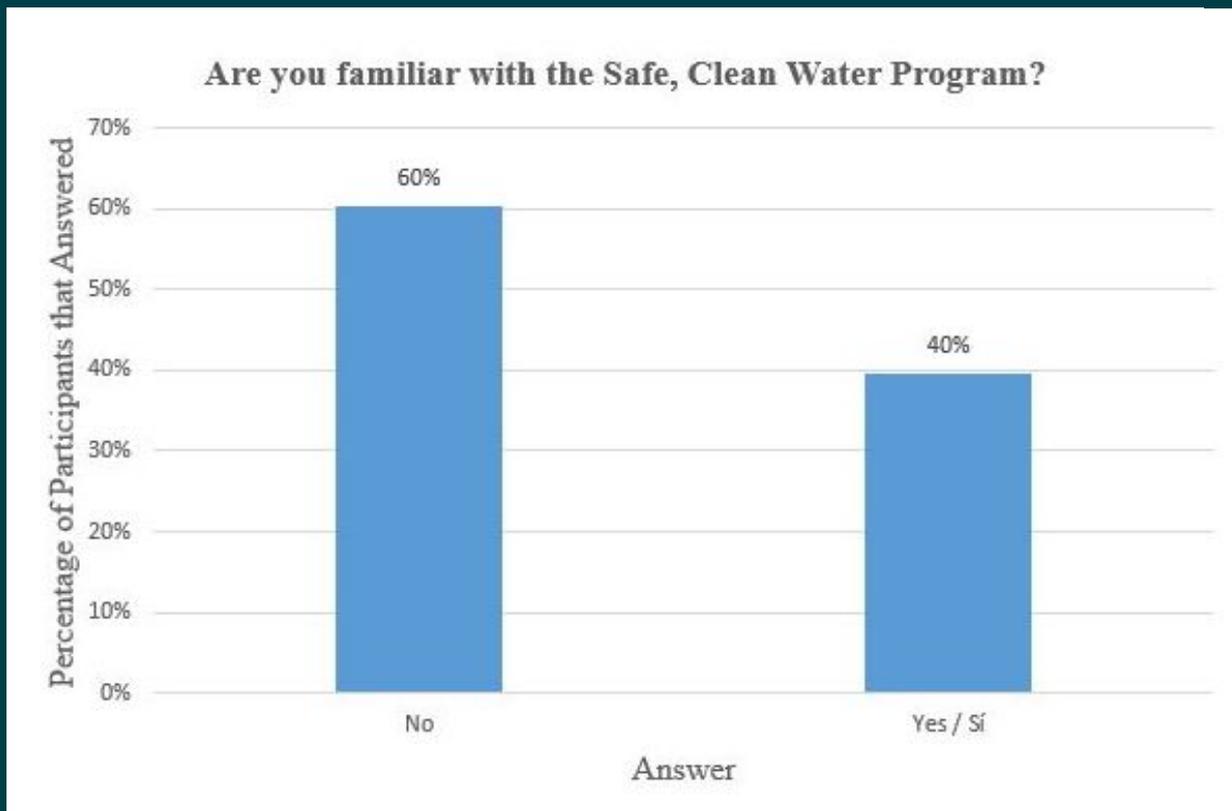
What is your favorite park and why?



Why is water important to you?

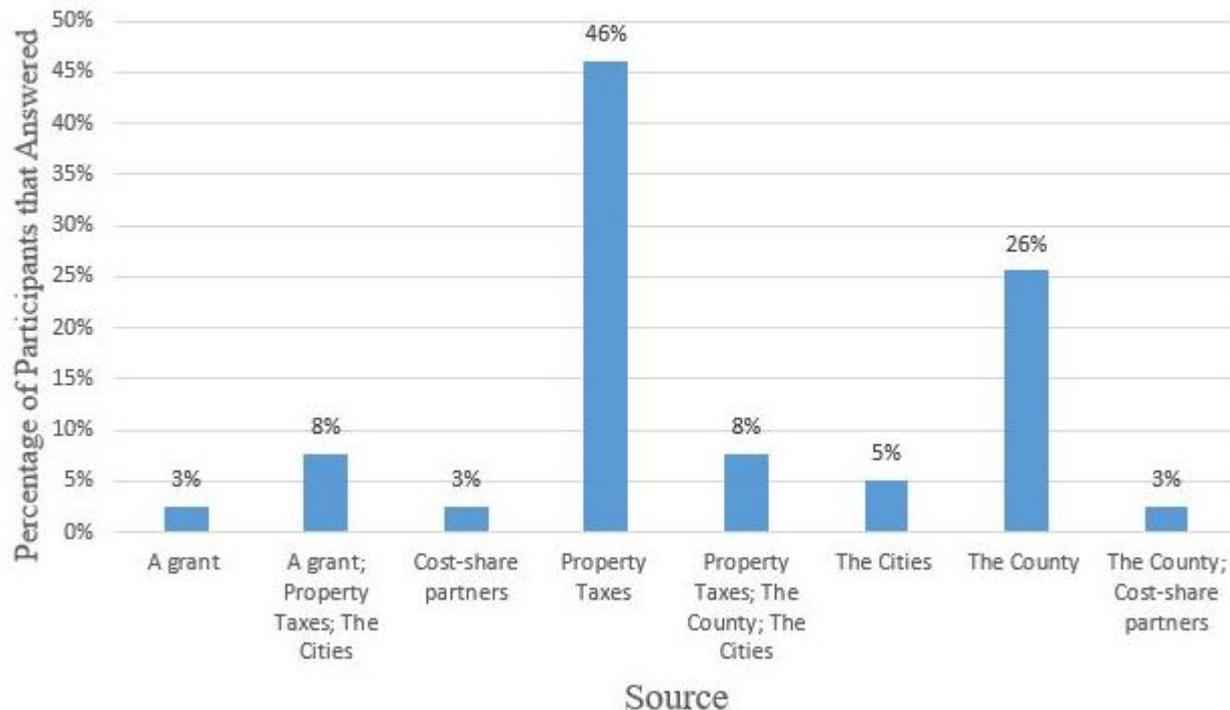


Engagement - Polls



Engagement - Polls

Where does Safe, Clean Water funding come from directly?



Watershed Coordinator Tasks



	Task	Total Task Level of Effort (from work plan)	Accumulated LOE to-date (from monthly reports)
1	Facilitate Community Engagement	38.26%	43%
2	Identify and Develop Project Concepts	6.69%	3%
3	Work with Technical Assistance Teams	3.88%	9%
4	Facilitate Identification and Representation of Community Priorities	11.74%	11%
5	Integrate Priorities through Partnerships and Extensive Networks	7.03%	6%
6	Cost-share Partners	5.52%	1%
7	Leverage Funding	5.90%	3%
8	Local Stakeholder Education	16.21%	31%
9	Watershed Coordinator Collaboration	4.79%	15%

Highlighted Numbers, at a glance



- Held/Attended over **80 meetings**
- **Interviewed 18 WASC members/alternates** (outside of those aforementioned meetings)
- **54 presentations** throughout the County, reaching **2,050 people**
- **7 tabling events** in the SSMB
- **1st Watershed Wide Event**
 - **291 RSVPs, 112 participants, 142 FB views**
 - Facebook: 1,278 link clicks, **32,580 people reached, 90,408 impressions**
 - Instagram: 60 link clicks, **1,949 people reached, 12,473 impressions**
 - Email the day before: **15,858 people opened, 357 clicked to see the Eventbrite**
- Canvassing Compton- **269 doors** knocked, over **900 flyers** distributed, **25 surveys** completed
- Canvassing Wilmington- **94 doors** knocked, over **300 flyers** distributed, **8 surveys** completed
- SJLI Food Distribution- **1,555 informational flyers** included

In the Field- what the #s look like



In the Field- what the #s look like



Interested Parties/Meetings (snapshot)



WASC Members
Partners (SJLI + Jesse)
OurWater LA
Green LA
TreePeople
GLAC IRMW SB
Harbor City TRP
Eastview Park TRP
Regenerate LA
Watershed Coordinators
Green Schoolyard WG
Funding WG
Kiss the Ground
Stephen Groner Associates
South Bay COG
LA County Parks & Rec
Leadership Manhattan Beach
Regional Oversight Committee
Scoring Committee
City of Rancho Palos Verdes

Stantec staff
County staff
Measure A Citizens Oversight Advisory Board
L'Oreal
Sacred Places Institute
LA Sanitation
Trust for Public Land
San Pedro Community Garden Directors
City of Los Angeles
Council for Watershed Health
City of Inglewood
City of Carson
WSP
Regional Water Quality Control Board
Los Angeles Neighborhood Land Trust
CWEA P3S representatives
LAANE
Neighborhood Council Sustainability Association
San Pedro Neighborhood Council
Liberty Hill

Community Surveys



Anecdotally, in conversations with community members, there are a lot of concerns about water quality and safety in green spaces.

Some feel there are safety threats from those experiencing homelessness, others feel that it could be a gathering space at night for gang-related activities.

Another barrier to some constituents is transportation to reach green spaces.

From the preliminary surveys specifically thus far, SSMB community members are #1 concerned about drought and resilience on imported water, but also trash, pollution, and industrial contamination.

Park on 190th at Blossom (Redondo Beach)

*Truck lots (Wilmington);
Improve local parks
(Compton)*

Area by Cabrillo Beach

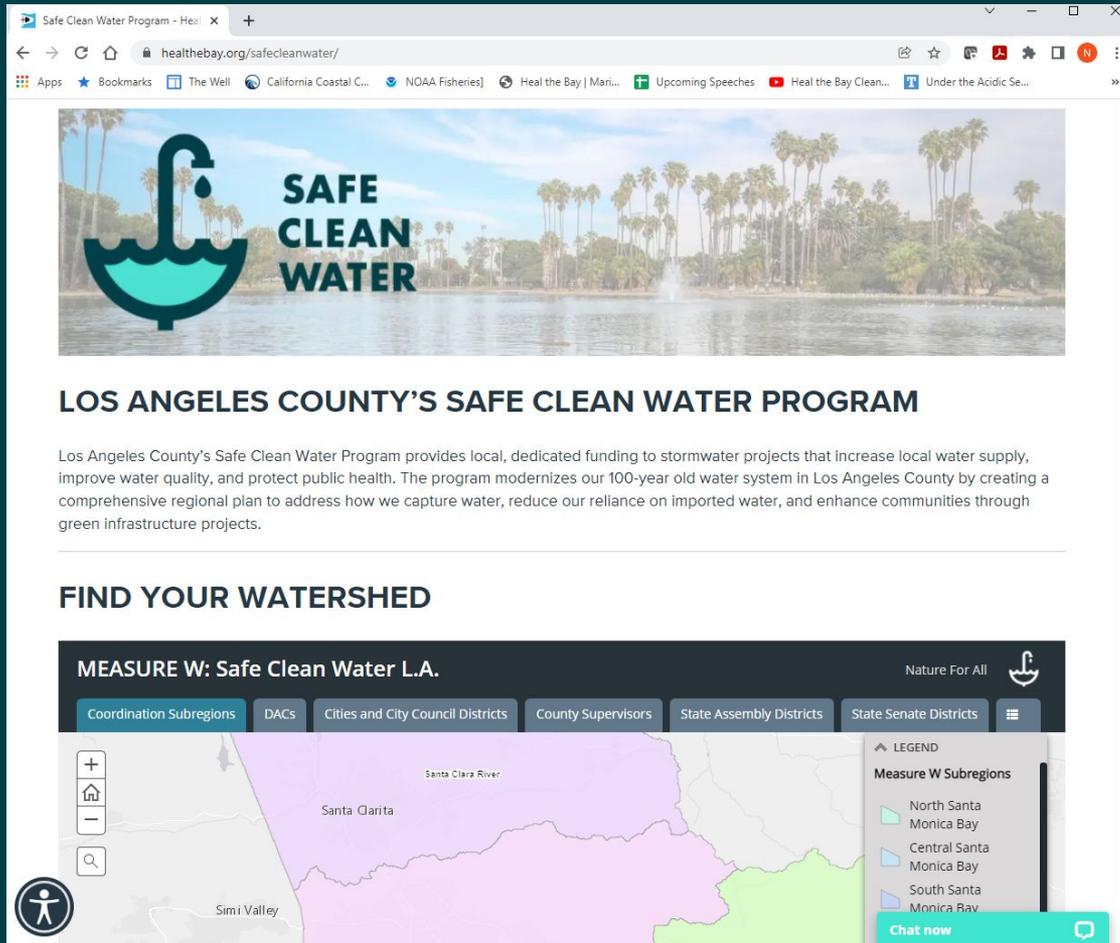
What is one **outdoor area** in your community that is in need of beautification or improvement? This could be anything from an abandoned lot, a local park that could be improved, or a street corner prone to flooding. Please be specific about the location. (Optional)

Peck Park (San Pedro)

*The area around the ports
are filthy.*

*CVS Parking lot at
the corner of
Inglewood &
Rosecrans*

Website Success!



The screenshot shows a web browser window with the URL healthebay.org/safecleanwater/. The page features a large banner image of a lake with palm trees and a stylized logo of a water drop falling into a basin. Below the banner is the title "LOS ANGELES COUNTY'S SAFE CLEAN WATER PROGRAM" and a paragraph of text describing the program's goals. Further down is a section titled "FIND YOUR WATERSHED" which includes a map interface for "MEASURE W: Safe Clean Water L.A." with various navigation tabs and a legend for subregions.

SAFE CLEAN WATER

LOS ANGELES COUNTY'S SAFE CLEAN WATER PROGRAM

Los Angeles County's Safe Clean Water Program provides local, dedicated funding to stormwater projects that increase local water supply, improve water quality, and protect public health. The program modernizes our 100-year old water system in Los Angeles County by creating a comprehensive regional plan to address how we capture water, reduce our reliance on imported water, and enhance communities through green infrastructure projects.

FIND YOUR WATERSHED

MEASURE W: Safe Clean Water L.A. Nature For All

Coordination Subregions | DACS | Cities and City Council Districts | County Supervisors | State Assembly Districts | State Senate Districts

LEGEND
Measure W Subregions

- North Santa Monica Bay
- Central Santa Monica Bay
- South Santa Monica Bay

Chat now



ABOUT US

Meet the Watershed Coordinators of the Central Santa Monica Bay and the South Santa Monica Bay.



Mikaela Randolph – Senior Watershed Specialist of the Central Santa Monica Bay

Favorite beach: Dockweiler Beach
Favorite hike: Stocker Corridor Trail
Favorite food spot: The Original Thai BBQ

[Let's chat](#)



Nancy Shrodes – Senior Watershed Specialist of the South Santa Monica Bay

Favorite beach: Bruce's Beach
Favorite hike: Portuguese Bend
Favorite food spot: LBJ's, 85°C Bakery Cafe & Quality Seafood

[Let's chat](#)



HAVE YOUR VOICE HEARD

Chat now 





Safe Clean Water Program - Heal the Bay | healthebay.org/safecleanwater/

HAVE YOUR VOICE HEARD

The Safe Clean Water Program Watershed Coordinators are working to understand priorities and needs from local communities. Your Watershed Coordinators will use survey responses to inform decision-making around infrastructure projects in the Central and South Santa Monica Bay watershed areas.

[Take Community Survey – English](#)

[Take Community Survey – Spanish](#)

GET INVOLVED

Learn about your watershed area by joining upcoming public meetings.

[Attend a meeting for the Central Santa Monica Bay watershed](#)

[Attend a meeting for the South Santa Monica Bay watershed](#)

Get the latest updates right in your inbox about the Central and South Santa Monica Bay watersheds.

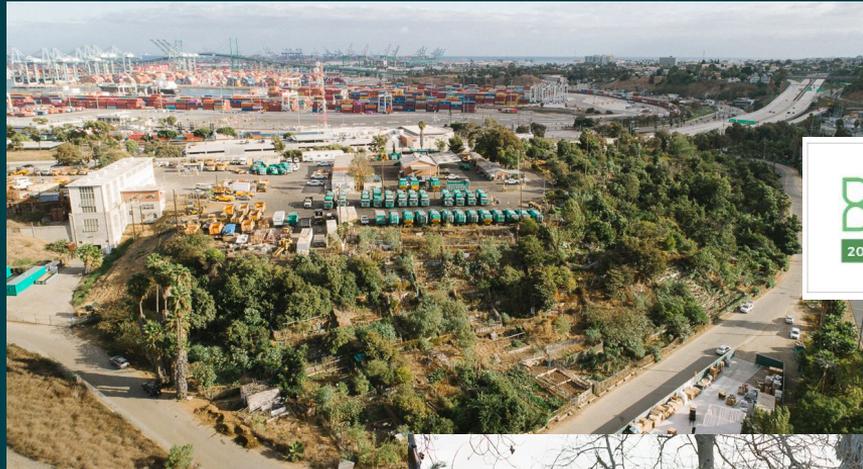
[Sign Up for Our Newsletter](#)

Q4 (and hopefully beyond!)



LOS ANGELES
COMMUNITY GARDEN COUNCIL
20 YEARS OF CULTIVATING COMMUNITY GARDENS

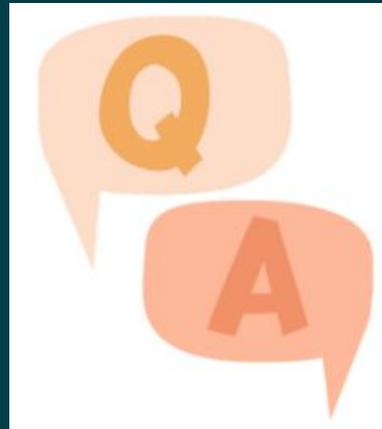
BioBlitz



Thank you!



Any Questions or Discussion Points?



An aerial photograph of Hermosa Beach, California, showing the coastline, the ocean, and the city grid. The image is partially obscured by a dark teal overlay on the left side where the text is located.

Hermosa Beach Multi-Benefit Parking Lot Greening Project (Lot D)

Infrastructure Program

Fiscal Year 2022-2023

South Santa Monica Bay Watershed Committee

City of Hermosa Beach

Presented by Douglas Krauss



Project Overview

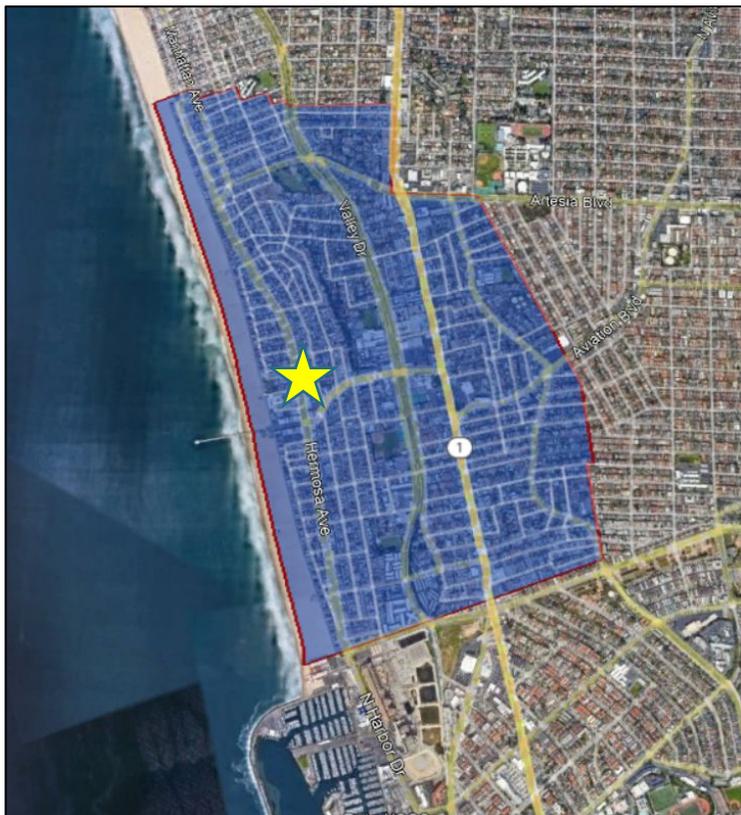
Multi-benefit demonstration project at Parking Lot D to include: a permeable paver system, drywell, native vegetation bioswales, and diverse community benefits

- Primary and Secondary Objectives:
 - Improve water quality within the Santa Monica Bay watershed
 - Address public health concerns and community safety at a heavily-used public parking lot adjacent to Santa Monica Bay
 - Enhance public access to the beach, The Strand (part of the California Coastal Trail), and Downtown Hermosa Beach
 - Increase native and drought tolerant vegetation and decrease the local heat island effect
- Project Status: Design complete, shovel-ready
- Total Funding Requested to Complete Construction: \$423,950.00
 - Year 1 Funding Requested: \$211,975.00
 - Year 2 Funding Requested: \$211,975.00

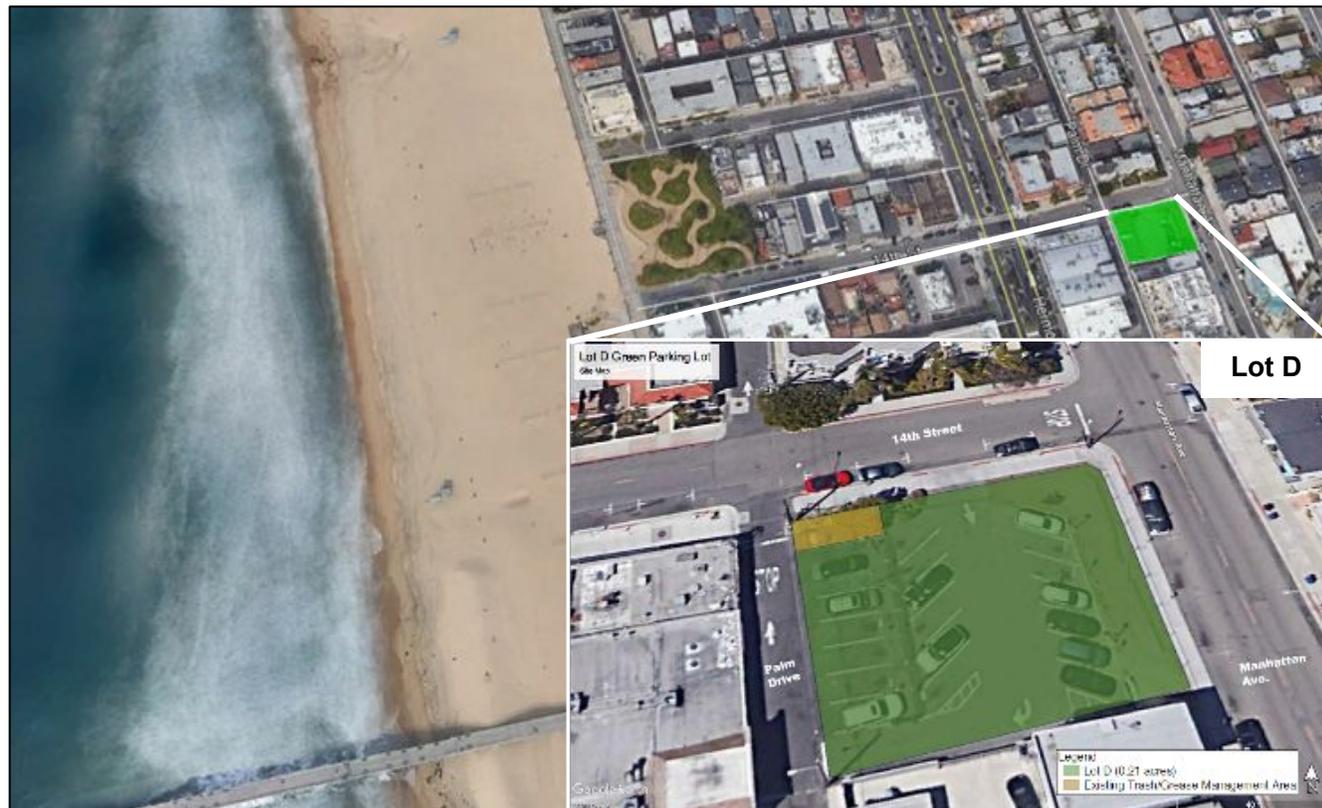




Project Location



- The project is located in the City of Hermosa Beach, within the Santa Monica Bay Watershed
- City of Hermosa Beach is part of the Beach Cities (BC) Watershed Management Group



- Project site is located about 750 feet from the beach
- The project area has a high soil infiltration rate of 53 to 66 inches per hour
- The project retains wet weather runoff from a critical pollutant source and high-priority land use



Project Background



Downtown Hermosa Beach



Current Site Conditions

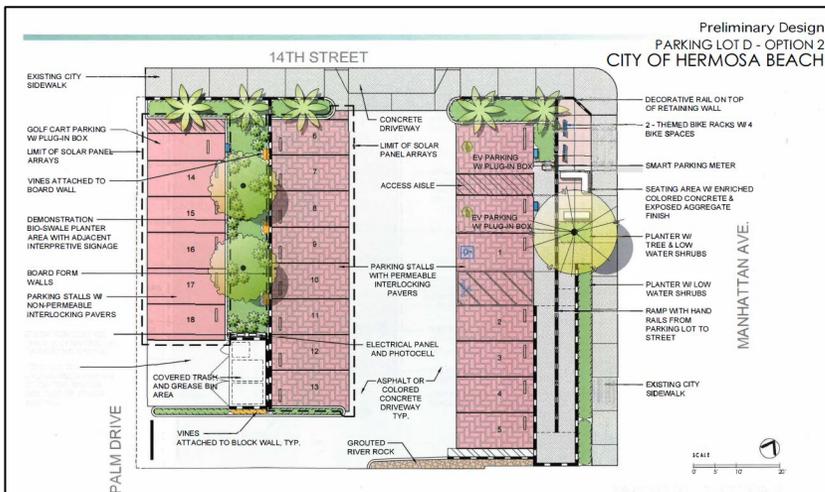
- Parking Lot D is a short-term (2-hr limit) metered public parking lot operated by the City of Hermosa Beach, 1 ½ blocks from the beach.
- Lot D is heavily used by the surrounding community and tourists to access outdoor coastal activities at the beach, Downtown Hermosa Beach, and along the Strand, a section of the California Coastal Trail.
- Lot D is currently paved with impervious asphalt with no planters or areas for stormwater to infiltrate, so rainwater flows off into the ocean carrying high-priority pollutants into the Santa Monica Bay (SMB).
- Project engagement (surveys) show that many visitors come from a surrounding radius of 5-10 miles, with about 500,000 residents living in disadvantaged communities including the City of Lawndale and the City of Hawthorne for whose residents Hermosa Beach is a popular recreation destination.
- Extensive community outreach and engagement was conducted to ensure that Lot D renovation would address the needs of diverse stakeholders.
- Renovation of Parking Lot D will address the needs of the community, stormwater capture, and serve as a demonstration project from which lessons learned through design and construction will be applied in developing design plans for the remaining 20 parking lot sites in the City.



Project Details



Project rendering



Project design

- City applied for and received \$433,650 for the project from a Coastal Conservancy grant.
- Geotechnical testing indicated that groundwater was not encountered in borings of 16.5 feet below grade; infiltration rates were observed to be 53 to 66 inches per hour.
- Hydrological analyses and a utility review have been conducted.
- A passive, low-impact development design was prioritized – including a permeable paver system, drywell, and a native vegetation bioswale without mechanical stormwater treatment components.
- The design harmoniously integrates the parking lot and native landscape and maximizes on the site's high treatment capacity (infiltration rate). The project also includes a full trash capture system installed in an adjacent catch basin.
- The diverse array of community amenities include ADA upgrades, increased parking spaces, solar panels, two charging stations each for full size electric vehicles and neighborhood electric vehicles, a bike corral, CPTED safety lighting levels & distribution, pedestrian seating, and 184 individual drought tolerant and native plants.



Cost & Schedule

Phase Costs			
Phase	Description	Cost	Completion Date
Planning	Project planning	\$ 20,000.00	06/2020
Design	Project design, project management	\$ 140,000.00	06/2021
Construction	Project construction and project management	\$ 880,600.00	10/2023
Total Funding:		\$ 1,040,600.00	

Annual Cost Breakdown	
Annual Maintenance Cost:	\$ 12,000.00
Annual Operation Cost:	\$ 0.00
Annual Monitoring Cost:	\$ 50,000.00
Project Life Span:	20 years

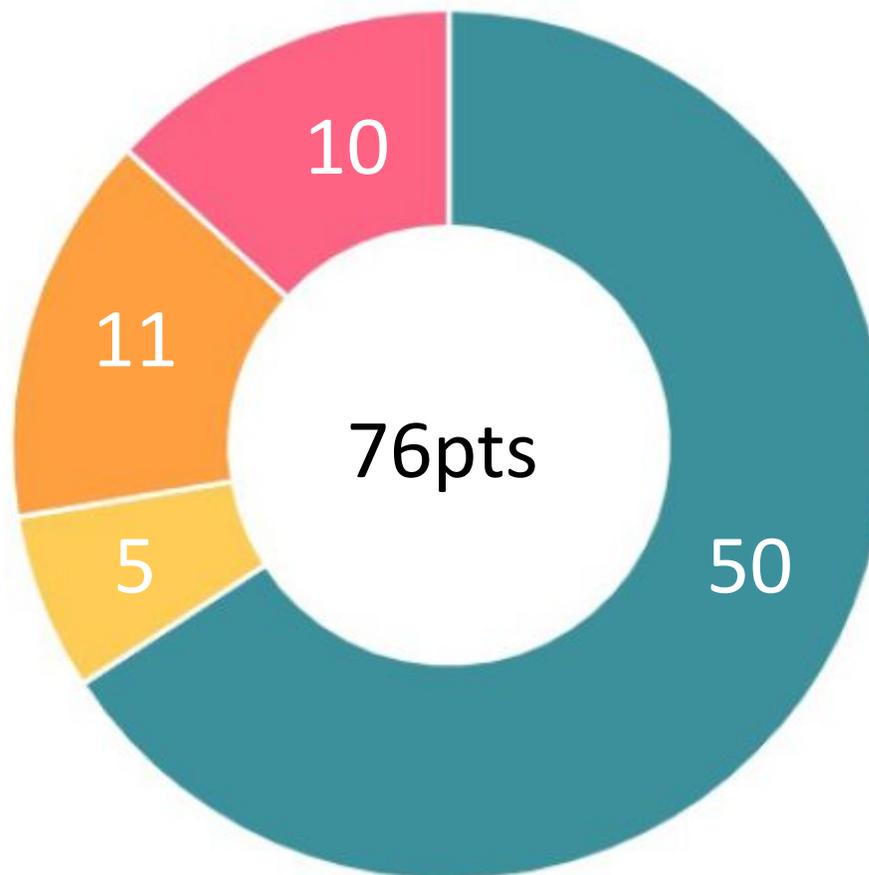


Funding Request

Funding Requested by Year & Phase			
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
Year 1	\$ 211,975.00	Construction	Construction Year 1
Total Year 1	\$ 211,975.00		
Year 2	\$ 211,975.00	Construction	Construction Year 2
Total Year 2	\$ 211,975.00		
Total Funding:	\$ 423,950.00		

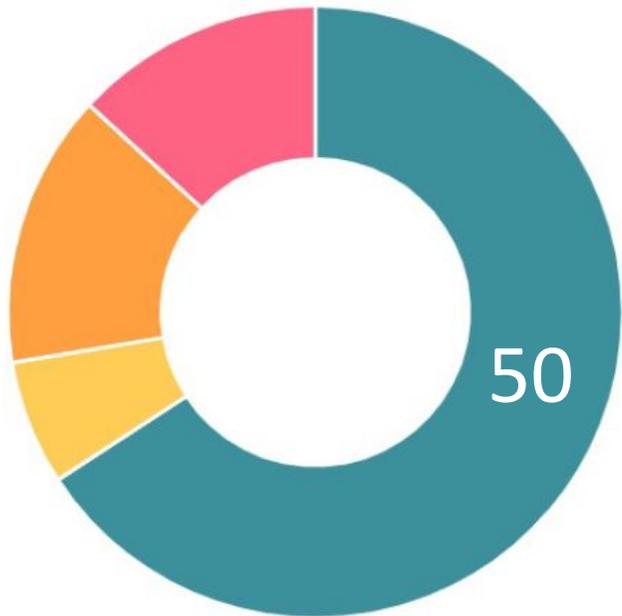


Scoring Committee Score





Water Quality Benefits



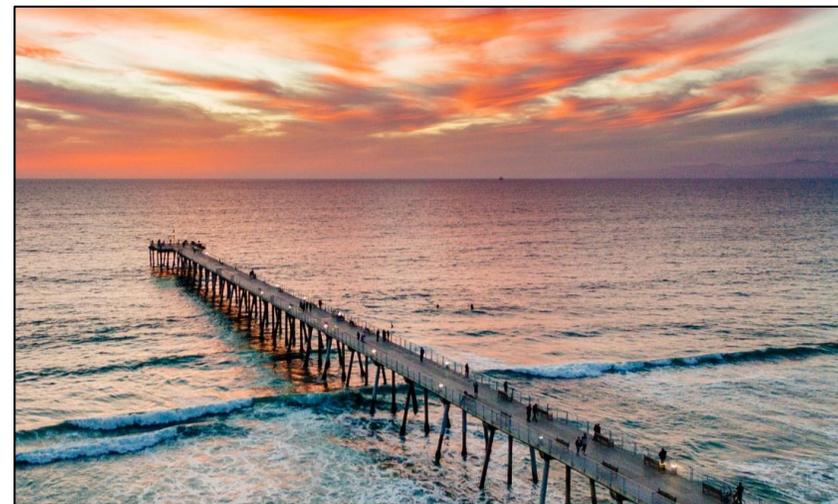
- Primary stormwater management components: runoff/pollutant capture, infiltration, and filtration.
- Geotechnical study observed a high infiltration rate of 53 to 66 inches per hour.
- The proposed permeable paver system, drywell, and native vegetation bioswales have a SCW module-generated 24-hour capacity of 10.72 acre-feet. The project also includes a full trash capture system installed in an adjacent catch basin.
- The project will capture 100% of the 85th percentile 24-hour storm event.
- The project will address bacteria (SMB Beaches Bacteria TMDL) as the primary pollutant and toxicity (SMB DDT and PCB TMDLs) as the secondary pollutant.



Bioswale



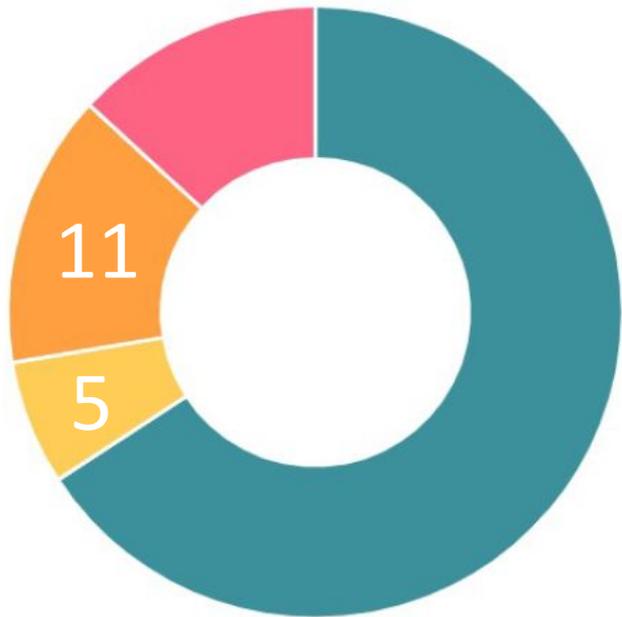
Permeable Pavers



Hermosa Beach Pier



Community Investment Benefits and Nature-Based Solutions



Anemopsis californica
Yerba Mansa



Limonium californicum
California Sea Lavendar



Melaleuca leucadendra
Cajeput Tree

Community Investment Benefits:

- Flood management: project will ameliorate localized flooding and stress to the storm drain system, especially the Pier Avenue storm drain.
- Enhance public access to waterways: project will improve accessibility to the beach (increased parking spaces, EV charging stations, bike corrals, pedestrian seating), and enhance the safety of Lot D (ADA upgrades, solar panels, safety lighting, native landscaping erosion control).
- Enhance recreational opportunities: project will improve visitor experience to the beach, trails, and Downtown Hermosa Beach. Parking lot will provide space for more sustainable modes of transportation, increased green space, and pedestrian friendly areas.
- Increased shade and reduced local heat-island effect: Landscape plans include a total of 6 trees and a host of drought-tolerant native plants, totaling more than 184 individual plants. Project will also explore the opportunity to employ disadvantaged youth with LA Conservation Corps to propagate and install the native and drought tolerant plants.

Nature-Based Solutions:

- There are two key natural processes being implemented: infiltration through native soils and vegetation and utilization of native landscaping to create local habitat.

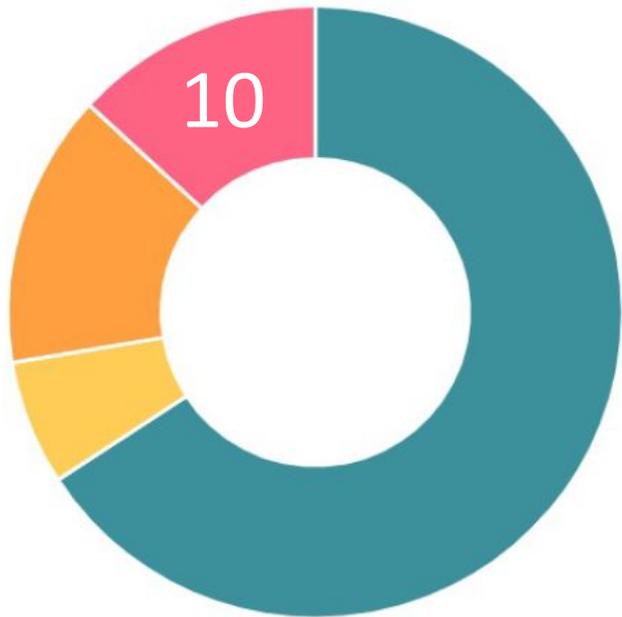


Bike Corral

Plant Palette



Leveraging Funds and Community-Based Outreach



Organizations that provided letters of support or grant funds:

- Beach Cities Health District
- Mayor, City of Hermosa Beach
- South Bay Surfrider Foundation
- State Coastal Conservancy

- Leveraging Funds:
 - City intends to commit a total of **\$616,650 in matching funds** (\$433,650 from a Coastal Conservancy grant and \$183,000 from the City General Fund).
- Community-Based Outreach:
 - City organized a community workshop to present the parking lot project vision and constraints, and garner community input and involvement. City also held a community education and outreach event to educate residents, and businesses regarding the multiple benefits of the project and to receive feedback.
 - Community outreach tools included on-site meetings, mailers, a dedicated project page on the City's website, information booths at City events, notices and articles in local newspapers, updates at City Council meetings and through social media platforms.
- Community Stakeholders Involved:
 - *Access Hermosa* addressed ADA accessibility issues through the City, and the South Bay Bicycle Coalition provided input on preferred bicycle options.
 - The Surfrider Foundation provided input on the stormwater elements.
 - The Police Department and Downtown Subcommittee provided input on lighting and safety.
 - The Chamber of Commerce assisted in informing businesses regarding the project.



Questions?



Fulton Playfield Multi-Benefit Infiltration Project

Infrastructure Program

Fiscal Year 2022-2023

South Santa Monica Bay Watershed

Geraldine Trivedi, City of Redondo Beach

Scott Struck, Curtis Fang, Geosyntec Consultants



Project Overview

A Beach Cities EWMP Priority Project that supports MS4 compliance and creates additional community greening and recreational opportunities.

Primary Objective	Provide water quality benefits through capture and infiltration
Secondary Objectives	Infiltrate runoff into deep ground to contribute to sea water intrusion barrier Enhance recreational opportunities
Phases Requested for Funding	Planning, Design, Construction, O&M
Total Funding Requested	\$4,292,138





Project Location & Background

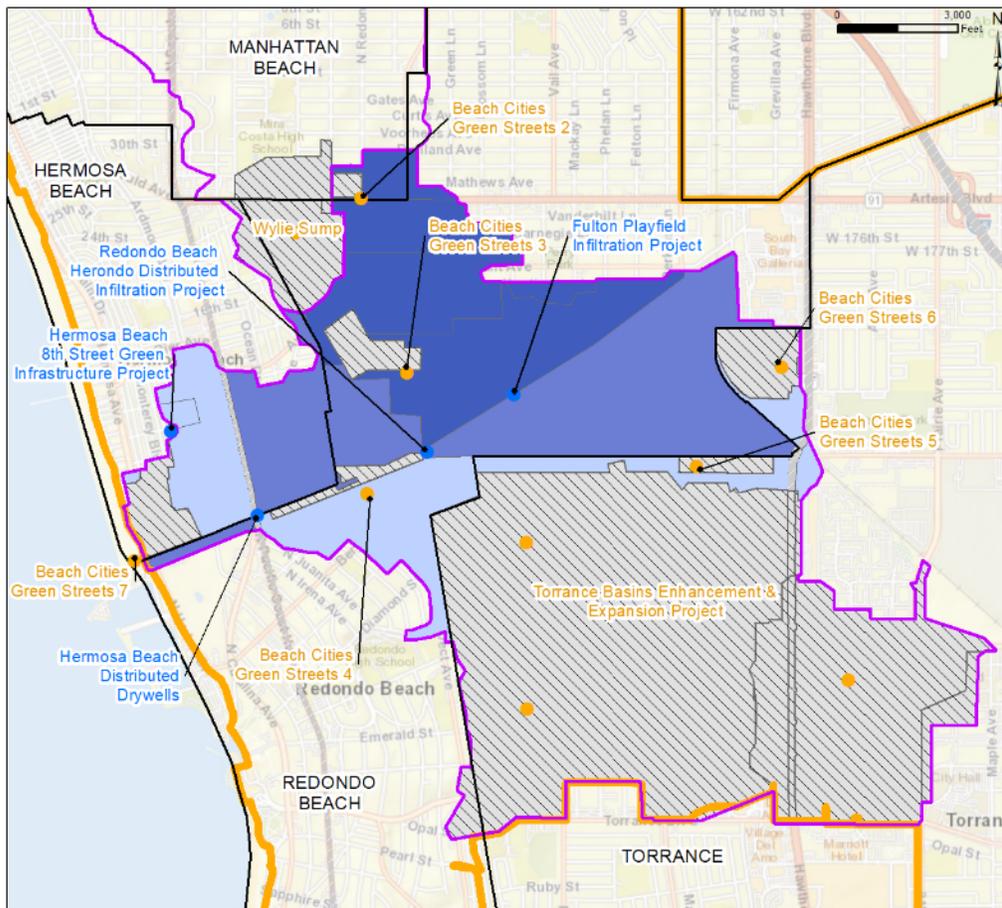


- **Project Location:**
Fulton Playfield, City of Redondo Beach
Beach Cities Watershed Management Group
- **Watershed:**
South Santa Monica Bay





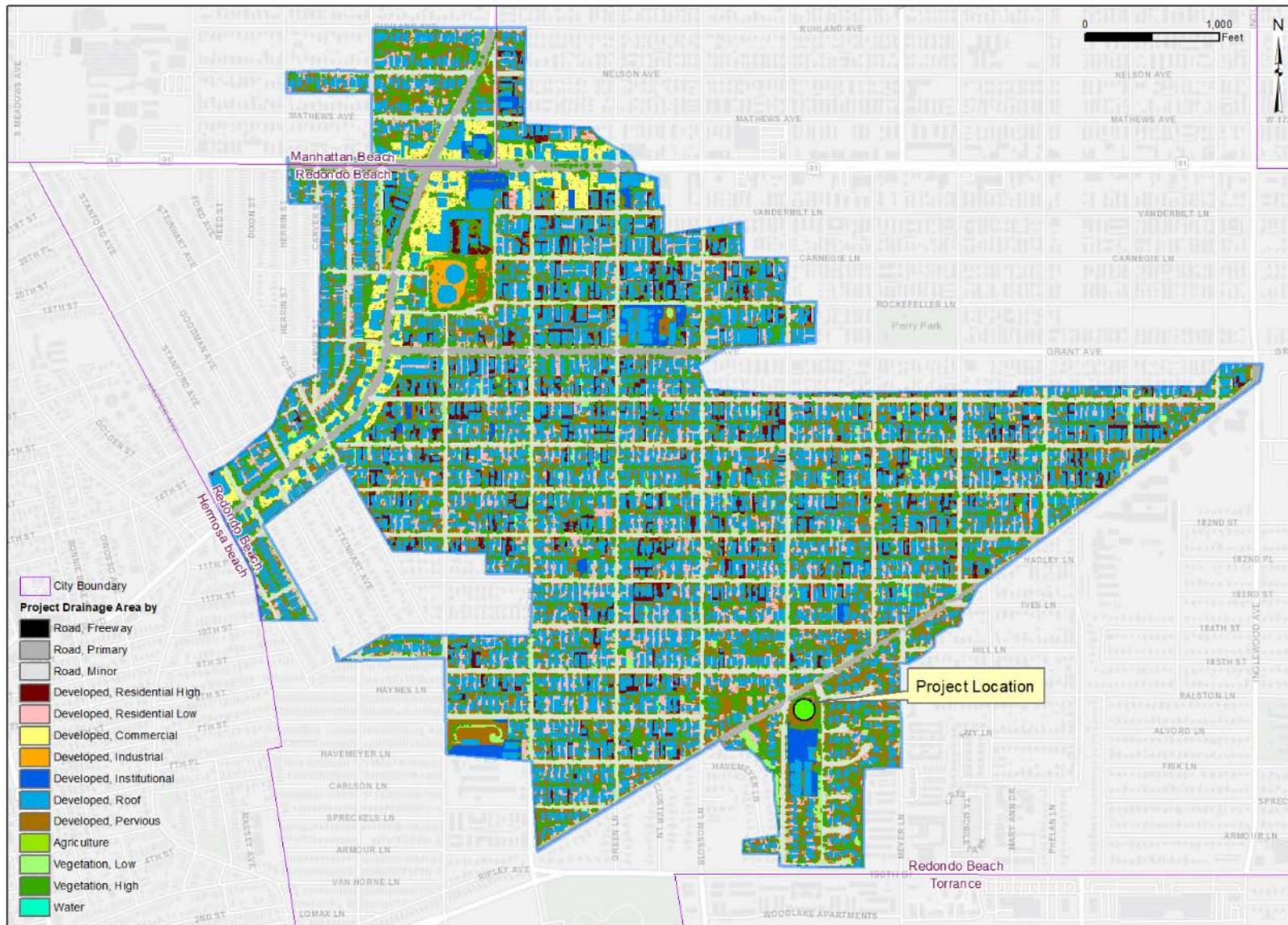
Project Location & Background



- Utilizes **existing** LACFCD 6.6 acre-ft flood control basin at Fulton Playfield – **Highly cost effective** (approximate \$10M construction cost saved)
- Divert and capture stormwater upstream of the deep Herondo Drain, thereby implementing an economically feasible project for the Watershed
- Developed in coordination with the Beach Cities WMG, LA County Flood Control District, and Valor Christian Academy
- A priority regional project developed for the Beach Cities EWMP – Critical to meet the SMBBB TMDL at SMB-6-1.



Project Location & Background

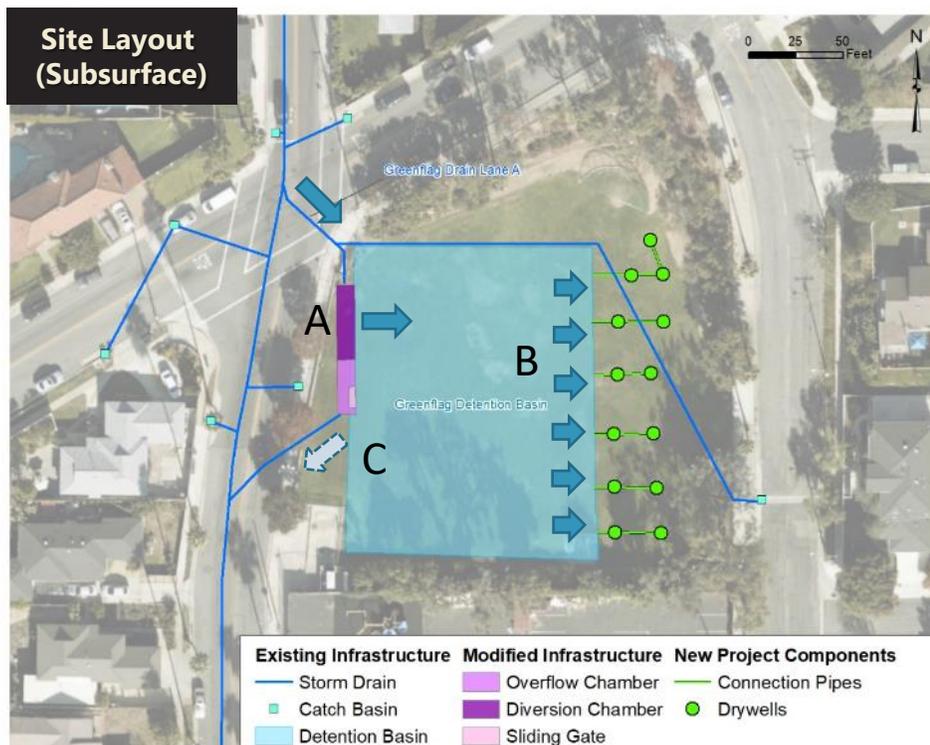


• Capture Area by Municipality

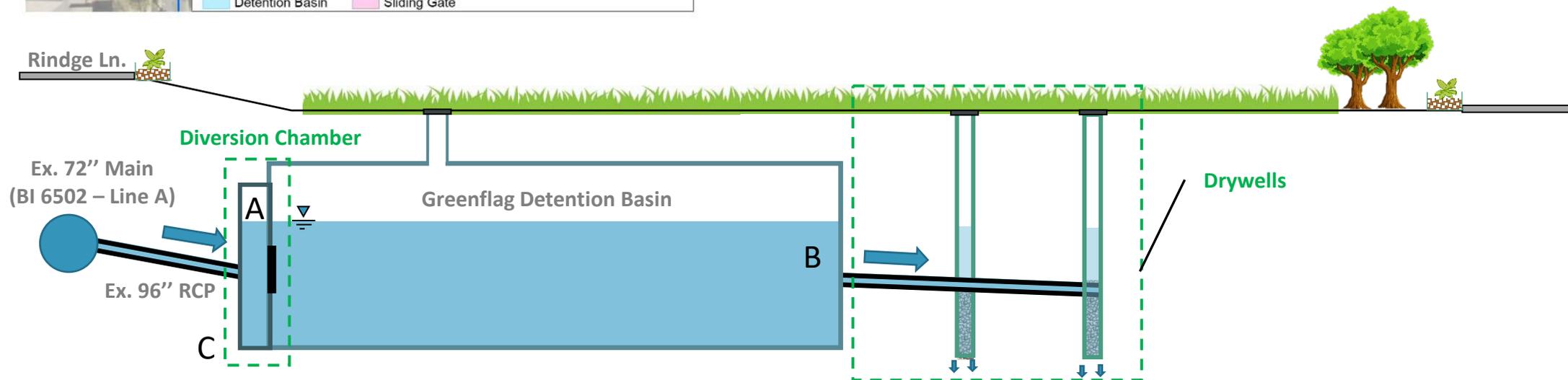
Redondo Beach (ac)	439.4
Manhattan Beach (ac)	25.1



Project Details



- A. Diversion Chamber - existing diversion chamber will be modified to direct stormwater flow into the existing Greenflag Detention Basin.
- B. Drywells - captured stormwater is routed to approximately 13 drywells for infiltration.
- C. Bypass - during extreme storm events, excess stormwater will bypass the basin and continue downstream via the existing storm drain.



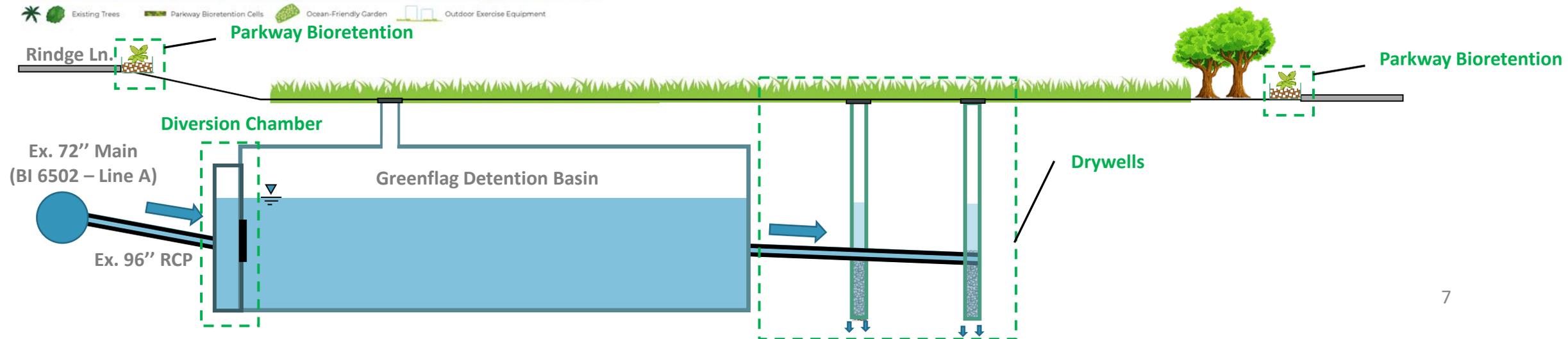


Project Details (Cont.)



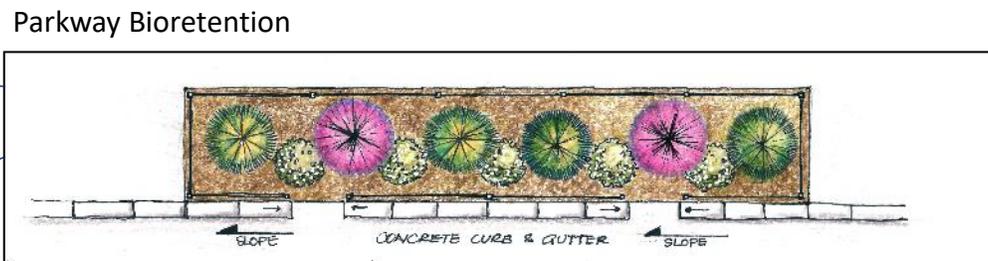
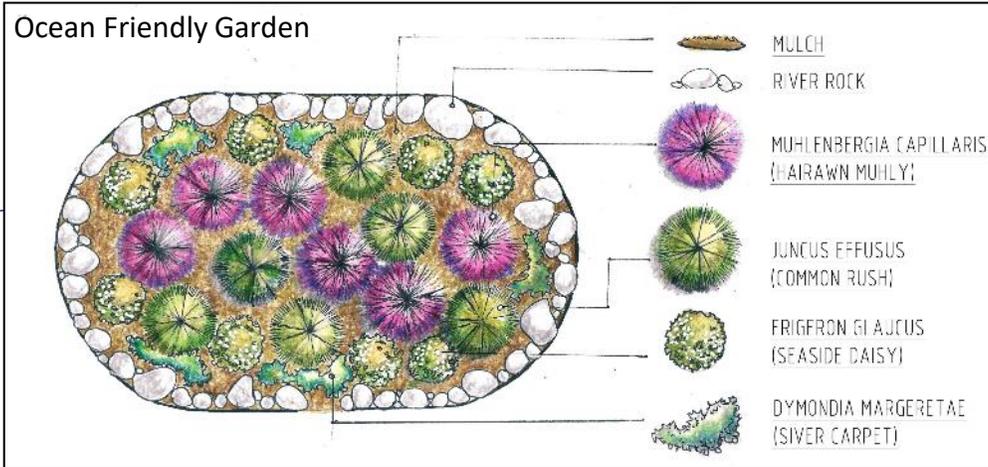
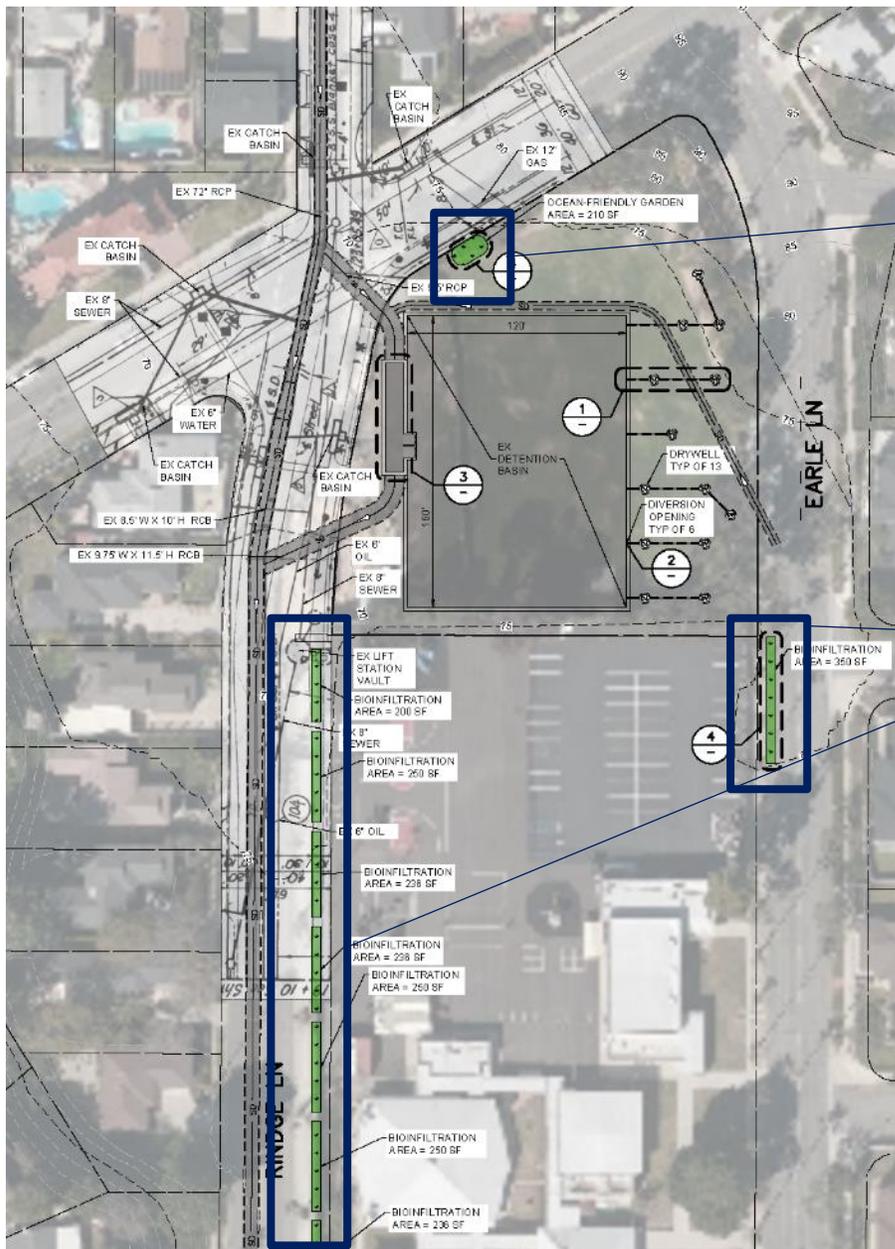
Existing Trees Parkway Bioretention Cells Ocean-Friendly Garden Outdoor Exercise Equipment

- D. Additional Greening - parkway bioretention and ocean friendly gardens will intercept and treat additional surface runoff.
- E. Recreational Enhancements - Redondo Beach will install recreational equipment such as outdoor exercise and playground equipment based on community input.





Project Details (Cont.)



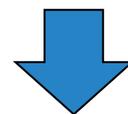
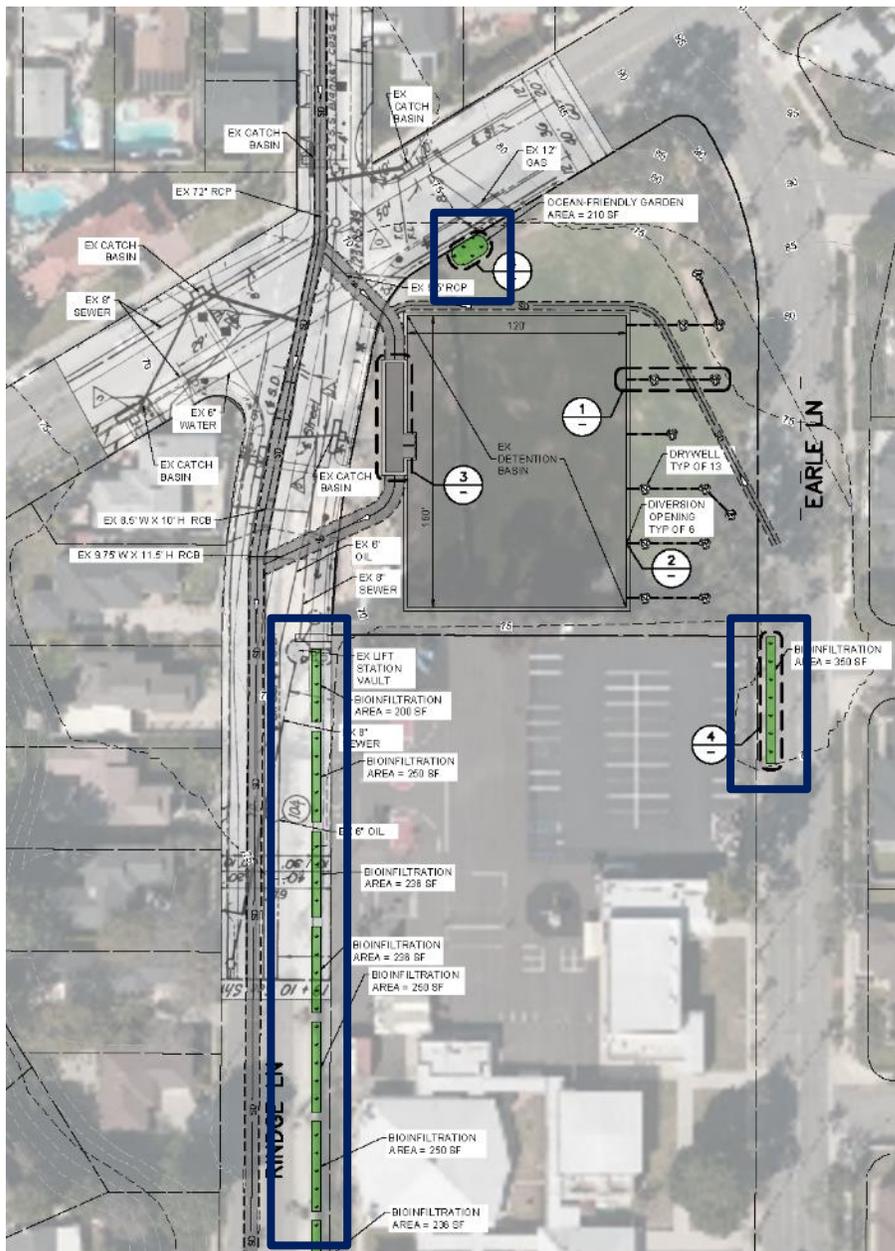
Approximately **50 rain garden appropriate plants** suitable for LA Climate Zone 3 will be planted at the parkway bioretention cells and ocean friendly garden.

Educational plaque and information board will also be installed for outreach opportunities.

Hairwan Muhly	Common Rush	Seaside Daisy	Silver Carpet



Project Details (Cont.)



Parkway bioretention cells are proposed to capture and treat surface stormwater runoff along the public right-of-way. A total of **1,800 sq-ft** of impervious surface will be removed and replaced with vegetated cover.



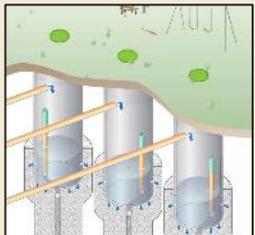
Key Benefit Summary



Water Quality	13+ ac-ft 24-hour management capacity
	75% wet weather bacteria load removal
	100% trash capture removal
	Updated Beach Cities EWMP Project

Auxiliary Water Supply	80 Acre-Feet/ Year Captured and infiltrated into deep ground to contribute to seawater intrusion mitigation	 <p>injection well pressure gradient forms barrier</p>
	Figure credit: USGS	

Community Investment	 <p>Existing → Proposed</p>	<ul style="list-style-type: none"> ✓ Flood Management ✓ Park Enhancement ✓ Recreational and Education Opportunities ✓ <i>Greening of School</i> ✓ Heat Island Effect Reduction ✓ Vegetation Increase
-----------------------------	--	--

Nature-based Solutions	 <p>✓ Mimic natural process</p>	 <p>✓ Imper. surface removal</p>	 <p>✓ Native vegetation</p>
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Cost & Schedule



Phase	Description	Cost Estimate	Completion Date
Planning	Planning includes early concept design, site investigations, and CEQA and other environmental impact studies and permitting	\$93,000	12/2022
Design	Design includes pre-project monitoring, site investigations, formal project design, intermediate and final project completion audits.	\$369,000	12/2023
Construction & Monitoring	Construction cost includes the cost of labor, equipment, material, plus overhead and contingencies. In addition, it includes the present value of 2-years post-construction monitoring.	\$3,504,000	12/2025
TOTAL		\$3,966,000	
Annual Cost Item	Description	Cost (\$/Year)	
Annual Inspection and Maintenance	Material, labor, equipment and waste disposal associated with inspecting and repairing drywells, diversion chamber and parkway bioretention units	\$35,000	
TOTAL 30-YEAR LIFECYCLE COST		\$4,620,000	



Funding Request



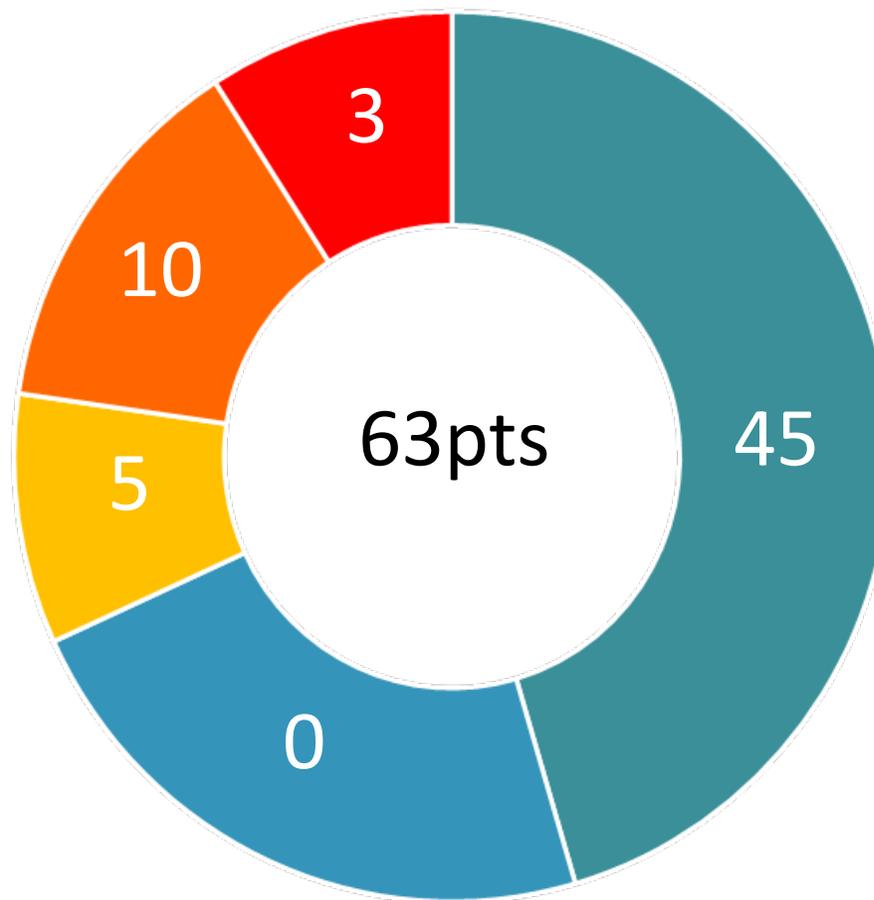
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$93,000	Planning	Early concept design, site investigations, and CEQA and other environmental impact studies and permitting
2	\$369,000	Design	Pre-project monitoring, site investigations, formal project design, intermediate and final project completion audits.
	\$1,704,000	Construction	Project construction will begin in Year 2
3	\$1,683,000	Construction	Project construction will complete during Year 3
4	\$17,500	O&M	Material, labor, equipment and waste disposal associated with inspection and repair.
	\$33,000	Monitoring	Wet weather project monitoring.
5	\$17,500	O&M	Material, labor, equipment and waste disposal associated with inspection and repair.
	\$33,000	Monitoring	Wet weather project monitoring.
5+	\$346,200	O&M	Project O&M from Year 6 to Year 30.
TOTAL	\$4,292,200		

Leveraged Funding amount: \$436,000 (9% of project capital cost) to be matched by City of Redondo Beach to cover the non-stormwater project component and 50% of the project O&M.



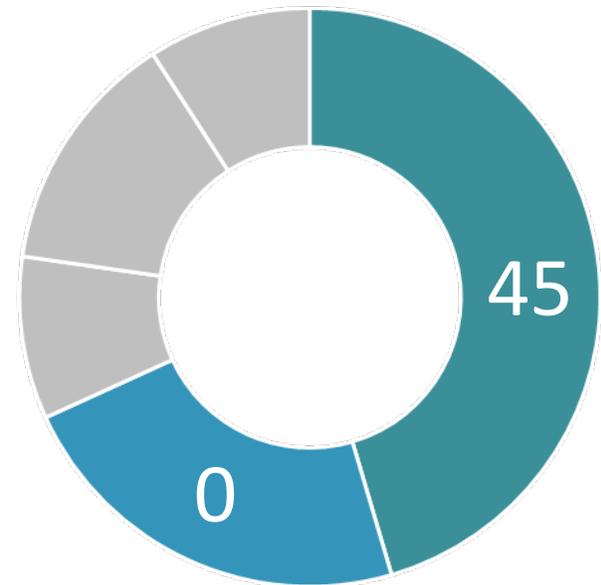
Preliminary Score

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





Water Quality & Water Supply Benefits



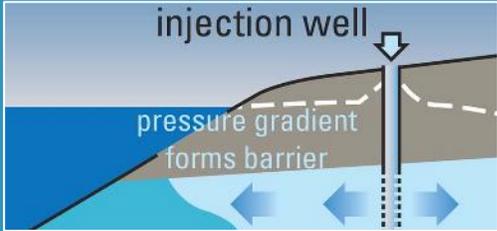
Water Quality	<p>13+ ac-ft 24-hour management capacity</p> <p>75% wet weather bacteria load removal</p> <p>100% trash capture project</p> <p>Updated Beach Cities EWMP Project</p>
Auxiliary Water Supply	<p>80 Acre-Feet/ Year Captured and infiltrated into deep ground to contribute to seawater intrusion mitigation</p>  <p>The diagram shows a cross-section of the ground with an injection well on the right. A dashed line represents the pressure gradient, which forms a barrier against seawater intrusion from the left. Arrows indicate the flow of water from the well into the ground.</p>

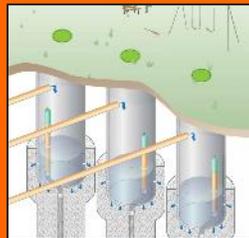
Figure credit: USGS



Community Investment Benefits and Nature Based Solutions



Nature-based Solutions



✓ Mimic natural process



✓ Imper. surface removal



✓ Native vegetation

Community Investment

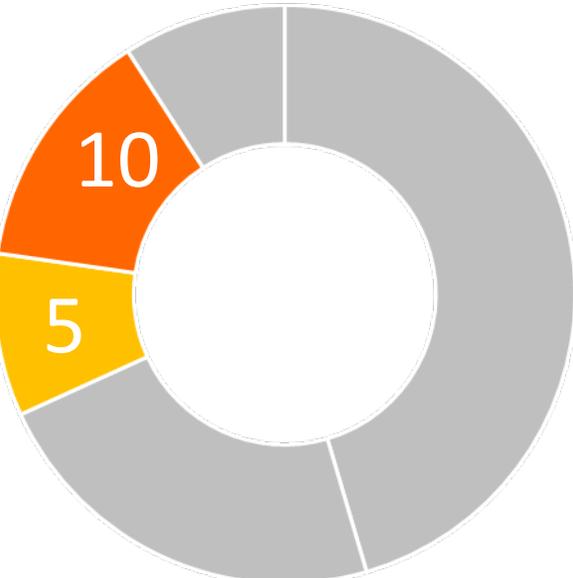


Existing



Proposed

- ✓ Flood Management
- ✓ Park Enhancement
- ✓ Recreational Opportunities
- ✓ *Greening School*
- ✓ Heat Island Effect Reduction
- ✓ Vegetation Increase

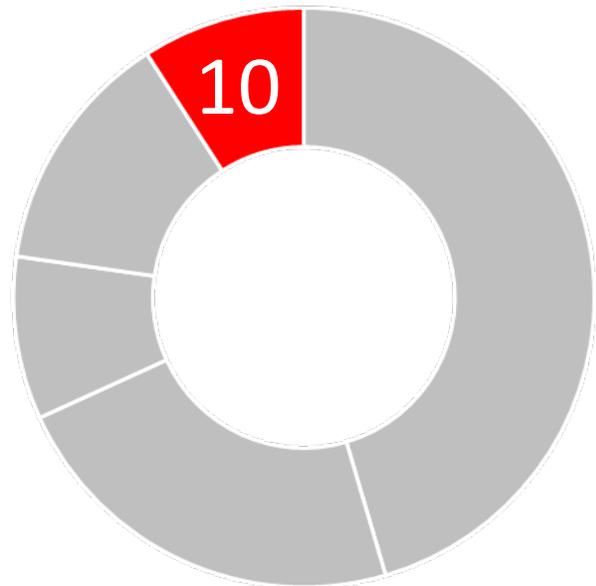


Approximately **50 rain garden appropriate plants** suitable for LA Climate Zone 3 will be planted at the proposed bioretention cells and ocean friendly garden.

Parkway bioretention cells will replace the existing impervious pavement. A total of **1,800 sq-ft** of impervious surface will be removed and replaced with vegetated cover



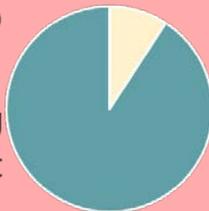
Leveraging Funds and Community Support



**Funds and
Community
Support**

91%

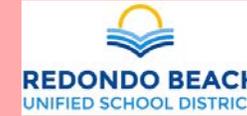
SCWP
Funding
Request



9%

Redondo
Beach
Funding

Community Support



- Leveraging Funds
 - City of Redondo will cover 50% of the O&M cost and 100% of the non-stormwater project component.
- Community Support
 - Received three letters of support
 - Redondo Council Member Christian Horvath
 - The Bay Foundation
 - Valor Christian Academy
 - Presented the project concept at city council meetings at Redondo Beach Unified School District Board meeting and received positive feedback.
- Collaboration with the Surfrider Foundation's Ocean Friendly Garden Program.





Questions?

Geraldine Trivedi, City of Redondo Beach

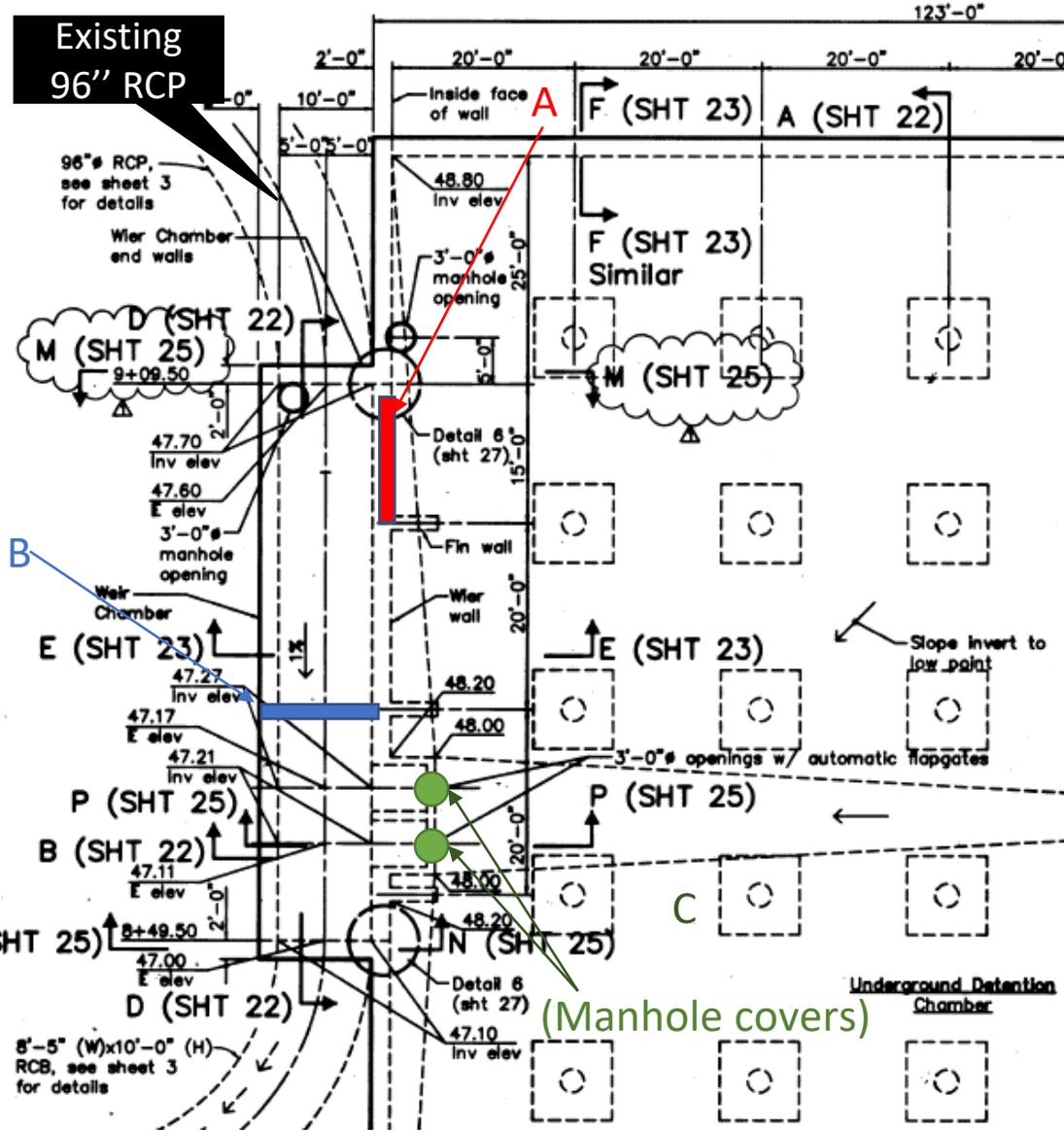
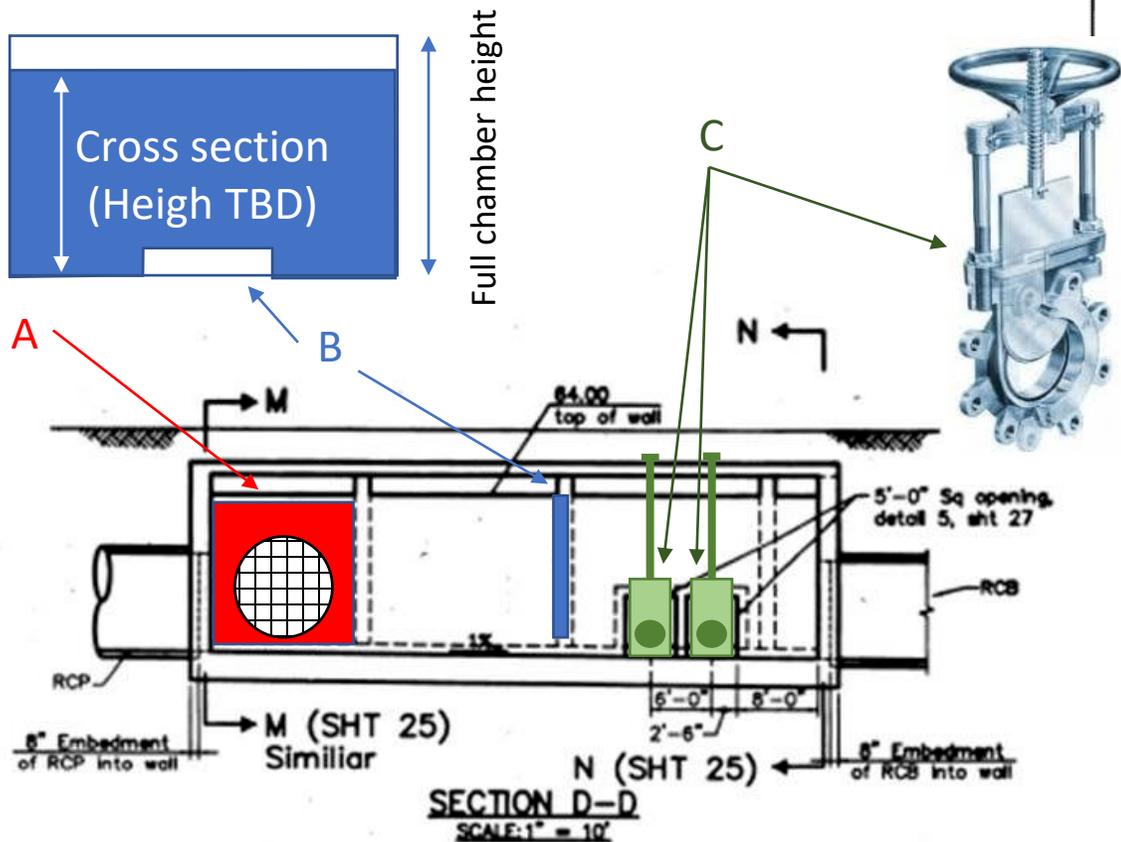
Geraldine.Trivedi@redondo.org



Additional Slides



Diversion Structure Modification



- A: Open a 96" inlet (or equivalent TBD based on structural design) on the existing concrete wall. Install screen bars.
- B: Build a weir wall with a low flow bypass orifice.
- C: Replace the two existing flap gates with sliding gate valves.
- D: Build two concrete walls in the basin to form a sedimentation forebay. Wall height TBD.



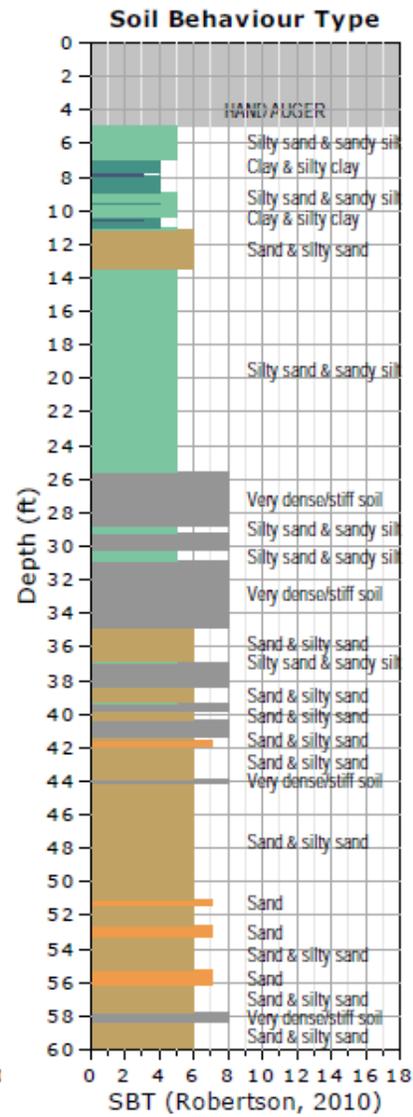
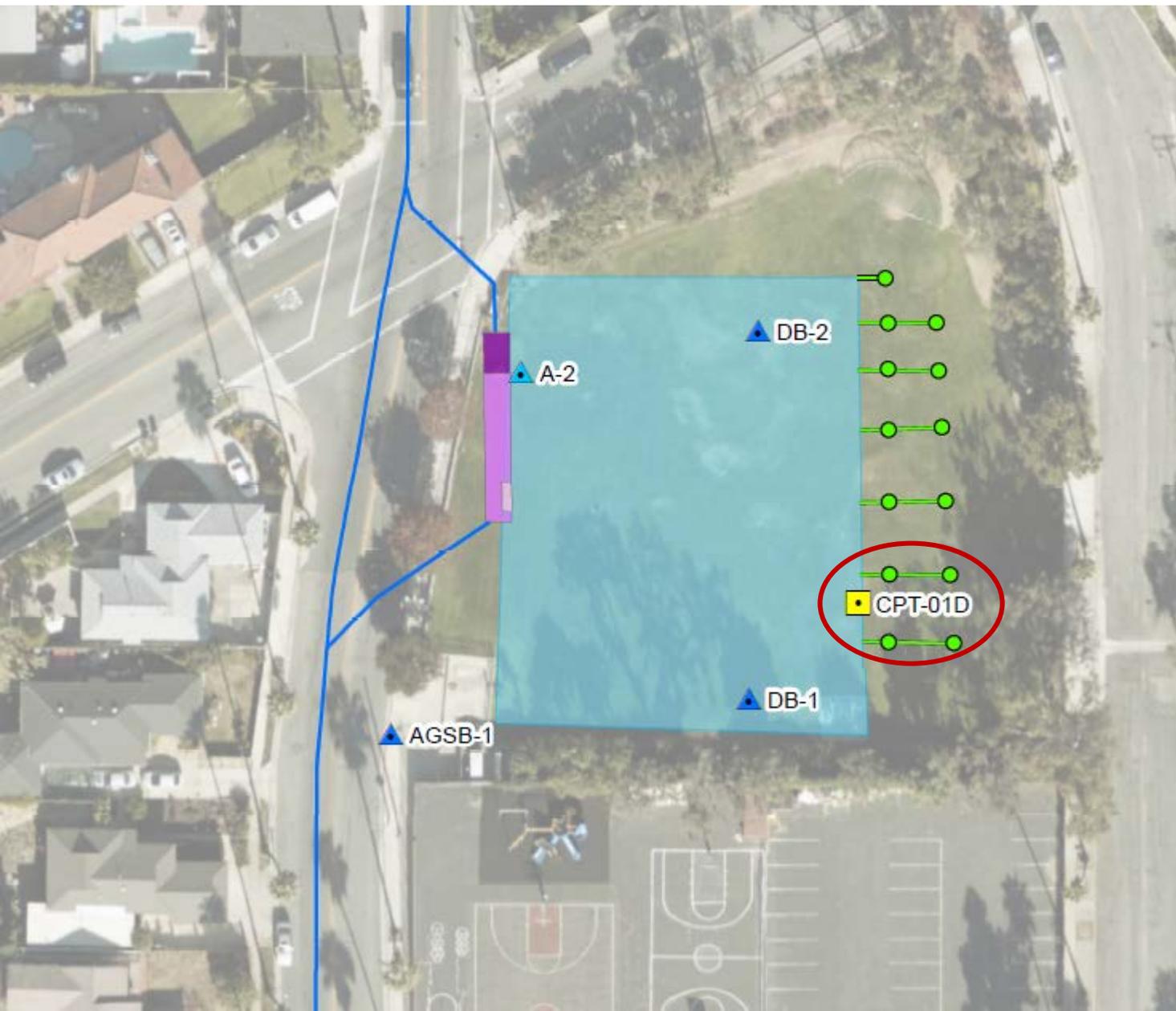
Geotechnical Investigation



CPT: CPT-01D

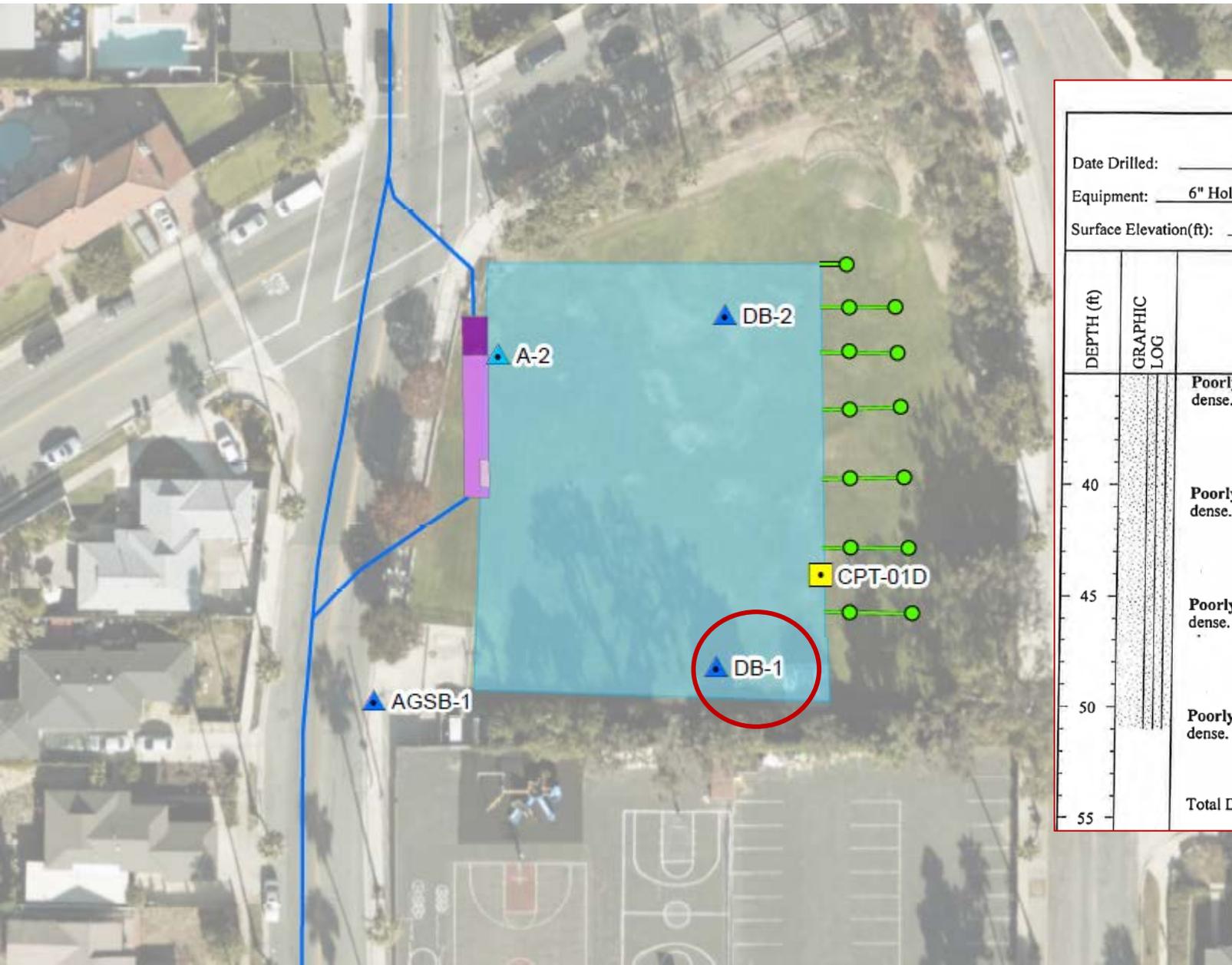
FIELD REP: REHAN

Total depth: 60.04 ft, Date: 5/13/2021





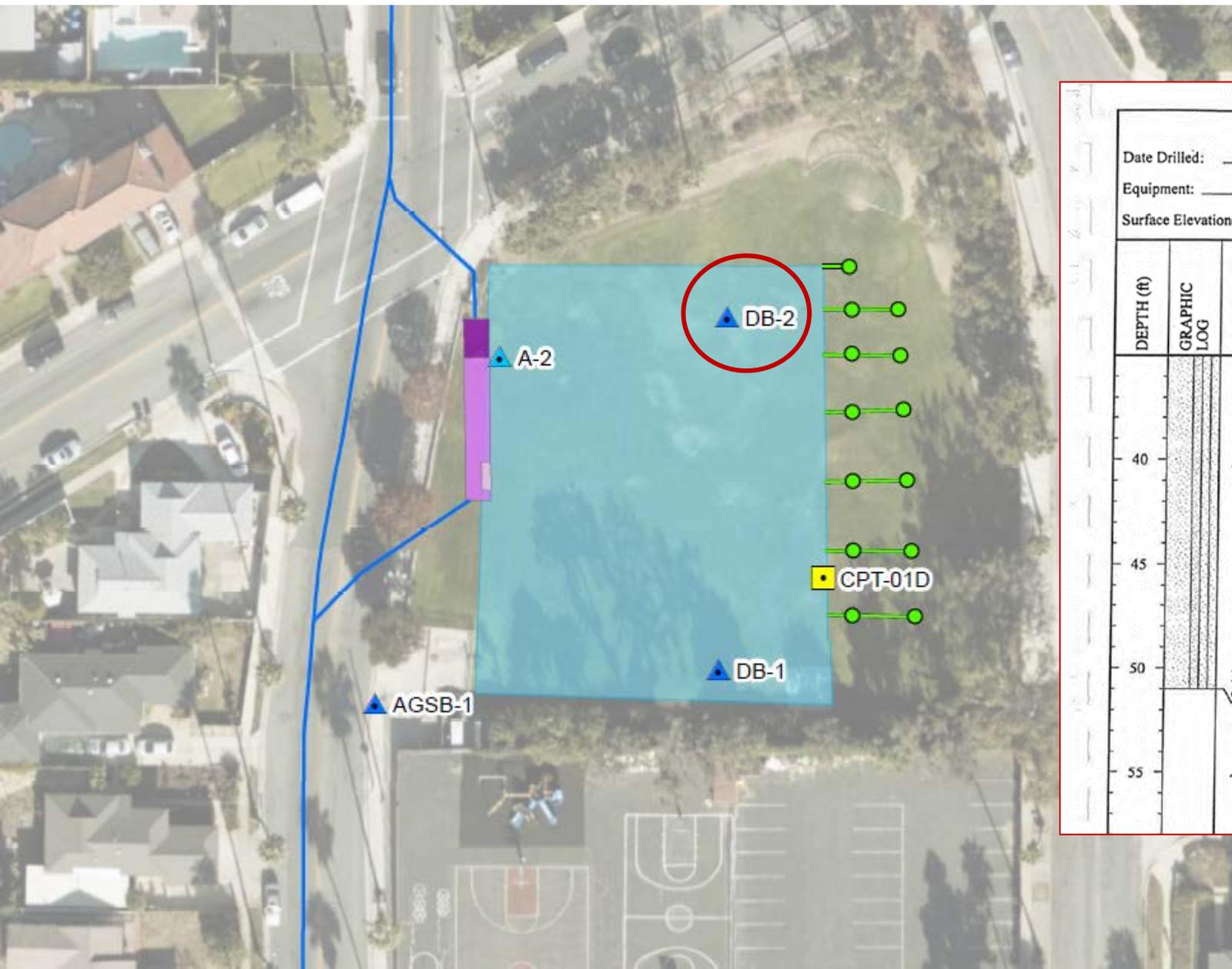
Geotechnical Investigation



LOG OF BORING NO. DB-1								
Date Drilled: 12/6/99		Logged by: JM		Project Manager: JM				
Equipment: 6" Hollow-Stem Auger		Driving Weight and Drop: 140 LB/ 30"						
Surface Elevation(ft): 69.0		Depth to Water(ft): Not Encountered						
DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		MOISTURE (%)	DRY UNIT WT. (pcf)	LABORATORY TESTS
		DRIVE	BULK	BLOWS/FOOT				
0 - 38	[Stippled pattern]	Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense. Interbedded with sandy silt.	X		50/5"	6.1	93.4
38 - 42	[Stippled pattern]	Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense. Interbedded with sandy silt.	X		50/4"	9.0	79.9
42 - 48	[Stippled pattern]	Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense. Interbedded with sandy silt.	X		50/5"	10.6	96.0
48 - 51	[Stippled pattern]	Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense. Interbedded with sandy silt.	X		50/3"	9.4	91.2
Total Depth 51 Feet, No Water, Bottom of hole caved to 42 Feet.								



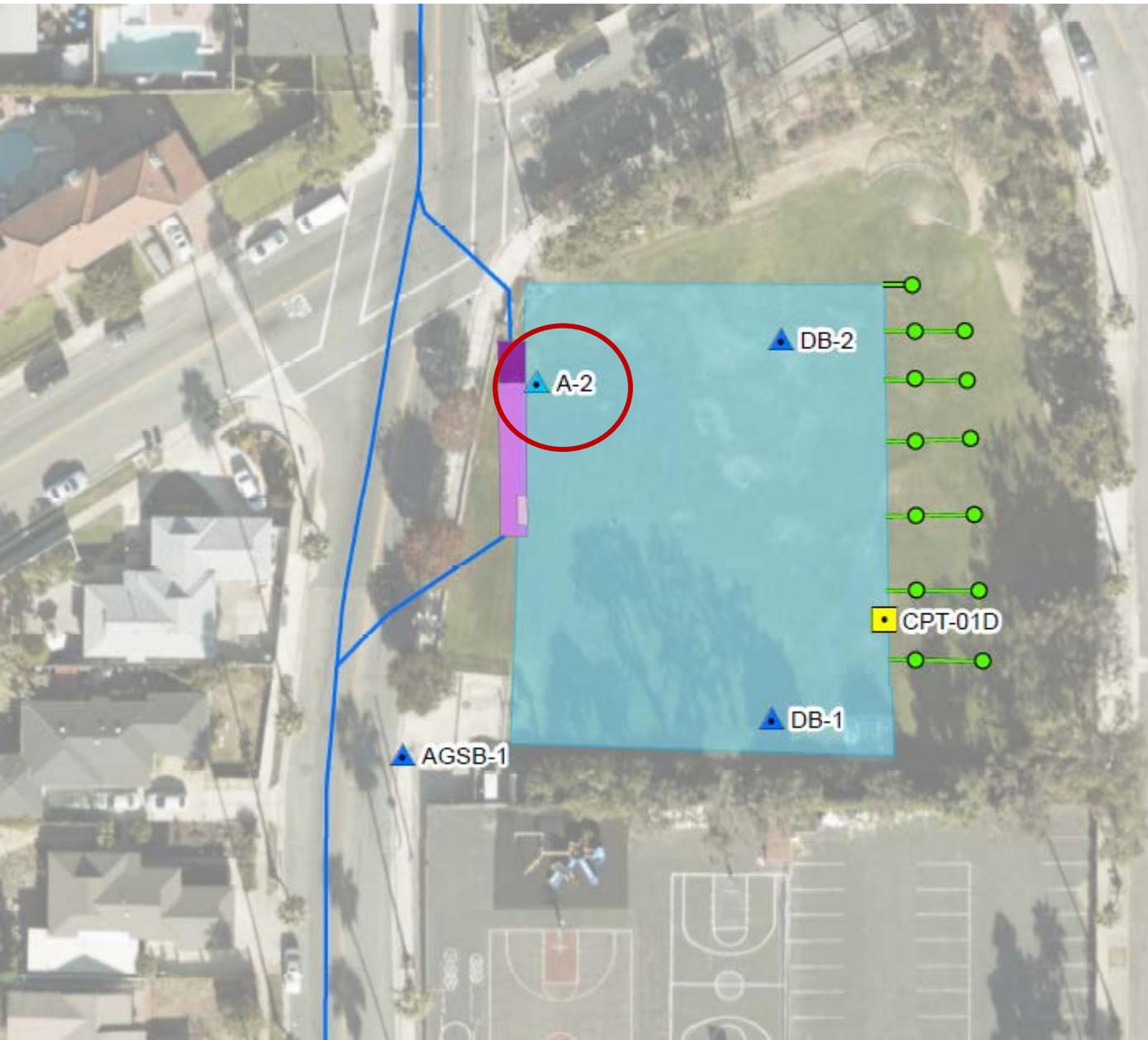
Geotechnical Investigation



LOG OF BORING NO. DB-2									
Date Drilled: 12/6/99		Logged by: JM		Project Manager: JM					
Equipment: 6" Hollow-Stem Auger		Driving Weight and Drop: 140 LB/ 30"							
Surface Elevation(ft): 71.0		Depth to Water(ft): Not Encountered							
DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY UNIT WT. (pcf)	LABORATORY TESTS
		DRIVE	BULK	DRIVE	BULK				
0		Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense.	X		50/4"	7.2	97.1	
40		Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense.	X		50/3"	7.1	86.6	
45		Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense.	X		50/3"	10.2	85.0	
50		Poorly Graded Sand with Silt (SP-SM)	Red brown, moist, very dense.	X		50/5.5"	10.2	93.1	
55		Total Depth 51 Feet, No Water, Bottom of hole caved to 42 Feet.							



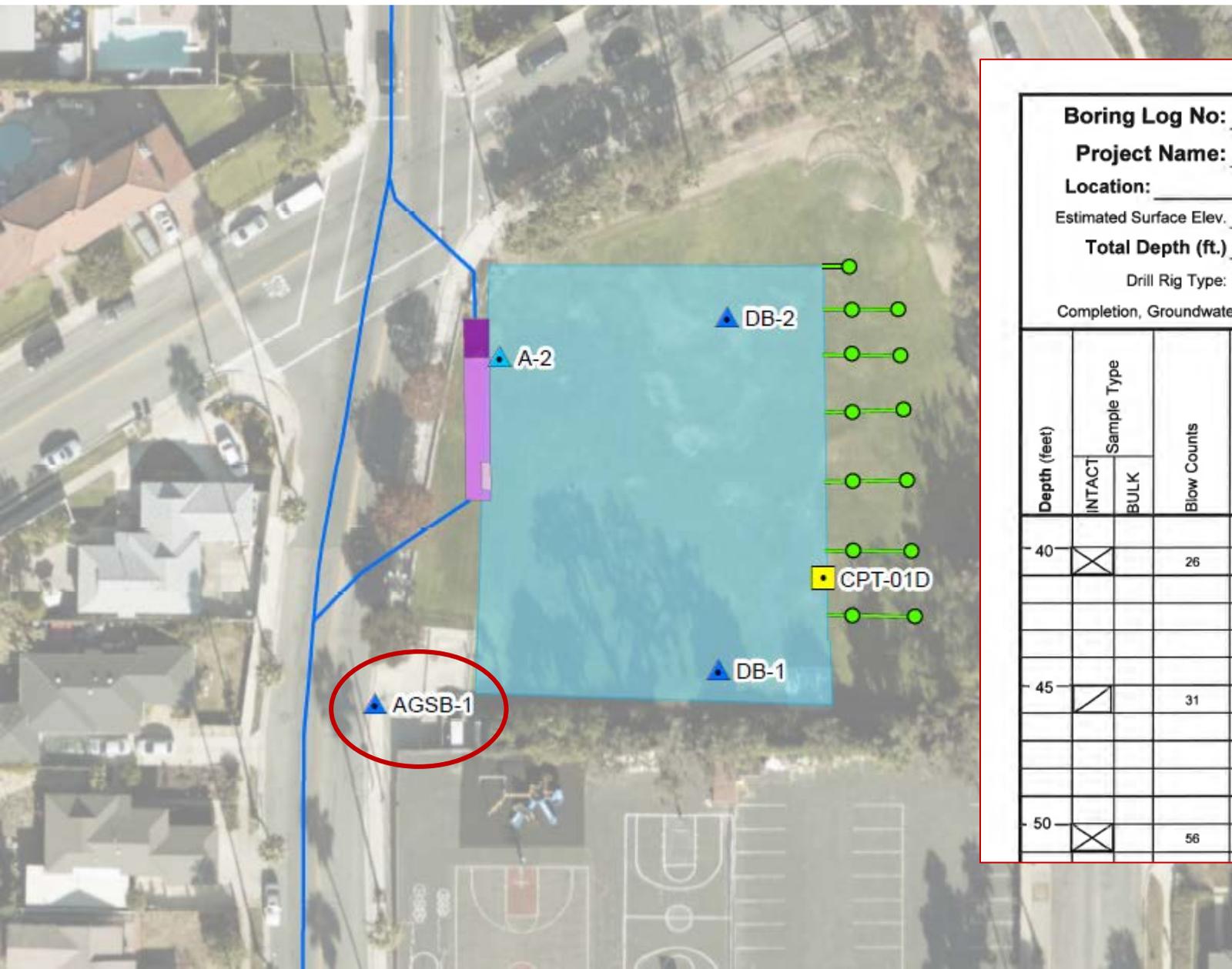
Geotechnical Investigation



LOG OF BORING NO. A-2								
Date Drilled: 12/6/99		Logged by: JM		Project Manager: JM				
Equipment: 6" Hollow-Stem Auger		Driving Weight and Drop: 140 LB/ 30"						
Surface Elevation(ft): 67.0		Depth to Water(ft): Not Encountered						
DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY UNIT WT. (pcf)	LABORATORY TESTS
			DRIVE	BULK				
		GRASS/TOPSOIL (~1 foot)						
		Artificial Fill						
		Silty Sand (SM) Red Brown, moist, loose. Interbedded with sandy silt layers						
5		ALLUVIUM			8	3.1	105.9	
		Silty Sand (SM) Red Brown, slightly moist, loose. Interbedded with sandy silt layers						
10		Silty Sand (SM) Red Brown, moist, medium dense.			20	10	109.6	
15		Silty Sand (SM) Red brown, moist, medium dense.			24	11.5	86.5	
20		Invert Depth						
		Silty Sand (SM) Light Brown, moist, very dense			>80	9.4	84.6	
25		Silty Sand (SM) Light Brown, moist, very dense.			>80	8.4	89.1	
30		Silty Sand (SM) Light Brown, moist, very dense.			66	10.0	85.0	



Geotechnical Investigation



FIELD BORING LOG

Boring Log No: AGSB-1 FN: 5697-01

Project Name: City of Redondo Beach Sheet: 3 of 3

Location: Rindge Lane Start: 1/26/2017

Estimated Surface Elev. 80 +/- feet End: 1/26/2017

Total Depth (ft.) 51 +/- feet Initials: JP

Drill Rig Type: (hammer, drop, etc.) CME 75 - 140lb. Hammer - 30" drop

Completion, Groundwater, etc. No groundwater

Depth (feet)	Sample Type		Blow Counts	Dry Unit Wt (PCF)	Moisture Content (%)	Laboratory Tests	Field Description	
	INTACT	BULK					USCS Symbol	Graphic Log
							Surface Condition: Asphalt Concrete	
							Subsurface Conditions: FORMATION; Color, Classification, Moisture content, density/stiffness, etc.	
40	X		26				SM	
45	/		31	93.1	10			
50	X		56					