

Safe, Clean Water Program

South Santa Monica Bay

Watershed Area Steering Committee (WASC)



Meeting Minutes:

Wednesday, January 22, 2020
1:00pm - 3:00pm
Edward C. Little Water Recycling Facility,
1935 S. Hughes Way, El Segundo, CA 90245

Attendees

Committee Members Present:

Cung Nguyen (LA County Flood Control District)	John Dettle (Torrance)
Kristen Ruffell (Sanitation Districts)	Susie Santilena (LA)
Craig Cadwallader (Surfrider Foundation South Bay)	TJ Moon * (LA County)
Diane Gatza (Water Replenishment District)	Ken Rukavina (Palos Verdes Estates)
E.J. Caldwell (West Basin)	Wendy Butts (LA Conservation Corps)
Guang Yu Wang (SMB Restoration Commission)	Darryl Ford* (Los Angeles Rec & Park)
Hany Fangary (Fangary Law Group)	Stephanie Katsouleas (Manhattan Beach)
Heecheol Kwon (Hawthorne)	

Committee Members Not Present:

Alison Suffet-Diaz (Environmental Charter School)
Julio Gonzalez (Carson)

*Committee Member Alternate

See attached sign-in sheet for full list of attendees

1. Welcome and Introductions

Diane Gatza, the Chair of the South Santa Monica Bay WASC, called the meeting to order.

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

2. Approval of Meeting Minutes from January 8, 2020

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

Kristen Ruffell noted that there is a correction needed for item 3.b. This edit has been shown stricken from the record.

Kristen Ruffell made a motion to approve the meeting minutes from January 8, 2020. Cung Nguyen seconded the motion. The Committee voted to approve the meeting minutes from January 8, 2020 (unanimous).

3. Committee Member and District Updates

a) Regional Watershed Coordinator Updates

Kirk Allen provided an update on the Watershed Coordinator Solicitation Process, and District Consultant Stantec provided an update for the Safe Clean Water District mapping tool.

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b) Scoring Committee Update

Kirk Allen provided an update on the Scoring Committee (SC) and their progress.

TJ Moon clarified that the SC is allowing applicants to claim future water supply benefit based on future planned infrastructure that has not yet been constructed.

Diane Gatza inquired how projects are being selected for the SC. Kirk Allen noted that two projects per watershed are being scored at the next SC Meeting.

c) Follow-up discussion from previous meeting

Susie Santilena noted she is having difficulty downloading the project pdfs from the website. Kirk Allen noted that there may be an issue with the firewall and users may need to switch to a different computer system to access the site.

d) Public Comment Period

No public comments received

Guang Wang noted that it was unclear why there are two public comment items on the Agenda. Hany Fangary noted he is in favor of more public input as time allows and in favor of keeping the two items in the meeting agenda

4. Discussion Items:

a) Ex Parte Communication Disclosures

Kirk Allen announced that the Ex Parte Guidelines and COI Q&A are now available.

Susie Santilena noted that there is now an internal working group within the City of LA that is developing new projects and concepts for future applications for the Infrastructure Program.

Darryl Ford noted that he is present at the same meeting noted above.

b) Presentation – Torrance Airport Stormwater Basin Project (City of Torrance)

Susie Santilena inquired if and how Torrance is planning to request the remaining \$8M. John Dettle noted that they are planning to come back to the WASC for a funding request once design is finalized.

Kristen Ruffell inquired how this project can be constructed for lower than normal cost estimates, when other similar projects are normally much more expensive. John Dettle noted that the cost estimates were prepared by their consultant.

Cung Nguyen inquired if community benefit was considered. John Dettle noted that project is aimed at improving water quality downstream for Harbor Park, which is where the benefit would come for the community. The direct site is located at an Airport which is not accessible to the public.

Diane Gatza inquired about the permit from FAA, noting that it's very difficult and a lengthy process to get a permit from the FAA. John Dettle noted that Torrance has already worked to get

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permits from the airport already, so the team is already familiar with the process for getting the FAA permit.

Diane Gatza inquired about ongoing maintenance and how access would work post construction at the airport. John Dettle noted that crew access to the site would not be a major concern, and all infrastructure will be below ground or very low to the ground.

Diane Gatza inquired about the budget and if municipal funds were already budgeted for the project. John Dettle noted that yes, funds are already budgeted at the city to pay for the design of the project.

c) Presentation – Alondra Park Multi Benefit Stormwater Capture Project (LA County)

Susie Santilena inquired about Native Plants, and what technology was being used for pretreatment. Mercedes Passanisi noted that the project is looking at pretreatment boxes, as well as baffle boxes and cartridge filters and included a number of native plant solutions for the above ground improvements.

Stephanie inquired if water supply reuse for the project was considered. Mercedes Passanisi noted that reuse was investigated, but the owners of the site did not want to look at recycled water for their site. It was more beneficial to send the water to the sewer line for regional reuse

Guang Wang inquired about the capacity of the site and how the water supply benefit would be realized. Mercedes Passanisi noted that the 133AFY may appear small for the project footprint, but the project currently relies on existing infrastructure that is very small and can only handle flows at night. To increase supply, it would have raised the cost of the project significant.

Ken Rukavina inquired about the groundwater aquifer usability, and if the project designers looked at injection into the aquifer. Mercedes Passanisi noted that the boring went to 100 ft and the soil was still not conducive to infiltration at that depth.

Craig inquired where the polluted soils would be delivered. Mercedes Passanisi and TJ Moon noted that these would be sent to drying yards and landfills.

Diane Gatza inquired who owned the Park. Mercedes Passanisi noted that County owns the park.

Diane Gatza inquired if the 133AFY would go to the sewer. Mercedes Passanisi confirmed, yes, it is sent to the sewer for potential regional recycled water reuse.

Diane Gatza inquired how funds for the project are being phased. Mercedes Passanisi noted that the funding requests are phased throughout multiple years.

Diane Gatza noted that there are a large number of partners for the project, inquiring if Public Works has worked with all of these partners. Mercedes Passanisi noted that all project partners have been contacted for collaboration on the project. Public Works would still move forward with the project even without these partners, but the project would be scaled back.

Kristen Ruffel inquired how the District is planning to handle multi-year funding agreements. Kirk Allen clarified that amendments would need to be made annually if multi-year funding was earmarked in future years.

Stephanie Katsouleas noted that the committee should be looking at the full project costs to ensure that project funds are available if there are large cost changes to the project over time.

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Ken Rukavina inquired that if partners pull out, would the project only look at addressing the County's water quality obligation. Mercedes Passanisi noted that yes, if project partners pull out the County would only be able to fund a smaller scale project to address County's water quality obligation.

Cung Nguyen and Kristen Ruffell inquired if a current sitting WASCs can pre-designate multiple years' worth of funding now or encumber those funds now for a future WASC in future years. Kirk Allen clarified that the WASC is only programming the budget for one year and only an estimate fund amount for the remaining years. Kristen Ruffell noted that it may be a challenge if a project is supported this year but a future WASC does not want that project. Matthew Frary clarified that this is a single year budgeted item for the County Board of Supervisors, so we are only able to program a single year of funding, but the WASC can still develop a plan to earmark projected future year funding, but it would still not be a guaranteed amount for future years.

The committee further discussed total funding estimates and programming for multi-year projects. To be considered by the WASC at a later date are what level of contingency should be programmed for the first as well as future SIP years.

Kristen Ruffell inquired how DAC return would be quantified for a project. Kirk Allen clarified that the DAC benefit would be a judgement call by the WASC, and that if the committee determined the project to have DAC benefit, the full project cost would then contribute towards the 110% calculation. Matthew Frary noted that the project applicants have provided a description for how their projects benefit a DAC, but it will still be up to the WASCs to evaluate if that description is accurate.

5. Public Comment Period

A member of the public asked for clarification on what meeting will be discussing development of the SIP. Diane Gatza noted that those meetings will be helped following the last presentation meetings this February.

John Dettle and Stephanie Katsouleas inquired what will happen for projects that go over their budget allocation. Kirk Allen noted that it would be up to the WASC to determine what the contingency would be to accommodate those over-budget projects, and that this is why it is required that WASC SIPs only program a portion of year 1 funding and earmark an even smaller portion of future years funding.

6. Voting Items:

None

7. Items for next agenda

- a) Presentations (see bulleted list at the bottom of agenda)

Diane Gatza inquired if County could explore a mechanism to allow overbudget projects to request additional funding without having to go back to the Board for another board hearing. Kirk Allen noted that it is up to the WASC to review quarterly progress reports on each of the projects approved by the committee, and that they will be the first to know when a project is going over budget.

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John Dettle inquired when the applications will be re-opened for adjustments to scoring. Kirk Allen noted that the District is planning to re-open these projects for applicants to adjust their applications after the District has reached out to the project applicants.

Wendy Butts inquired if a 5-year projection can be added to the module so the Committee can estimate the multi-year funding stream of projects. Kirk Allen noted that a supplemental form was distributed to each project applicant to collect this funding phasing data.

Susie Santilena requested a District update on the Transfer agreement and on the hiring of Watershed Coordinators.

Diane Gatza requested a shorter time period for TRP presenters. John Dettle supported this decision. It was agreed that 15 minutes for Infrastructure Projects and 10 minutes for TRP applicants.

8. Adjournment

Diane Gatza thanked the committee members and public for their time and participation and adjourned the meeting.

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



Member Name	Municipality/ Organization	Email Address		Signature
Cung Nguyen	FCD	CUNGUYEN@dpw.lacounty.gov	P	
Carolina Hernandez	FCD	CHERNANDEZ@dpw.lacounty.gov	A	
Diane Gatza	Water Replenishment District	dgatza@ wrd.org	P	DB
Lyndsey Bloxom	Water Replenishment District	lbloxom@ wrd.org	A	
Cathie Santo Domingo	Los Angeles Recreation & Parks	cathie.santodomingo@lacity.org	P	
Darryl Ford	Los Angeles Recreation & Parks	Darryl.Ford@lacity.org	A	
Kristen Ruffell	Sanitation Districts	kruffell@lacsd.org	P	
Mike Sullivan	Sanitation Districts	msullivan@lacsd.org	A	
E.J. Caldwell	West Basin	edwardc@westbasin.org	P	
Alex Heide	West Basin	alexanderh@westbasin.org	A	
Alison Suffet-Diaz	Environmental Charter School	alison@ecsonline.org	P	
Craig Cadwallader	Surfrider Foundation South Bay Chapter	craigc@surfrider-southbay.org	P	
Mary Simun	Surfrider Foundation South Bay Chapter	entamoebatrex@hotmail.com	A	
Hany Fangary	Fangary Law Group	hany@fangarylawn.com	P	
Justin Massey			A	

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



Member Name	Municipality/ Organization	Email Address		Signature
Wendy Butts	Los Angeles Conservation Corps	wbutts@lacorps.org	P	<i>Wendy A. Butts</i>
Bo Savage	Los Angeles Conservation Corps	bsavage@lacorps.org	A	
Guang Yu Wang	Santa Monica Bay Restoration Commission	Guangyu.wang@waterboards.ca.gov	P	<i>Guang Yu Wang</i>
Julio Gonzalez	Carson	JGonzalez@carson.ca.us	P	
Maria E. Williams-Slaughter	Carson	MSlaughter@Carson.ca.us	A	
Susie Santilena	Los Angeles	susie.santilena@lacity.org	P	<i>Susie Santilena</i>
Alfredo Magallanes	Los Angeles - Sanitation	alfredo.magallanes@lacity.org	A	
Paul Alva	Los Angeles County	PALVA@dpw.lacounty.gov	P	
Mark Lombos	Los Angeles County	MLOMBOS@dpw.lacounty.gov	A	
TJ Moon	Los Angeles County	TMOON@dpw.lacounty.gov	A	<i>TJ Moon</i>
John Dettle	Torrance	jdettle@torranceca.gov	P	<i>John Dettle</i>
Wilson Mendoza	Torrance	Wmendoza@TorranceCA.Gov	A	
Stephanie Katsouleas	EWMP: Beach Cities (Manhattan Beach)	skatsouleas@citymb.info	P	<i>Stephanie Katsouleas</i>
Shawn Igoe	EWMP: Beach Cities (Manhattan Beach)	sigoe@citymb.info	A	
Heecheol Kwon	EWMP: Dominguez (Hawthorne)	HKwon@cityofhawthorne.org	P	<i>Heecheol Kwon</i>

South Santa Monica Bay
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 COMMITTEE MEMBER AND ALTERNATE SIGN-IN



Member Name	Municipality/ Organization	Email Address		Signature
Akbar Farokhi	EWMP: Dominguez (Hawthorne)	AFarokhi@cityofhawthorne.org	A	
Lauren Amimoto	EWMP: Dominguez (Inglewood)	lamimoto@cityofinglewood.org	A	
Barmeshwar Rai	EWMP: Dominguez (Inglewood)	brai@cityofinglewood.org	A	
Ken Rukavina	EWMP: Peninsula (Palos Verdes Estates)	krukavina@pvestates.org	P	<i>Ken Rukavina</i>
Elias K. Sassoon	EWMP: Peninsula (Rancho Palos Verdes)	esassoon@rpvca.gov	A	

South Santa Monica Bay
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 PUBLIC SIGN-IN



First Name	Last Name	Municipality/Organization	Email Address
Tammy	Takigawa	CWE	Htakigawa@cwecorp.com
Jud	Warren	Weston Solutions	robert.warren@westonsolutions.com
Tori	Klug	Stantec	tori.klug@stantec.com
Mercedes	Passanisi	LA County	mypassanisi@dpw.lacounty.gov
Kathryn	Mik	City LA	kathryn.mik@lacity.org
Aaron	Chiang	LA County	achiang@dpw.lacounty.gov
Veronica	Seyde	WSP	Veronica.Seyde@wsp.com
Geraldine	Trivedi	Redondo Bch	geraldine.trivedi@redondo.org
Joy	Krauss	Hermosa Bch	JKRAUSS@HERMOSABEACH.GOV
Nancy	Shrodes	HTB	nshrodes@healthsbay.org
Susan	Robinson	McGowan	Susan@mcgowanconsulting.com
Jim	BURTON	ECOKAI	JBURTON@ECOKAI.COM
CHANDLER	SHEILDS	SBCCOG	chandler@southbaycities.org
Michelle	Kim	JLHA	mKim@JLHA.net
Deborah	Deets	LACITY/EASAN	deborah.deets@lacity.org

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

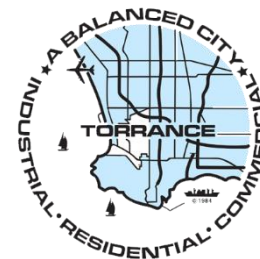
Torrance Airport Storm Water Basin Project, Phase 2

John Dettle, P.E.

City of Torrance

JDettle@TorranceCA.gov

(310) 618-3059



Torrance Airport Storm Water Basin Project, Phase 2

- Located at Torrance Municipal Airport.
- Identified in the City of Torrance's Machado Lake Enhanced Watershed Management Program (EWMP).
- Funding requested for Final Design and CEQA for Phase 2 of the Project.

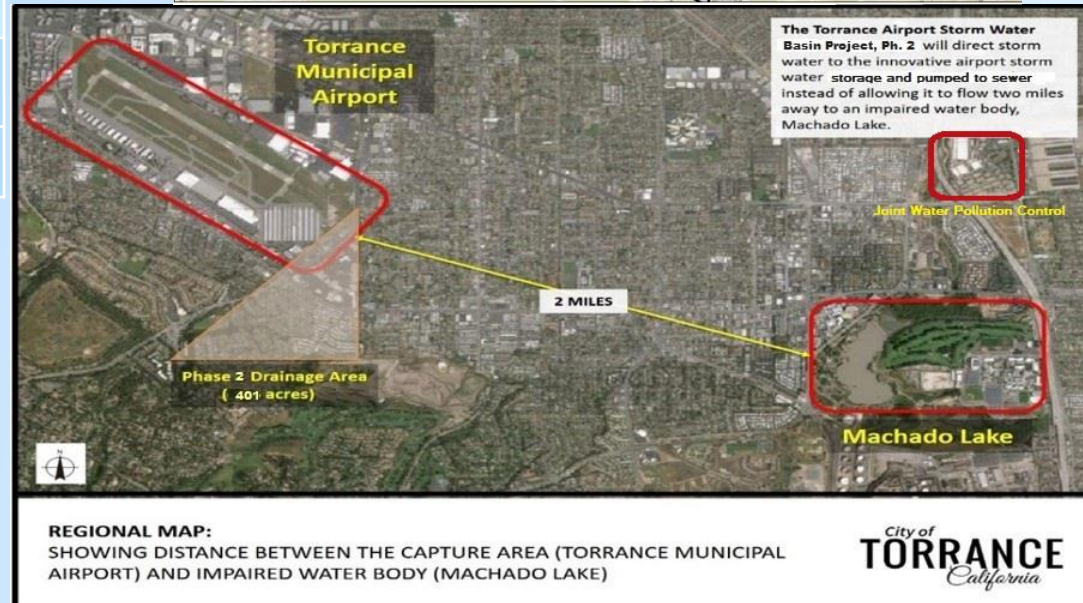
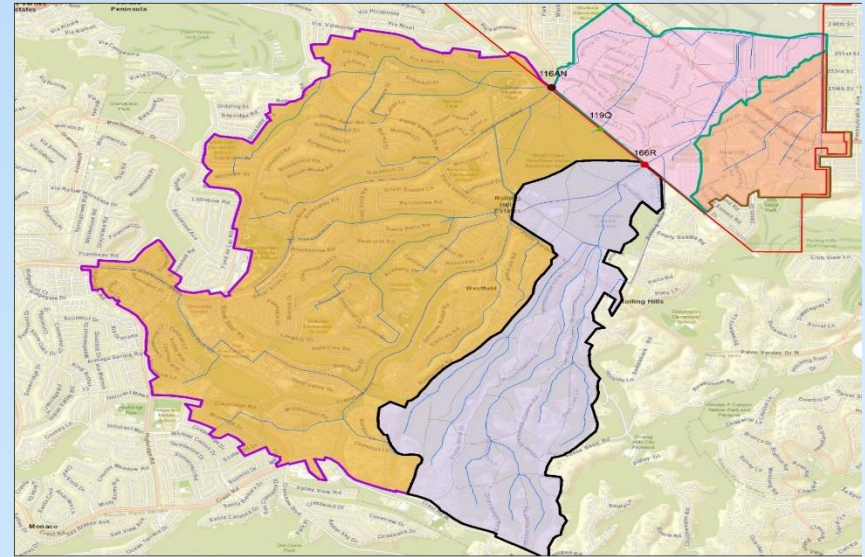


- The Project will divert, capture and treat urban storm water runoff up to 120 acre-feet per year and pumped to the Joint Water Pollution Control Plant in the City of Carson.



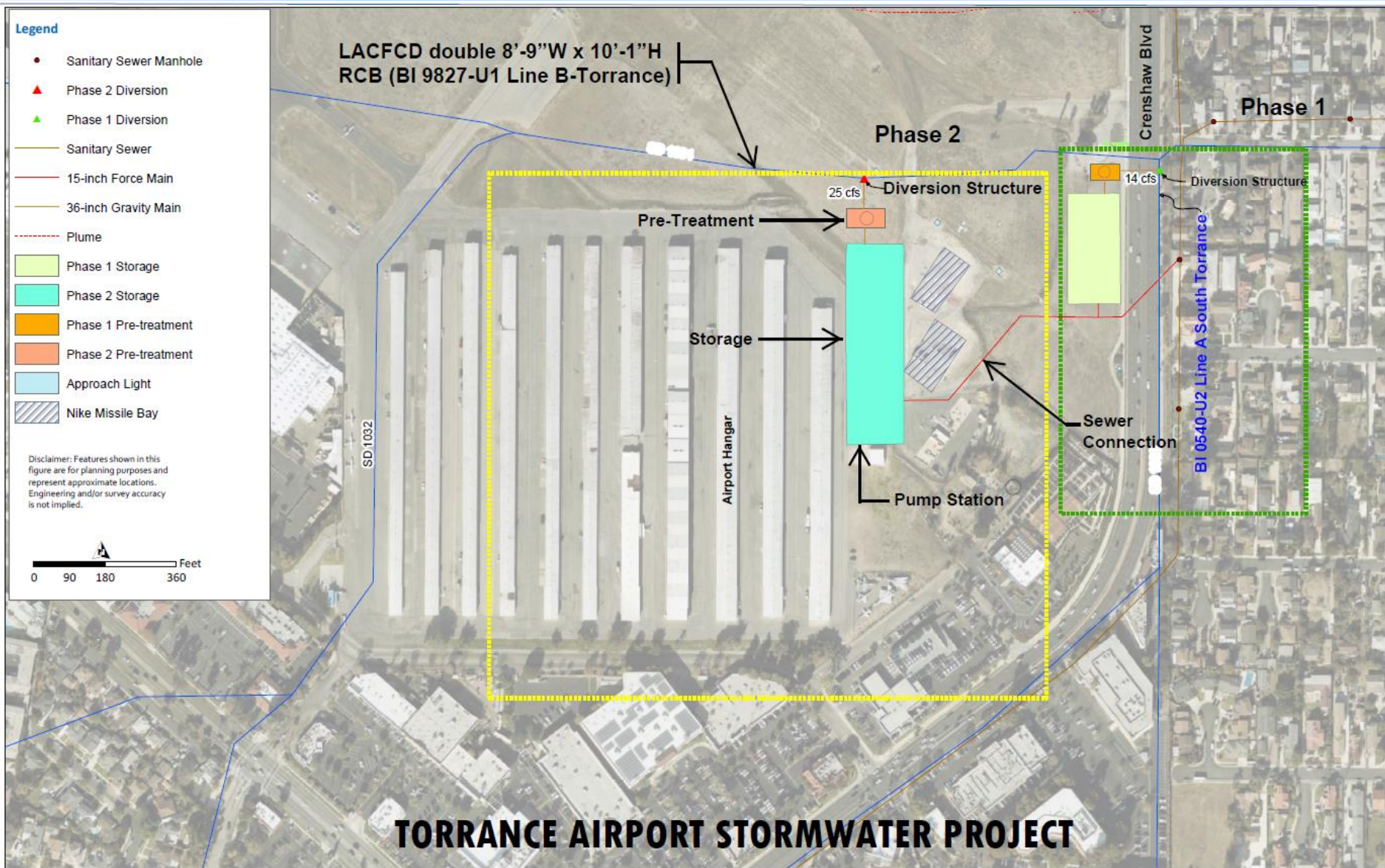
Torrance & Peninsula Cities Propose to Capture 24-hr 85th Percentile Runoff

City/Agency	Phase2 Tributary Area (Acre)	10 Yr Ave. Capture Volume (ac-ft/yr)
Torrance	50	15
Rancho Palos Verdes	70	21
Rolling Hills Estates	128	38.3
Palos Verdes Estates	10	3
Rolling Hills	89	26.6
LA County Unincorporated	54	16.1
Total	401	120



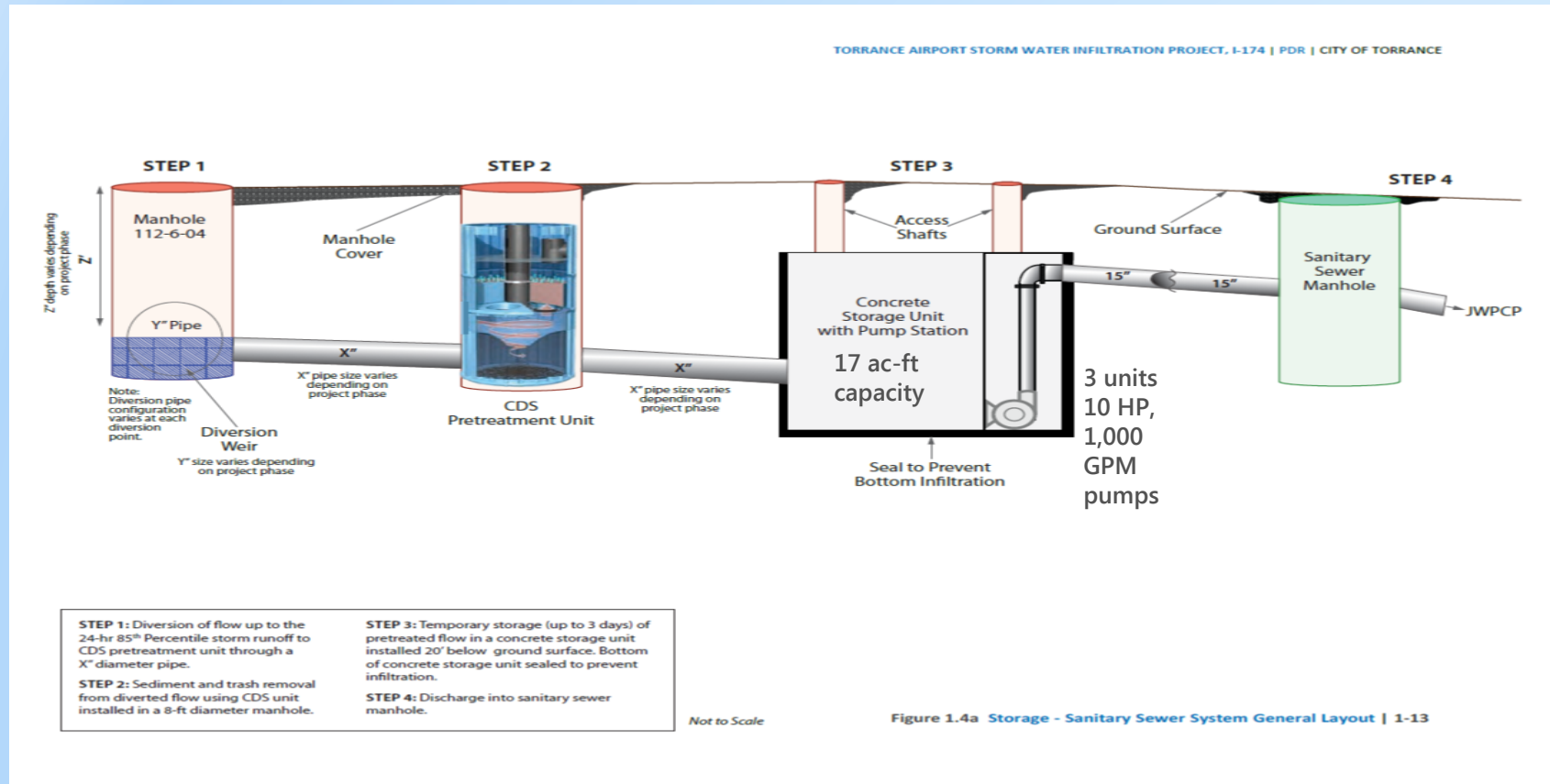
- Project is part of a larger regional effort to address Machado Lake Nutrients and Toxics TMDLs by partnering with the Peninsula Cities Water Management Group.

Phase 2 - Storm Water Basin Project Layout



Phase 2 – Schematics and Major Elements

Project Phase	Drainage Area (ac)	Pre-Treatment CDS Unit	Underground Storage Capacity (ac-ft)	Peak Flow (cfs)	Pump Station	Pipe Length (ft)
Phase 2	401	1	17	25	3 - 10 hp, 1000 gpm @ 30 ft TDH	2,500



Project Details

- **Funding:**

– Total Project Design Cost:	\$1,076,000	100%
– Matching Funds*:	\$170,000	19%
– Funding Request:	\$906,000	81%
– Est. Construction Cost:	\$8,000,000	
– Est. Annual O&M Cost:	\$118,265	

*Remaining funds from Torrance and PVP WMG Preliminary Design.

Partners:

Palos Verdes Peninsula Water Management Group (PVP WMG)

- Rancho Palos Verdes
- Rolling Hills Estates
- Palos Verdes Estates
- Rolling Hills
- LA County Unincorporated

Estimated Budget

Table 1 – Project Budget

Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source	Other Fund Source*	Total Cost
(a)	Direct Project Administration			\$130,000	\$130,000
(b)	CEQA/Outreach	\$40,000		\$10,000	\$50,000
(c)	MP/QAPP	\$10,000			\$10,000
(d)	Final Design/Engineering/Permits	\$856,000		\$30,000	\$886,000
(e)	Grand Total	\$906,000	\$	\$170,000	\$1,076,000



Project Benefits

- **Water Supply.** The project will divert, capture, and treat storm water runoff up to 120 acre-feet per year, based on a 10 year average storm.
- **Water Quality.** Total Nitrogen (TN) will be reduced by 815 kg based on 120 acre-feet per year.
- **Flood Risk Management.** Project also frees up 25 cfs of capacity in the LACFCD system downstream of the Airport until the 17 acre-feet storage basin is filled, which reduces risks for localized flooding.

Program Preferences (1 of 5)

- **Climate Change.** Increases the capacity of downstream storm drains to handle heavier rainfalls and extreme weather events.
- **Regional Water Self-Reliance.** Provides water to LA County for recycled water use and/or possible groundwater recharge.
- **Expected Useful Life.**
 - 20 years for pumps
 - 50 years for facilities.

Program Preferences (2 of 5)

- **CEQA and Permit Completion.**

- LACFCD Connection Permit is required to install diversion structure. Concept review started on December 2019.
- Preliminary CEQA Initial Study started to identify any significant environmental impacts of the project (Air Quality & Noise Study) . Expect Mitigated Negative Declaration.
- Federal Aviation Administration (FAA) Permit required at airport locations. Special consideration will be taken to minimize runway closures and avoid night work.
- Sanitation Districts of Los Angeles County (LACSD) analysis and design reviews necessary to incorporate a storm water diversion project through Stormwater Services Agreement.

Program Preferences (3 of 5)

- **SCW Program Goals**

Scoring Section	Project Score	Description
Water Quality Wet+Dry Part 1	20	Cost Effectiveness = $17 \text{ ac-ft} / \$8\text{M} = 2.1 \text{ ac-ft} > 1.0 \text{ ac-ft} = 20 \text{ points}$
Water Quality Wet + Dry Part 2	30	100% Pollutant Load Reduction from 401 Acres / 120 AFY Primary Pollutant (TP) Reduction: $100\% > 80\% = 20 \text{ points}$ Secondary Pollutant (TN) Reduction: $> 80\% = 10 \text{ points}$

Program Preferences (4 of 5)

- **SCW Program Goals**

Scoring Section	Project Score	Description
Water Supply* Part 1	10	<p>This project will capture and average 120 AFY storm water for treatment/water recycling by Joint Water Pollution Control Plant and Metropolitan Water District of Southern California Regional Recycled Water Advanced Purification Center in Carson via LACSD interceptor sewers. Values based on Design Element:</p> <p>(A) Annualized Life-Cycle Cost=\$160,000 (B) Annual Average Inflow to Project= 120 ac-ft Water-Supply Cost-Effectiveness = (A)/(B) = \$1,333.33 per ac-ft \$1,333 per ac-ft < \$1500/ac-ft = 10 points</p> <p><i>*Water supply benefit can include, but is not limited to, water diverted to a separate groundwater recharge facility, into a water treatment plant, to a sanitary sewer to be converted into recycled water, etc.</i></p>
Water Supply Part 2	5	<p>Module-generated Values: Annual Average Capture for Water Supply= 120 ac-ft 100 - 200 ac-ft/year = 5 points</p>

Program Preferences (5 of 5)

- **SCW Program Goals**

Scoring Section	Project Score	Description		
Community Investment	2	This project provides Flood Management, Flood Risk Mitigation benefits because it frees up 25 cfs of capacity in the LACFCD system downstream of the Airport until the 17 acre-feet underground storage basin is filled		
Leveraging Funds	0	Total Funds Requested: \$ 906,000	Percent Funded: 19.43%	Total Funding Secured: \$ 176,000
		> 25% Funding Matched = 3 points		
TOTAL	67			



Project Schedule

Task	Start Date	End Date
RFP for Final Design	08/15/2020	11/14/2020
City Council / Contract Approvals	11/15/2020	12/31/2020
Kick-Off Meeting/Design Engineering	01/28/2021	01/28/2021
75% Design Plans, Specs and Estimates	02/01/2021	08/31/2021
LACFCD & Sanitation Permit Processing Approval (inclgd Use and Maintenance Agreement)	09/01/2021	09/01/2022
Finalize 100% Design Plans, Specs and Estimates	07/01/2022	09/01/2022
Final Project Report	09/02/2022	11/01/2022

Other Considerations

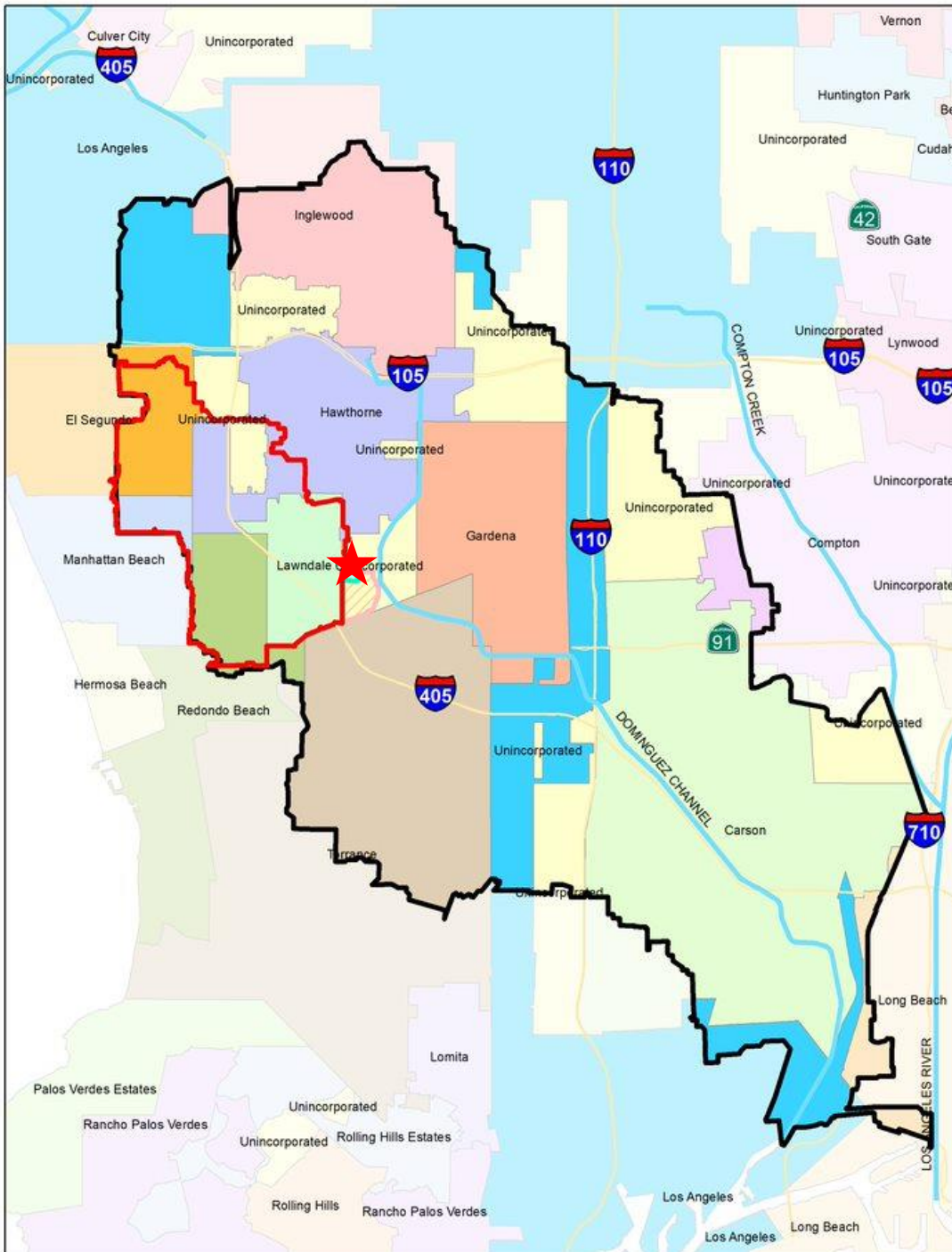
- The proposed project site is already owned by the City of Torrance.
- Torrance and its neighboring partner cities share common watersheds and Machado Lake TMDL's and each city has a vested interest in the overall regional water quality.
- **Water Quality Monitoring:** Water quality samples will be taken at regular intervals to test for the efficacy of the pre-treatment system.
- Onsite water flow monitoring will show volume diverted from Machado Lake.
- Once groundwater contamination is cleaned up, dry wells could be added to increase capacity for the system.



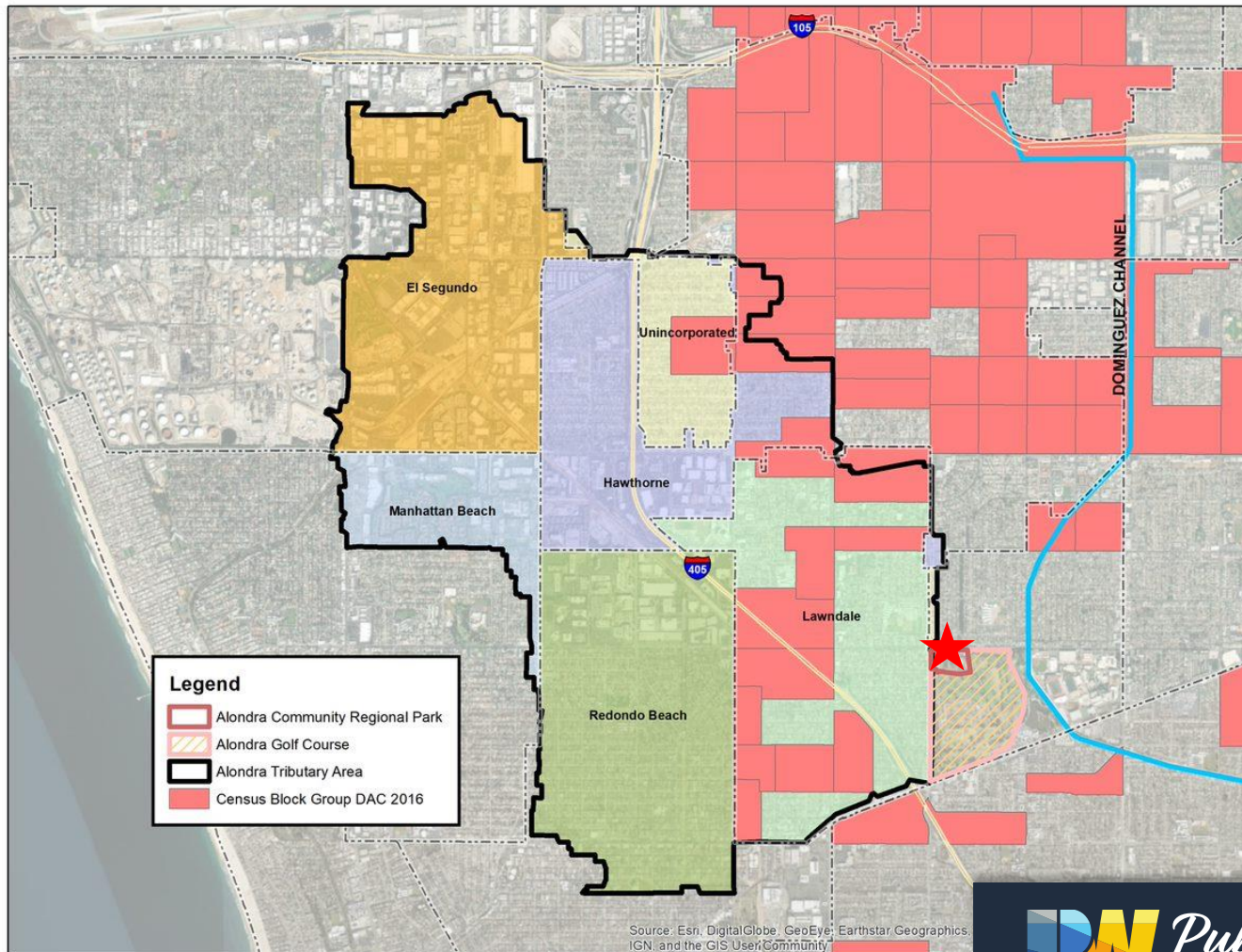
**Alondra Park Multi-Benefit
Stormwater Capture Project**

Alondra Park Multi-Benefit Stormwater Capture Project

- Dominguez Channel Watershed – 72 Sq Mi
- 2 Watershed Groups
- 4,945 acre tributary area



Alondra Park Multi-Benefit Stormwater Capture Project

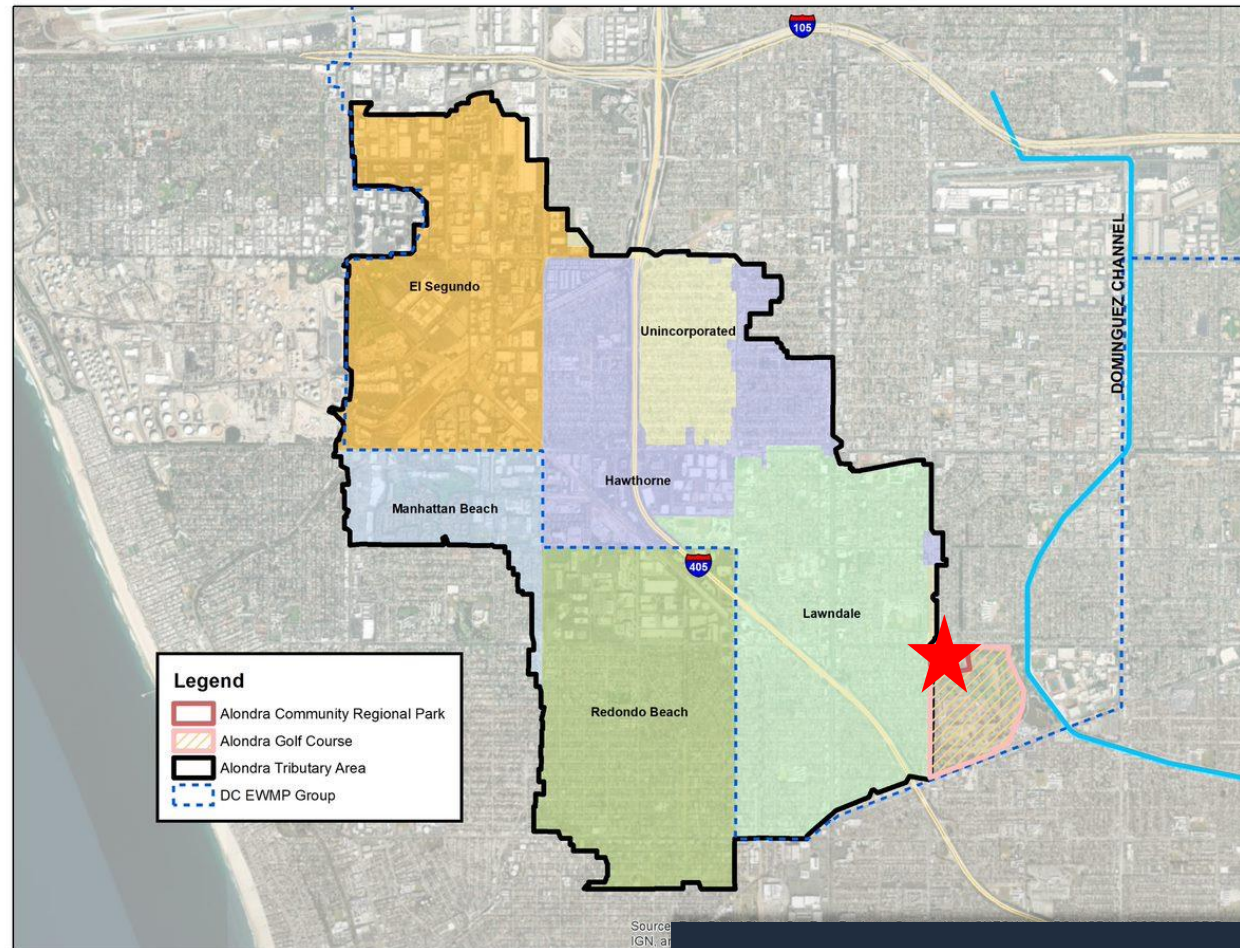


Alondra Park Multi-Benefit Stormwater Capture Project

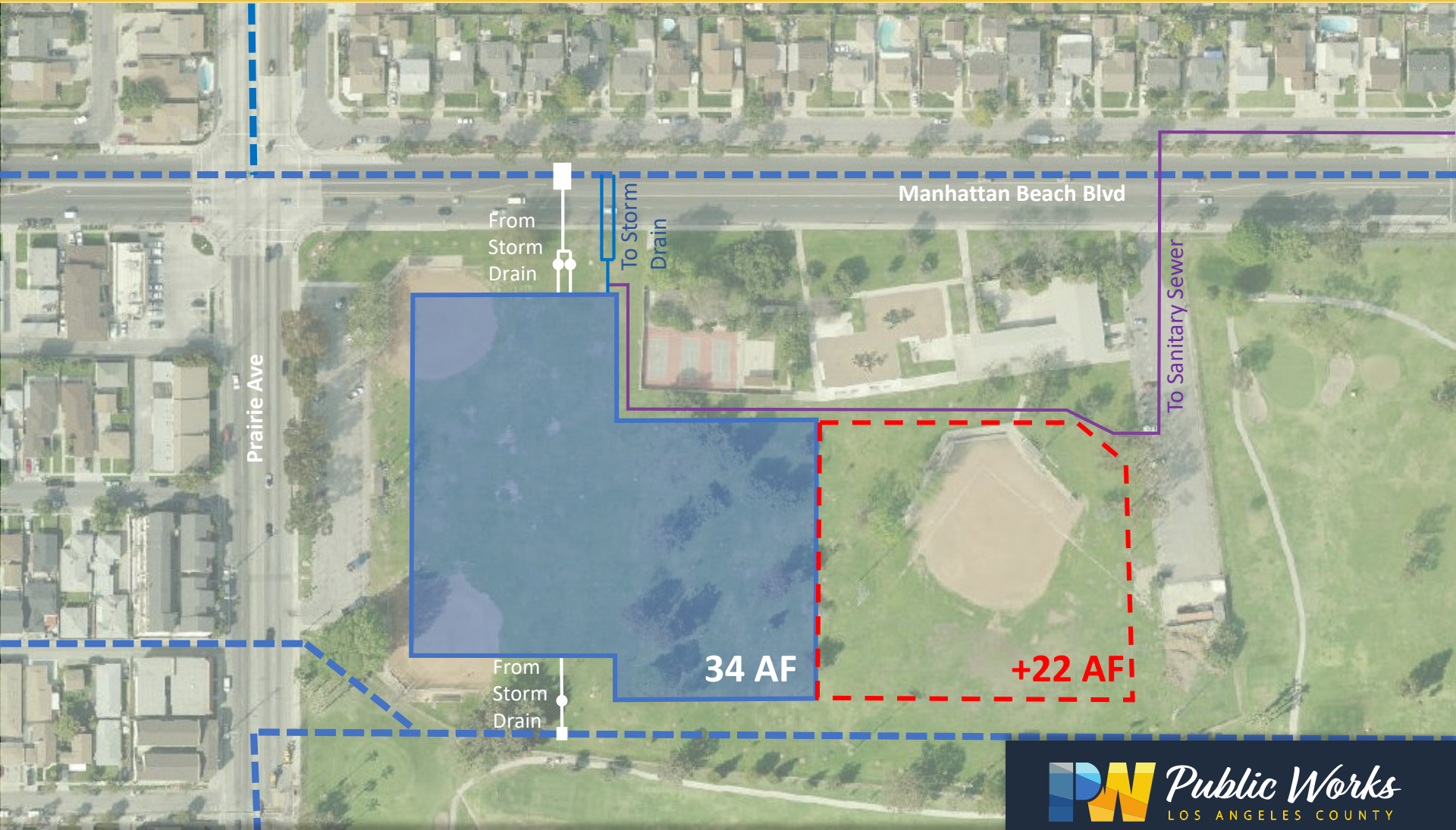
- Partners

- El Segundo
- Hawthorne
- Lawndale
- Manhattan Beach
- Redondo Beach
- Unincorporated County
- Caltrans (potential)

- 85th Percentile Volume = 222.5 Acre-Feet



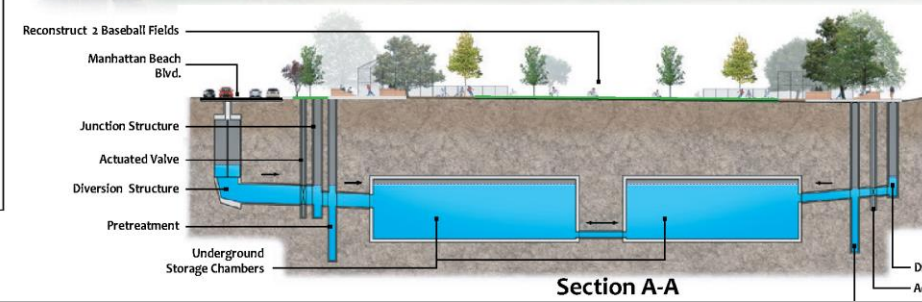
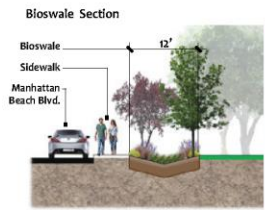
Alondra Park Multi-Benefit Stormwater Capture Project



Alondra Park Multi-Benefit Stormwater Capture Project



Alondra Park Multi-Benefit Stormwater Capture Project



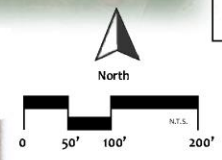
Landscape Plant List

Shrubs, Perennials and Grasses

-  California Wild Rose
(Rosa californica)
-  Yarrow
(Achillea millefolium)
-  Douglas Iris
(Iris douglasiana)
-  Hummingbird Sage
(Salvia spathacea)
-  California Goldenrod
(Solidago californica)
-  Small Cape Rush
(Chondropetalum sectorum)
-  Molate Red Fescue
(Festuca rubra 'Molator')
-  Blue Rush
(Juncus patens)
-  Canyon Prince Wild Rye
(Leymus condensus 'Canyon Prince')
-  Deer Grass
(Muhlenbergia rigens)

Trees

-  Coast Live Oak
(Quercus agrifolia)
-  Desert Willow
(Chilopsis linearis)
-  California Sycamore
(Platanus racemosa)
-  Western Redbud
(Cercis occidentalis)



LEGEND

- Manhole Access Location
- ★ Field Light (Replacement)

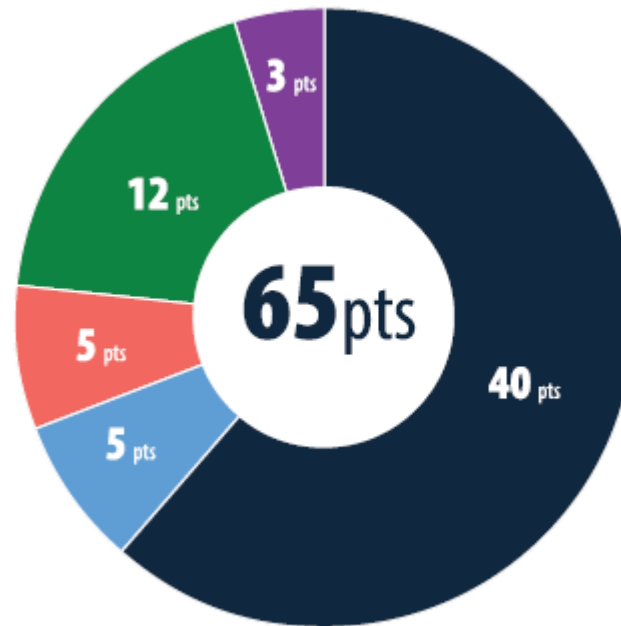
Alondra Park Multi-Benefit Stormwater Capture Project



Alondra Park Multi-Benefit Stormwater Capture Project

Safe, Clean Water Program Score

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



Alondra Park Multi-Benefit Stormwater Capture Project



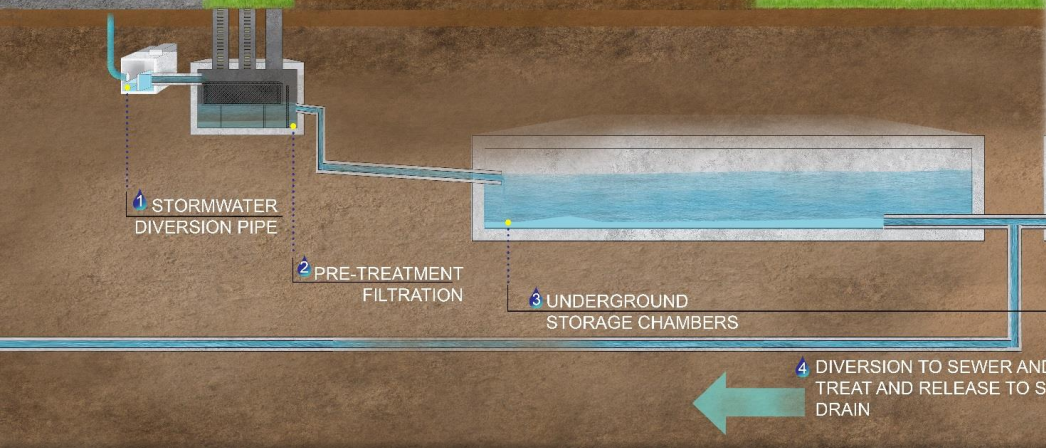
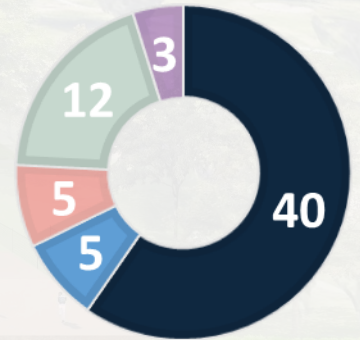
Safe, Clean Water Benefits:

Water Quality

- 4,945 acre Watershed
 - Zinc
 - Sediment
 - Trash
- 34 AF storage

Water Supply

- 133 AF / year



Alondra Park Multi-Benefit Stormwater Capture Project



Safe, Clean Water Benefits (Cont'd):

Community Investment

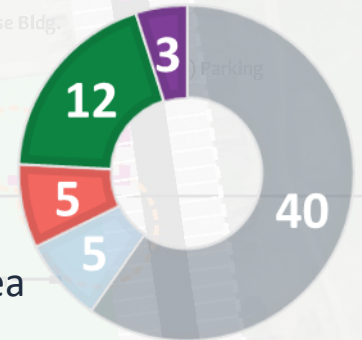
- Improve Flood Management
- Enhance Park/Habitat
- Enhance Recreational Opportunities
- Reduce Heat Island Effect
- Increase Tree Canopy

Nature Based Solutions

- Natural Process
- Natural Materials
- Remove Impervious Area

Leveraging Funds & Support

- Multi-City Partnership
- County General Fund
- Continued Community Outreach



Alondra Park Multi-Benefit Stormwater Capture Project



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Preliminary Cost Estimate and Schedule:

Phase	Cost	Completion	Request	FY
Planning	\$ 300,000	Mid 2019	\$10 M	2020-21
Design	\$ 3,200,000	Mid 2021	\$10 M	2021-22
Construction	\$ 38,000,000	Mid 2023	\$10 M	2022-23
Total Project Cost Estimate	\$ 41,500,000		\$30 M	

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