



*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

AGENDA

**Regular Meeting of the Board of Directors
Thursday, January 11, 2024 at 12:00 PM**

Progress Park Plaza, 15500 Downey Avenue, Paramount, CA

- 1. Roll Call**
- 2. Determination of a Quorum**
- 3. Additions to Agenda (Govt. Code Sec. 54954.2(b))**
- 4. Oral Communications to the Board**

This is an opportunity for members of the public to address the Board on any item under the jurisdiction of the agency. Depending upon the subject matter, the Board may be unable to respond until the item can be posted on the agenda at a future meeting in accordance with provisions of the Brown Act.
- 5. Consent Calendar: (Acted as one item unless withdrawn by request)**
 - a. Minutes of the Board Meeting of November 9, 2023 (Enclosure).
 - b. Ratify the Warrant Register for December 2023 and Approve the Warrant Register for January 2024 (Enclosures).
 - c. Receive and File the Updated Expenditures for Legal Counsel Services (Enclosure).
- 6. Presentation – PFOS/PFOA Litigation and Regulatory Update – Nicholas Ghirelli, Richards Watson & Gershon (Enclosure)**
- 7. Presentation – Gateway Area Pathfinding (GAP) Analysis: SCWP-funded Scientific Study Update – Brad Wardynski, Thom Epps, Chad Helmle, Craftwater Engineering (Enclosure)**
- 8. Presentation – Impact of Commercial , Industrial and Institutional (CII) Permit on Los Cerritos Channel – Richard Watson, Richard Watson & Associates (Enclosure)**
- 9. Discussion/Action Regarding Recurring Board Meeting Dates (Enclosure)**
 - a. Adopt Resolution No. 24-01, as presented, A Resolution of the Board of Directors of the Gateway Water Management Authority Changing the Recurrence of Regular Board Meetings.
- 10. Update Regarding Regional Stormwater Operation and Maintenance Services**

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11. Safe Clean Water Program – Oral Report

- a. Lower San Gabriel River “LSGR” WASC Chair – Melissa You
- b. Lower Los Angeles River “LLAR” WASC Chair – Madeline Chen

12. Executive Officer’s Oral Report

13. Directors’ Oral Comments/Reports

**14. Adjournment to Regular Board Meeting on February 8, 2024 at Progress Park Plaza,
15500 Downey Avenue, Paramount, CA**

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**MINUTES OF THE GATEWAY WATER MANAGEMENT AUTHORITY
LOS ANGELES GATEWAY REGION
INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
BOARD
THURSDAY, NOVEMBER 9, 2023**

A regular meeting of the Board of Directors of the Gateway Water Management Authority was held on Thursday, November 9, 2023 at 12:00 p.m. at Progress Park Plaza, 15500 Downey Avenue, Paramount, CA.

Treasurer/Secretary Thomas Bekele called the meeting to order at 12:15 p.m. Roll was called by Ms. Traci Gleason and a quorum of the Board was declared.

BOARD MEMBERS PRESENT:

Madeline Chen (alternate)	Central Basin Municipal Water District
Dan Mueller (alternate)	Downey
Samantha Leyva (alternate)	Huntington Park
Mark Stowell	La Mirada
Konya Vivanti (alternate)	Lakewood
Melissa You	Long Beach
Diana Tang	Long Beach Utilities
Pamela Torres (alternate)	Lynwood
Jerry Gomez	Maywood
Kenner Guerrero (alternate)	Pico Rivera
Dylan Porter (alternate)	Port of Long Beach
Jesse Sira (alternate)	Santa Fe Springs
Thomas Bekele	Signal Hill
Esther Rojas (alternate)	Water Replenishment District
Vicki Smith	Whittier

STAFF AND GUESTS ON SIGN-IN SHEET:

Traci Gleason	Program Administrative Manager
Madeline Anderson	Koa Consulting

ITEM 3 - ADDITIONS TO THE AGENDA

None.

ITEM 4 - ORAL COMMUNICATIONS TO THE BOARD

None.

ITEM 5 - CONSENT CALENDAR

Director E. Rojas moved to approve the consent calendar.

The motion was seconded by Director Torres and was approved by the following voice vote:

AYES: Mueller, Leyva, You, Tang, Torres, Gomez, Porter, E. Rojas, Smith

NOES: None

ABSTAIN: Chen, Stowell, Vivanti, Guerrero, Sira, Bekele

ITEM 6 - DISCUSSION/ACTION REGARDING GWMA'S UPDATED ON-CALL CONSULTING SERVICES LIST

Ms. Traci Gleason led a discussion regarding the On-Call Consulting list, including its current status and the methodology in which the final list was created. Ms. Gleason noted that Staff sent the Statement of Qualifications (SOQ) to the ad-hoc committee, consisting of Directors Deras, Roldan, and Smith, to review and rank each SOQ. GWMA staff then held a conference call with the ad-hoc committee on October 24th to discuss the individual and averaged rankings and determine a fair selection process to recommend consultants for GWMA's updated list of pre-qualified consultants. The committee selected firms with the top-three highest scores per scope of work category.

Director Tang moved to approve the following recommendations:

- a. Approve GWMA's Updated On-Call Consulting Services List as presented.
- b. Authorize the Chair to execute On-Call Professional Services Agreements with the newly pre-qualified on-call consultants, contingent upon legal counsels' review of any requested non-material changes on PSAs.

The motion was seconded by Director E. Rojas, and the items were approved by the following voice vote:

AYES: Chen, Mueller, Leyva, Stowell, Vivanti, You, Tang, Torres, Gomez, Guerrero, Porter, Sira, Bekele, E. Rojas, Smith

NOES: None

ABSTAIN: None

ITEM 7 – DISCUSSION/ACTION REGARDING MEMORANDUM OF UNDERSTANDING WITH ZENITH ENERGY WEST COAST TERMINALS, LLC FOR LOWER LOS ANGELES RIVER COORDINATED INTEGRATED MONITORING PLAN COST SHARING

Ms. Traci Gleason reported that the LLAR Watershed Group is requesting that the GWMA Board of Directors authorize GWMA to enter into an individual separate agreement with the Zenith Energy West Coast Terminals, LLC (Zenith Energy WCT) as an individual National Pollutant Discharge Elimination System permit holder for CIMP cost sharing purposes only. She continued by stating that this was a similar arrangement previously approved by the GWMA Board for the Harbor Toxics Group. The agreement outlines the cost share and the administrative direct and indirect fees associated with this agreement.

Director Vivanti moved to approve the following recommendations:

Approve the MOU with Zenith Energy WCT for the Administration and Cost Sharing for the Implementation of a Coordinated Compliance Monitoring and Reporting Plan and authorize the Chair to execute the MOU.

The motion was seconded by Director Smith, and the actions were approved by the following voice vote:

AYES: Chen, Mueller, Leyva, Stowell, Vivanti, You, Tang, Torres, Gomez, Guerrero, Porter, Sira, Bekele, E. Rojas, Smith

NOES: None

ABSTAIN: None

ITEM 8 – DISCUSSION REGARDING REGIONAL STORMWATER OPERATION AND MAINTENANCE SERVICES

Ms. Gleason recapped the September Board meeting where a discussion took place amongst members regarding stormwater operation and maintenance of the Gateway Region's regional projects. Members shared operational and maintenance challenges due to the design of the facilities. Other members expressed their concern regarding qualified staffing deficiencies to operate and maintain the regional projects. Further, they expressed that these issues all affect projects that have already been constructed and are in the commissioning stage as well as not yet constructed projects that may be delayed or not constructed at all until the problems are adequately addressed. Based on recommendations from some member cities, John L. Hunter & Associates was requested to provide GWMA a proposal to prepare a request for proposal (RFP) for stormwater project operation and maintenance services to solicit options for these types of services. The fee proposal was \$10,000 and included the following five projects: Bolivar Park, Mayfair Park, Caruthers Park, Urban Orchard Park and Los Cerritos Channel Sub-Basin 4. Under GWMA's professional services policy, the chairperson is authorized to seek a proposal from and retain a qualified consultant for specific professional services for up to and including \$10,000. The fee would be paid from participating WMP Groups via GWMA (LCC, LLAR and LSGR). A notice to proceed was issued. Status updates of the RFP for stormwater projects operation and maintenance services will be provided at future board meeting(s).

ITEM 9 – SAFE CLEAN WATER PROGRAM – ORAL REPORT

Director Chen provided an update for the LLAR WASC, noting that the last meeting was on October 24th, where she was voted in as a co-chair. She mentioned that the watershed coordinator is very active. They received a funding request from Lynwood for a stormwater capture program at their park with a 2029 set completion date. Additionally, there is a scientific study tracking recently installed dry wells, which would involve Cal Poly Pomona Students.

Director You stated that the LSGR WASC met on October 10th and they will be meeting again November 14th. At the next meeting, they are planning on going over scientific studies and a survey for changing the time of the meetings.

ITEM 10 - EXECUTIVE OFFICER'S ORAL REPORT

None.

ITEM 11 – DIRECTORS' ORAL COMMENTS/REPORTS

None.

The meeting adjourned at 12:30 p.m.

The next regular Board Meeting of the Directors of the Gateway Water Management Authority will be on Thursday, December 14, 2023 at 12:00 p.m. at the Clearwater Building, 16404 Paramount Boulevard, Paramount, CA.

Thomas Bekele, Treasurer/Secretary

Date



*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

January 11, 2024

AGENDA ITEM 5b – Ratify the Warrant Register for December 2023 and Approve the Warrant Register for January 2024

SUMMARY

The Warrant Register is a listing of general checks issued since the last warrant register. Warrants will be signed by 2 of the 3 Board Officers and released by Traci Gleason, serving as the Administrative/Accounting Manager of the Gateway Water Management Authority, upon Board Approval.

DISCUSSION

The Warrant Register for expenditures dated December 2023 in the amount of \$460,753.96 is submitted for ratification by the Board, and the Warrant Register for expenditures dated January 2024 in the amount of \$137,172.64 is submitted for approval. Invoices and supporting documentation are available for review at the office of the GWMA.

FISCAL IMPACT

The Warrant Register totals \$597,926.60. Funds to cover payment are available in the GWMA budget.

RECOMMENDATION

Ratify the Warrant Registers for December 2023 and Approve the Warrant Register for January 2024.

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WARRANT REGISTER
DISBURSEMENT JOURNAL
December 2023

Invoice Date	Vendor	Invoice Number	Description	Amount
12/2/2023	CA Consulting Services	2023-GWMA-11	October and November Accounting Support Services	\$ 2,800.00
11/21/2023	Central Basin Municipal Water District	RCP21	Prop 84 2015 Grant Project Reimbursement	\$ 110,553.37
11/21/2023	Central Basin Municipal Water District	RCP22	Prop 84 2015 Grant Project Reimbursement	\$ 11,602.74
11/21/2023	Central Basin Municipal Water District	RCP23	Prop 84 2015 Grant Project Reimbursement	\$ 49,601.14
5/25/2023	City of Bell Gardens	32490	Prop 1 John Anson Ford Park Cistern Grant Reimbursement	\$ 33,817.78
5/25/2023	City of Bell Gardens	32491	Prop 1 John Anson Ford Park Cistern Grant Reimbursement	\$ 36,100.00
12/1/2023	City of Paramount	5150	Office Lease (December 2023)	\$ 410.64
11/16/2023	CWE	23492	LARUR2 (October 2023)	\$ 19,665.68
11/30/2023	Gateway Cities Council of Governments	11-30-23	Office Supplies (November 2023)	\$ 100.00
11/29/2023	JLHA Municipal Contractor	GWM1LLA12310	LLAR WMP Implementation (October 2023)	\$ 42,416.34
9/20/2023	JLHA Municipal Contractor	GWM1GHR12308	HTU (August 2023)	\$ 3,084.48
10/17/2023	JLHA Municipal Contractor	GWM1GHR12309	HTU (September 2023)	\$ 3,189.26
11/9/2023	JLHA Municipal Contractor	GWM1GHR12310	HTU (October 2023)	\$ 2,974.26
11/2/2023	JLHA Municipal Contractor	GWM1LSG12309	LSGR WMP & CIMP (September 2023)	\$ 24,700.43
11/9/2023	JLHA Municipal Contractor	GWM1LSG12310	LSGR WMP & CIMP (October 2023)	\$ 28,089.08
12/5/2023	Koa Consulting	K114-01-74	Water-Related PM Coordination Activities and Executive Officer Services, DAC Chair and DACIP Co-Chair (Nov 2023)	\$ 38,253.00
11/13/2023	Richard Watson & Associates	23-192-003-011	LCC WMP CIMP (October 2023)	\$ 52,761.28
11/16/2023	Richards Watson Gershon	245160	Legal Services Travel - General (service through October 31, 2023)	\$ 29.48
11/16/2023	Richards Watson Gershon	245161	Legal Services - LLAR (service through October 31, 2023)	\$ 605.00
Total				\$ 460,753.96

Reviewed and Approved by:



Thomas Bekele/Signal Hill



WARRANT REGISTER
DISBURSEMENT JOURNAL
January 2024

Invoice Date	Vendor	Invoice Number	Description	Amount
1/2/2024	CA Consulting Services	2023-GWMA-12	Accounting Support Services (December 2023)	\$ 2,310.00
1/1/2024	City of Paramount	5173	Office Lease (January 2023)	\$ 410.64
11/17/2023	Craftwater Engineering	20-040-1	SCWP LLAR and LSGR GAP Ph 2 (October 2023)	\$ 15,295.00
12/18/2023	Craftwater Engineering	20-040-2	SCWP LLAR and LSGR GAP Ph 2 (November 2023)	\$ 26,220.00
12/18/2023	CWE	23562	LARUR2 (November 2023)	\$ 23,129.45
12/31/2023	Gateway Cities Council of Governments	12-31-23	Office Supplies (December 2023)	\$ 100.00
12/29/2023	Koa Consulting	K114-01-75	Water-Related PM Coordination Activities and Executive Officer Services, DAC Chair and DACIP Co-Chair (Dec 2023)	\$ 38,253.00
11/3/2023	Rodger's Catering	48972	Board Meeting Catering	\$ 594.25
12/27/2023	Richard Watson & Associates	23-192-003-012	LCC WMP CIMP (November 2023)	\$ 30,392.80
12/12/2023	Richards Watson Gershon	245600	Legal Services - LLAR (service through Nov 30, 2023)	\$ 467.50
			Total	\$ 137,172.64

Reviewed and Approved by:


Thomas Bekele, Signal Hill



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January 11, 2024

AGENDA ITEM 5c – Status of Total Legal Expenditures for General Legal Counsel Services for Fiscal Year 2023-2024

SUMMARY

At the Board meeting in June 2023, the Board approved the budget for legal counsel services of \$30,500 for Fiscal Year (FY) 2023-2024 to address legal issues. The Board has previously directed staff to provide monthly updates on total expenditures for legal counsel services.

Legal Counsel Services Update:

\$ 30,500.00	FY 2023-2024 Budget amount for Legal Counsel services
<u>\$ 6,849.48</u>	Expenditures for Legal Counsel services through November 30, 2023
\$ 23,650.52	Remaining budget amount available through June 30, 2024

FISCAL IMPACT

The total expenditures for Legal Counsel services for FY 2023-2024 through November 30, 2023 total \$6,849.48. Sufficient funds to cover payment for legal counsel services are remaining in the GWMA FY 2023-2024 budget.

RECOMMENDATION

Receive and file the updated expenditures for Legal Counsel Services.

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PFOS/PFOA LITIGATION AND REGULATORY UPDATE GATEWAY WATER MANAGEMENT AUTHORITY

NICHOLAS GHIRELLI

RICHARDS, WATSON & GERSHON

JANUARY 11, 2023



WHAT ARE PFOA AND PFOS?

- perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), two common types of Per- and Polyfluoroalkyl Substances (PFAS).
- PFAS are a broad class of widely used chemicals that are persistent in the environment and slow to degrade.

PFAS LITIGATION UPDATE

- PFAS manufacturers, including 3M and Dupont sued in class action lawsuit on behalf of water systems across the country.
- *City of Camden v. 3M Company* and *City of Camden v. E.I. Dupont de Nemours and Company*.
- August 2023, Court granted preliminary approval in both cases for a class action settlement.

SCHEDULE OF NEXT STEPS

DEADLINE DESCRIPTION	DUPONT	3M COMPANY
Submit Objections	11/11/2023	11/11/2023
Submit Requests for Exclusion	12/4/2023	12/11/2023
Court's Final Fairness Hearing	12/14/2023 at 10:00 AM EST	2/2/2024 at 10:00 AM EST
Phase 1 Settlement Claims Form	60 days after the Effective Date	60 days after the Effective Date
Phase 1 Special Needs Claims Form	45 days after Phase 1 Public Water System Claims Form Deadline	45 days after Phase 1 Public Water System Claims Form Deadline
Phase 2 Testing Claims Form	1/1/2026	1/1/2026
Phase 2 Baseline Testing	45 days after receiving test results but no later than 7/1/2026	45 days after receiving test results but no later than 7/1/2026
Phase 2 Settlement Claims Form	6/30/2026	7/31/2026
Phase 2 Special Needs Claims Form	8/1/2026	8/1/2026
Phase 2 Supplemental Fund Claims Form	12/31/2030	12/31/2030
Phase 2 Supplemental Fund Claims Form	12/31/2030	12/31/2030

3M COMPANY - PROPOSED SETTLEMENT TERMS

- Settlement Amount: not less than \$10,500,000,000 and not more than \$12,500,000,000
- Phase One Class Members
 - Allocated \$6,875,000,000
 - Active Public Water System that has one or more impacted water sources as of June 22, 2023.
- Phase Two Class Members
 - Allocated \$5,625,000,000
 - Active Public Water System that does not have any impacted water sources as of June 22, 2023 and (i) is required to test for certain PFAS under UCMR-5 or (ii) serves more than 3,300 people.
- Attorneys Fees and Settlement Administration Costs will be paid from the settlement amount.

3M COMPANY - PROPOSED SETTLEMENT TERMS

- Release:
 - Class members who did not opt out cannot bring a lawsuit against 3M, its affiliates, predecessors and successors or make any claims resolved by the Settlement Agreement.
 - Applies regardless of whether class member actually files a claim form or receives funds.
 - Does not apply to conduct occurring after the effective date of the Settlement Agreement.
- Dismissal: If the settlement is approved and becomes final, all pending litigation will be dismissed with prejudice. Funds will not be distributed until settlement becomes final.
- Walk-Away: 3M has a right to “walk away” from the Settlement Agreement under certain specific circumstances.

DUPONT – PROPOSED SETTLEMENT TERMS

- Settlement Amount: total and maximum dollar amount of \$1,185,000,000
- Phase One Class Members
 - Allocated 55% of the Settlement Funds
 - Public Water System that draws or otherwise collects from any Water Source that tested or otherwise analyzed on or before June 30, 2023 and found to contain any PFAS at any level.
- Phase Two Class Members
 - Allocated 45% of the Settlement Funds
 - Public Water System that is not a phase one qualifying Settlement Class Member and is subject to the monitoring rules set forth in UCMR 5 or other applicable State or federal law.

DUPONT – PROPOSED SETTLEMENT TERMS

- Release:
 - Class members who did not opt out cannot bring a lawsuit against DuPont, its affiliates, predecessors and successors or make claims resolved by the Settlement Agreement.
 - Applies regardless of whether class member actually files a claim form or receives any settlement funds.
 - Does not apply to conduct entirely after the effective date of the Settlement Agreement or claims by state or federal government.
- Dismissal: if the settlement is approved and becomes final, all pending litigation will be dismissed with prejudice. Funds will not be distributed until settlement becomes final.
- Walk-Away: DuPont does have a right to “walk away” from the Settlement Agreement under certain specific circumstances.

REGULATORY ACTIONS - HIGHLIGHTS

- Unregulated Contaminant Monitoring Rule (UCMR-5) requires testing of PFAS in certain drinking water systems.
- Listing PFOA and PFOS as Hazardous Substances.
- Proposed National Primary Drinking Water Regulation for PFOA, PFOS, PFNA, GenX, PFHxS and PFBS.

See EPA's [*PFAS Strategic Roadmap: EPA's Commitments to Action 2021-2024*](#) for a full discussion of EPA's actions to address PFAS.

UCMR-5 AND PFAS

- Final UCMR-5 published December 2021 (86 FR 73131)
- Cycle spans 2022 – 2026 (sample collection in 2023-2025)
- Certain public water systems required to monitor list of unregulated contaminants.
- The National Defense Authorization Act for Fiscal Year 2020 required EPA to include all PFAS in UCMR 5, for which there is a validated drinking water method and that are not subject to a National Primary Drinking Water Regulation.
- UCMR 5 includes 29 PFAS that are within the scope of EPA Methods 533 and 537.1.

LISTING PFOA AND PFOS AS HAZARDOUS SUBSTANCES UNDER CERCLA

- Proposed Rule published September 6, 2022
- Public Comment period closed November 7, 2022
- Final rule anticipated in March 2024
- Gives EPA and delegated agencies more tools to require clean up of PFOA/PFOS without making an imminent and substantial danger findings and to recover costs.
- Reporting of PFOA/PFOS releases over one pound to National Response Center and local emergency responders

PROPOSED NATIONAL PRIMARY DRINKING WATER REGULATION

- Proposed Rule published March 2023 (88 FR 18638),
- Public comment period closed May 30, 2023
- Final rule anticipated January 2024
- Rule would establish legally enforceable levels (maximum contaminant levels, MCLs):
 - PFOA and PFOS as individual contaminants: 4.0 ppt
 - PFHxS, PFNA, PFBS, and GenX Chemicals as a mixture: 1.0 hazard index
- Public Water Systems would be required to monitor for these PFAS, notify the public of PFAS levels, reduce levels if exceed MCLs

THANK YOU
ANY QUESTIONS?





GAP Analysis (Phase 2) Scientific Study Update | January 2024

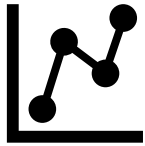
Agenda

- Refresher: Study Purpose
- Progress: Round 5 SCWP Project Context
- Next Steps: Phase 2 Broader Analysis

Gateway Area Pathfinding (GAP) Analysis Purpose



Identify new, high-impact, multi-benefit stormwater projects



Explore how projects interact as a system at the watershed scale



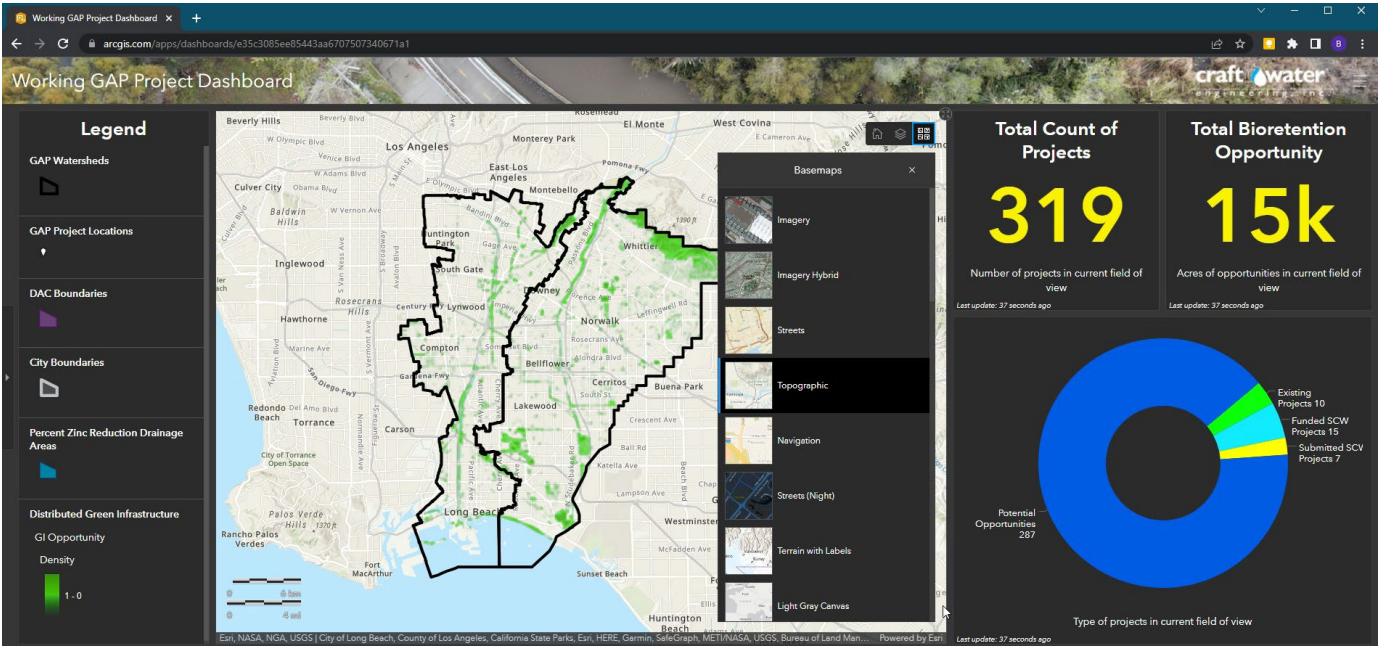
Articulate project-specific roadmap to stormwater quality compliance



Translate findings into Stormwater Investment Plan guidance

Phase I - Outcomes

OPPORTUNITIES (DASHBOARD)



ANALYSIS (MEMO)



MEMO

TO: Gateway Water Management Authority
FROM: Craftwater Engineering, Inc.
SUBJECT: Gateway Area Pathfinding Technical Memo 2/2/23

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3.2 La Mirada Creek / Hacienda Park

The proposed Hacienda Park project is nested within the drainage area of the proposed La Mirada Creek Park project, as displayed by Figure 3-3 below. Table 3-2 shows that when the two projects are modeled as a system, the downstream La Mirada Creek project's performance is lessened slightly.

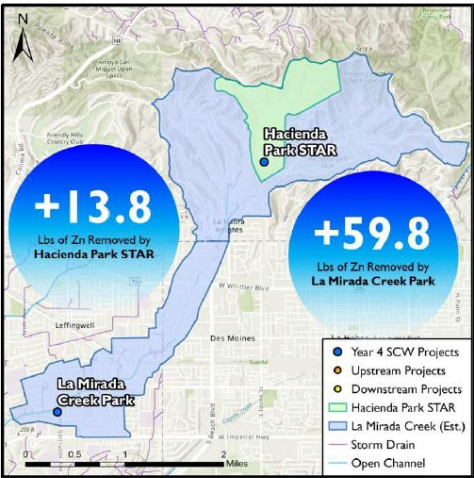


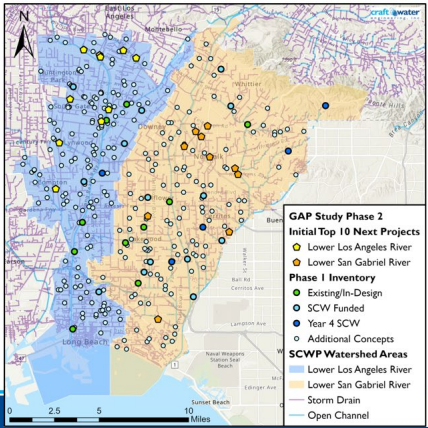
Figure 3-3. Nested drainage areas interacting with La Mirada Creek Park.

Table 3-2. Zinc reduction performance of Hacienda Park and La Mirada Creek Park.

La Mirada Creek Performance	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Hacienda Park STAR	92	13.8	59.3%	\$51,076
La Mirada Creek Park (Isolated)	386	61.5	20.5%	\$107,617
La Mirada Creek Park (After Hacienda Park)	386	59.8	20.3%	\$110,678

TOP 10 NEXT PROJECTS (MEETINGS)

GAP Phase 2 – Initial Top 10



Initial Top 10s

Based on Water Quality Reductions, Resilient Ranking

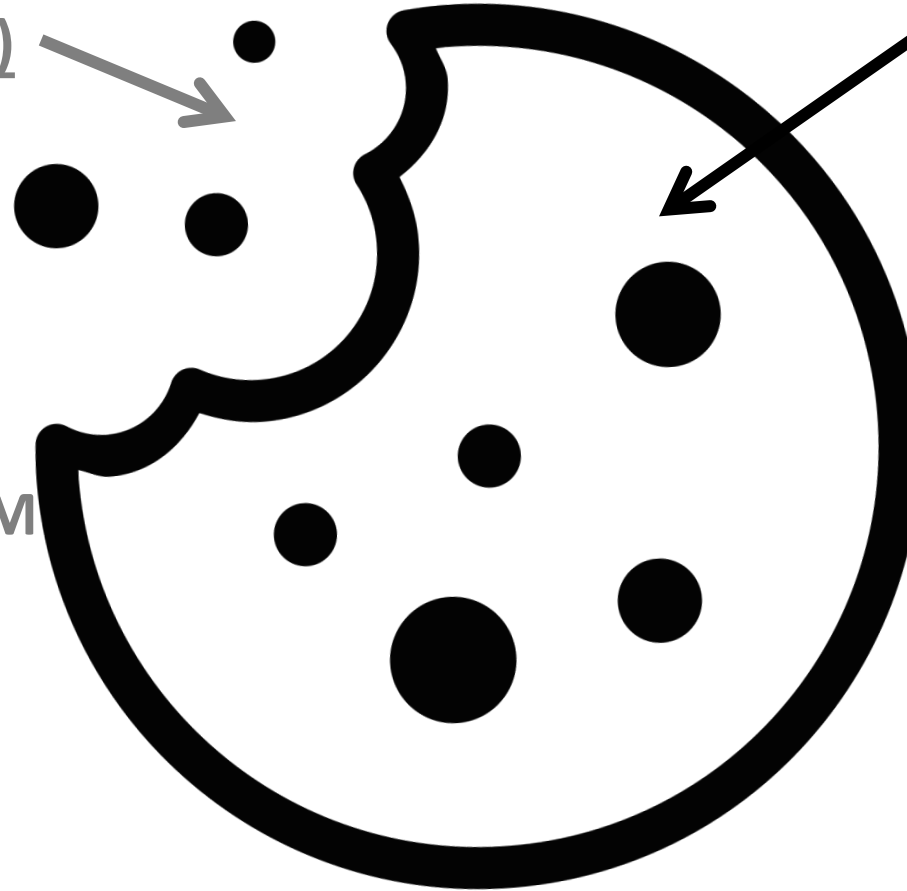
Top ten selected for each Watershed Area

Schools not Considered

Phase 2 - Scope

PHASE I (Complete)

- TEST METHODS IN ~~PILOT AREA~~ **ALL WATERSHED AREAS**
- CONDUCT DESKTOP ANALYSIS
- GENERATE NEAR-TERM PROJECT CLARITY (2- TO 5-YEAR HORIZON)
- **ANALYZE PROJECTS SUBMITTED FOR FY23/24 FUNDING**



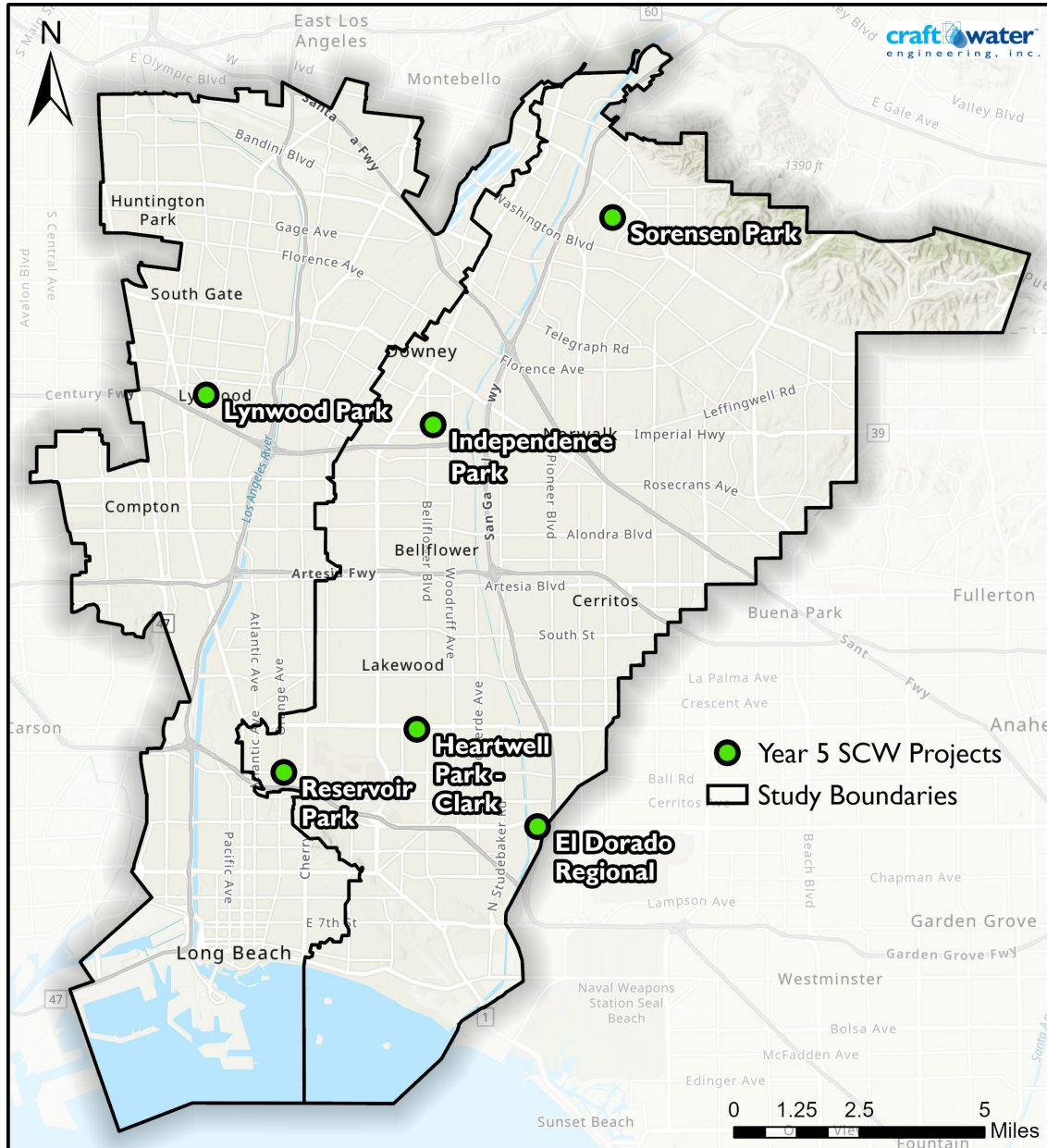
PHASE 2

- EXPAND ANALYSIS TO FILL OUTSTANDING GAPS
- CONDUCT ENGINEER SITE VISITS
- GENERATE LONGER-TERM PROJECT CLARITY **(5- TO 50-YEAR HORIZON)**
- SYNTHESIZE ADAPTATION & PLAN GUIDANCE
- **ANALYZE PROJECTS SUBMITTED FOR FY24/25 FUNDING**

Round 5 SCWP Project Analysis Details

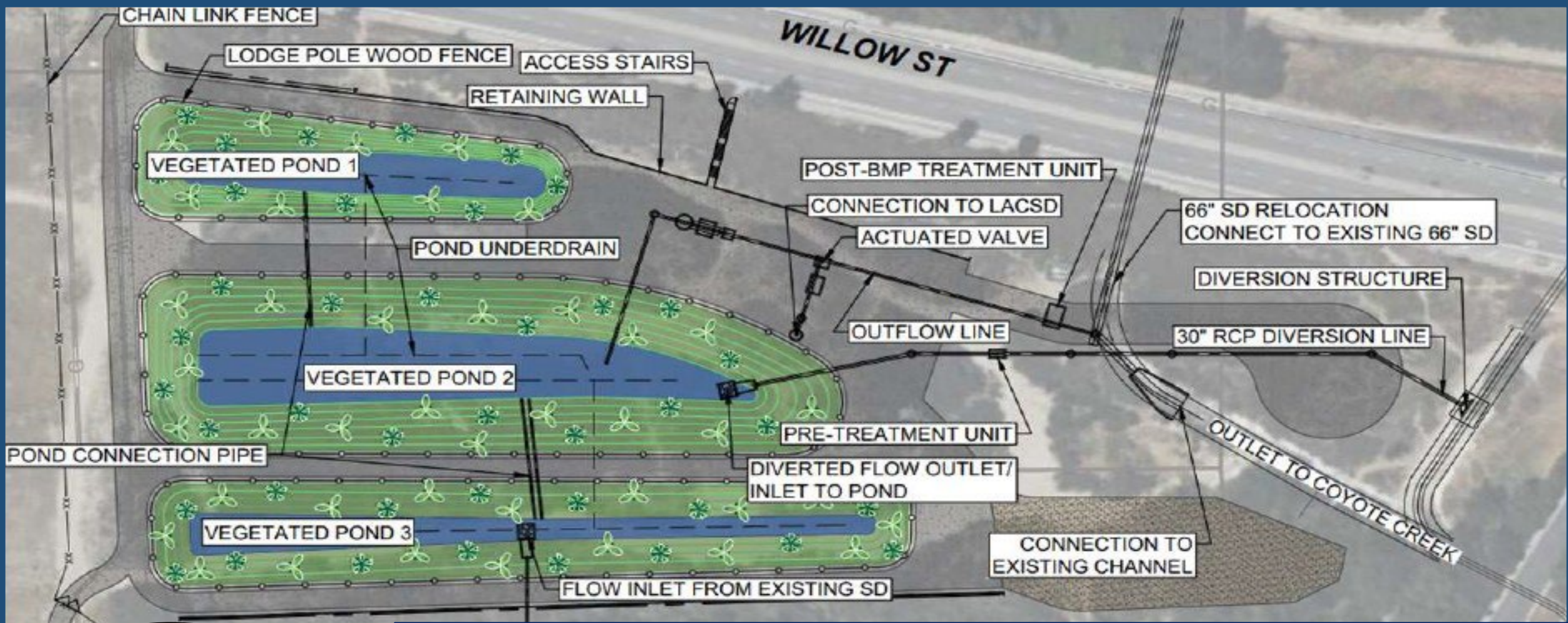


Year 5 SCWP Projects Analysis



Caveats & Considerations:

- Baseline hydrology and water quality models from the most recent WMP updates for the Gateway
- Project attributes adapted from SCW Program project applications for BMP modeling
- Cost effectiveness metrics (dollars per pound zinc reduced) were calculated using the SCW Program module annualized life-cycle cost from each project application.
- Project interactions are a product of watershed position, how runoff is generated within a watershed, and where pollutants are expected to derive from in baseline models.
- Not all projects may be designed for the same purposes or according to the same metrics. The assessment contained herein focuses on water quality benefits assessed at the watershed scale.



El Dorado Park Regional Stormwater Capture Project, *City of Long Beach*

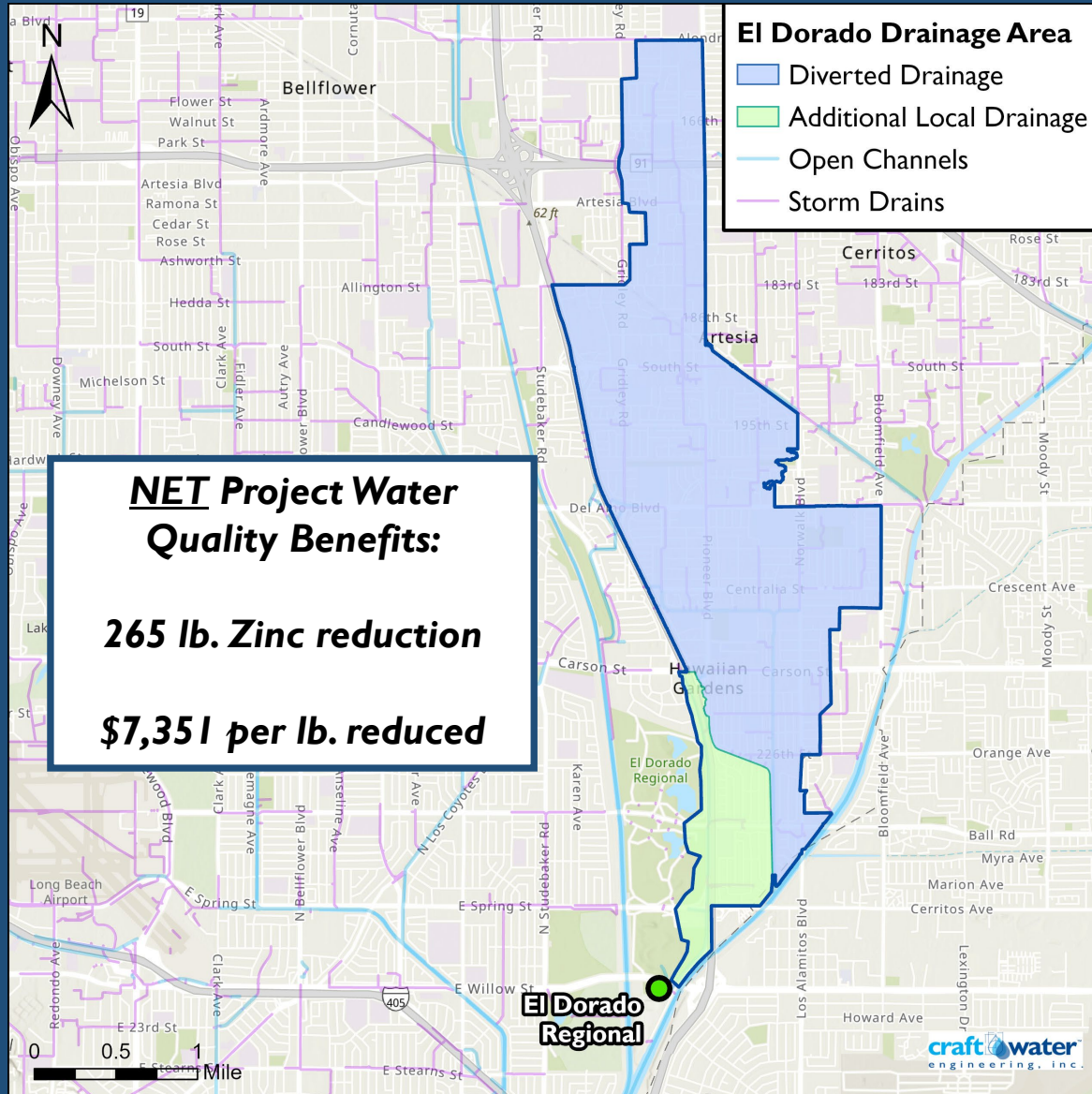
Storage Volume: 10.3 ac-ft

Diversion Rate: 20 cfs (Artesia Norwalk Channel)

Treatment: 7.84 cfs to sanitary sewer (dry weather) + 7.84 cfs filtration (wet weather)

Additional Features: Vegetated surface ponds, walking paths, native tree/shrub plantings

WATERSHED CONTEXT

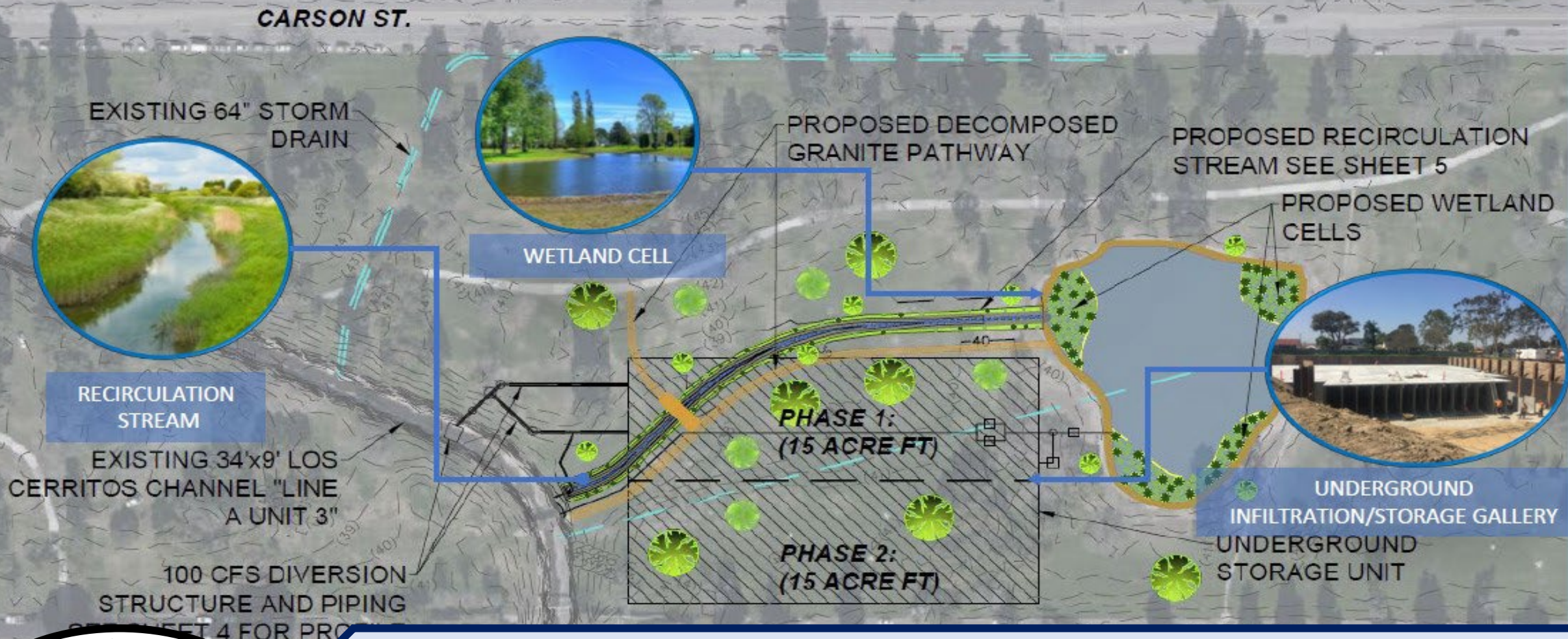


El Dorado Park Regional Stormwater Capture Project

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
El Dorado Park	474	265.4	26.6%	\$7,351

No interceding SCWP projects in drainage before treatment just upstream of Coyote Creek

Project treats drainage area not currently serviced by other existing or funded regional projects.



Heartwell Park at Clark Channel Stormwater Capture Project, City of Long Beach

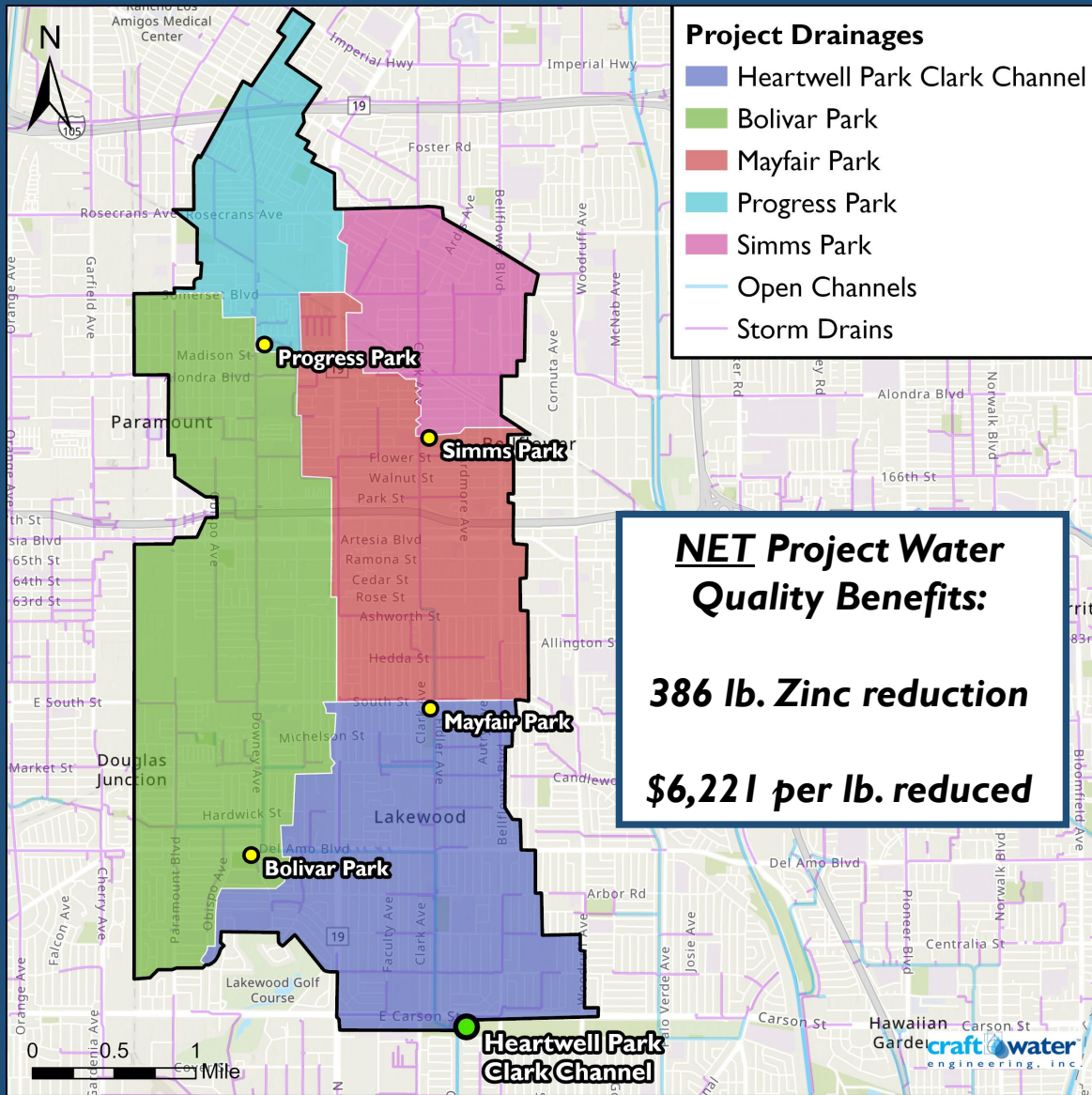
Storage Volume: 30.0 ac-ft

Diversion Rate: 100 cfs (BI0009 Unit 3 Line A)

Treatment: 15.68 cfs pumped filtration

Additional Features: Natural recirculation stream, wetland cells, native tree/shrub plantings

WATERSHED CONTEXT



Project treats drainage area with multiple existing and funded projects upstream that work as a system.

Heartwell Park at Clark Channel Stormwater Capture Project

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Heartwell Park – Clark Channel (isolated)	946	506.3	39.8%	\$4,746
Heartwell Park – Clark Channel (net w. Upstream system of BMPs)	949	386.3	44.1%	\$6,221

Zinc reductions are smaller when accounting for upstream system of projects, but still impactful



Independence Park Runoff Capture Facility,

City of Downey

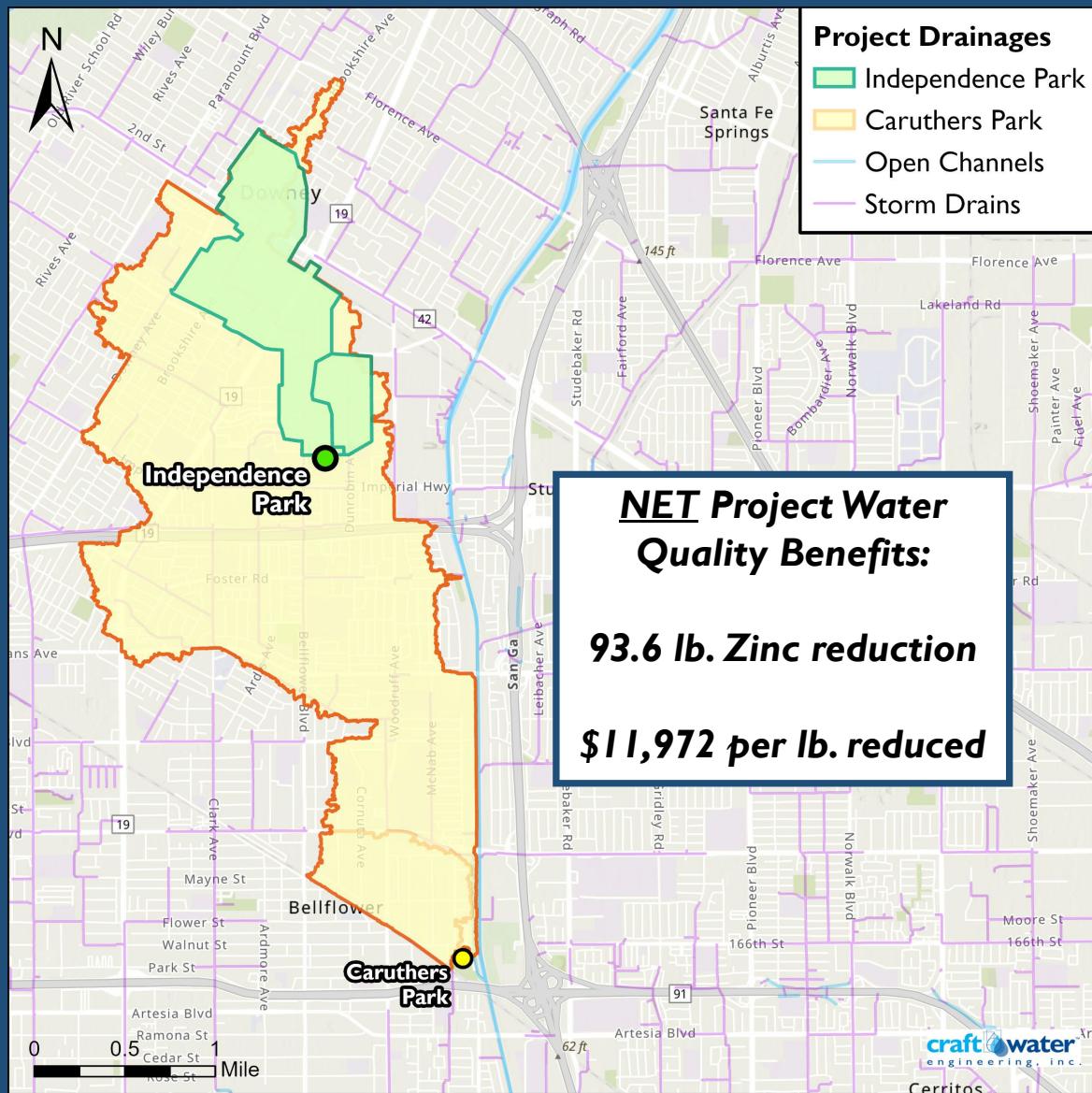
Storage Volume: 4.45 ac-ft

Diversion Rate: 25 cfs (BI0615), 3.34 cfs (BI3150 A)

Treatment: 0.5 in/hr infiltration + 7.84 cfs pumped filtration

Additional Features: Permeable pavement, bioswales, native tree/shrub plantings

WATERSHED CONTEXT



Project treats drainage upstream of Caruthers Park and adds runoff treatment for the San Gabriel River.

Independence Park Runoff Capture Facility

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Independence Park (Isolated)	175	129.3	78.3%	\$8,670
Independence Park (Net Watershed Benefits)	150	93.6	56.7%	\$11,972

Zinc reductions at upstream Independence Park impact baseline loading at Caruthers Park but provide a net watershed benefit



Lynwood City Park Stormwater Capture Project,

City of Lynwood

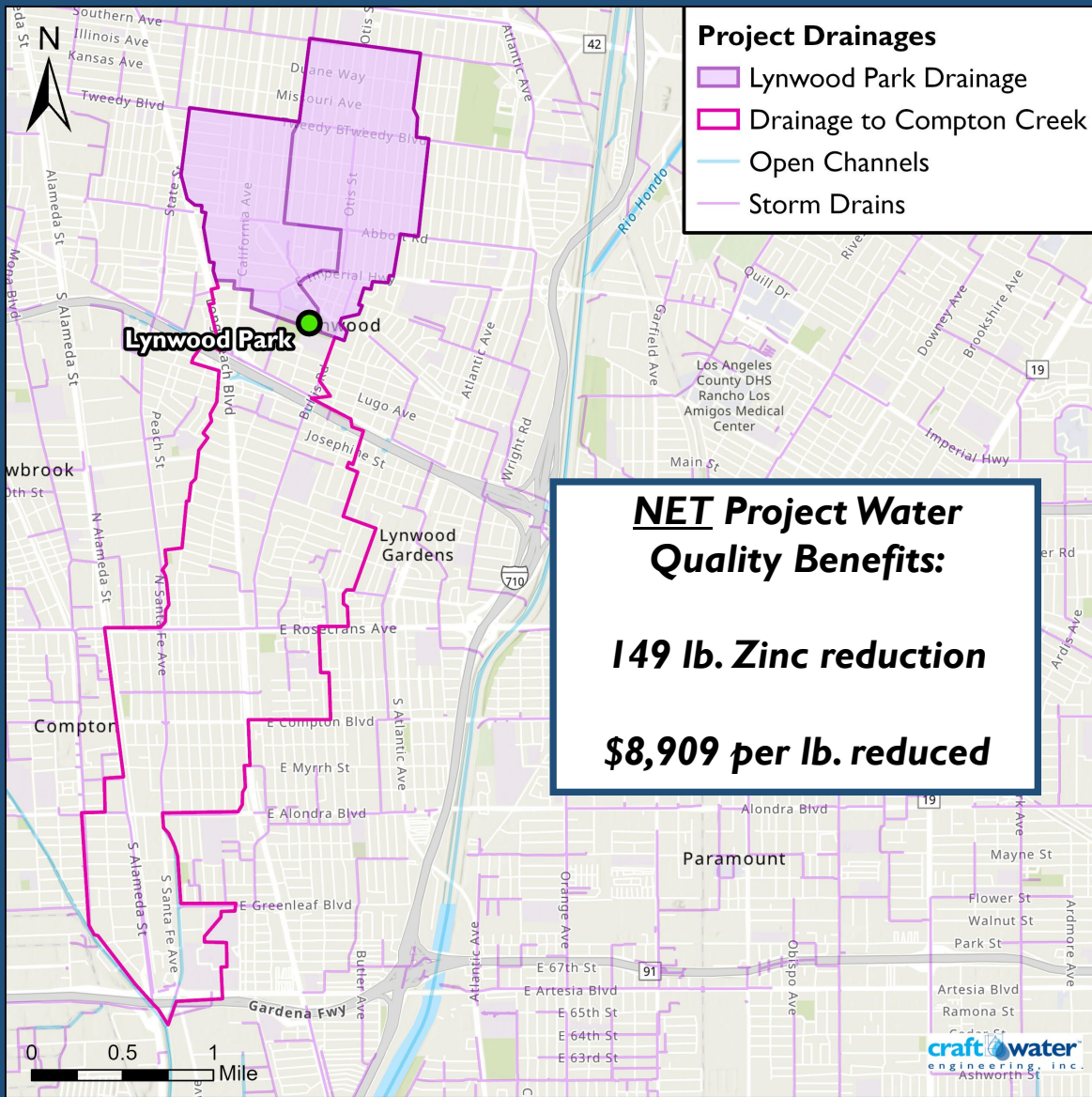
Storage Volume: 10.7 ac-ft

Diversion Rate: 20 cfs (BI0006 A), 25 cfs (BI0006 D)

Treatment: 0.32 in/hr infiltration + 7.84 cfs pumped filtration

Additional Features: Ephemeral stream, permeable pavement, bioretention planters

WATERSHED CONTEXT

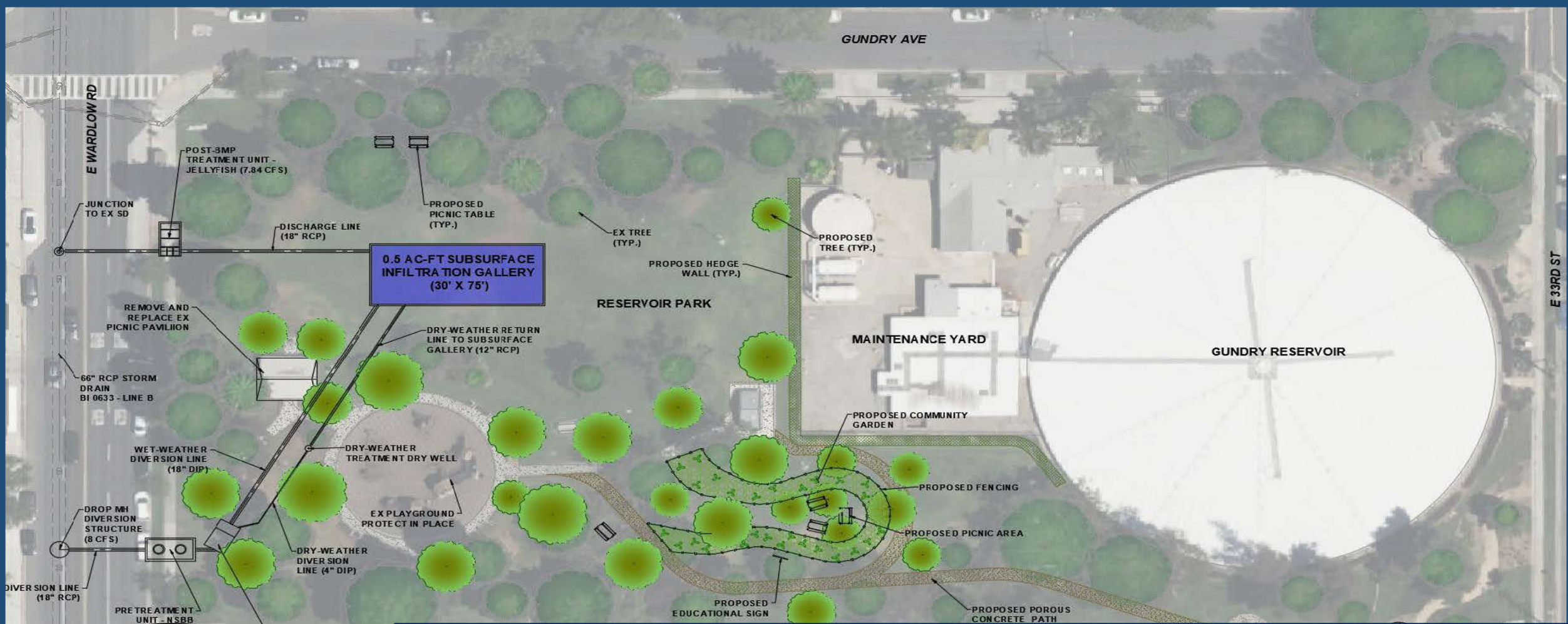


Project treats drainage area not currently serviced by other existing or funded regional projects.

Lynwood City Park Stormwater Capture Project

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Lynwood Park	253	148.6	72.5%	\$8,909

No interceding SCWP projects in drainage downstream prior to discharge at Compton Creek



Reservoir Park Stormwater Capture Project,

City of Signal Hill

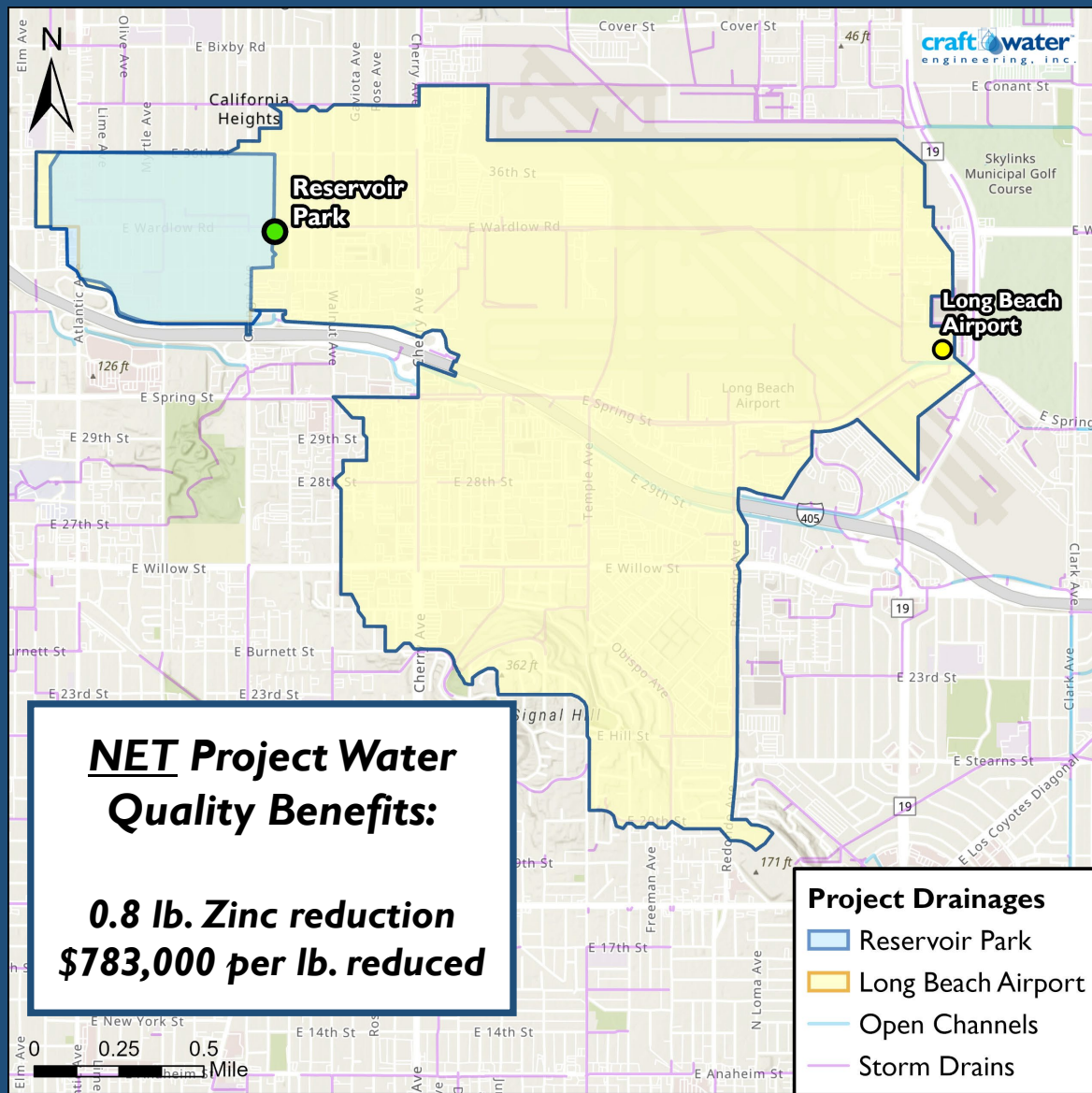
Storage Volume: 0.5 ac-ft

Diversion Rate: 8 cfs (BI0633 B)

Treatment: 0.3 in/hr infiltration + 7.84 cfs pumped filtration

Additional Features: Community garden, porous pathways, native tree/shrub plantings

WATERSHED CONTEXT

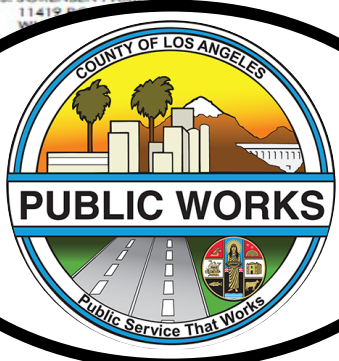
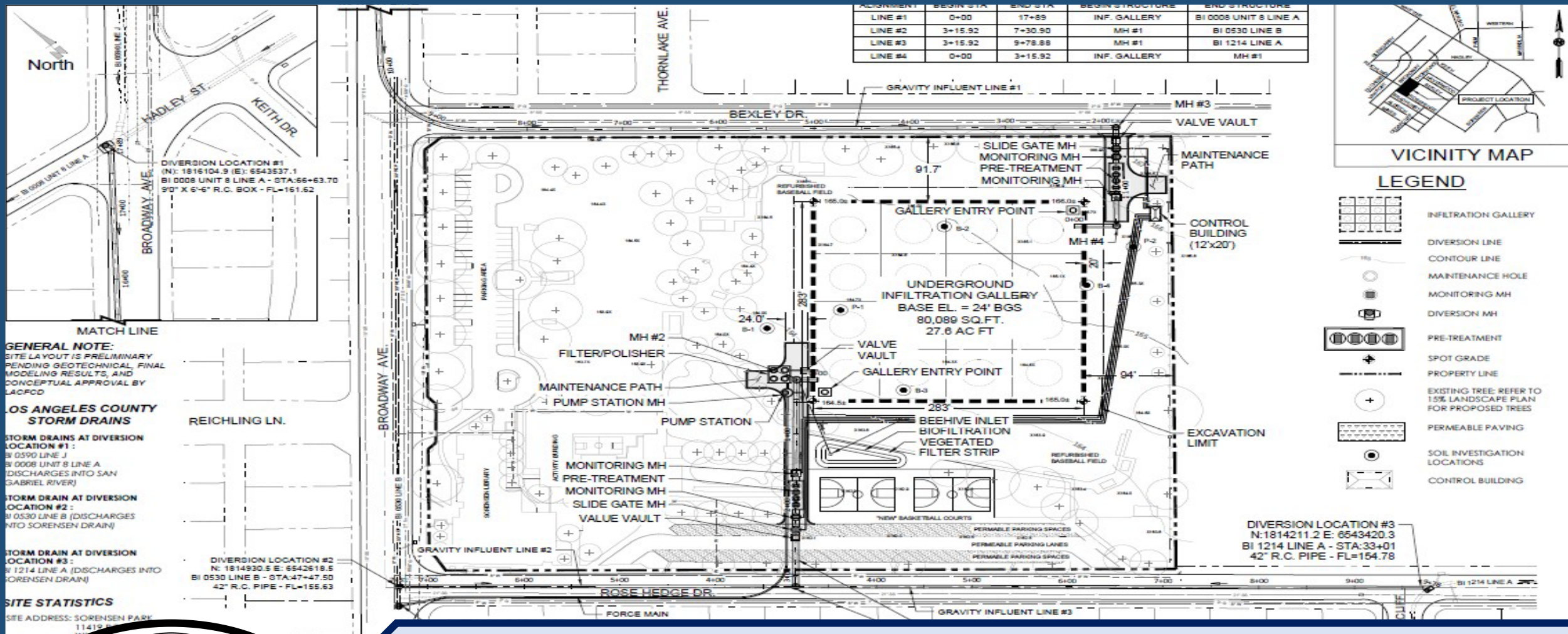


Project treats drainage upstream of Long Beach Airport and adds runoff treatment for the Los Cerritos Channel.

Reservoir Park Stormwater Capture Project

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Reservoir Park (Isolated)	40	36.3	68.8%	\$16,540
Reservoir Park (Net Watershed Benefits)	37	0.8	1.5%	\$783,078

Provides upstream auxiliary treatment for Long Beach Airport BMP (based on design sizing)



Sorensen Park Multi-Benefit Stormwater Capture Project,

Los Angeles County Public Works

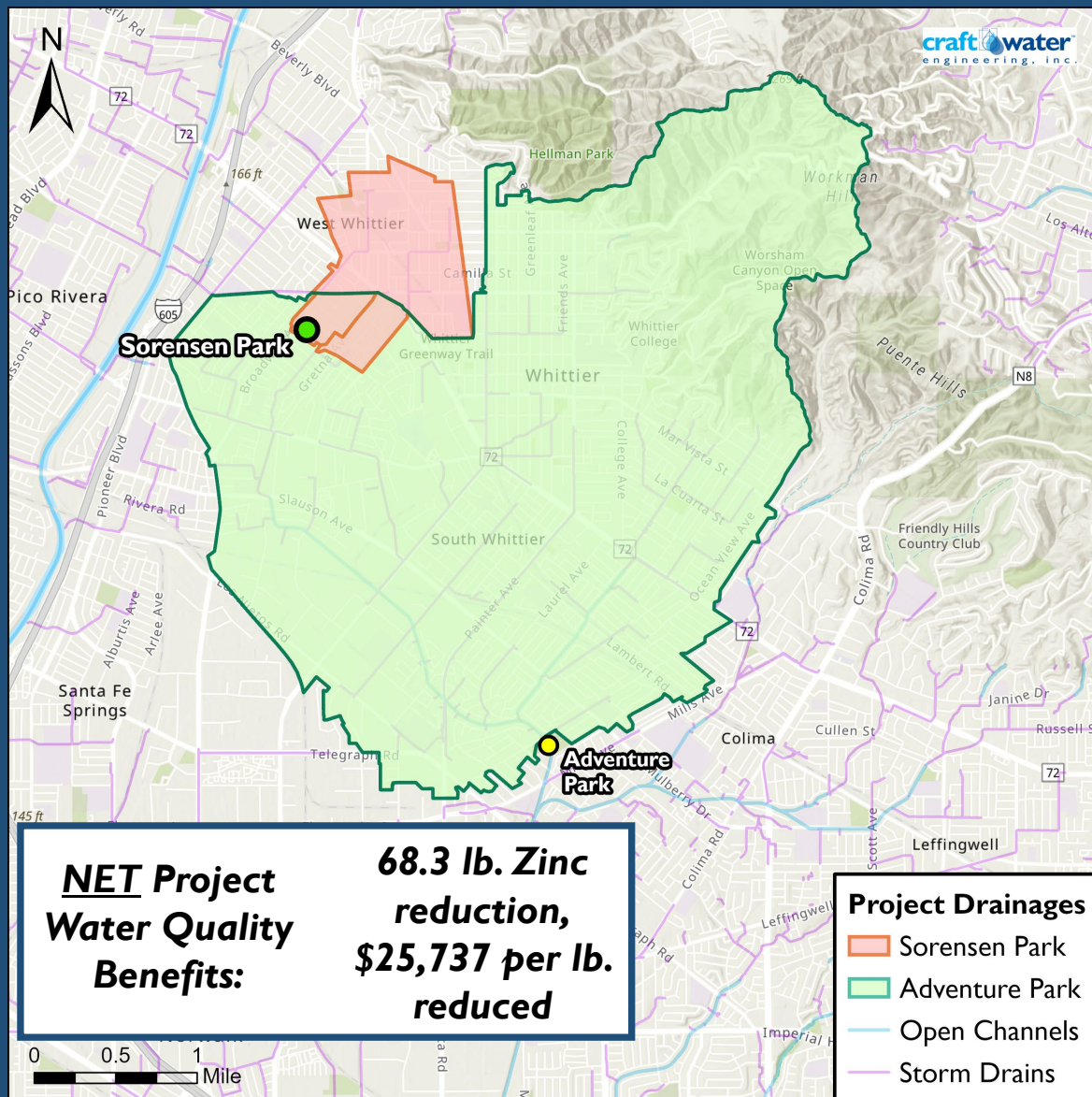
Storage Volume: 20.6 ac-ft

Diversion Rate: 50 cfs (BI 0590/BI008, No. 530 B, No. 1214 A)

Treatment: 1.90 in/hr infiltration

Additional Features: Park facility upgrades, surface biofiltration, native tree/shrub plantings

WATERSHED CONTEXT



Portion of project drainage area upstream of Adventure Park adding to treatment for the broader watershed.

Sorensen Park Multi-Benefit Stormwater Capture Project

Project	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Sorensen Park (Isolated)	131	66.0	93.3%	\$26,619
Sorensen Park (Net Watershed Benefits)	124	68.3	96.5%	\$25,737

Runoff captured at upstream Sorensen Park allows the BMP at Adventure Park to treat slightly more wet-weather runoff for a small increase in net watershed benefit

Year 5 SCWP Projects Analysis Summary

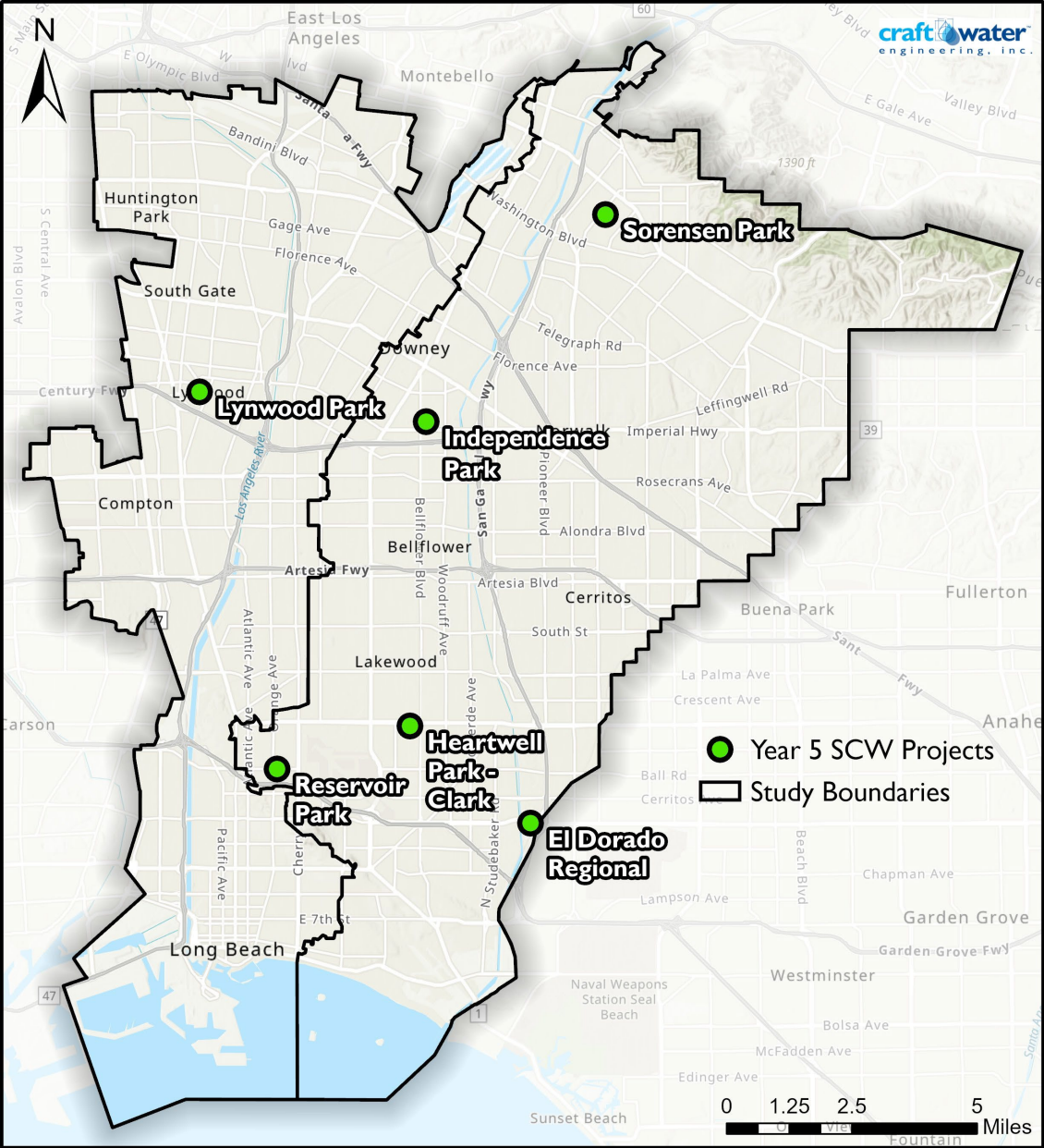


Table 8. Summary of analysis for LLAR project.

Project	Analyzed in Isolation (Maximum Performance)			Analyzed in Context of Other Projects (Minimum Performance)		
	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)	Avg. Annual <u>Net</u> Water Capture (AF/yr)	Avg. Annual <u>Net</u> Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)
Lynwood Park	263	148.6	\$8,909	263	148.6	\$8,909

Table 9. Summary of results for LSGR projects.

Project	Analyzed in Isolation (Maximum Performance)			Analyzed in Context of Other Projects (Minimum Performance)		
	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)	Avg. Annual <u>Net</u> Water Capture (AF/yr)	Avg. Annual <u>Net</u> Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)
El Dorado Park	474	265.4	\$7,351	474	265.4	\$7,351
Heartwell Park – Clark Channel	946	506.3	\$4,746	949	386.3	\$6,221
Independence Park	175	129.3	\$8,670	150	93.6	\$11,972
Reservoir Park	40	36.3	\$16,540	37	0.8	\$783,078
Sorensen Park	131	66.0	\$26,619	124	68.3	\$25,737

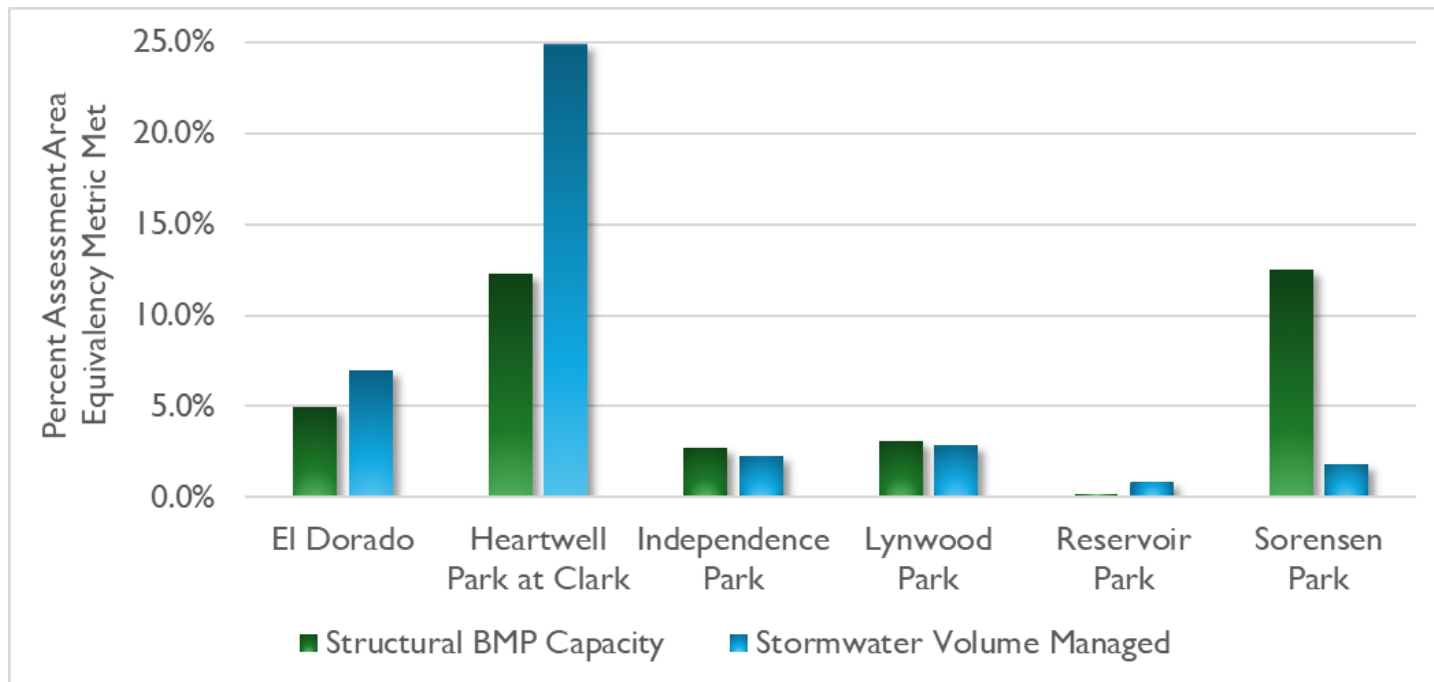
Year 5 SCWP Projects WMP Context

WMP Assessment Area	Project	Structural Project Capacity (ac-ft)	WY'15 Net Volume Managed by Project (ac-ft)	Percentage of Structural Capacity Met by Project	Percentage of Volume Management Met by Project
Los Cerritos Channel	Heartwell Park	30.0	903.2	12.2%	24.9%
	Clark Channel	0.50	30.9	0.2%	0.9%
Lower L.A. River	Lynwood Park	10.7	191.7	3.1%	2.9%
LSGR Coyote Creek	El Dorado Park	10.3	436.3	4.9%	7.0%
LSGR San Gabriel River	Independence Park	4.45	124.7	2.7%	2.3%
	Sorensen Park	20.6	100.3	12.5%	1.8%

BMPs summarized by contribution towards WMP equivalency metrics

- *Structural Capacity Volume*
- *Volume Managed (WY'15)*

*Metrics do not always indicate the same amount of progress for the same project, but their **magnitudes can give an indication of comparative benefits** from projects*



Year 5 SCWP Projects – Summary Memo

Gateway Area Pathfinding Technical Memo 2/2/23

CONTEXTUALIZING SCWP YEAR 5

To understand overall watershed progress and how the most recent projects compare with other existing or funded Projects, each project submitted for Year 5 of the SCWP Program was analyzed to determine both the isolated and combined performance of each project within the watershed in relation to other existing and funded projects. The net benefits for each proposed project within the study area, in relation to other existing or high probability projects provides a more true-to-life picture of the benefits at the watershed scale and allows for a more true-to-life picture of the benefits at the watershed scale and allows for a more true-to-life picture of the benefits at the watershed scale.

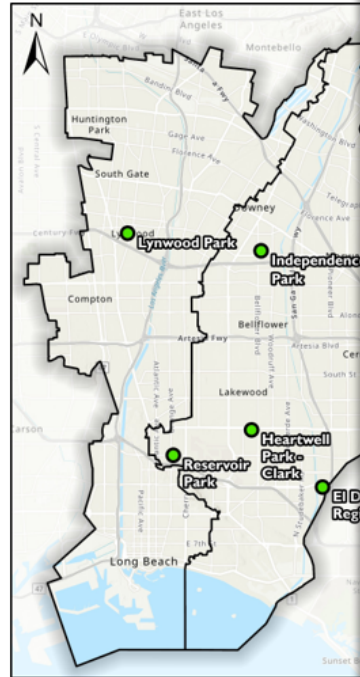


Figure 1. Locations of projects submitted for Year 5 of the SCWP Program.

MEMO

TO: Gateway Water Management Authority
FROM: Craftwater Engineering, Inc.
SUBJECT: Gateway Area Pathfinding Phase 2 Year 5 SCWP Project Context

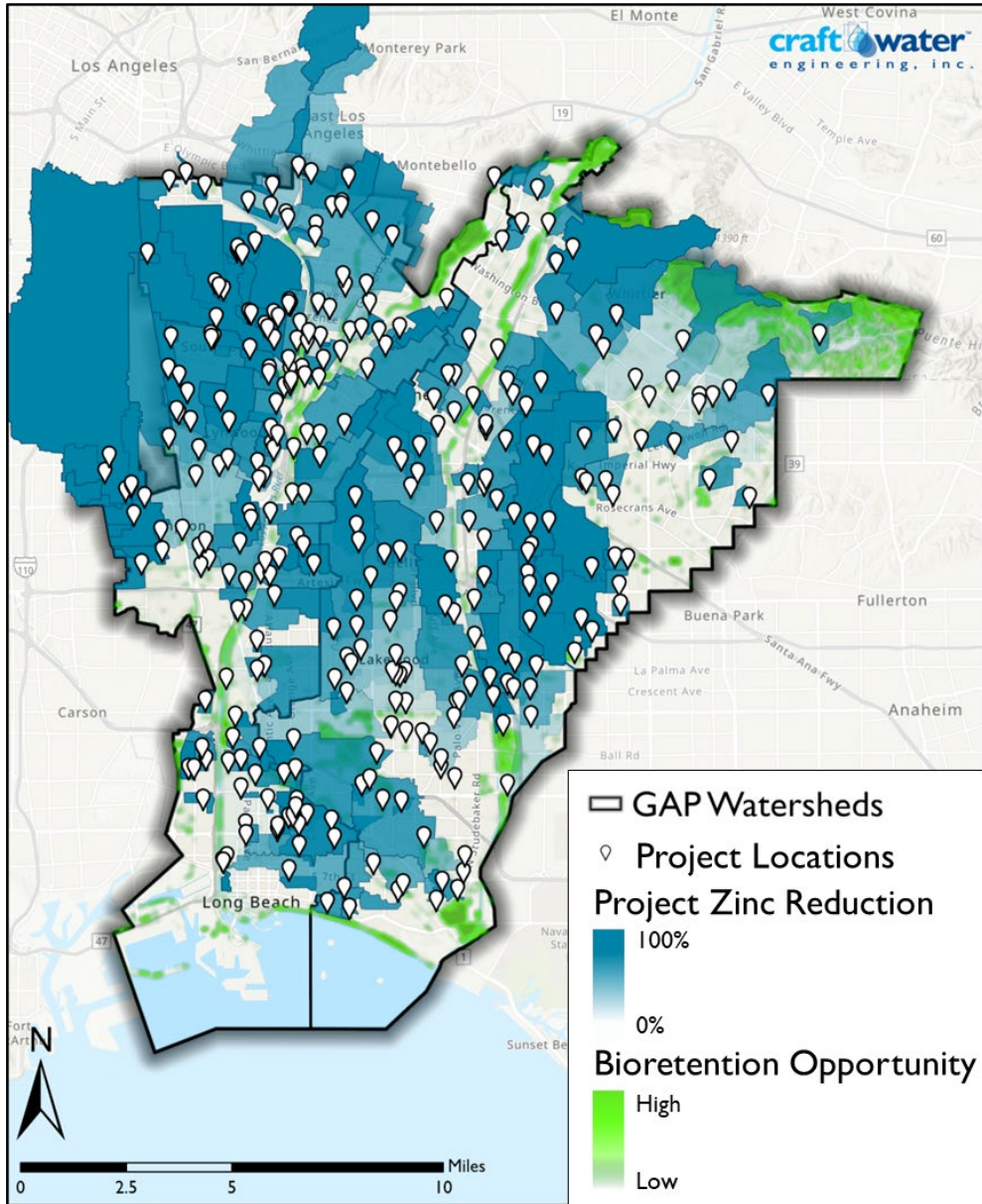
This memo presents the initial results of Phase 2 of the Gateway Area Pathfinding Study, conducted on behalf of the Gateway Groups (Lower LA River, Lower San Gabriel River, and Los Cerritos Channel Watershed Groups). *The results presented herein help to contextualize and compare the most recent SCWP Program submissions for Year 5 of the Program that will help decision makers better understand their options for regional stormwater capture in the context of previously funded or known constructed projects.* Submitted projects from these Groups for Year 5 of the SCWP Program include:

- El Dorado Park Regional Stormwater Capture Project,
- Heartwell Park at Clark Channel Stormwater Capture Project,
- Independence Park Runoff Capture Facility,
- Lynwood City Park Stormwater Capture Project
- Reservoir Park Stormwater Capture Project, and
- Sorensen Park Multi-Benefit Stormwater Capture Project.

Detailed in this memo are the potential runoff capture and water quality benefits for each project by itself and in the greater context of other SCWP Program funded projects or known constructed projects that are part of the overall watershed management system. *Results have been summarized in a way to present a useful understanding of how each project would contribute to the net overall water quality benefits for the respective watersheds.* These are provided with project-specific details and summarized for a programmatic evaluation of tradeoffs. For additional context, project contributions toward Watershed Management Plan goals and metrics are computed. Also included are separate Fact Sheets for each project, providing quick references for the Groups to evaluate the potential for each of these projects to contribute to the overall goals of the Gateway Groups efforts to create positive watershed outcomes.



GAP Phase 2 Longer-Term Implementation



Project discovery from Phase 1 will be leveraged to answer:

- How far along are we now?*
- How much farther to go?*
- By which metrics?*
- Where are the gaps?*
- What are some long-term implementation pathways?*
 - All large regional projects? (build big and fast)*
 - Distributed, mid-sized regionals? (spread the love)*
 - Fully distributed local capture? (lean, mean, green)*

*Answers to these questions and implementation endpoints will provide a **range of options and key projects to pursue across the watershed and scale** to better guide the next round of projects to move forward and help meet a range of diverse needs and goals*



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e n g i n e e r i n g , i n c .

**DRAFT**

MEMO

TO: Gateway Water Management Authority

FROM: Craftwater Engineering, Inc.

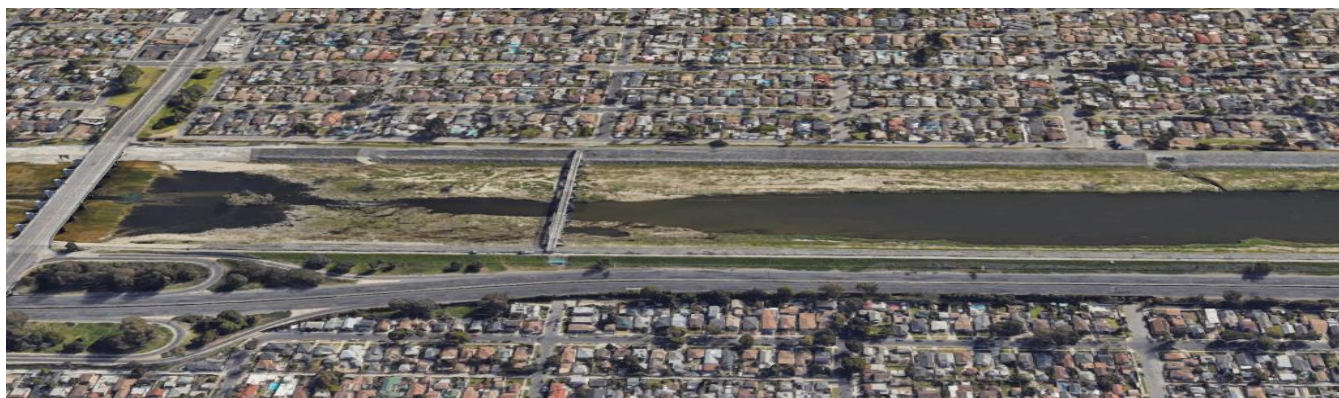
SUBJECT: Gateway Area Pathfinding Phase 2 Year 5 SCWP Project Context

This memo presents the initial results of Phase 2 of the Gateway Area Pathfinding Study, conducted on behalf of the Gateway Groups (Lower LA River, Lower San Gabriel River, and Los Cerritos Channel Watershed Groups).

The results presented herein help to contextualize and compare the most recent SCW Program submissions for Year 5 of the Program that will help decision makers better understand their options for regional stormwater capture in the context of previously funded or known constructed projects. Submitted projects from these Groups for Year 5 of the SCW Program include:

- El Dorado Park Regional Stormwater Capture Project,
- Heartwell Park at Clark Channel Stormwater Capture Project,
- Independence Park Runoff Capture Facility,
- Lynwood City Park Stormwater Capture Project
- Reservoir Park Stormwater Capture Project, and
- Sorensen Park Multi-Benefit Stormwater Capture Project.

Detailed in this memo are the potential runoff capture and water quality benefits for each project by itself and in the greater context of other SCW Program funded projects or known constructed projects that are part of the overall watershed management system. ***Results have been summarized in a way to present a useful understanding of how each project would contribute to the net overall water quality benefits for the respective watersheds.*** These are provided with project-specific details and summarized for a programmatic evaluation of tradeoffs. For additional context, project contributions toward Watershed Management Plan goals and metrics are computed. Also included are separate Fact Sheets for each project, providing quick references for the Groups to evaluate the potential for each of these projects to contribute to the overall goals of the Gateway Groups efforts to create positive watershed outcomes.



CONTEXTUALIZING SCWP YEAR 5 PROJECTS

To understand overall watershed progress and how the most recently developed project concepts would fit in with other existing or funded Projects, each project submitted to the SCW Program for Year 5 funding was analyzed to determine both the isolated and combined performance given its design characteristics and location within the watershed in relation to other existing and funded projects. This information aids in contextualizing the net benefits for each proposed project within the study area (**Figure 1**). Evaluating each of these projects in relation to other existing or high probability projects provides a better understanding of the net water quality benefits at the watershed scale and allows for a more true-to-implementation comparison of these options.

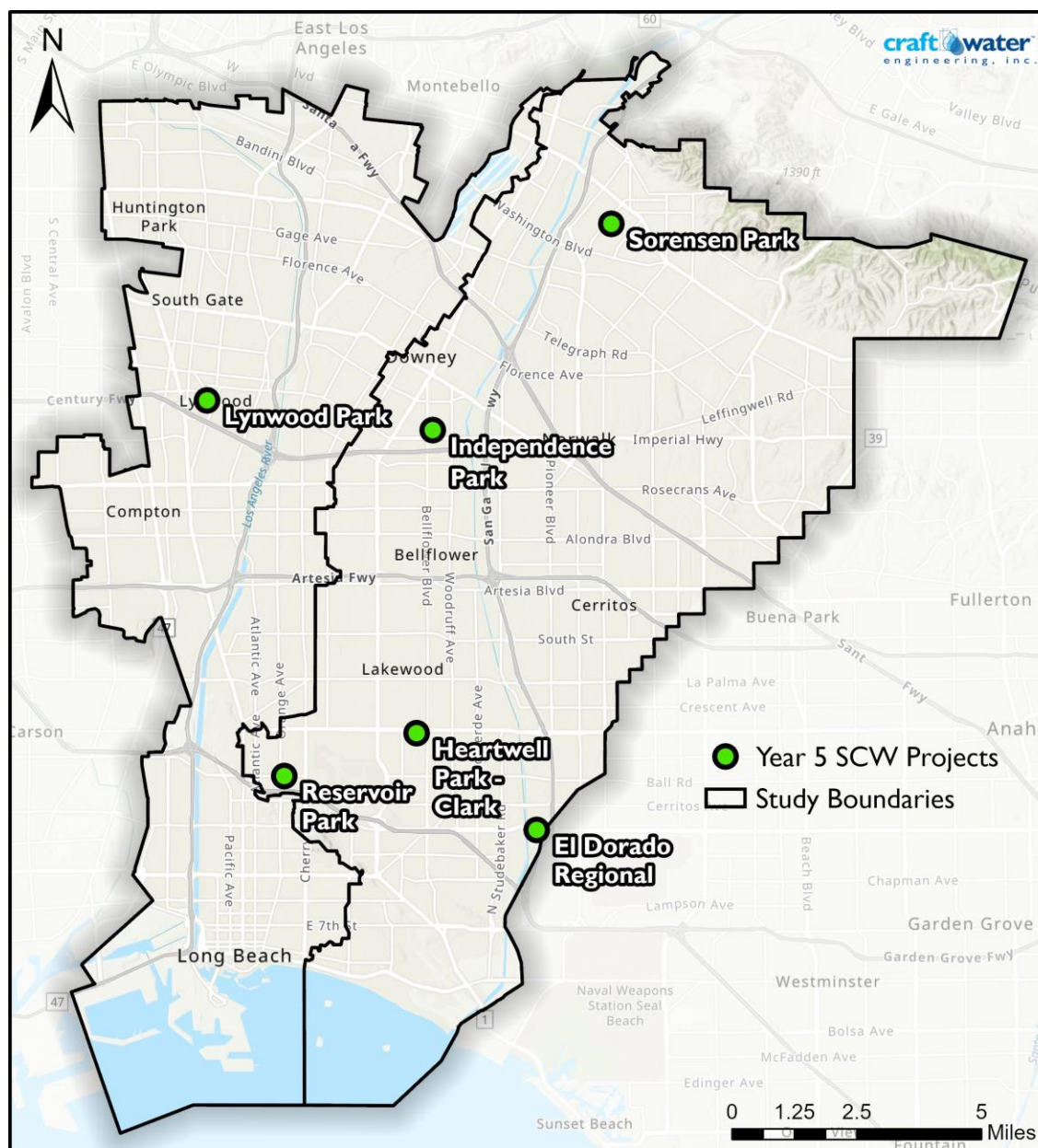


Figure 1. Locations of projects submitted in Year 5 of the SCW Program.

To evaluate the Year 5 SCW Program projects in their watershed context, project modeling was conducted using the most up to date information and baseline understanding of watershed hydrology and water quality as possible. ***The following summary provides important details to understand how these evaluations were conducted, the data and models used, and other underlying assumptions made to develop the performance metrics and evaluators contained herein:***

- Project attributes relevant to BMP sizing, configuration, and treatment were adapted from SCW Program project applications and the values provided within them for all Year 5 projects and previously funded interacting projects as well. The lone exception to this was the Long Beach Airport project in the same drainage area as Reservoir Park. Project attributes for this were taken from the most recent LCC Watershed Management Program (WMP) update (2021).
- Baseline hydrology and water quality models from the most recent WMP updates for the Gateway Groups were used for all modeling. Models were run for Water Years 2010 to 2019 and statistics presented (except where noted) are based on average annual values over this time period.
- Drainage areas to each project diversion were utilized explicitly from design information where available or georeferenced using SCW Program application maps in GIS where not.
- Pollutant percent reductions, either explicit or net, are calculated in reference to the Year 5 project baseline loadings for all projects with no upstream interacting projects. The one exception is Heartwell Park at Clark Channel which has several projects upstream of it. For this context, the percent reduction was calculated with the revised baseline loading that might be expected to this project given that upstream projects are operational.
- Cost effectiveness metrics (dollars per pound zinc reduced) were calculated using the SCW Program module annualized life-cycle cost from each project application, pairing the annualized cost with the annual pollutant load reduction for comparison.
- The multiple diversions to the Sorensen Park Multi-Benefit Stormwater Capture Project manage water from both the Coyote Creek and San Gabriel River assessment areas, making its contributions difficult to parse without a better understanding of what diversion operations for this BMP will be. While it is slated to interact with BMPs in the Coyote Creek assessment area, the majority of its drainage (75%) drains to the San Gabriel River. As such, it will be contextualized in terms of targets for that assessment area for purposes of this memo.
- Project interactions are a product of watershed position, how runoff is generated within a watershed, and where pollutants are expected to derive from in baseline models. Runoff capture, treatment, and intervention shifts these dynamics and BMP models provide an indication of how these dynamics may result in overall watershed contributions. These interactions were modeled using specified project attributes and understandings. However, ***realistic outcomes may differ according to how closely implemented projects operate and perform relative to their design attributes.***
- Not all projects may be designed for the same purposes or according to the same metrics. ***The assessment contained herein focuses on water quality benefits assessed at the watershed scale. However, all projects should be evaluated for the full suite of purposes, benefits, and contributions that they provide given the diverse aims and needs of each contributing drainage area and agencies.***

The following sections present and briefly discuss the watershed context and tradeoffs for each Year 5 project with summary tables following for reference and comparison.

1.1 El Dorado Park Regional Stormwater Capture Project

The El Dorado Regional Stormwater Capture Project treats a drainage area (**Figure 2**) that is not currently serviced by any other known or funded projects before it discharges to the receiving water. The construction of this Projects would increase total removed pollutant loads for the Lower San Gabriel River (LSGR) watershed with no known interceding capture projects to be considered. Thus, the full benefits of the project, summarized in **Table 1**, would be a net outcome for the watershed goals.

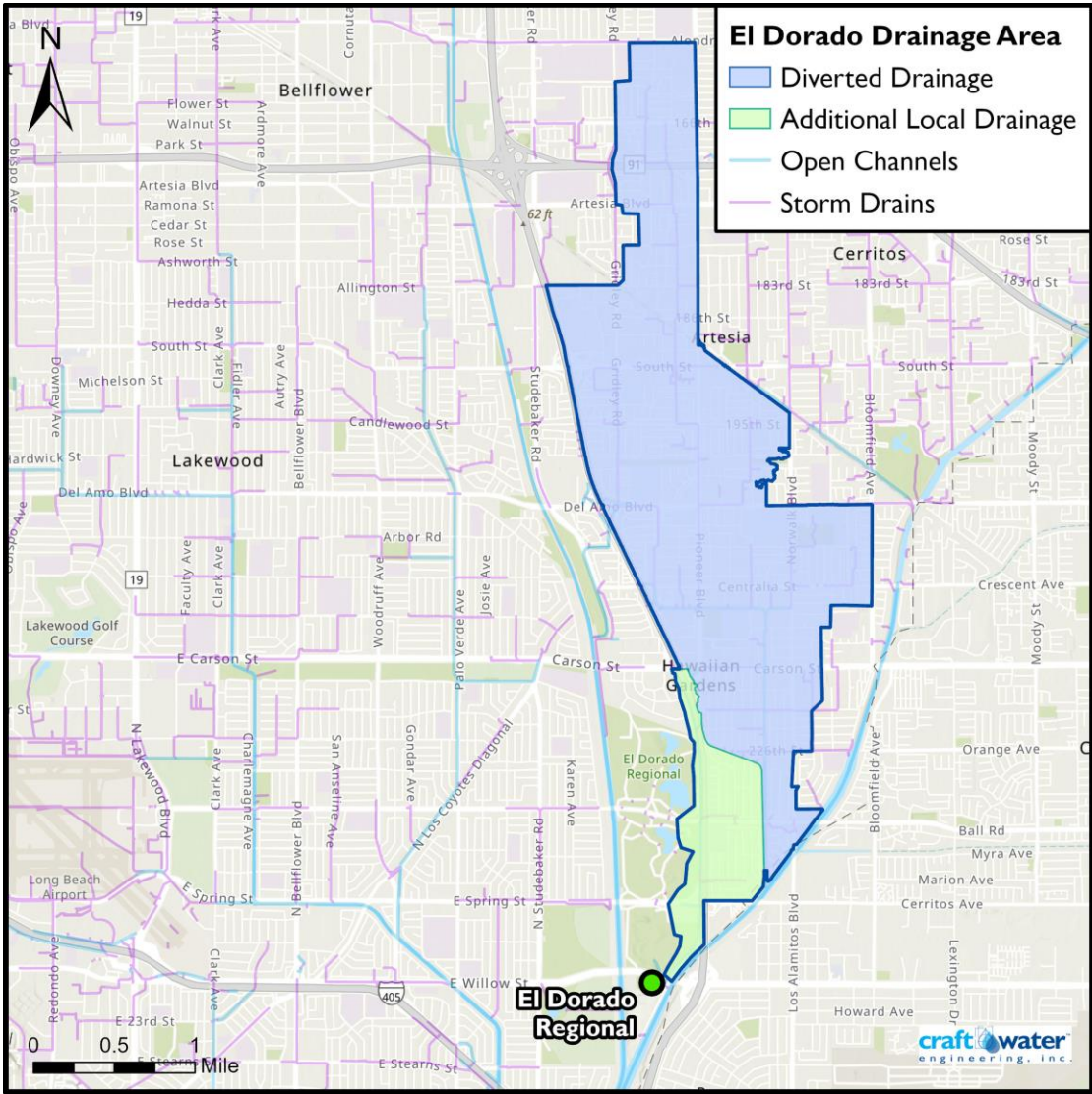


Figure 2. Drainage area for El Dorado Park Regional Project.

Table 1. Performance for the El Dorado Park Regional Project.

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
El Dorado Park	474	265.4	26.6%	\$7,351

1.2 Heartwell Park at Clark Channel Stormwater Capture Project

The proposed project at Heartwell Park diverting water from the Clark Channel is part of a system of planned, funded, and existing projects in the Los Cerritos Channel (LCC) watershed that includes projects at Progress Park, Simms Park, Mayfair Park, and Bolivar Park upstream of this projects location (**Figure 3**). No other projects are currently slated downstream of this project in the watershed. **Table 2** shows that while the upstream projects do reduce the potential of this project to treat its full drainage area, these projects function together as a system to provide a substantial net benefit for the LCC watershed as a whole.

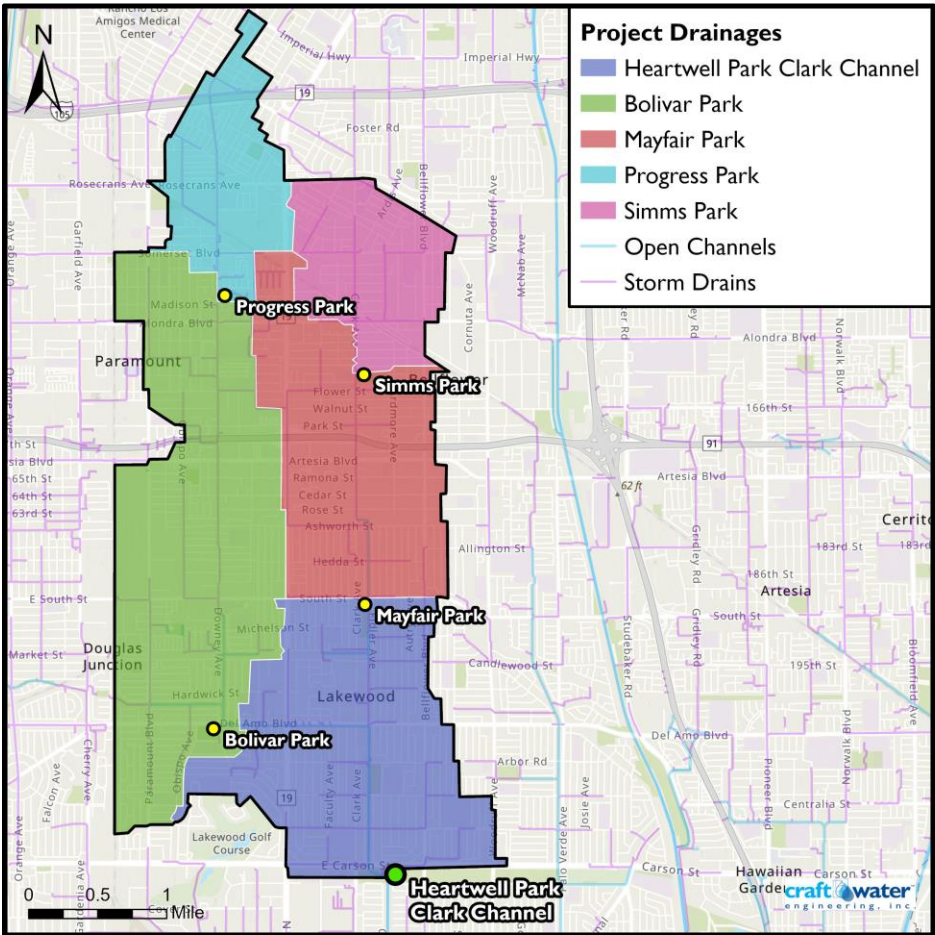


Figure 3. Drainage area context for projects upstream of Heartwell Park at Clark Channel.

Table 2. Performance for the project at Heartwell Park diverting from the Clark Channel.

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Heartwell Park – Clark Channel (isolated)	946	506.3	39.8%	\$4,746
Heartwell Park – Clark Channel (net w. Upstream system of BMPs)	949	386.3	44.1%	\$6,221

1.3 Independence Park Runoff Capture Facility

The Independence Park project is located upstream of a diversion to the Caruthers Park BMP just upstream of the Lower San Gabriel River as displayed in **Figure 4**. While this will not impact the performance of the Independence Park project itself, net benefits for the addition of this project to the watershed have been evaluated to account for any impacts to runoff capture/treatment at Caruthers Park that may occur (**Table 3**).

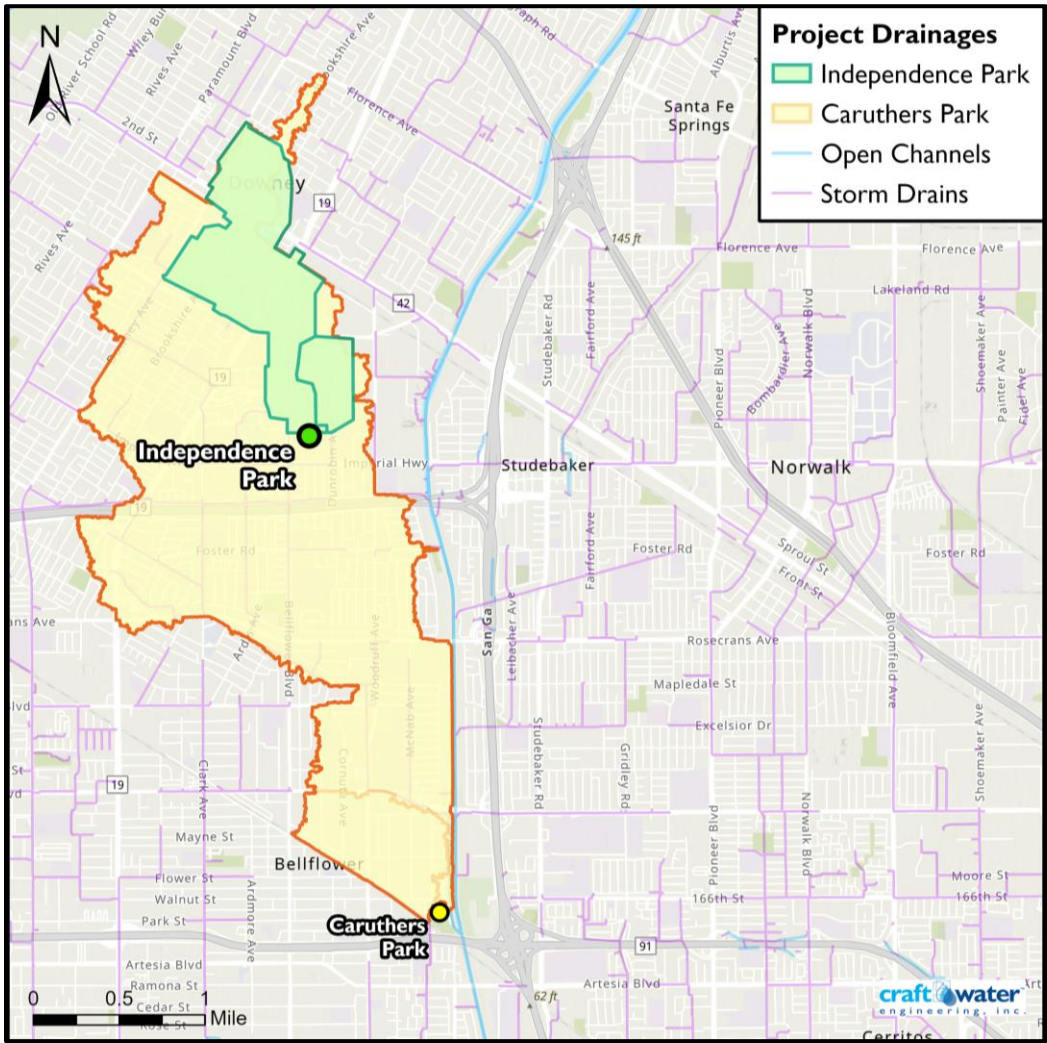


Figure 4. Drainage areas from submissions for the Independence Park project upstream of Caruthers Park.

Table 3. Performance of Independence Park within the context of Caruthers Park.

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Independence Park (Isolated)	175	129.3	78.3%	\$8,670
Independence Park (Net Watershed Benefits)	150	93.6	56.7%	\$11,972

1.4 Lynwood City Park Stormwater Capture Project

Lynwood Park is located at the top of a drainage area draining to the Lower L.A. River (LLAR) downstream with no known funded or existing BMPs interceding before the receiving water (**Figure 5**). Like the project at El Dorado Park, the performance of this projects is expected to be a net benefit to the watershed without further consideration (**Table 4**).

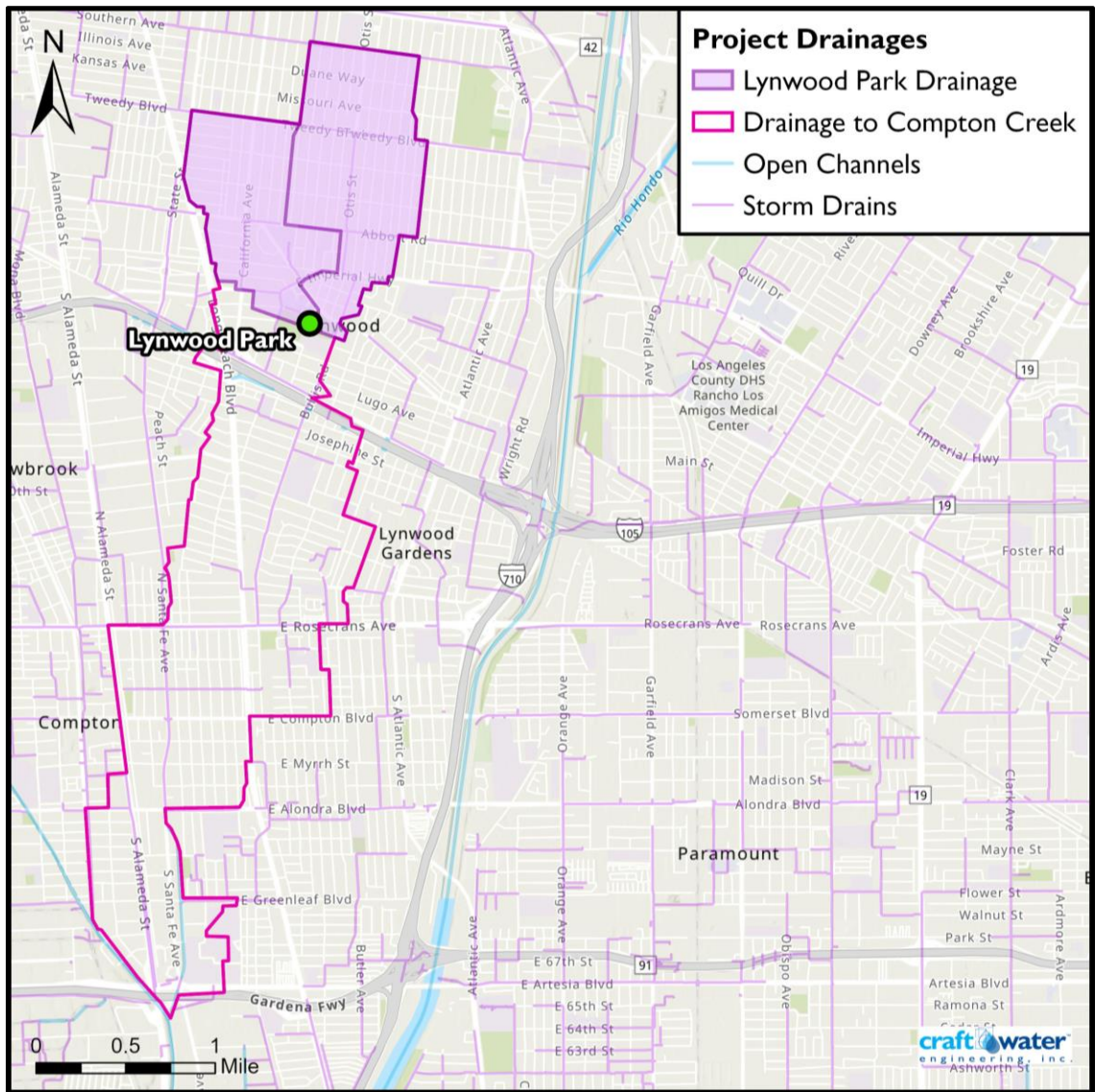


Figure 5. Potential drainage area for the Lynwood Park Project.

Table 4. Potential performance of the Lynwood Park Project.

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Lynwood Park	253	148.6	72.5%	\$8,909

1.5 Reservoir Park Stormwater Capture Project

The drainage area For Reservoir Park is nested within the drainage area of the existing Long Beach Airport BMP shown in **Figure 6**. While this project would provide treatment for its local drainage area, the size and position within the drainage area of the existing Long Beach Airport BMP impacts the net pollutant reduction benefits for the drainage area as a whole (**Table 5**), given filtered clean water is subsequently captured by the Long Beach Airport BMP.

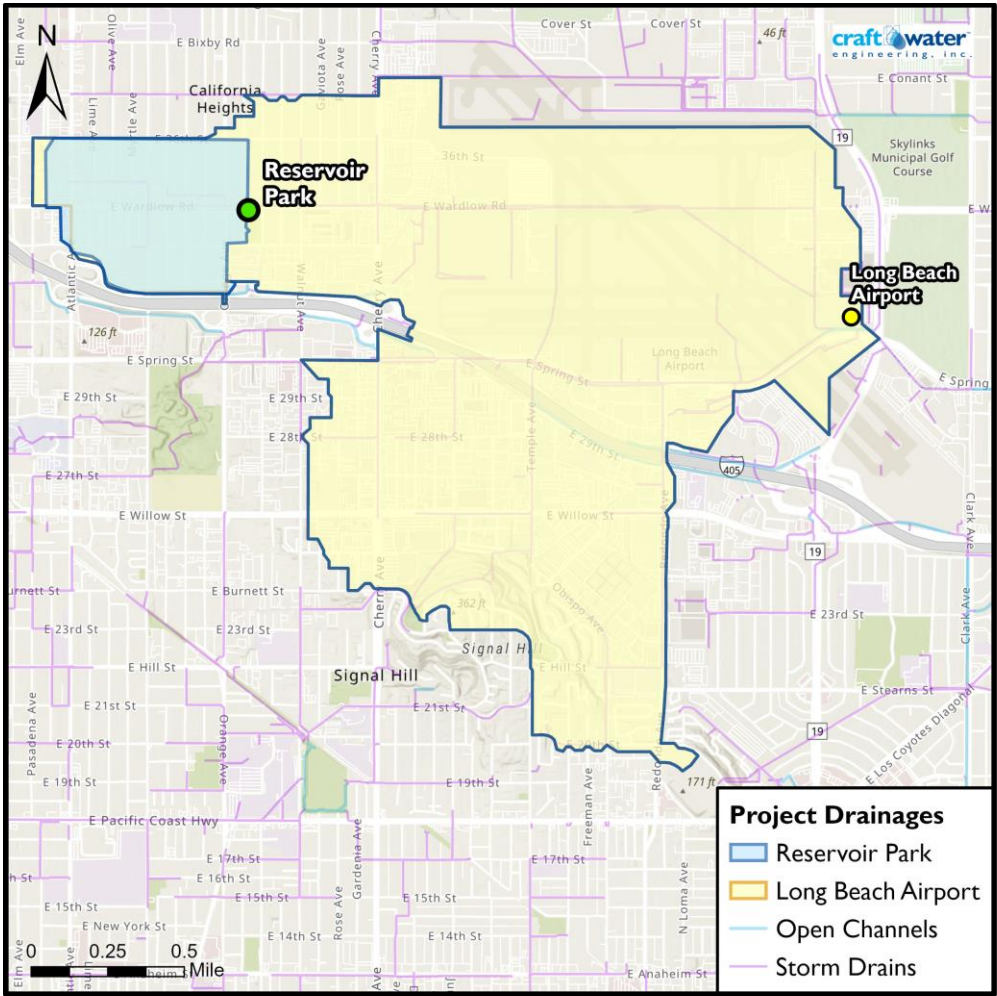


Figure 6. Drainage areas from submissions for Reservoir Park upstream of the Long Beach Airport BMP.

Table 5. Potential performance of Reservoir Park in conjunction with the Long Beach Airport BMP.

Project Context	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Reservoir Park (Isolated)	40	36.3	68.8%	\$16,540
Reservoir Park (Net Watershed Benefits)	37	0.8	1.5%	\$783,078

1.6 Sorensen Park Multi-Benefit Stormwater Capture Project

The proposed Sorensen Park project has several diversions, two of which divert runoff upstream of the Adventure Park BMP (**Figure 7**). These two diversions are far upstream of the Adventure Park BMP, and while they might reduce runoff captured at Adventure Park slightly, they have the potential to provide a synergistic benefit to the Adventure Park project itself based on modeled runoff and pollutant dynamics (**Table 6**).

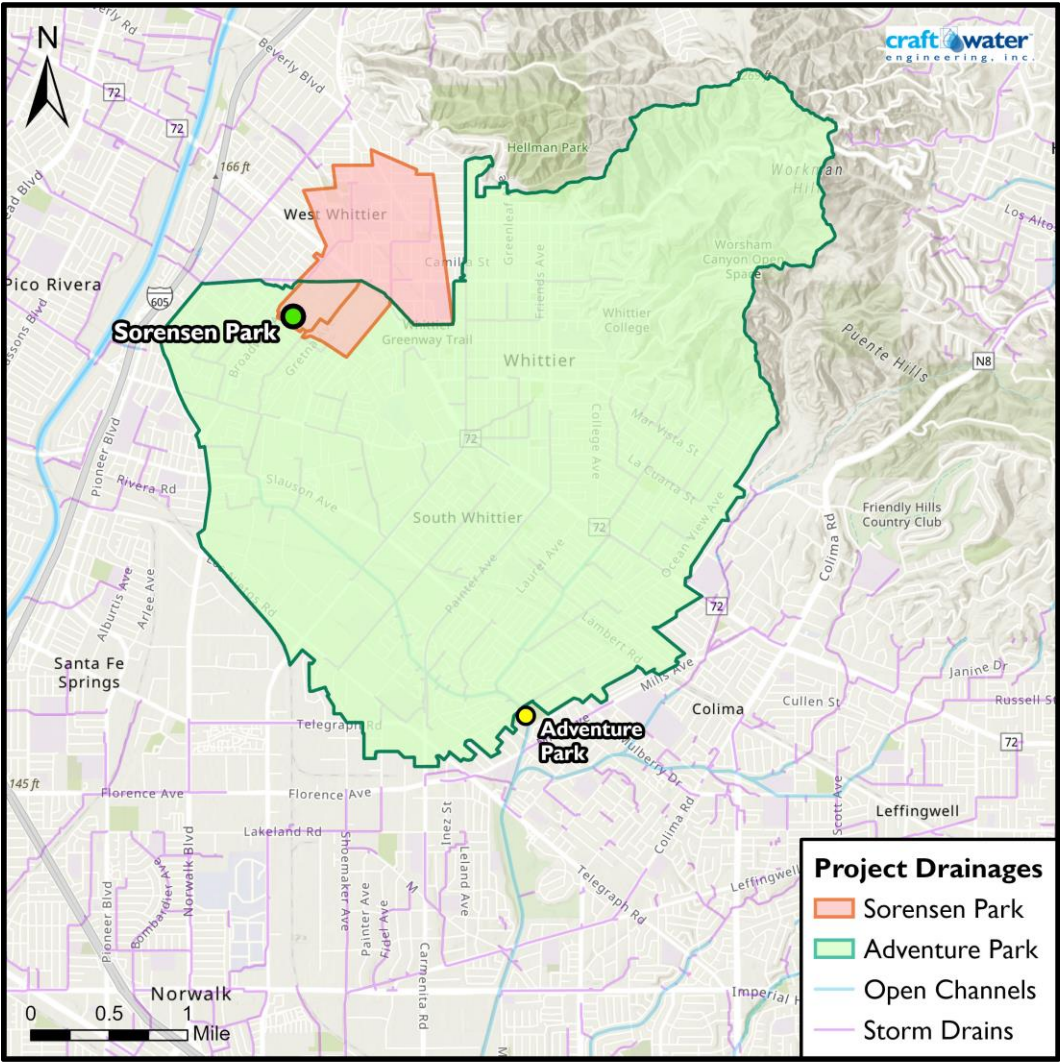


Figure 7. Sorensen Park drainage area, a portion of which is upstream of Adventure Park.

Table 6. Potential performance of Sorensen Park given the context of Adventure Park.

Project	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Percent Zinc Reduction (%)	Dollars per Zn Reduction (\$/lb)
Sorensen Park (Isolated)	131	66.0	93.3%	\$26,619
Sorensen Park (Net Watershed Benefits)	124	68.3	96.5%	\$25,737

1.7 Watershed Management Plan Context

In evaluating each of these projects, it is also valuable to contextualize them in terms of different metrics for success that may be relevant given watershed target-setting and demonstrations of progress. To do this, the projects have each been assessed according to the prevailing understanding of compliance needs as determined by the most recent Watershed Management Plan updates. **Table 7** summarizes project contributions and how they contribute to WMP established equivalency metrics for bacteria. Bacteria metrics were chosen because they are the most conservative goals for watershed stormwater management and are applicable in all assessment areas for the study area. **Figure 8** shows how the portion of each target and metric is met by the project and may sometime vary for a given project based on its overall contributions to the watershed.

Table 7. Summary of project contributions to WMP Compliance Targets.

WMP Assessment Area	Project	Structural Project Capacity (ac-ft)	WY'15 Net Volume Managed by Project (ac-ft)	Percentage of Structural Capacity Met by Project	Percentage of Volume Management Met by Project
Los Cerritos Channel	Heartwell Park Clark Channel	30.0	903.2	12.2%	24.9%
	Reservoir Park	0.50	30.9	0.2%	0.9%
Lower L.A. River	Lynwood Park	10.7	191.7	3.1%	2.9%
LSGR Coyote Creek	El Dorado Park	10.3	436.3	4.9%	7.0%
LSGR San Gabriel River	Independence Park	4.45	124.7	2.7%	2.3%
	Sorensen Park	20.6	100.3	12.5%	1.8%

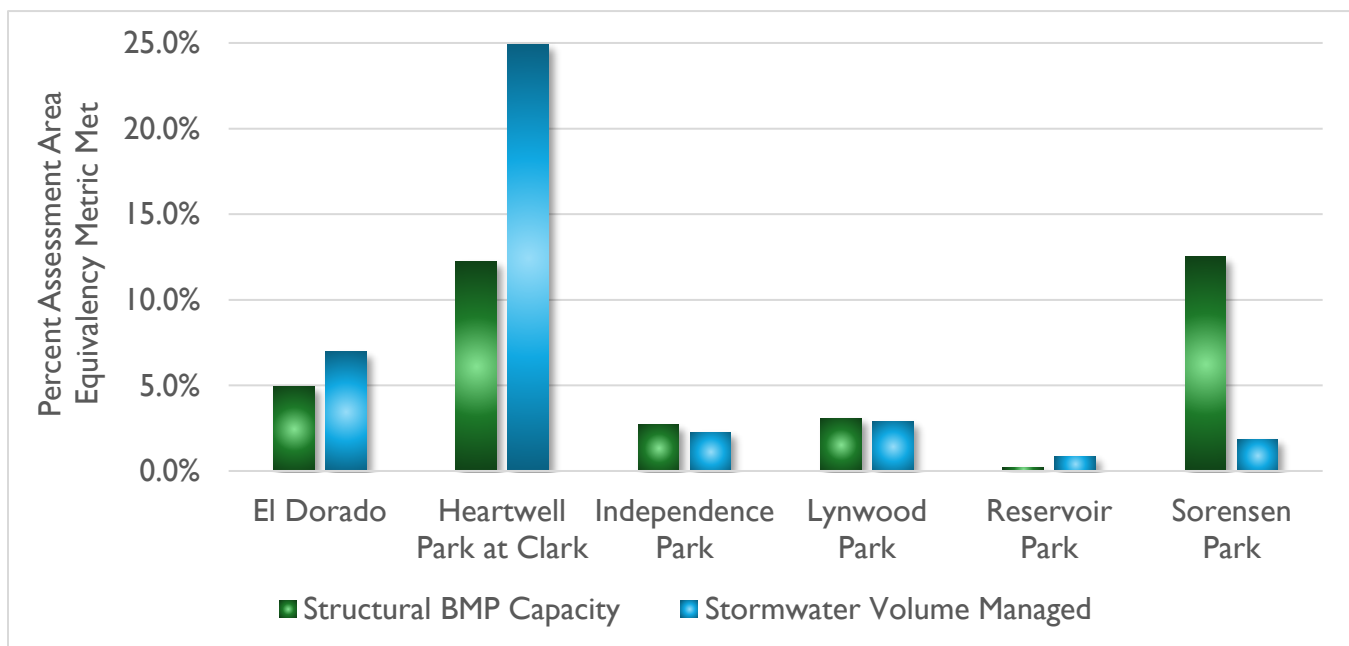


Figure 8. Comparison of equivalency metrics met by project.

1.8 Project Context Summary

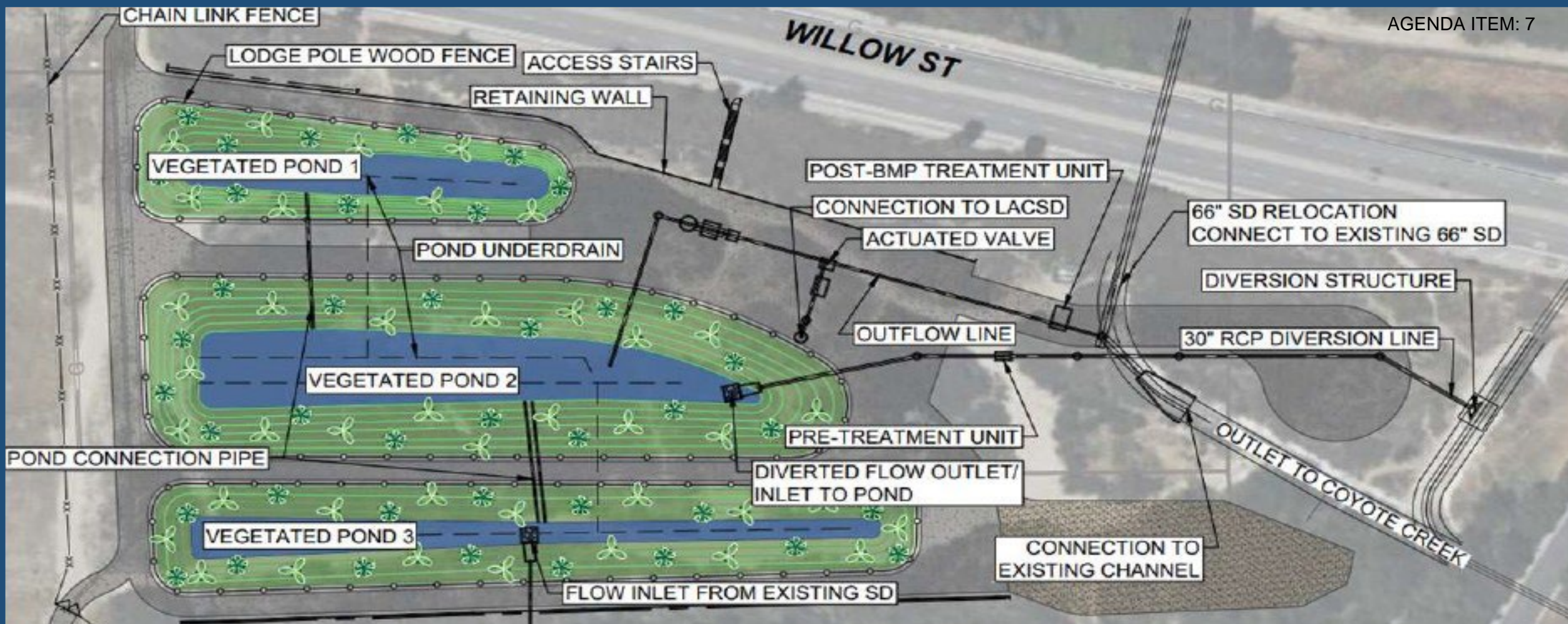
The evaluation of the Year 5 SCW Program projects is summarized below in **Table 8** for the LLAR submitted project and **Table 9** for the LSGR submitted projects. These tables summarize the full potential performance for each project (left columns) and the net watershed benefits (right columns) assuming other known, funded, or existing projects are implemented and operational per their reported design parameters. The information in these tables (along with the WMP context provided in the previous section) can be used to evaluate tradeoffs, differences in potential contributions by each project, and how these projects stand to work together as a system to treat their respective watersheds to the standards that each Watershed Group and contributing agency hope to realize in implementing this valuable watershed infrastructure. ***Note that, even though some projects may interact with upstream or downstream projects, all projects beneficially contribute towards meeting watershed goals. The analyses were conducted based on data provided via the SCW Program portal and the methods presented herein, and only evaluated runoff volume and pollutant capture; the results should be considered in the context of all other information provided by project developers, such as Community Investment Benefits and other SCW Program Goals that were not assessed during this study.***

Table 8. Summary of analysis for LLAR project.

Project	Analyzed in Isolation (Maximum Performance)			Analyzed in Context of Other Projects (Minimum Performance)		
	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)	Avg. Annual <u>Net</u> Water Capture (AF/yr)	Avg. Annual <u>Net</u> Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)
Lynwood Park	263	148.6	\$8,909	263	148.6	\$8,909

Table 9. Summary of results for LSGR projects.

Project	Analyzed in Isolation (Maximum Performance)			Analyzed in Context of Other Projects (Minimum Performance)		
	Avg. Annual Water Capture (AF/yr)	Avg. Annual Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)	Avg. Annual <u>Net</u> Water Capture (AF/yr)	Avg. Annual <u>Net</u> Zinc Reduction (lbs/yr)	Dollars per Potential Zn Reduction (\$/lb)
El Dorado Park	474	265.4	\$7,351	474	265.4	\$7,351
Heartwell Park – Clark Channel	946	506.3	\$4,746	949	386.3	\$6,221
Independence Park	175	129.3	\$8,670	150	93.6	\$11,972
Reservoir Park	40	36.3	\$16,540	37	0.8	\$783,078
Sorensen Park	131	66.0	\$26,619	124	68.3	\$25,737



El Dorado Park Regional Stormwater Capture Project,

City of Long Beach



El Dorado Park Regional Stormwater Capture Project,

City of Long Beach

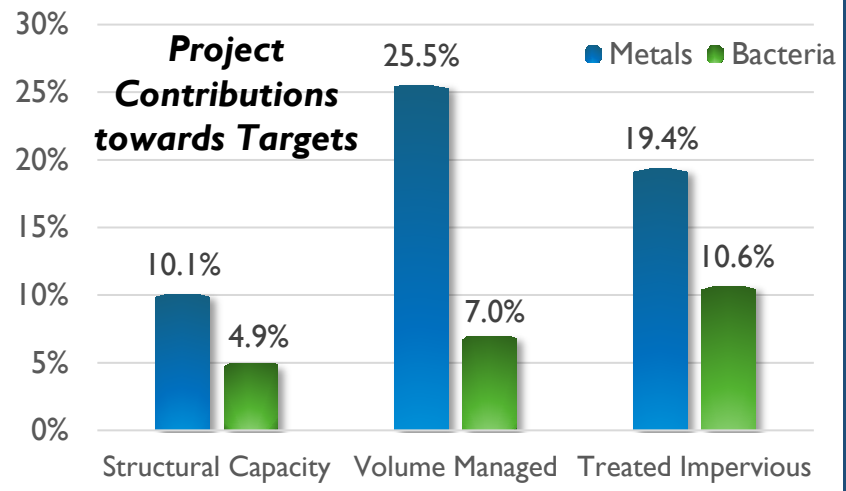
Storage Volume: 10.3 ac-ft

Diversion Rate: 20 cfs (Artesia Norwalk Channel)

Treatment: 7.84 cfs to sanitary sewer (dry weather) + 7.84 cfs filtration (wet weather)

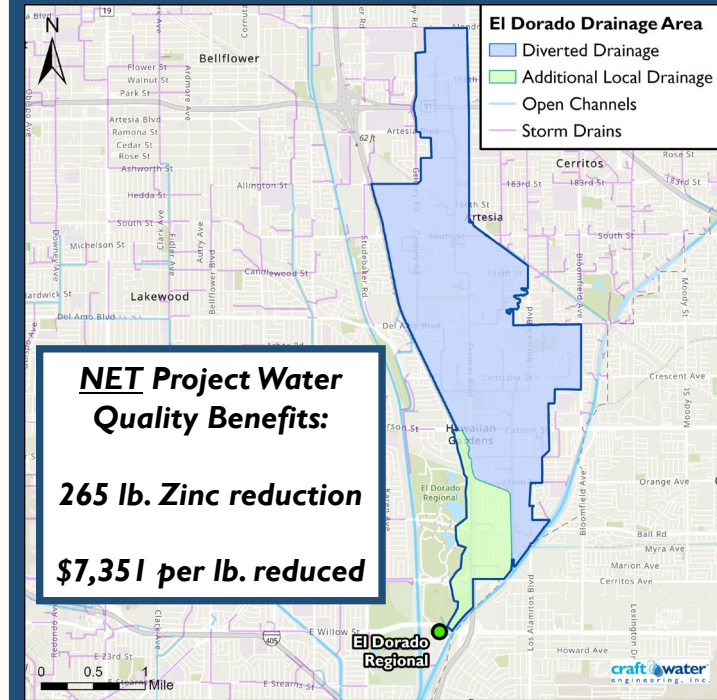
Additional Features: Vegetated surface ponds, walking paths, native tree/shrub plantings

WMP CONTEXT



WMP Metric	LSGR Coyote Creek Metals Target	LSGR Coyote Creek Bacteria Target
Structural	102.33 ac-ft	208.40 ac-ft
Volumetric	1,709 ac-ft (WY15)	6,276 ac-ft (WY15)
Treated Area	7,162 acres	13,021 acres

WATERSHED CONTEXT

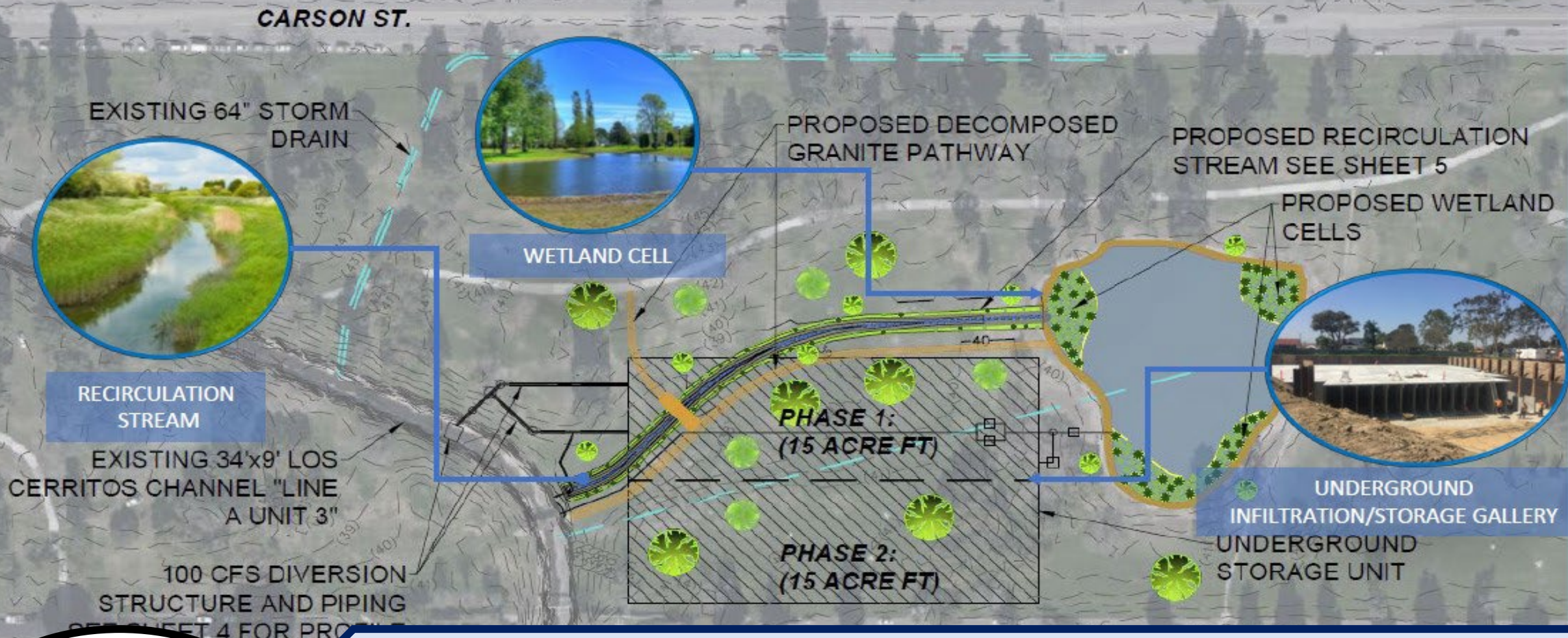


Project treats drainage area not currently serviced by other existing or funded regional projects.

SAFE CLEAN WATER CONTEXT

Score	Project Criteria	Project Value(s)	Points
Water Quality Part 1 (Dry-Weather)	Captures all dry-weather flows	Affirmative	20
Water Quality Part 2 (Dry-Weather)	Tributary Size	>200 acres	20
Water Supply Part 1	(Annualized Project Cost)/ (Avg. Annual Water Supply)	$\frac{\$1,950,960}{163} = \$11,969/\text{ac-ft}$	6
Water Supply Part 2	Avg. Annual Water Supply Provided	163 ac-ft	8
Other Scores	Community Investment, Nature-Based Solutions, & Leveraging Funds	See SCWP Submission for Details	16
TOTAL			70

NOTE: Water Supply Scores developed using Alternative Scoring Rubric



Heartwell Park at Clark Channel Stormwater Capture Project,

City of Long Beach



Heartwell Park at Clark Channel Stormwater Capture Project,

City of Long Beach

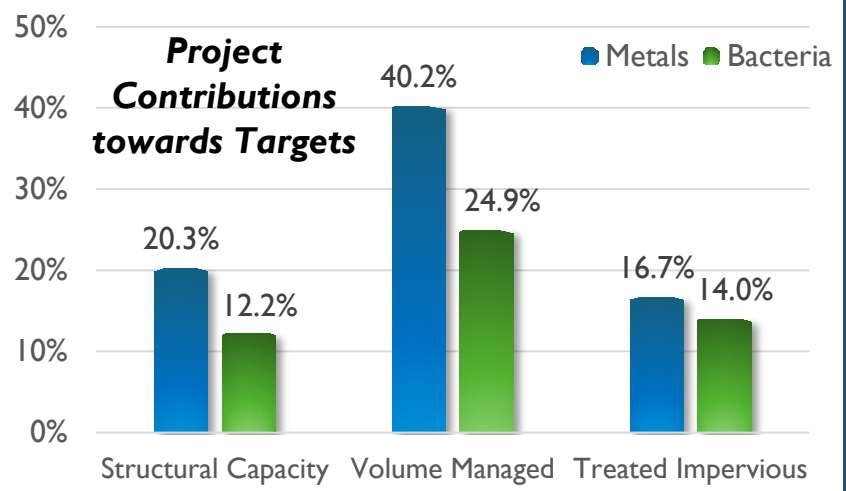
Storage Volume: 30.0 ac-ft

Diversion Rate: 100 cfs (BI0009 Unit 3 Line A)

Treatment: 15.68 cfs pumped filtration

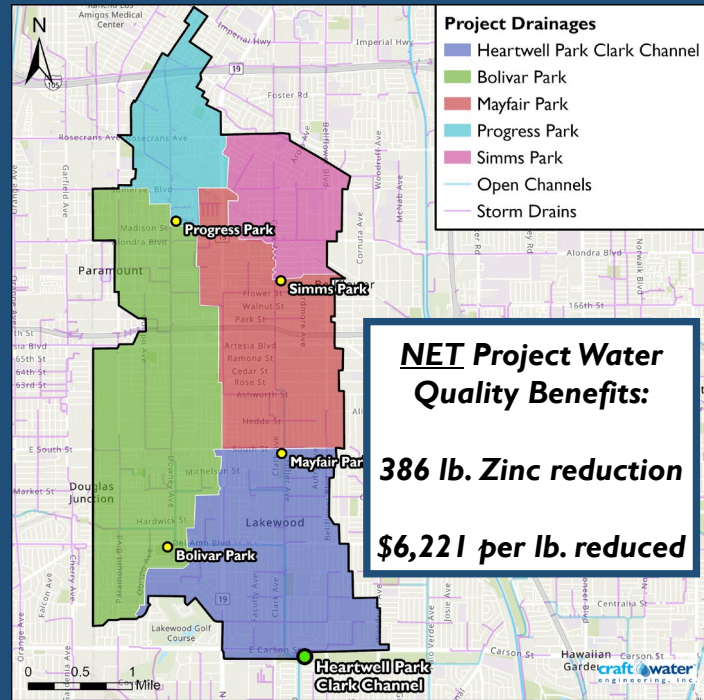
Additional Features: Natural recirculation stream, wetland cells, native tree/shrub plantings

WMP CONTEXT



WMP Metric	Los Cerritos Metals Target	Los Cerritos Bacteria Target
Structural	148.06 ac-ft	244.96 ac-ft
Volumetric	2,246 ac-ft (WY15)	3,625 ac-ft (WY15)
Treated Area	6,495 acres	7,751 acres

WATERSHED CONTEXT

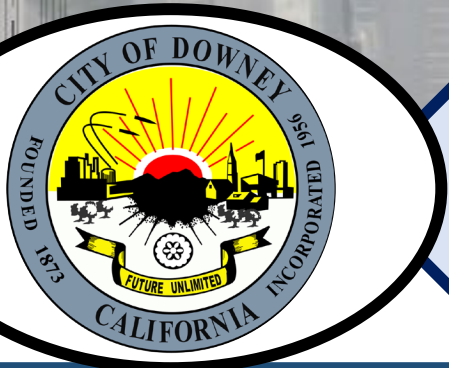


Project treats drainage area with multiple existing and funded projects upstream that work as a system.

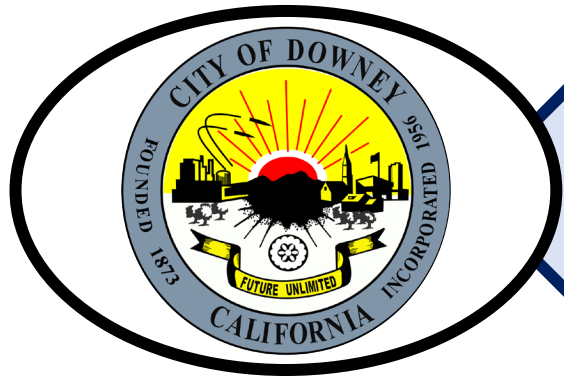
SAFE CLEAN WATER CONTEXT

Score	Project Criteria	Project Value(s)	Points
Water Quality Part 1 (Dry-Weather)	Captures all dry-weather flows	Affirmative	20
Water Quality Part 2 (Dry-Weather)	Tributary Size	>200 acres	20
Water Supply Part 1	(Annualized Project Cost)/ (Avg. Annual Water Supply)	$\frac{\$2,403,263}{38} = \$63,244/\text{ac-ft}$	2
Water Supply Part 2	Avg. Annual Water Supply Provided	38 ac-ft	5
Other Scores	Community Investment, Nature-Based Solutions, & Leveraging Funds	See SCWP Submission for Details	18
TOTAL			65

NOTE: Water Supply Scores developed using Alternative Scoring Rubric



Independence Park Runoff Capture Facility, *City of Downey*



Independence Park Runoff Capture Facility,

City of Downey

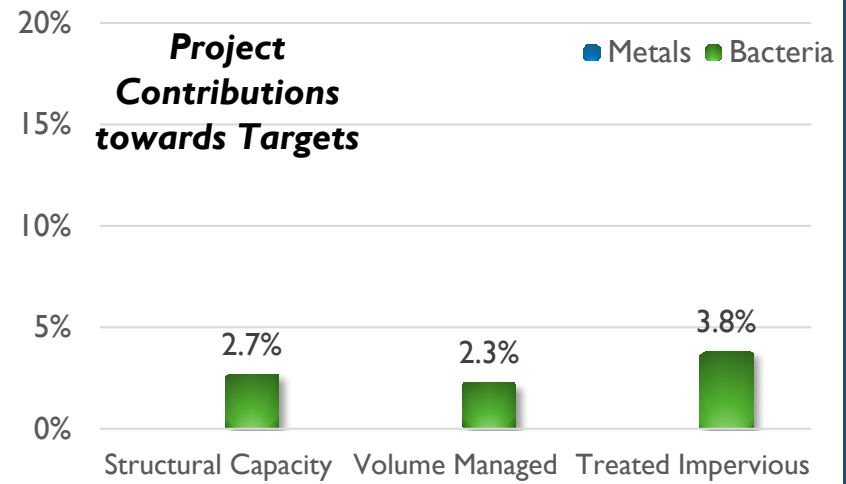
Storage Volume: 4.45 ac-ft

Diversion Rate: 25 cfs (BI0615), 3.34 cfs (BI3150 A)

Treatment: 0.5 in/hr infiltration + 7.84 cfs pumped filtration

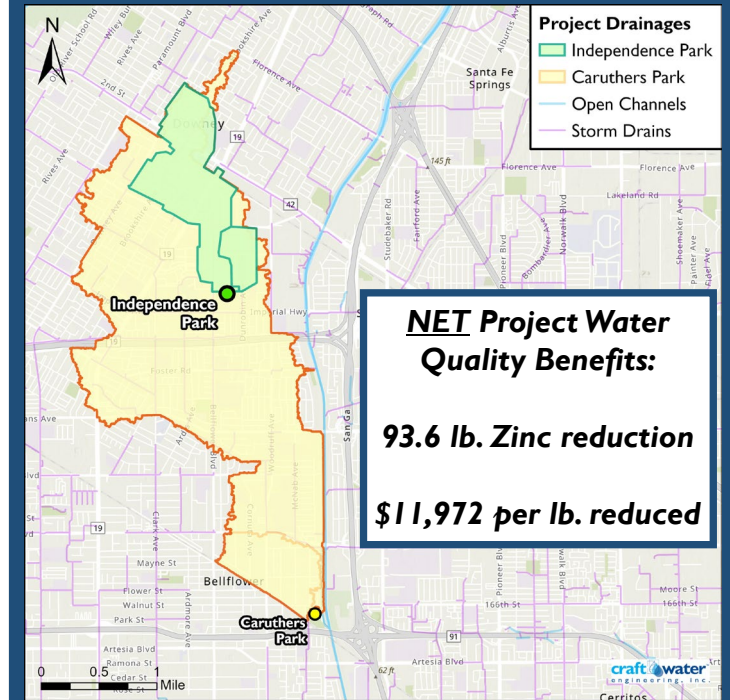
Additional Features: Permeable pavement, bioswales, native tree/shrub plantings

WMP CONTEXT



WMP Metric	San Gabriel River Metals Target	San Gabriel River Bacteria Target
Structural	-----	164.74 ac-ft
Volumetric	-----	5,478 ac-ft (WY15)
Treated Area	-----	9,130 acres

WATERSHED CONTEXT



Project treats drainage upstream of Caruthers Park and adds runoff treatment for the San Gabriel River.

SAFE CLEAN WATER CONTEXT

Score	Project Criteria	Project Value(s)	Points
Water Quality Part 1 (Wet-Weather)	(24-hr BMP Capacity)/ (Construction Cost in millions)	26.16/\$11.94 = 2.19	20
Water Quality Part 2 (Wet-Weather)	Primary & Secondary Pollutant Reduction (%)	89.5% Zinc 88.1% Copper	20 10
Water Supply Part 1	(Annualized Project Cost)/ (Avg. Annual Water Supply)	NA	0
Water Supply Part 2	Avg. Annual Water Supply Provided	0 ac-ft	0
Other Scores	Community Investment, Nature-Based Solutions, & Leveraging Funds	See SCWP Submission for Details	21
TOTAL			71

NOTE: Water Supply Scores developed using existing scoring rubric



Lynwood City Park Stormwater Capture Project,

City of Lynwood



Lynwood City Park Stormwater Capture Project,

City of Lynwood

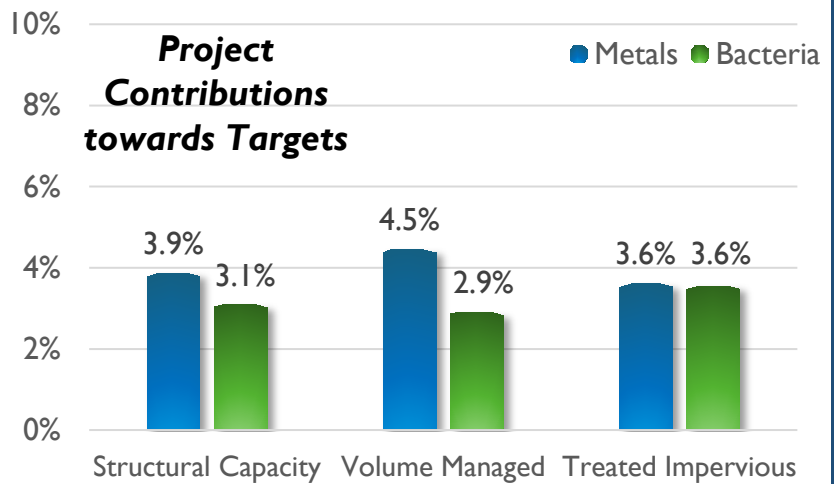
Storage Volume: 10.7 ac-ft

Diversion Rate: 20 cfs (BI0006 A), 25 cfs (BI0006 D)

Treatment: 0.32 in/hr infiltration + 7.84 cfs pumped filtration

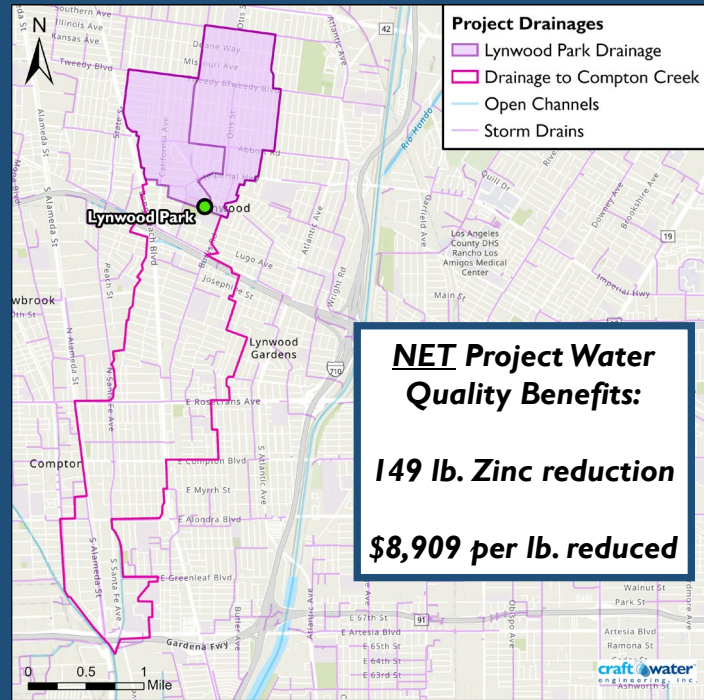
Additional Features: Ephemeral stream, permeable pavement, bioretention planters

WMP CONTEXT



WMP Metric	Lower L.A River Metals Target	Lower L.A. River Bacteria Target
Structural	276.74 ac-ft	346.87 ac-ft
Volumetric	4,305 ac-ft (WY15)	6,633 ac-ft (WY15)
Treated Area	14,394 acres	14,627 acres

WATERSHED CONTEXT

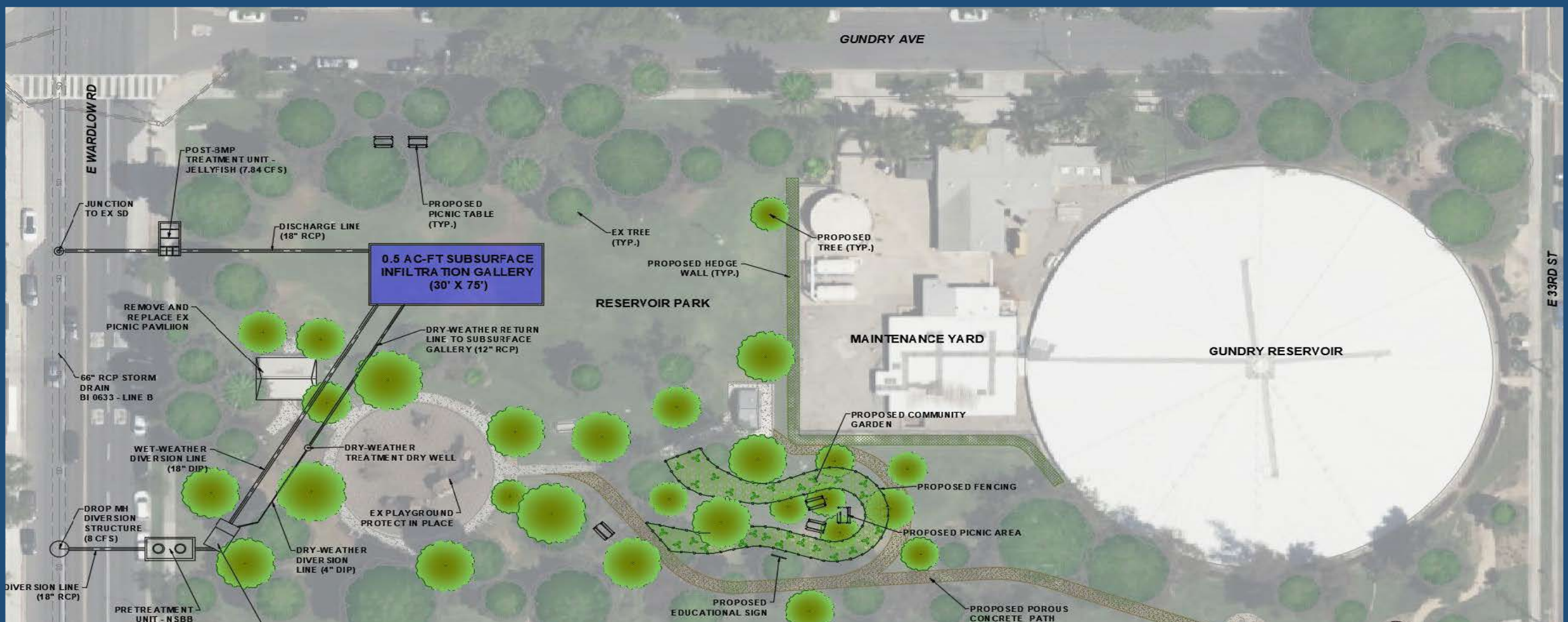


Project treats drainage area not currently serviced by other existing or funded regional projects.

SAFE CLEAN WATER CONTEXT

Score	Project Criteria	Project Value(s)	Points
Water Quality Part 1 (Wet-Weather)	(24-hr BMP Capacity)/ (Construction Cost in millions)	27.32/\$22.10 = 1.24	20
Water Quality Part 2 (Wet-Weather)	Primary & Secondary Pollutant Reduction (%)	82.3% Zinc 75.6% Bacteria	20 5
Water Supply Part 1	(Annualized Project Cost)/ (Avg. Annual Water Supply)	NA	0
Water Supply Part 2	Avg. Annual Water Supply Provided	No Aquifer Recharge	0
Other Scores	Community Investment, Nature-Based Solutions, & Leveraging Funds	See SCWP Submission for Details	19
TOTAL			64

NOTE: Water Supply Scores developed using existing scoring rubric



Reservoir Park

Stormwater Capture Project,

City of Signal Hill



Reservoir Park Stormwater Capture Project,

City of Signal Hill

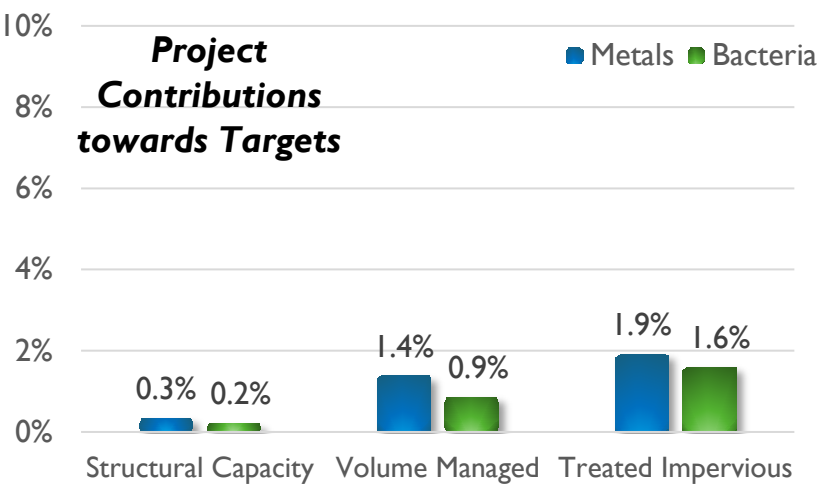
Storage Volume: 0.5 ac-ft

Diversion Rate: 8 cfs (BI0633 B)

Treatment: 0.3 in/hr infiltration + 7.84 cfs pumped filtration

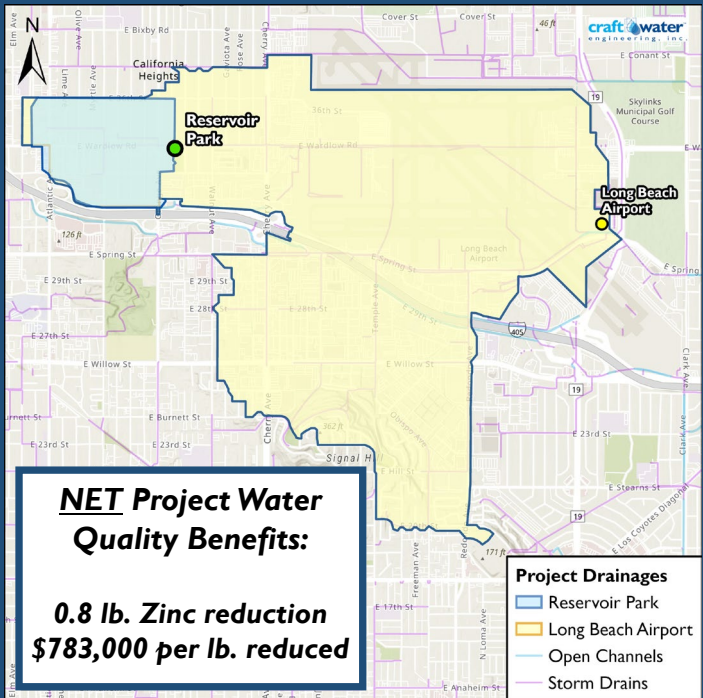
Additional Features: Community garden, porous pathways, native tree/shrub plantings

WMP CONTEXT



WMP Metric	Los Cerritos Metals Target	Los Cerritos Bacteria Target
Structural	148.06 ac-ft	244.96 ac-ft
Volumetric	2,246 ac-ft (WY15)	3,625 ac-ft (WY15)
Treated Area	6,495 acres	7,751 acres

WATERSHED CONTEXT

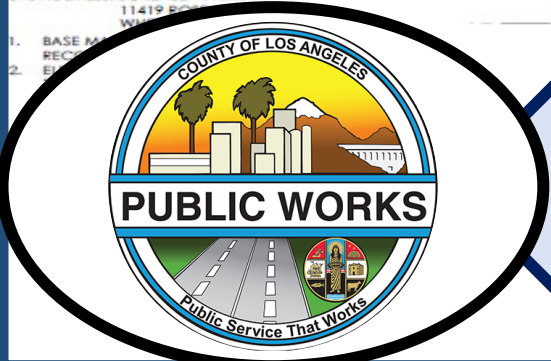
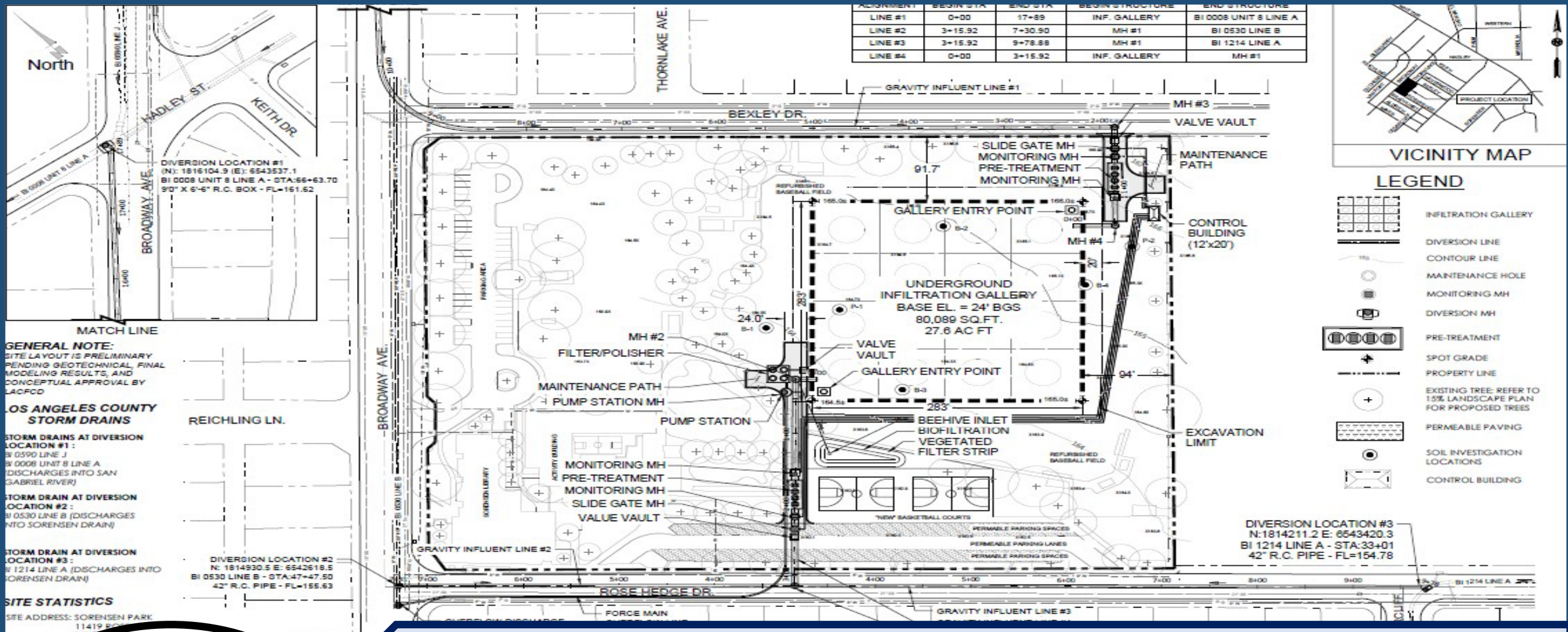


Project treats drainage upstream of Long Beach Airport and adds runoff treatment for the Los Cerritos Channel.

SAFE CLEAN WATER CONTEXT

Score	Project Criteria	Project Value(s)	Points
Water Quality Part 1 (Wet-Weather)	(24-hr BMP Capacity)/ (Construction Cost in millions)	8.68/\$5.73 = 1.51	20
Water Quality Part 2 (Wet-Weather)	Primary & Secondary Pollutant Reduction (%)	84.0% Zinc 82.8% Copper	20 10
Water Supply Part 1	(Annualized Project Cost)/ (Avg. Annual Water Supply)	NA	0
Water Supply Part 2	Avg. Annual Water Supply Provided	0 ac-ft	0
Other Scores	Community Investment, Nature-Based Solutions, & Leveraging Funds	See SCWP Submission for Details	17
TOTAL			67

NOTE: Water Supply Scores developed using existing scoring rubric



Sorensen Park Multi-Benefit Stormwater Capture Project,

Los Angeles County Public Works



Sorensen Park Multi-Benefit Stormwater Capture Project,

Los Angeles County Public Works

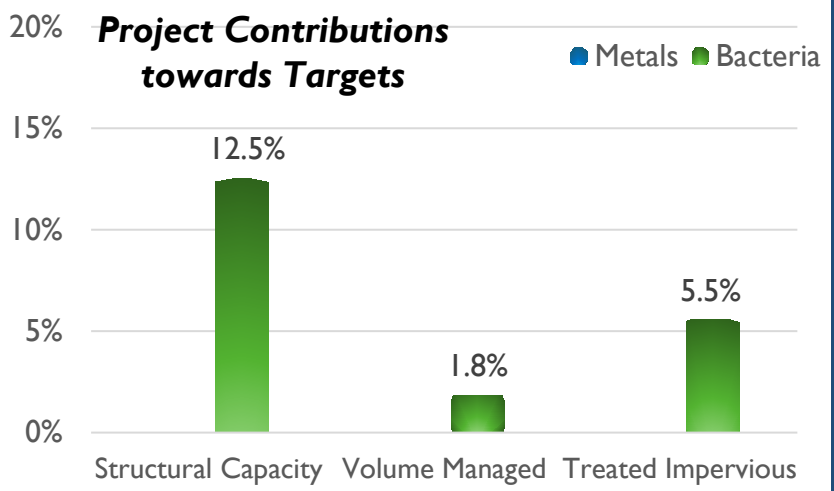
Storage Volume: 20.6 ac-ft

Diversion Rate: 50 cfs (BI 0590/BI008, No. 530 B, No. 1214 A)

Treatment: 1.90 in/hr infiltration

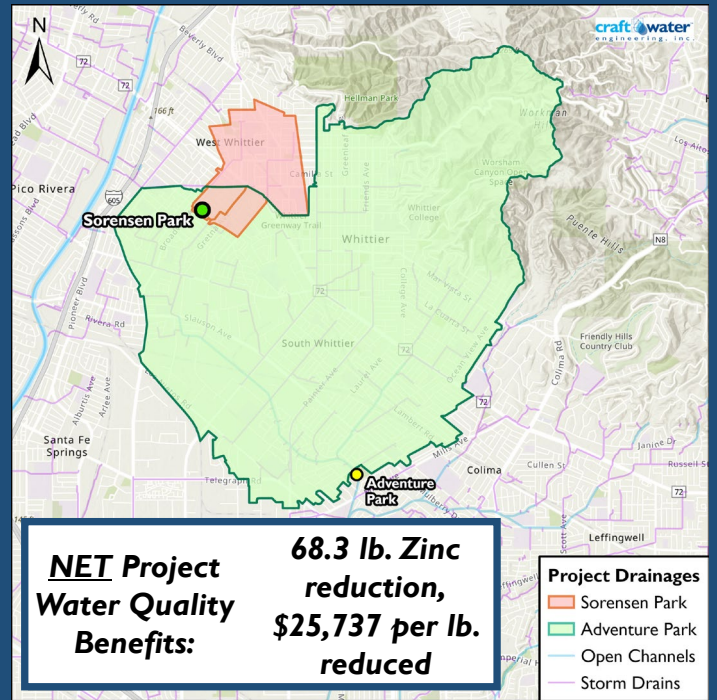
Additional Features: Park facility upgrades, surface biofiltration, native tree/shrub plantings

WMP CONTEXT



WMP Metric	San Gabriel River Metals Target	San Gabriel River Bacteria Target
Structural	-----	164.74 ac-ft
Volumetric	-----	5,478 ac-ft (WY15)
Treated Area	-----	9,130 acres

WATERSHED CONTEXT



Portion of project drainage area upstream of Adventure Park adding to treatment for the broader watershed.

SAFE CLEAN WATER CONTEXT

Score	Project Criteria	Project Value(s)	Points
Water Quality Part 1 (Wet-Weather)	(24-hr BMP Capacity)/ (Construction Cost in millions)	27.6/\$32.23 = 0.86	14
Water Quality Part 2 (Wet-Weather)	Primary & Secondary Pollutant Reduction (%)	82.4% Zinc 81.9% Lead	20 10
Water Supply Part 1	(Annualized Project Cost)/ (Avg. Annual Water Supply)	NA	0
Water Supply Part 2	Avg. Annual Water Supply Provided	No Aquifer Recharge	0
Other Scores	Community Investment, Nature-Based Solutions, & Leveraging Funds	See SCWP Submission for Details	19
TOTAL			63

NOTE: Water Supply Scores developed using Alternative Scoring Rubric



Update on CII Permit

A Presentation to the Gateway Water Management Authority

By

Richard Watson, Richard Watson & Associates, Inc. (RWA)

Consultant to Los Cerritos Channel Watershed Group

11 January 2024

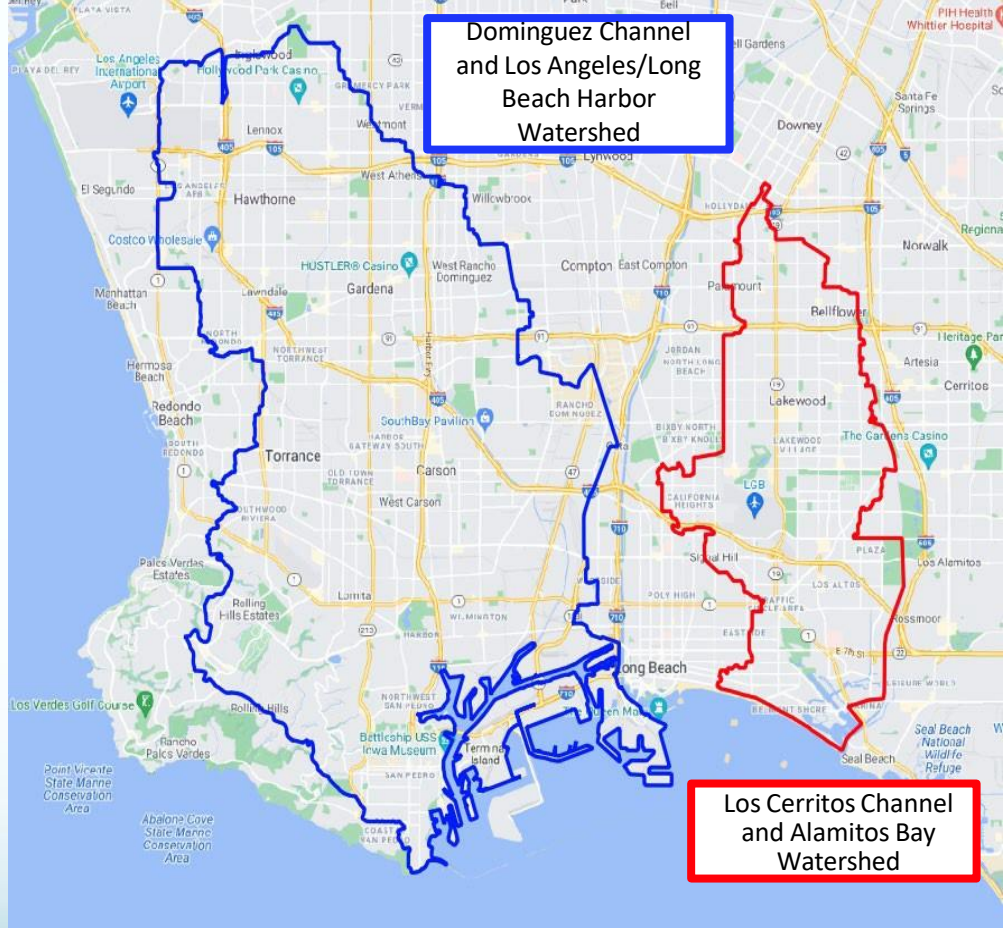
Water Quality Background

Petitions Under Review

- Petitions asking EPA to permit privately owned commercial, industrial, and institutional (CII) sources in two highly urbanized watersheds
- Petitions focus on zinc and copper impairments

Water Quality Concerns

- Waterbodies are impaired
- 3 TMDLs for these watersheds
- Other constituents of concern:
 - Other metals
 - PAHs
 - Bacteria
 - Legacy pesticides such as DDT
 - PCBs
 - Trash
 - Nutrients



CII Permit has a Long and Complicated History

- Based on seldom used component of the Clean Water Act (CWA) known as EPA's **Residual Designation Authority**

EPA can use its "residual designation" authority under 40 CFR 122.26(a)(9)(i)(C) and (D) (PDF) to require NPDES permits for other stormwater discharges or category of discharges on a case-by-case basis when it determines that:

- the discharges contribute to a violation of water quality standards,
- are a significant contributor of pollutants to federally protected surface waters, or
- controls are needed for the discharge based on wasteload allocations that are part of "total maximum daily loads" (TMDLs) that address the pollutant(s) of concern.

CII Permit has a Long and Complicated History (Continued)



- In July 2013, American Rivers, Conservation Law Foundation and Natural Resources Defense Council (NRDC), together with California CoastKeeper Alliance, petitioned USEPA Region 9 for a Determination that Stormwater Discharges from Commercial, Industrial sites Contributed to Water Quality Standards Violations and Require Clean Water Act Permits.
- Based on a 29-page staff report, the EPA Regional Administrator on March 14, 2014, concluded that: Region 9 had insufficient information to support a Regionwide CII designation of sites specified in the petition, and that effective programs were already in place that addressed the majority of the sites identified in the Petition. EPA therefore declined to make a Regionwide designation.

CII Permit has a Long and Complicated History



- Current process started with 2015 Petitions from American Rivers, the NRDC, and the LA Waterkeeper requesting USEPA to make “a determination that currently unpermitted stormwater from privately owned commercial, industrial, and institutional (CII) sites are contributing to violations of water quality standards” in the LCC and Dominguez Channel Watersheds, therefore requiring NPDES permits pursuant to Section 402(p) of the CWA.
- In a 2016 response to the Petition, EPA agreed that the CII sources were contributing to water quality impairments in the watersheds, but denied the Petitions because EPA concluded that other environmental programs, such as existing MS4 permits, would adequately address water quality impairments in the watersheds.



CII Permit has a Long and Complicated History

(Continued)

- In 2018, the U.S. District Court determined that consideration of other programs, including MS4 permits, is not authorized under the CWA and directed EPA to reconsider the Petitions in a manner consistent with the ruling. The District Court ruled that the CWA provides EPA with only 2 options when EPA has determined that discharges are contributing to water quality impairments – permit the discharges or prohibit the discharges.



CII Permit has a Long and Complicated History (Continued)

- EPA Region 9 spent time studying several factors they identified to consider in exercising its individual and categorical residual designation authority and published a Preliminary Designation on July 26, 2022.
- EPA coordinated with the Los Angeles Regional Water Board, which issued first draft of its proposed CII Permit concurrently with EPA's release of its 2022 Preliminary Designation.

CII Permit has a Long and Complicated History (Continued)



- More attention has been paid to the CII Permit than to the Preliminary Designation because the Permit will have direct impacts on CII discharges and indirect impacts on the Watershed Groups that are designated to handle Option 1 of the three (3) implementation options. However, the EPA designation provides the broad framework for the Permit coverage.
- On November 2, 2023, EPA issued a revised Preliminary Designation, and the Regional Water Board issued a revised Draft CII Permit.
- Richard Watson & Associates, Inc., on behalf of the Watershed Group, submitted comments on both versions of the Draft CII Permit and on the revised Preliminary Designation.

Current Status of Residual Designation



- The revised Preliminary Designation memo, while substantially the same as the initial memo, provides clarifications and revisions in these general areas:
 1. Inclusion of Appendix 4 providing property use codes for the LA County Assessor's Office describing the sources subject to the Preliminary Designation;
 2. Clarification and explanations of privately owned parcels included;
 3. Clarification that Pier 400 at the Port of Los Angeles is within the area covered by the Preliminary Designation; and
 4. Modification that the designation for certain industrial facilities would be based on total facility acreage rather than acreage not covered by the Industrial General Permit.
- **Major problem:** designation land use codes too broad and includes uses probably not targeted by Petitioners



Current Status of CII Permit

- Our focus in reviewing the Permit has been on Compliance Option 1 that involves an agreement with a local Watershed Group to fund a regional project.
- It appears that most facilities subject to the new CII Permit will want to opt for Option 1 because of the feasibility and costs of complying through Options 2 and 3.
- However, despite the changes that have been made to Option 1, many of the implementation elements have not yet been structured, which is a problem for both the dischargers and the Watershed Group.



Current Status of CII Permit

- Staff has made changes that make Option 1 more workable, especially for Watersheds like ours that have already planned, designed, and constructed multiple water quality improvement and water supply projects.
- One really important change in Section 8.1 allows Permittees to help fund an upstream project if one downstream is not available.
- A second important improvement to Option 1 is an option explained in the Fact Sheet that the funding “may include costs for the initial construction, maintenance, and operation, regional project revision and enhancement, and administration and other supplemental work performed by the Watershed Management Group.”

Current Status of CII Permit (Continued)



- A third major improvement relates to the funding for implementation of Option 1. The Fact Sheet now clarifies that the “funding level must be proportional to the source of non-stormwater discharge volumes and onsite stormwater volumes to be addressed relative to the total regional project stormwater volume capacity, drainage area, or watershed capacity modified by pollutant level potential based on actual type and can be addressed by the following formula.”
- However, the formula contains an undefined term – “potential level factor” – that must be defined. In addition, there needs to be additional clarification on how the new provisions may be implemented because of the many unknowns related to project implementation.

Current Status of CII Permit

(Continued)



- Furthermore, the Fact Sheet discussion of the funding level for implementation does not address costs to Watershed Groups and municipalities to develop and implement binding agreements between watershed groups and discharges.
- In addition, there is one change to the revised CII Permit that worsens all three (3) compliance options. We had asked that dischargers be allowed to request termination of coverage if a change in water quality standards results in a receiving water no longer being in violation of copper and/or zinc water quality standards. Instead, staff modified the Permit to allow dischargers to submit a Notice of Termination only if either (a) ownership or operation of the facility has been transferred to another entity, (b) the facility has ceased operation, or (c) the facilities' operations have changed and are no longer subject to the Permit.



Where Do We Go from Here?

- Neither the Residual Designation nor the CII Permit will go away because of the court mandate.
- The magnitude of coverage of the Residual Designation will probably only be changed by litigation.
- The workability of the CII Permit can be changed by a delay in finalization of the Residual Designation that allows implementation of a coordinated and concerted effort by dischargers and watershed groups to convince the Regional Board to make significant changes to the implementation messages in the Permit before it is adopted.

Questions

Contact:

Richard Watson

Richard Watson & Associates, Inc.
(RWA)

(949) 394-8495 (cell)

rwatson@rwaplanning.com





*Los Angeles Gateway Region
Integrated Regional Water Management
Joint Powers Authority*

January 11, 2024

AGENDA ITEM 8 – Setting Recurring Board Meeting Dates/Times/Frequency

SUMMARY

At the direction of the Board Chair, Staff prepared and distributed a confidential survey soliciting input on board meeting availability. Based on the results, Staff is recommending that the frequency of the meetings be changed while maintaining the current week/time of the meetings.

DISCUSSION

On November 28th followed by December 6th, a survey link was sent to all Board Members and Alternates requesting input on their availability to attend Board Meetings moving forward. The survey included the following:

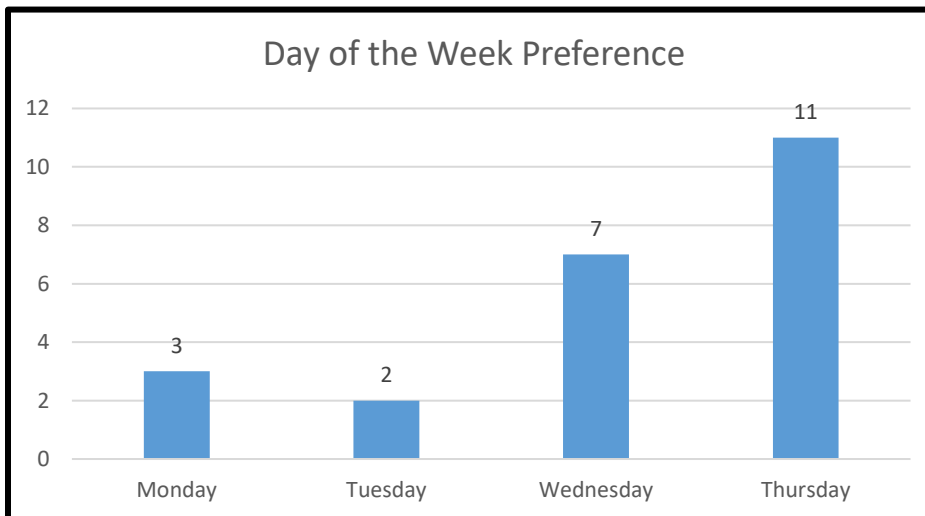
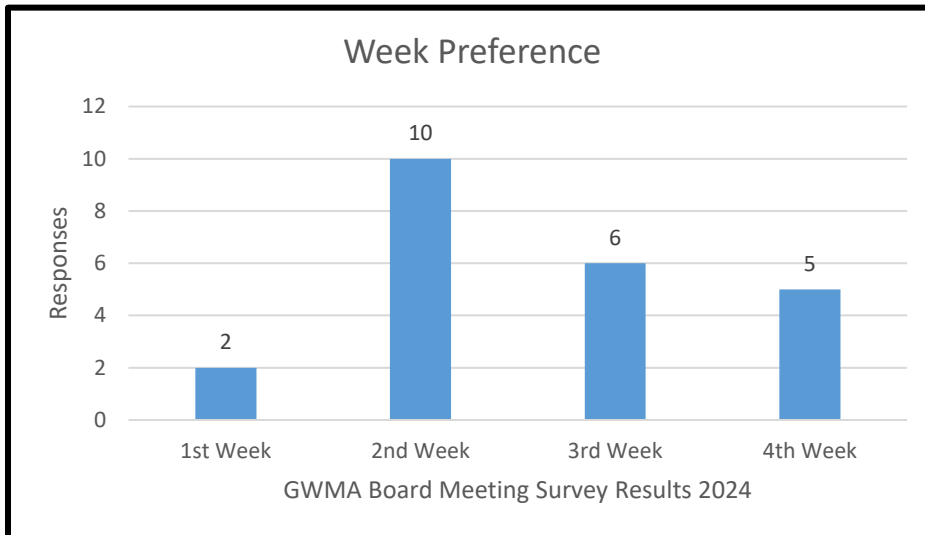
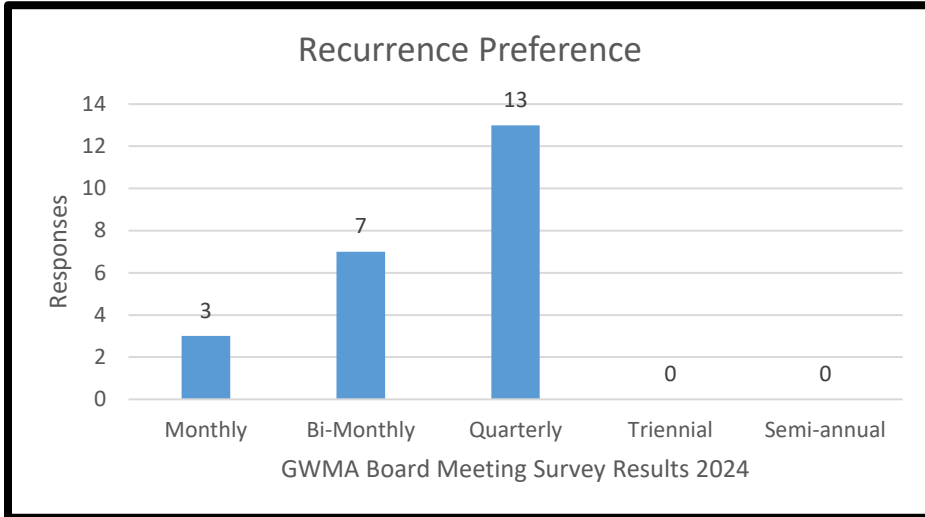
1. Are you a Board Member or an Alternate Board Member?
2. Please indicate your preference below (select only 1)
 - Monthly
 - Bi-Monthly (Every other month)
 - Quarterly (Every 3 months)
 - Triannual (Every 4 months)
 - Semi-Annually (Every 6 months)
3. What week of each month do you prefer? (please select all of your preferences)
 - 1st Week
 - 2nd Week
 - 3rd Week
 - 4th Week
 - No preference
4. Please select all of your preferences for GWMA Board Meetings.
(NOTE: Meetings typically average one (1) hour)
 - Half-hour increments were offered starting at 9:30 and ending at 3:00 p.m.

Twenty (23) responses were received, of which 13 were Board Members and 10 were Alternate Board Members. The results shown below confirm that a majority prefer a quarterly schedule. Additionally, the results confirm that the current schedule of 2nd Thursday at noon is still the most popular.

Adriana Figueroa (Paramount), Board Chair • Kelli Pickler (Lakewood), Vice-Chair • Thomas Bekele (Signal Hill), Secretary/Treasurer
Proudly serving Gateway cities and agencies in Southeastern Los Angeles County

Members: Artesia • Bell • Bell Gardens • Bellflower • Central Basin Municipal Water District • Cerritos • Commerce • Compton • Cudahy • Downey
Hawaiian Gardens • Huntington Park • La Mirada • Lakewood • Long Beach • Long Beach Water Department • Lynwood • Maywood • Montebello • Norwalk • Paramount
Pico Rivera • Port of Long Beach • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

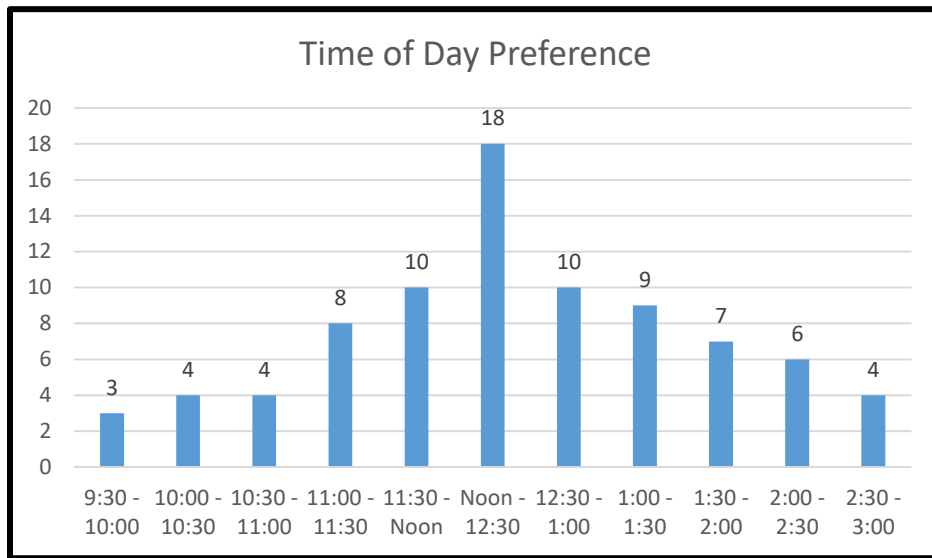
With Technical Support From The Sanitation Districts Of Los Angeles County



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Pico Rivera • Port of Long Beach • Santa Fe Springs • Signal Hill • South Gate • Vernon • Water Replenishment District of Southern California • Whittier

With Technical Support From The Sanitation Districts Of Los Angeles County



Staff reviewed the survey results and compared those with annual budget and audit schedules as well as holiday months. It is staff's recommendation to set January, April, July and October as the dates to meet four times per year while maintaining the status quo of the second Thursday at 12:00 PM (PST).

FISCAL IMPACT

None.

RECOMMENDED ACTION

Adopt Resolution 24-01, as presented, A Resolution of the Board of Directors of Gateway Water Management Authority Changing the Recurrence of Regular Board Meetings.

RESOLUTION NO. 24-01

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
GATEWAY WATER MANAGEMENT AUTHORITY CHANGING THE
RECURRENCE OF REGULAR BOARD MEETINGS**

THE BOARD OF DIRECTORS OF THE GATEWAY WATER MANAGEMENT AUTHORITY DOES RESOLVE AS FOLLOWS:

WHEREAS, the Gateway Water Management Authority (“GWMA”) holds its regularly scheduled Board meetings on the second Thursday of every month at 12:00 PM (PST).

WHEREAS, appointments of Board Members and Alternates by governing boards have changed over the past several years.

WHEREAS, a survey was sent to the GWMA Board Members and Alternates to determine if the current recurring schedule adequately addresses the availability of its appointed members to attend Board Meetings.

WHEREAS, the GWMA Board desires to change the frequency of its Board Meetings.

WHEREAS, the GWMA Board desires to keep the meetings at 12:00 PM (PST) on the second Thursday of every month.

NOW, THEREFORE, the Board of Directors of the GWMA does hereby resolve as follows:

The regularly scheduled Board meetings of the GWMA shall now be held on the second Thursday of January, April, July and October at 12:00 PM (PST).

PASSED, APPROVED, AND ADOPTED by the Board of Directors of GWMA this 11th day of January 2024 by the following votes:

AYES:

NOES:

ABSTAIN:

Adriana Figueroa, Chair