La Crescenta Green Improvement Project

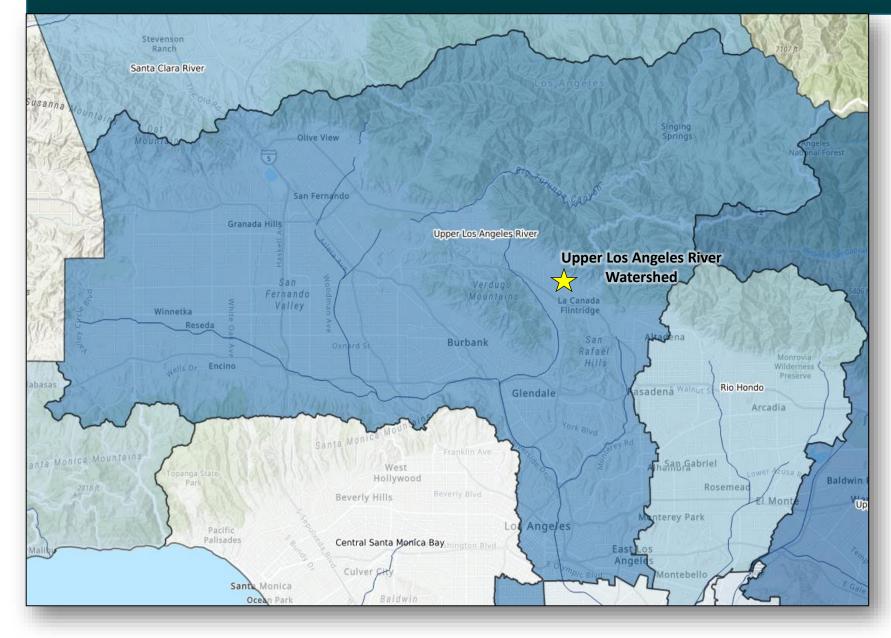
Funding Program (Infrastructure Program) Fiscal Year 2022-2023 Upper Los Angeles River SCW Watershed Area County of Los Angeles Kevin Chang

Project Overview

La Crescenta-Montrose green improvement to capture stormwater and urban runoff, retrofit parkways with bioswales, increase local tree canopy, repair roadways, and reconstruct curb ramps to current ADA standards.

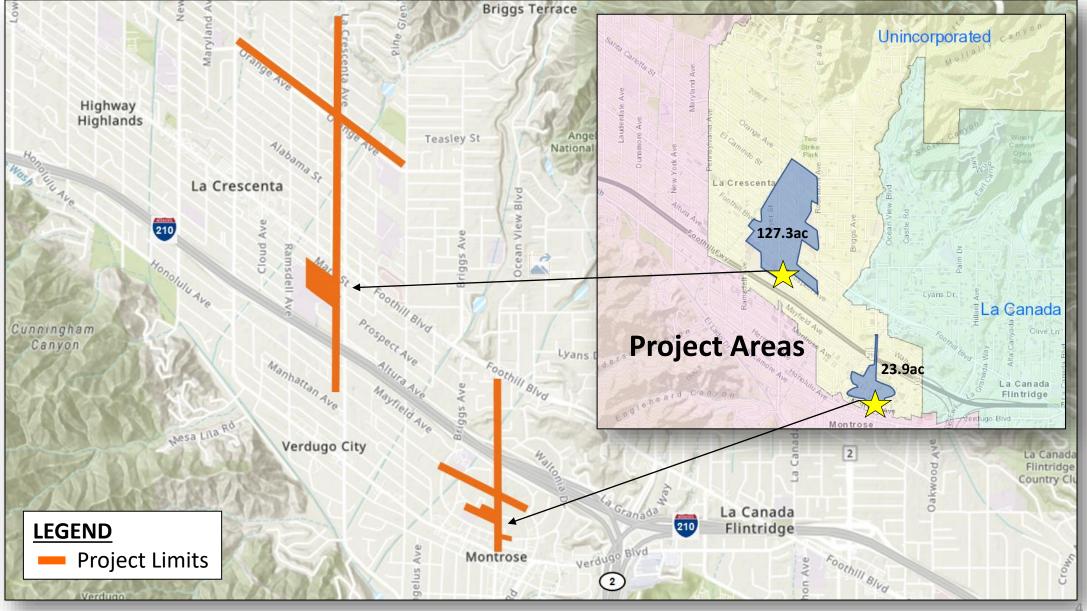
- Primary Objective: Water Quality
- Secondary Objectives: Water Supply, Community Investment, Nature-Based Solutions, Leverage Funding
- Project Status: Planning Phase
- Phases for which SCW funding is being requested: Design, Construction
- Total Funding Requested: \$1,500,000

Project Background

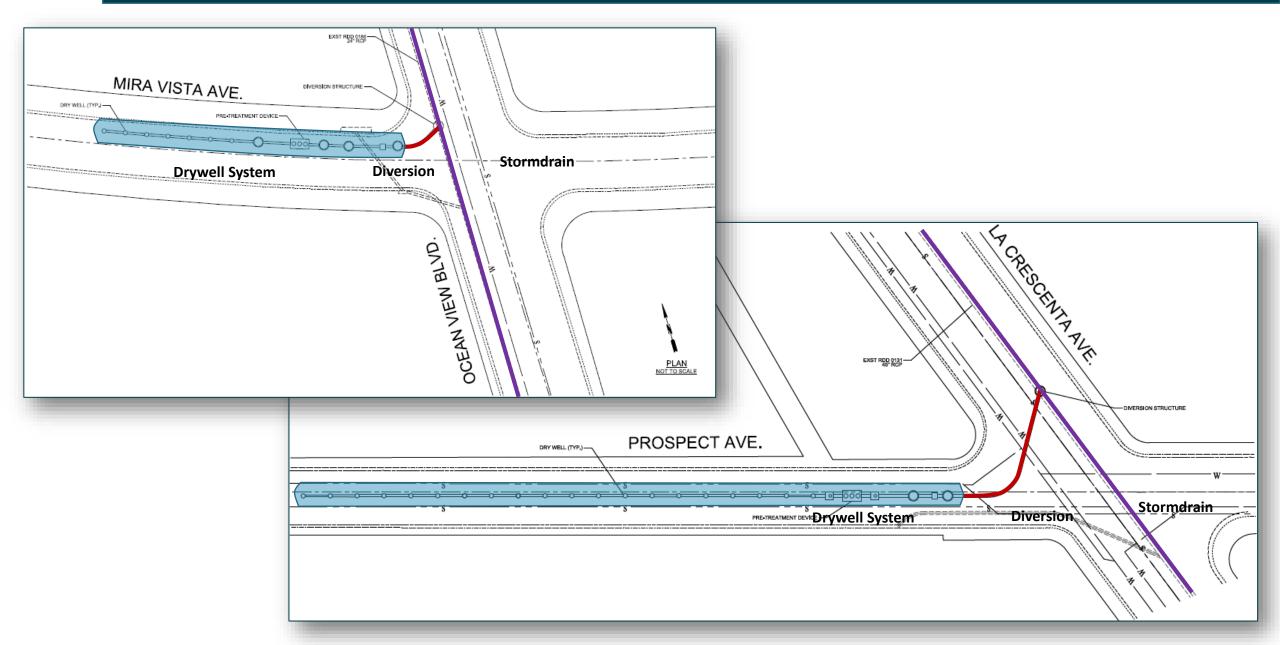


- Location: ULAR by I-210, La Crescenta & Montrose Communities
- GLAC IRWMP (via ULAR EWMP)

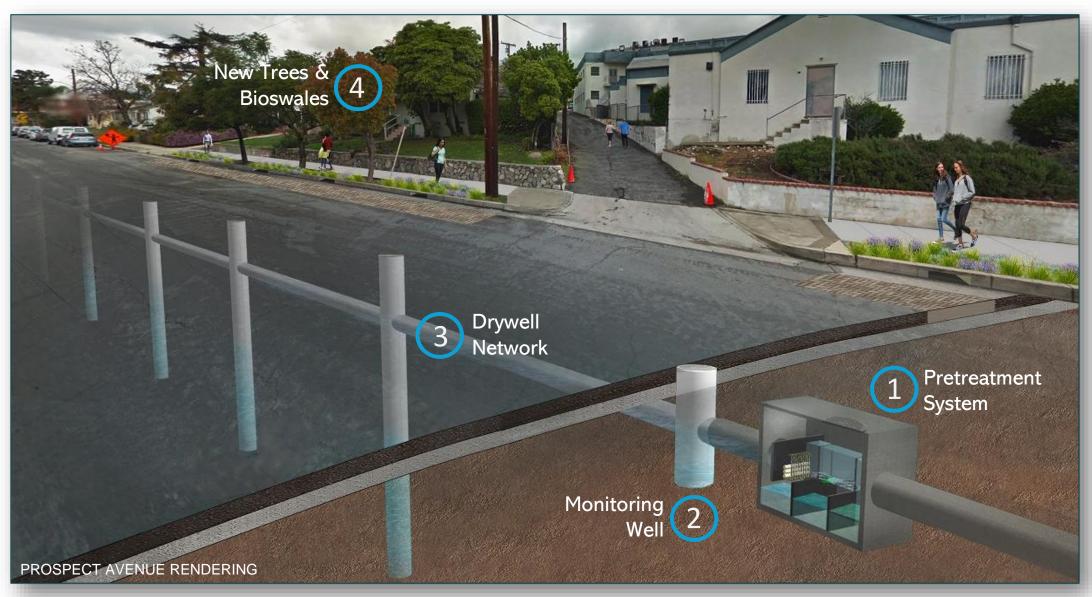
Project Background



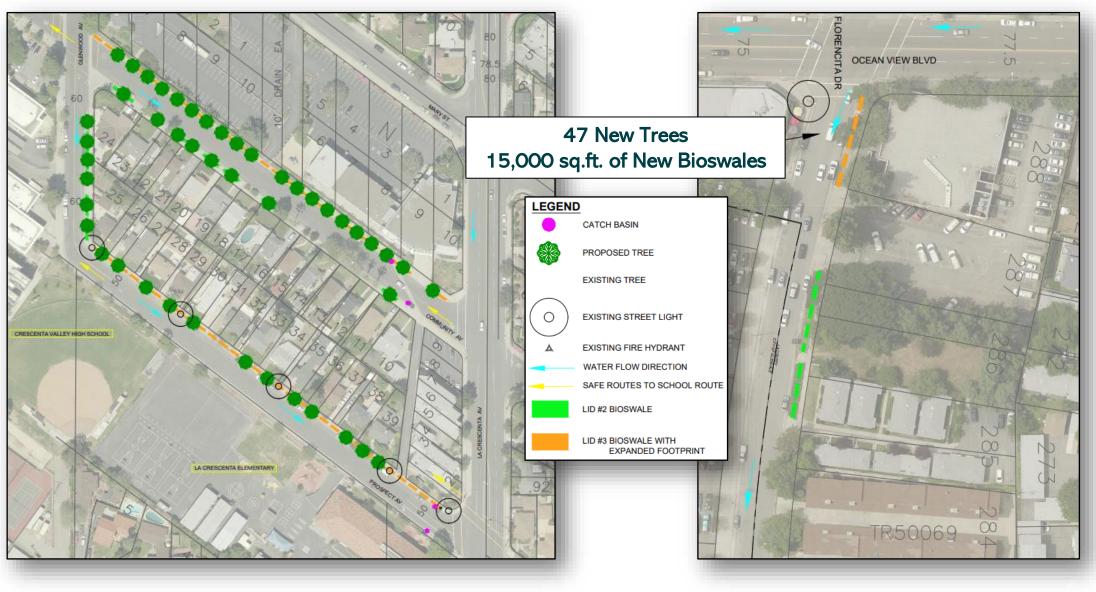














Phase	Description	Cost	Completion Date
Design	Preliminary Engineering; Preparation of Plans, Specifications & Estimates	\$1,155,000	Late 2022
Construction	Construction; Construction Engineering	\$6,305,000	Mid 2024
TOTAL		\$7,460,000	

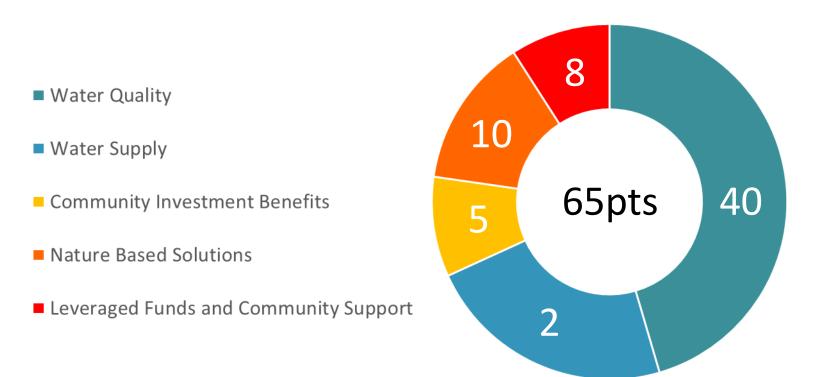
- Annual Costs \$350,000
- Project Lifespan 50 Years
- Lifecycle Cost \$16.4M



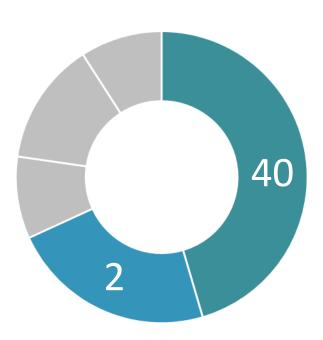
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$500,000	Design	Preliminary Engineering; Preparation of Plans, Specifications & Estimates
2	\$500,000	Construction	Construction; Construction Engineering
3	\$500,000	Construction	Construction; Construction Engineering
TOTAL	\$1,500,000		

- Leveraged Funding: \$1.5M (>50%)
- Invested/Spent Funds: \$400k



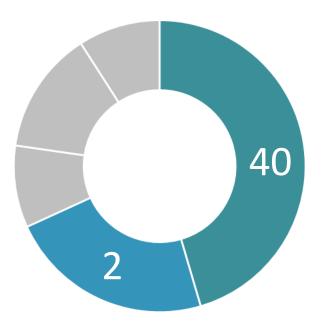


Water Quality & Water Supply Benefits



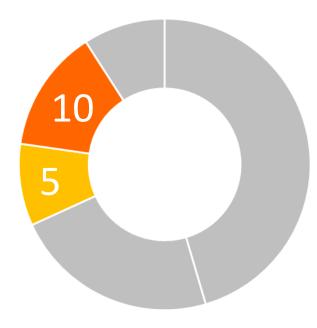
- Wet & Dry Weather Capture
- Pollutant Reduction (Bacteria & Metals TMDL's)
 - Bacteria: 64% Removal
 - Metals: 60% Removal
- 151 acre Tributary Area
- 7.57 acre-feet Capacity (85th Percentile Storm)





- 27 Dry Wells
- 36 acre-feet Annual Water Supply Volume
- Water Supply (Recharge Water Supply Aquifer)

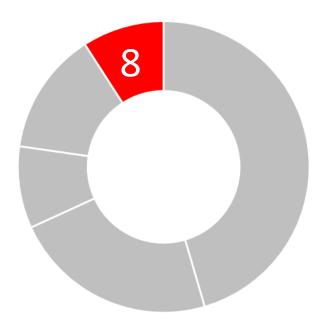
Community Investment Benefits and Nature Based Solutions



• Community Investment Benefits

- ADA accessible curb ramps
- Road repairs to lessen wear and tear on vehicles
- School route aesthetic enhancement
- Nature Based Solutions
 - 15,000 square feet of new bioswales
 - 47 new trees
 - Native plantings

Leveraging Funds and Community Support



- Leveraging Funds
 - \$1,500,000 (>50% match)
 - SCW Municipal and/or County Capital Projects Funds
 - Status: In Progress
- Community Support
 - Community Outreach Meetings
 - Crescenta Valley Town Council Meetings (Monthly, Ongoing)
 - Community Meeting #1 (May 6th, 2021)
 - Community Meeting #2 (Design Phase, TBD)
 - Community Meeting #3 (Construction Phase, TBD)
 - Crescenta Valley Town Council Support
 - TreePeople Support

Questions?

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Winery Canyon Channel and Descanso Gardens Stormwater Capture and Reuse Project

Infrastructure Program

Fiscal Year 2022-2023

Upper Los Angeles River Watershed

Descanso Gardens and City of La Cañada Flintridge

Juliann Rooke (Descanso Gardens), Mike Rudd (Geosyntec Consultants) and Ruth Siegel (RIOS)

Project Overview

Multi-benefit project employing creative solutions to improve sustainable operations and water quality for multiple stakeholders.

- Primary Objective: Stormwater capture, treatment, and reuse to off-set imported potable water demand
- Secondary Objectives: Volume and pollutant load reduction in the upper Arroyo Seco Watershed
- Project Status: Infrastructure Program Funding Request for Design, Construction, Monitoring and O&M
- Total Funding Requested: \$6,848,600



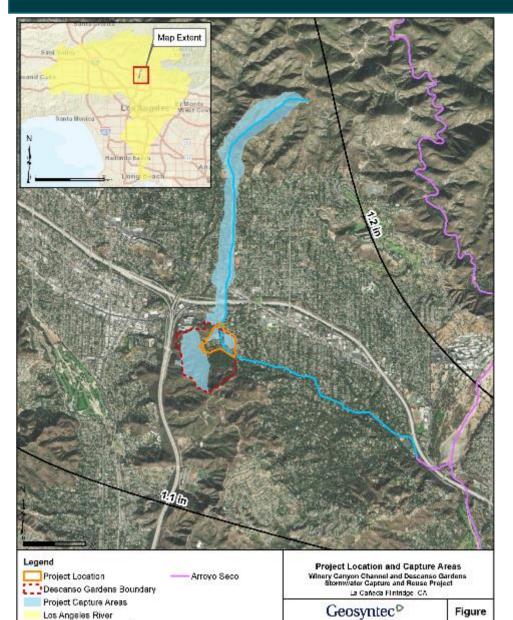
- Descanso Gardens Master Plan process launched in November 2018.
- Final Master Plan and CEQA Mitigated Negative Declaration approved by LAC Board of Supervisors on October 13, 2020.
- Key Master Plan objectives include:
 - Reduce reliance on imported water
 - Capture and reuse stormwater
 - Improve water infrastructure efficiency
 - Community engagement and education
- TRP application submitted by City of La Cañada Flintridge in collaboration with Descanso Gardens.



- Project site visit and conceptual design workshop held in April and May 2021, respectively.
- Presented to ULAR Watershed Management Group in July 2021, for concurrence with intent of the Enhanced Watershed Management Program.
- Project location meets both the pollutant load reduction and sustainability goals of La Cañada Flintridge and Descanso Gardens, respectively.
- The project layout in the Feasibility Study further assessed the common Master Plan elements.



Winery Canyon Channel



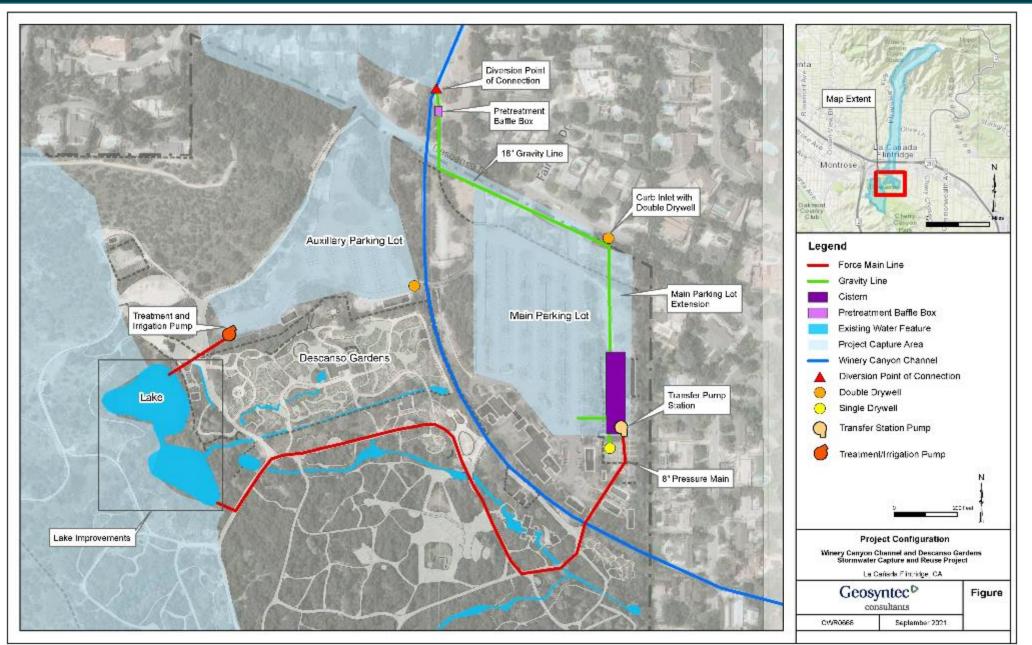
consultants

September 2021

CW/R0668

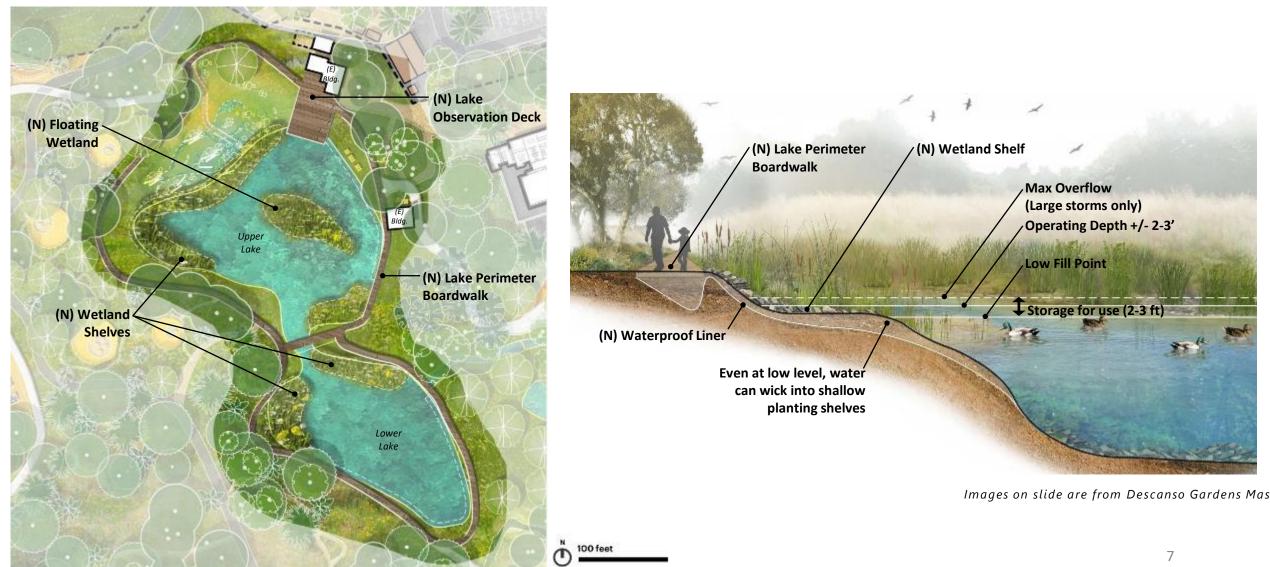








Lake Improvements (from Descanso Gardens Master Plan)





Main Parking Lot Extension (from Descanso Gardens Master Plan)









Reference Imagery of Planted Parking Lots

Images on slide are from Descanso Gardens Master Plan 2020



Cost & Schedule

Phase	Description	Cost	Completion Date
Design	One-year design phase; includes permitting, right-of-way, and CEQA amendment costs	\$793,800.00	07/2023
Construction	Construction cost including CM	\$8,164,800.00	09/2025
TOTAL		\$8,958,600.00	

- Annual Costs Include Monitoring and O&M:
 - Monitoring = \$68,000
 - Operations = \$12,000
 - Maintenance = \$110,000

- Project Lifespan & Lifecycle Costs:
 - Project life = 40 years
 - Annual lifecycle = \$15,000,000
 - Total lifecycle = \$570,000



Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$493,800.00	Design	Design, permitting, CEQA amendment, easements
2	\$588,076.00	Construction	Lake improvements, mobilization, half of CM Manage
3	\$1,663,068.00	Construction	Channel diversion to cistern, drywells, pump & treatment, excavation and gravel base for cistern, 1/4 CM
4	\$3,913,656.00	Construction	Cistern, transfer pumps, 1/4 CM
5	\$122.000.00	O&M	1-year O&M
5	\$68,000.00	Monitoring	1-year Monitoring
TOTAL	\$6,848,600.00		

• Leveraged Funding = \$2,300,000.00 (25.14%)



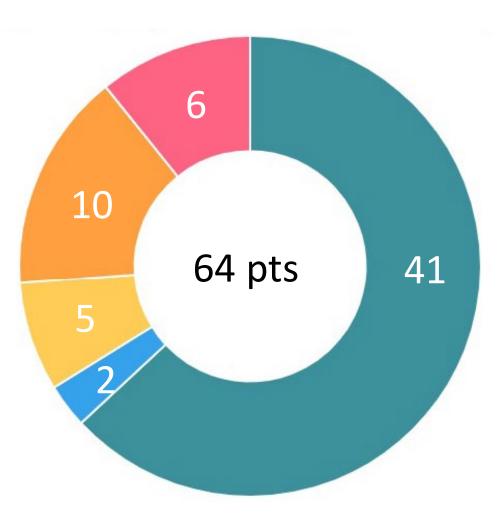
Water Quality

Water Supply

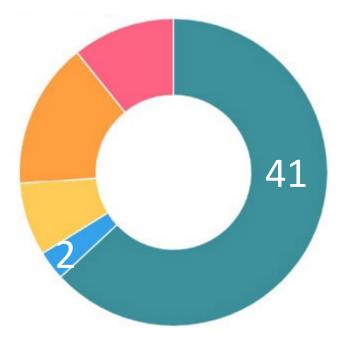
Community Investment

Nature-Based Solutions

Funds & Community

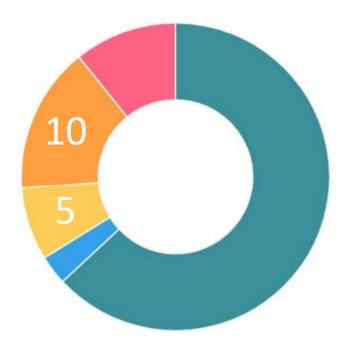


Water Quality & Water Supply Benefits



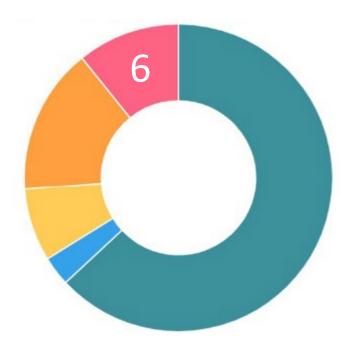
- Water Quality (41 points) and Supply (2 points) features:
 - Diversion and pretreatment from Winery Canyon Channel to cistern
 - Descanso Drive runoff to double drywell
 - Main Parking Lot runoff to cistern
 - Auxiliary Parking Lot to single drywell
 - Lake storage
 - Pump and treatment for non-potable uses
- Pollutant Reduction = 80.5%
- Tributary Area = 311.2 acres
- 24-hour volume inflow and capacity = 4.9 acre-feet
- Annual volume capture = 63.5 acre-feet

Community Investment Benefits and Nature Based Solutions



- Community Investment Benefits (5 points)
 - Improve flood management, conveyance, risk mitigation
 - Creates/enhances habitat and wetlands
 - Creates new recreational opportunities
 - Increase vegetation and shade
- Nature Based Solutions (10 points)
 - − Lake improvements to provide higher ecological function
 > "Living edge" to create wetland shelf along perimeter
 > Floating wetlands
 - New native vegetation within Main Parking Lot Extension
 - BMP selection of drywells to mimic natural processes by promoting infiltration

Leveraging Funds and Community Support



- Leveraging Funds (*Part 1: 3 points*)
 - Descanso Gardens benefactor = \$2.0M
 - Descanso Gardens Guild Operating Budget = \$300K
 - Total leveraged funds = \$2.3M (25.14%)
- Community Support (Part 2: 3 points)
 - Pasadena Audubon Society
 - Senator Anthony Portantino
 - Santa Monica Mountains Conservancy
 - La Cañada Flintridge Trails Council
 - Valley Water Company
 - YMCA of the Foothills

Questions?

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