

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

Agoura Hills Stormwater Diversion Project

Infrastructure Program

Fiscal Year 2024-25

North Santa Monica Bay Watershed Area

City of Agoura Hills

Jessica Forte

Previously Awarded TRP –No



Project Overview

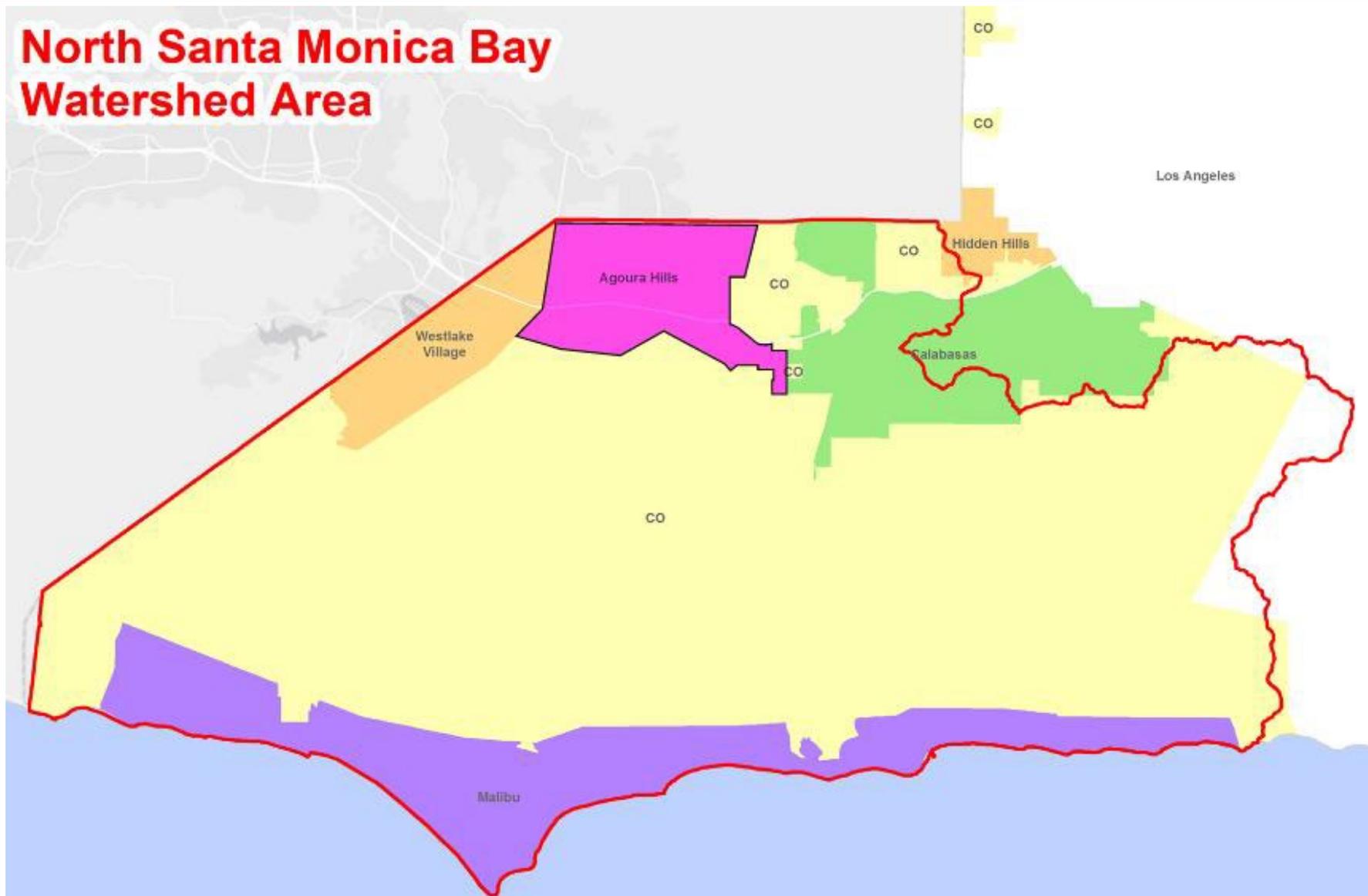
Ten storm drain diversions throughout the City of Agoura Hills for treatment and reuse at Tapia Water Reclamation Facility

- Primary Objective: Dry Weather MS4 compliance
- Secondary Objectives: Water Supply Development (reclaimed and future potable water)
- Project Status: Construction and O&M
- Total Funding Requested: \$2,972,448.80





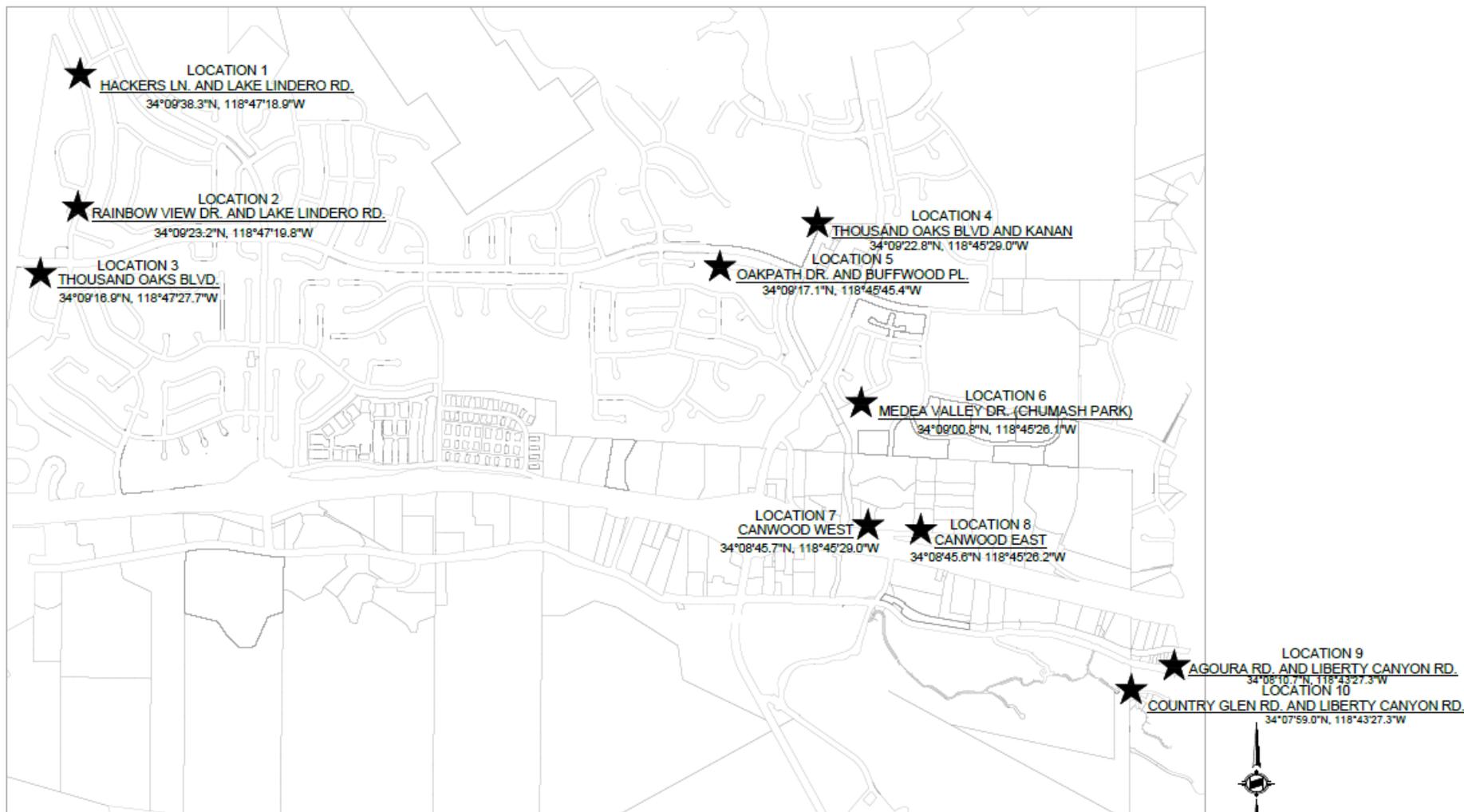
Project Location – Watershed Area and City Limits





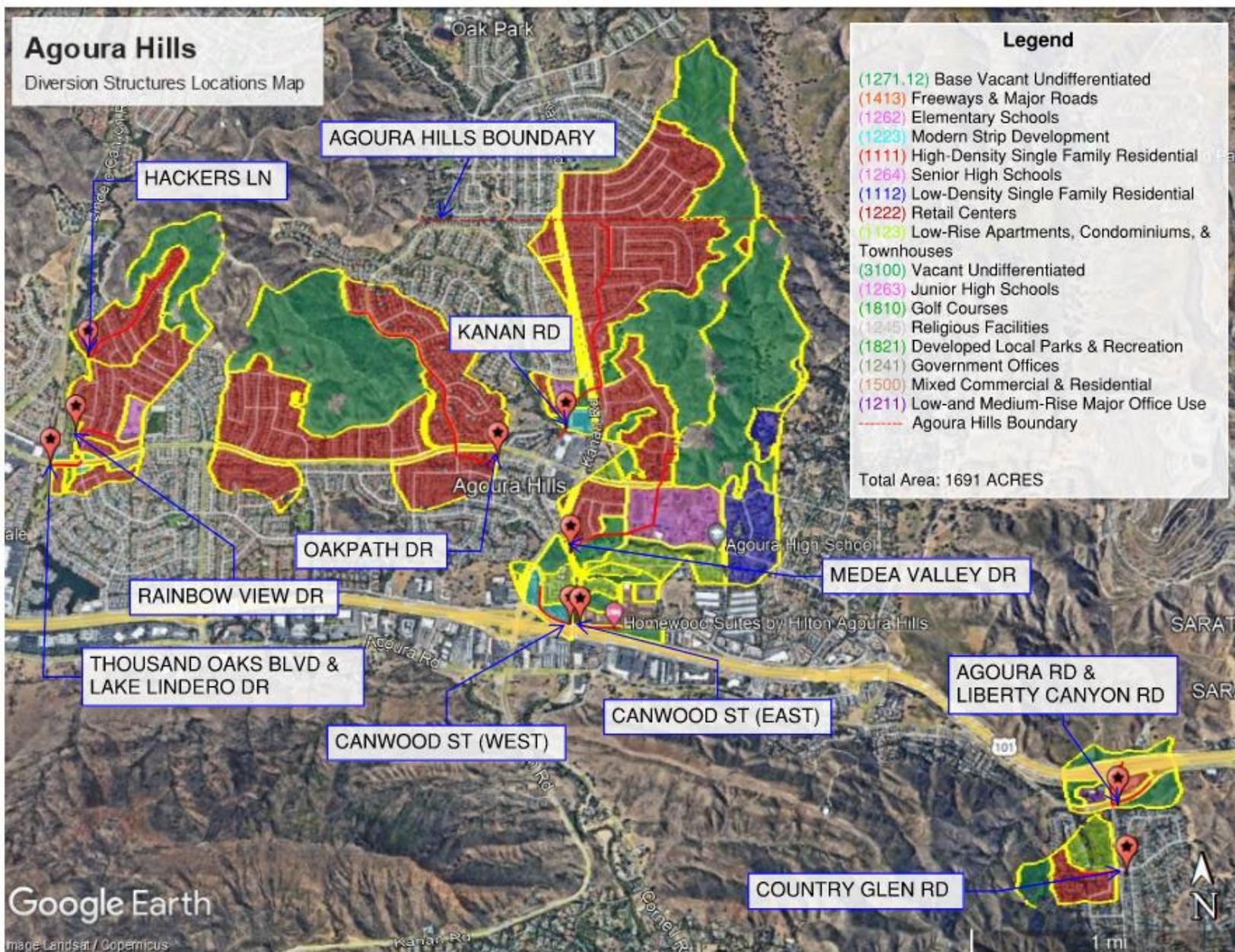
Project Location – 10 distributed locations within Agoura Hills

CITY OF AGOURA HILLS STORM WATER DIVERSION PROJECT





Project Location – Capture Area / Benefits



- Municipalities that benefit:
 - City of Agoura Hills
 - Unincorporated County of Los Angeles
 - City of Westlake Village
 - City of Oak Park (Ventura County)
 - City of Malibu (downstream receiver)
- Disadvantaged Communities
 - None in the area but hikers come from throughout the region to access our trails



Project Background

- Why was the Project Location selected?
 - Each location is adjacent to daylighting MS4 outfall and these 10 were chosen based on largest capture areas of Agoura Hills 40+ MS4 outfalls
- How was the Project developed?
 - Design was funded through a State Earmark from then Assembly Member Bloom
 - Construction had secured 1.25M in Prop 1 Round 1 (Water Quality, Supply, and Infrastructure Improvement Act of 2014)
 - Initially an end of line, dry weather, treatment plant was envisioned
 - Treatment Plant was not adequately funded
 - Deadlines for Prop 1 grant, that was awarded, were too tight for CEQA, permitting, and securing gap funding
 - Staff proposed amending the project to Diversion



Project Background

- How was the Project developed (cont.)
 - City Staff and LVMWD staff had several scoping meetings City negotiated an amendment Prop 1 Round 1 grant to focus on upstream MS4 locations first
 - City negotiated an amendment to the State Earmark for project
 - Staff hired M6 Consulting, Inc. to design and seek permits for the project
 - Outreach efforts were done at the State of the Watershed 2023, City's public events/meetings (City sponsored concerts in the park, City Council Meetings, City Public Works Subcommittee Meetings) and posted to the Agoura Hills City Website



Project Background

- Which regional water management plan includes the proposed project?
 - The Regional Watershed Management Plan for the Cities of Agoura Hills, Calabasas, Hidden Hills, Westlake Village, and the County of Los Angeles
 - These installations are considered BMPs in that document
- Description of benefits to municipality/municipalities
 - Collection of polluted runoff prior to entering various water bodies
 - Improved water quality and habitat of local water bodies
 - Provides local water supply to reduce dependence on imported water
- Description of benefits to Disadvantaged Communities
 - No benefits identified to Disadvantaged Communities



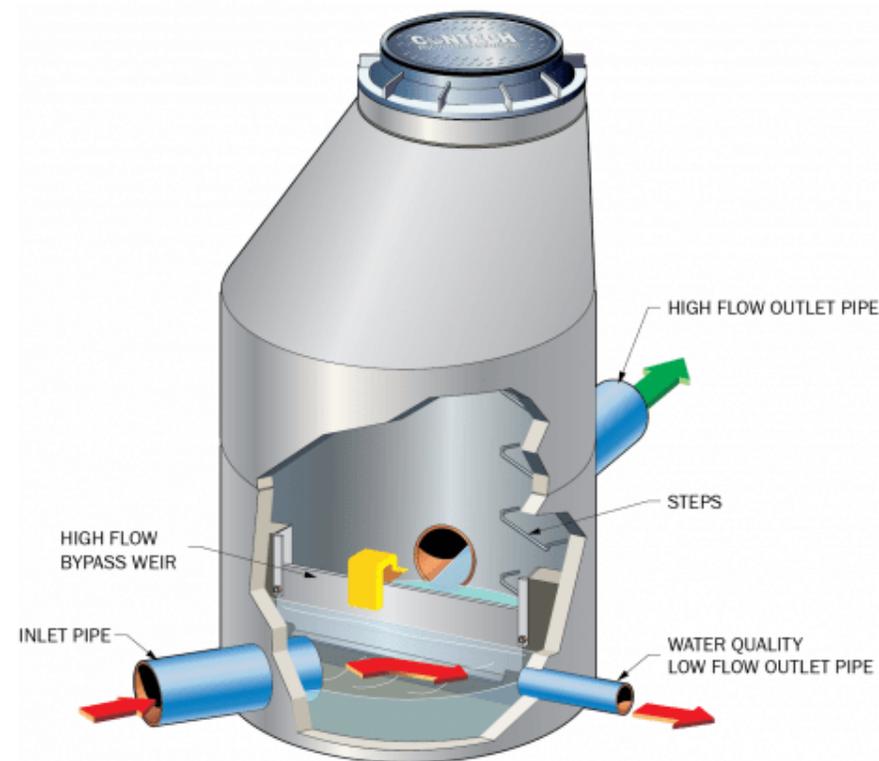
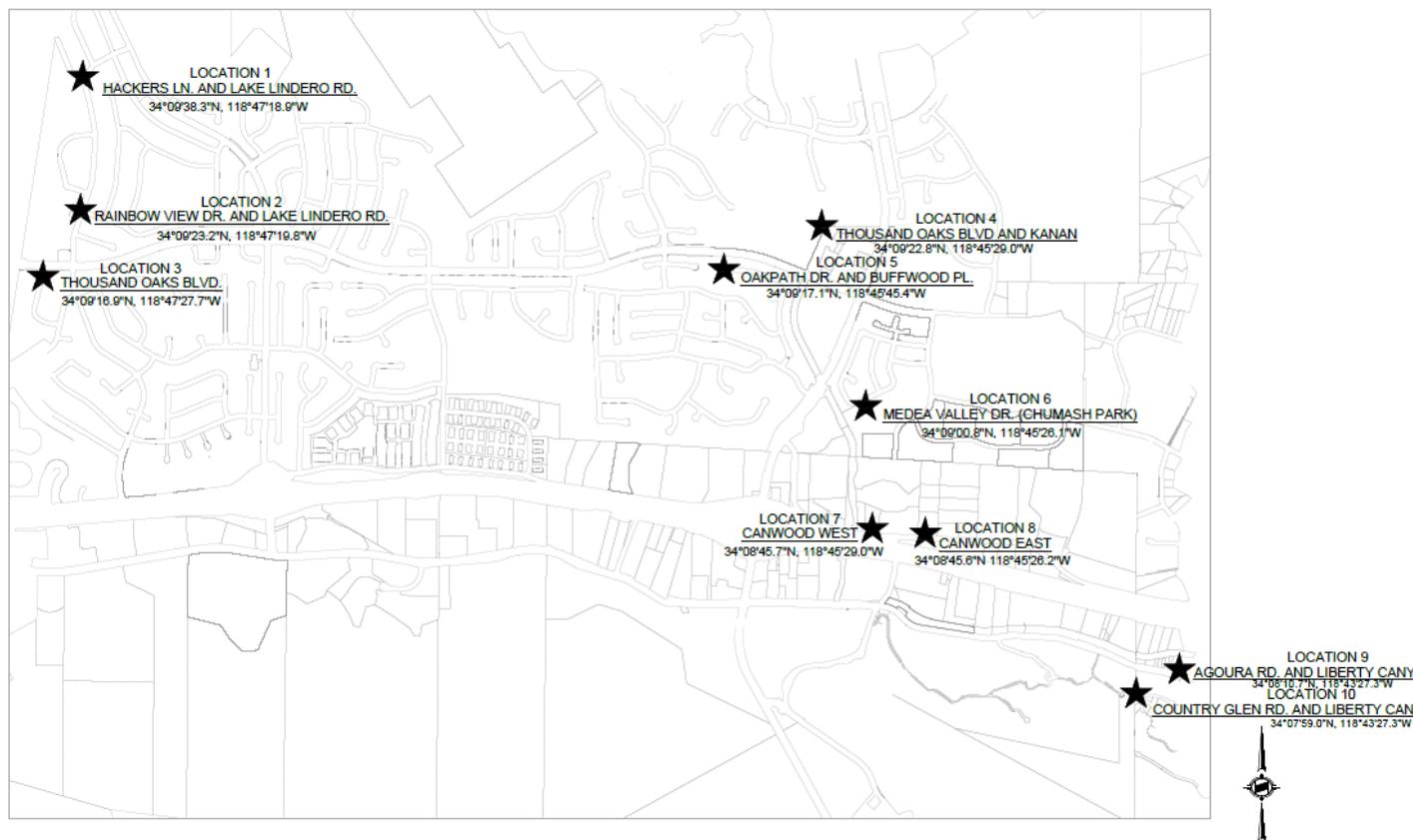
Partners

- Who are the implementation partners already identified?
 - City of Agoura Hills
 - Las Virgenes Municipal Water District (LVMWD)
 - Los Angeles County Flood Control District
 - Agoura Hills City Mall (permanent construction easement)
- What communities or groups have expressed support for the project?
 - Lake Lindero Home Owners Association (3 of the diversions will remove contamination prior to entering the lake)
- Have you received a letter of concurrence from the municipality (if needed)
 - Not applicable
- Have you received a letter of concurrence from the Flood Control District (if needed)
 - Yes
- Have you yet engaged the appropriate vector control district about the project concept?
 - The facilities are contained underground and no vector control issues are anticipated



Project Details

CITY OF AGOURA HILLS STORM WATER DIVERSION PROJECT



- Locations are distributed and located in existing asphalt paved areas, all facilities will be underground with the exception of electrical boxes and in one location a solar panel
- Simplified schematic shown to the right



Cost & Schedule

Phase Costs				
Phase	Description	Cost	Start Date	Completion Date
Planning	A Categorical Exemption was conducted for the project for our environmental permits. Envicom as m6 Consulting's subconsultant wrote and filed the memo. This cost is included in m6 Consulting design contract.	\$ 1.00	07/2021	04/2023
Design	LACFCD Permit Fees	\$ 465.00	07/2021	07/2023
Design	m6 Awarded Contract for Design	\$ 359,810.00	07/2021	08/2023
Planning	Planning costs were within m6 Consulting's Awarded Contract for design. As a part of design, the alternative analysis was conducted, and the 10 diversion locations were selected.	\$ 1.00	07/2021	08/2023
Construction	Engineers Estimate for Construction for the Project	\$ 2,221,953.27	09/2023	07/2024
Total Funding:		\$ 2,582,230.27		

Annual Cost Breakdown	
Annual Maintenance Cost:	\$ 31,230.00
Annual Operation Cost:	\$ 348,989.00
Annual Monitoring Cost:	\$ 18,060.00

- Annual Costs will include:
 - Maintenance
 - Periodic cleaning/clearing
 - Valve exercising
 - Operation
 - Payment to LVMWD for treatment
 - Water Quality Monitoring
- Project Lifespan & Lifecycle Cost = 30 years

Module-generated Life-Cycle Cost for Project*	\$ 10,023,476.38
Module-generated Annualized Cost for Project*	\$ 536,488.12



Funding Request

Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$1,368,782.49	Construction, O&M, and Monitoring	Match funds for Prop 1 Round 1 Grant, And 1 st year maintenance*
2	\$398,965.41	O&M and Monitoring	2 nd year maintenance plus 2% inflation Note: LVMWD costs not inflated
3	\$400,248.98	O&M and Monitoring	2 nd year maintenance plus 2% inflation Note: LVMWD costs not inflated
4	\$401,558.24	O&M and Monitoring	2 nd year maintenance plus 2% inflation Note: LVMWD costs not inflated
5	\$402,893.68	O&M and Monitoring	2 nd year maintenance plus 2% inflation Note: LVMWD costs not inflated
TOTAL	\$2,972,448.80		

*LVMWD Collection and Treatment Cost, electrical service, inspection, and maintenance

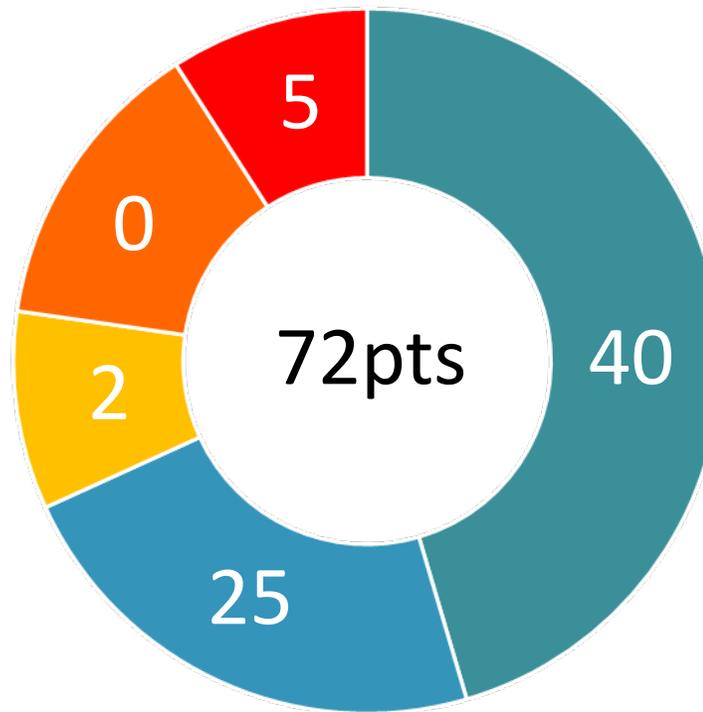
- \$1.25M Leveraged Funding from California State
- Description of future potential SCW funding requests, if applicable



Score as confirmed by the Scoring Committee

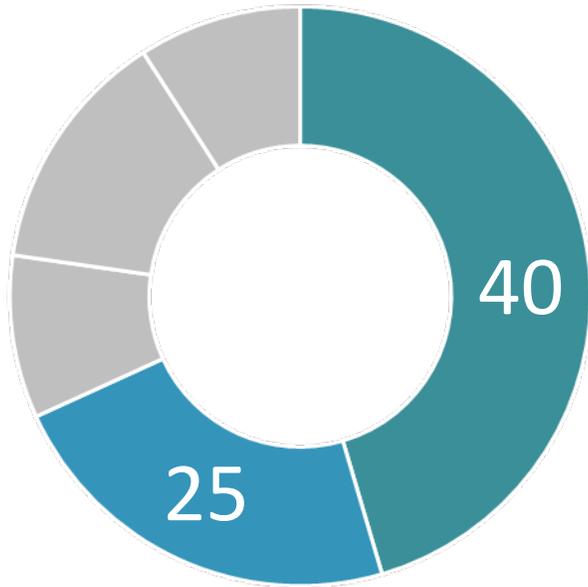
The Scoring Committee confirmed this score on October 23, 2023.

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





Water Quality & Water Supply Benefits

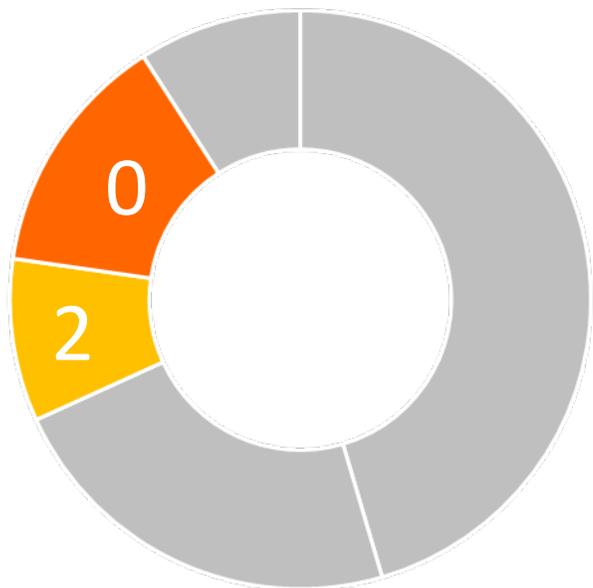


The Scoring Committee confirmed this score on October 23, 2023

- Pollutant Reduction – 100% during dry weather, clearing of accumulated pollutants during first flush
- First flush capture during the first qualifying rain event (up to .1- inch of rainfall)
- Tributary Area - includes Lindero Creek, Lake Lindero, Medea Creek, and Las Virgenes Creek
- Capacity / Volume – 1.1MGD dry up to 2.2MGD during first flush
- Creation of a recycled water source and ultimately a potable water source
- Cost effective gravity and use of existing network



Community Investment Benefits and Nature Based Solutions

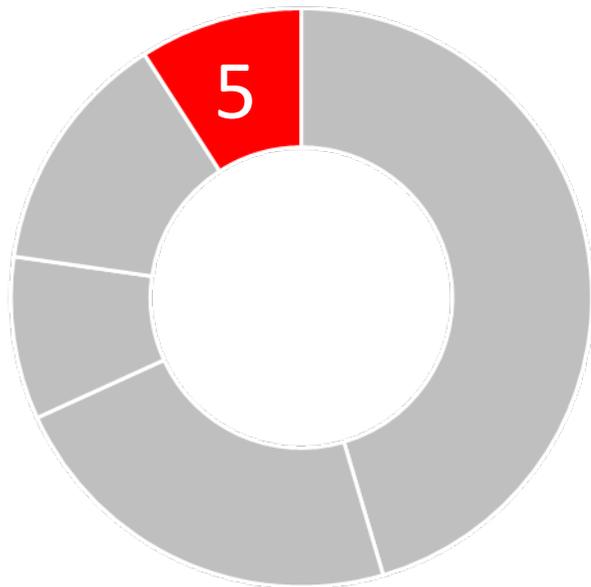


The Scoring Committee confirmed this score on October 23, 2023

- Community Investment Benefits
 - Three of the ten locations will divert polluted flow from entering Lake Lindero, a privately owned Lake available for recreational use by all City residents
 - Flow from the lake ultimately reaches the Lindero Creek which is listed as a Category 5 waterbody
- Nature Based Solutions
 - The project does not include Nature Based Solutions
 - The outcome of the project will result in downstream riparian benefits and reduction in released pollutants to the local watershed



Leveraging Funds and Community Support



The Scoring Committee confirmed this score on October 23, 2023

- Leveraging Funds
 - Prop 1 Round 1 Funding \$1.25M
 - 50% construction funding matched
 - Funding Agreements have been executed
- Community Support
 - Letters of Support
 - LVMWD
 - Liberty Canyon Homeowners Association
 - Lake Lindero Homeowners Association (owners of Lake Lindero)
 - California State Senator Ben Allen
 - Consistently supported by residents and community members at public events



Questions?

Jessica Forte

Robert Woodward