



# Cornell – Mulholland Highway Green Improvements Project

Infrastructure Program

Fiscal Year 2023-2024

North Santa Monica Bay

Alberto Grajeda

Previously Awarded TRP – No



# Project Overview

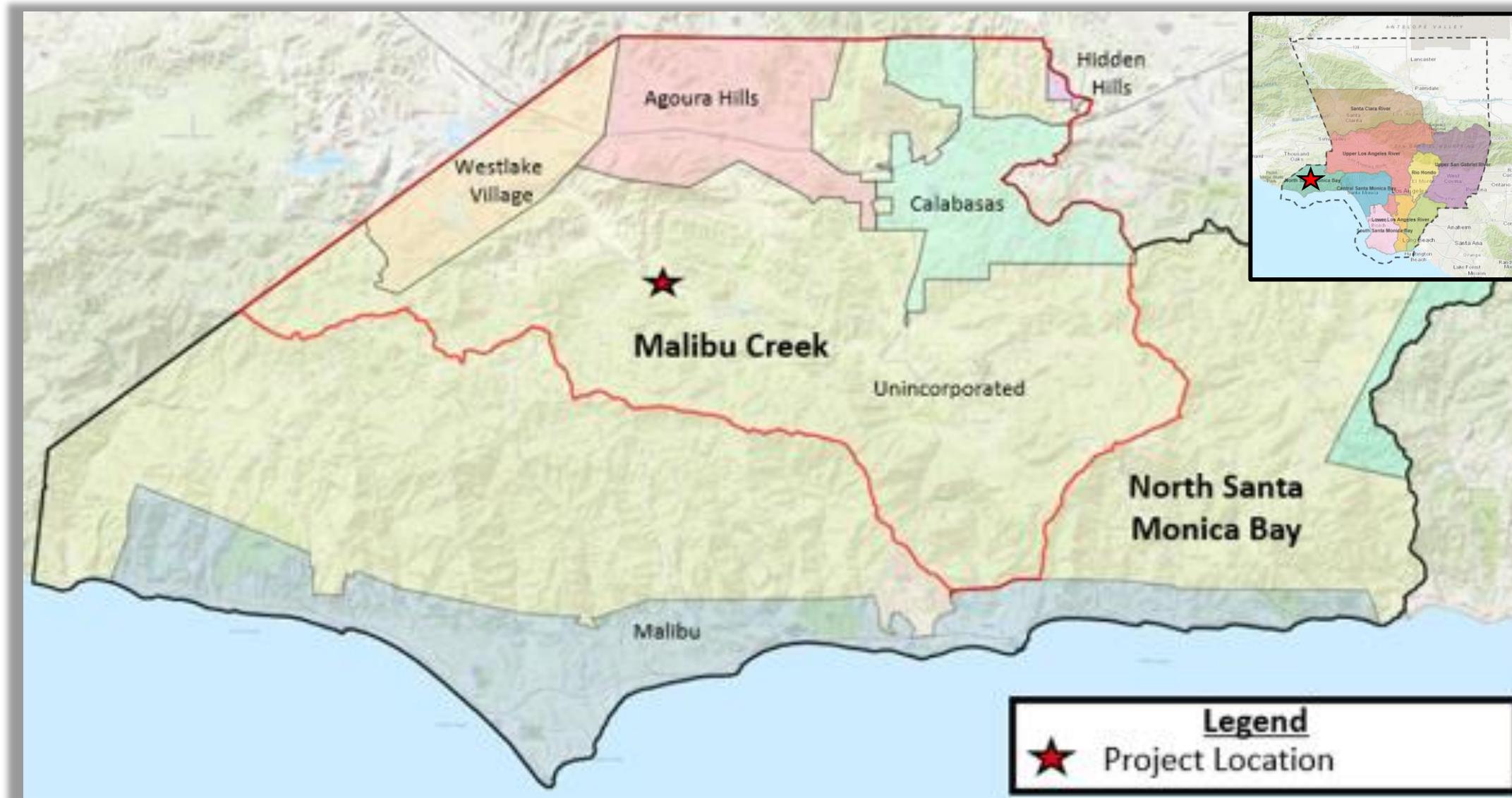
The proposed Project located in the unincorporated community of Cornell will improve water quality and provide community enhancements

- Water Quality
- Community Investments
- Design
- \$350,000





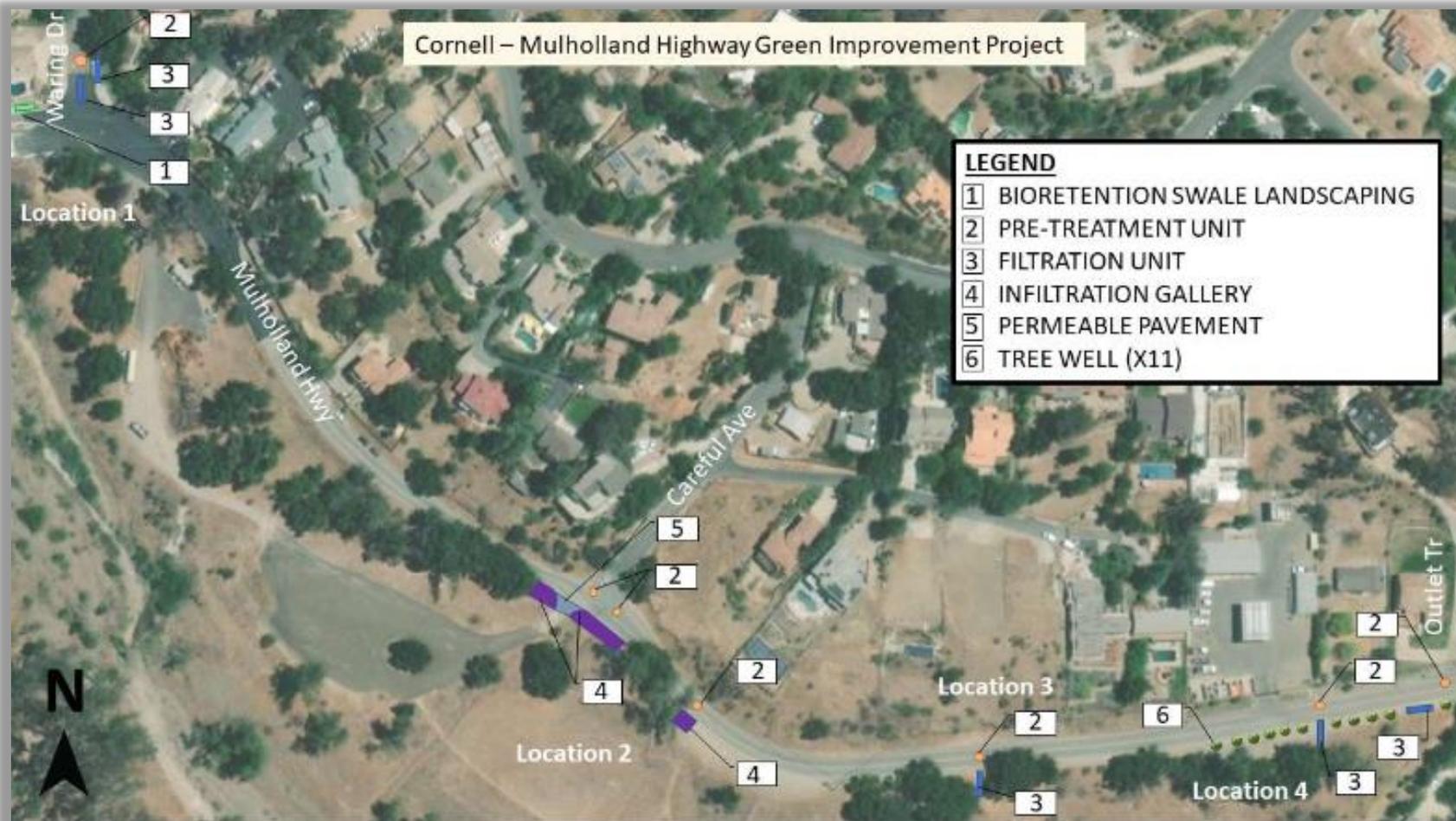
# Project Location





# Project Background

- Malibu Creek Watershed Management Plan – Priority Project
- 100% unincorporated County of Los Angeles





- June 29, 2022 – Quarterly Virtual NSMB Watershed Community Meeting
- July 21, 2022 – In person meeting with Cornell community
- Multiple letters of support from Cornell community



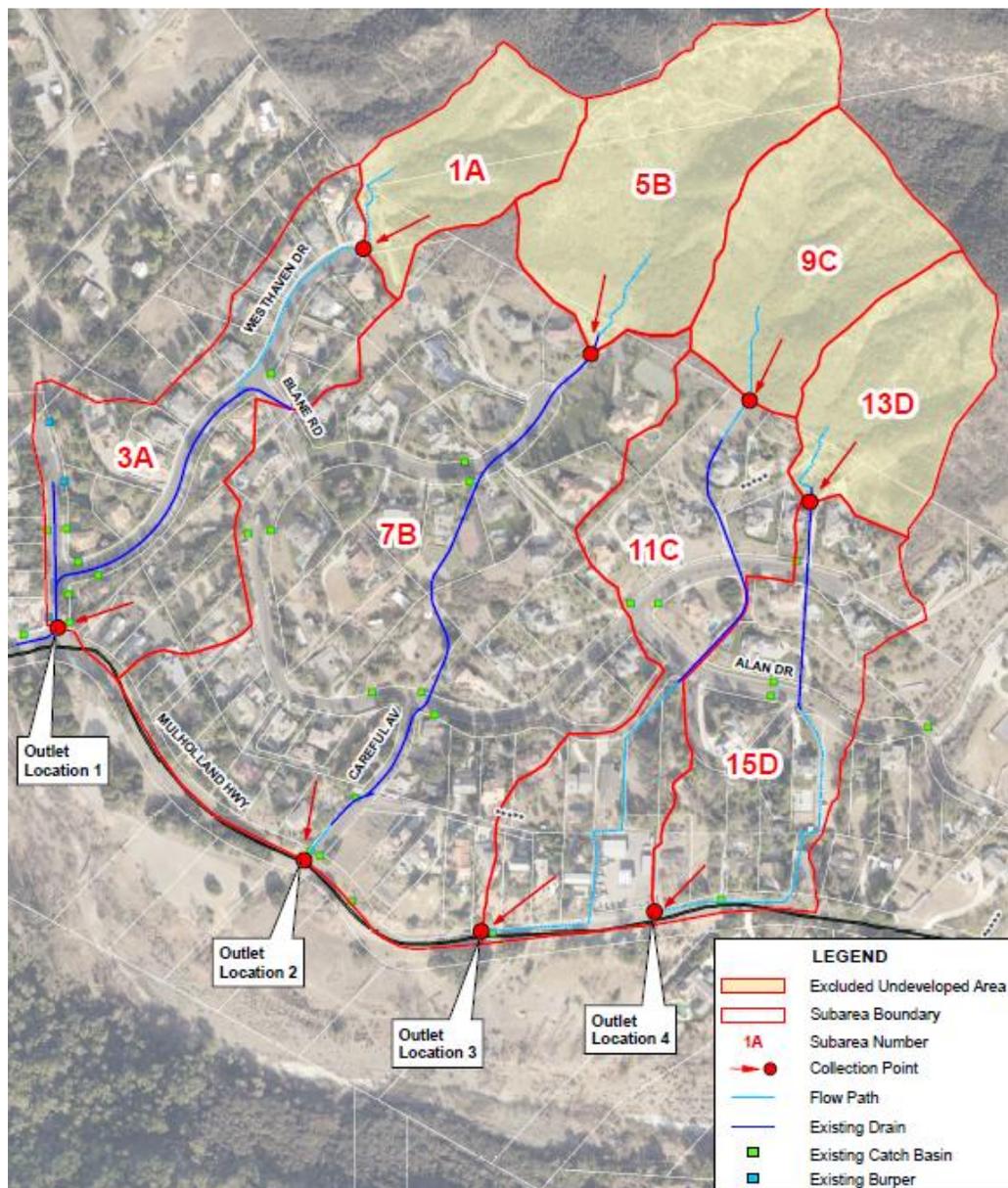
## Partners (Cont'd)

- June 28, 2022 – Los Angeles County Flood Control District Conceptual Approval
- July 20, 2022 – Engaged local Vector Control District





# Project Details



- 70 Acre Drainage Area
- 85<sup>th</sup> Percentile, 24 Hour Storm (1.1 AF)
- Low Density Single Family Residential
- Treat and Release
- Infiltration
- Existing Right of Way
- Potential to Reduce Pollutant Loads:
  - Nitrogen 65.6%
  - Phosphorous 65.4%
  - TSS (PCB/DDT) 83%



# Project Details

- ① EXISTING STORM DRAIN
- ② DIVERSION STRUCTURE
- ③ INFLUENT PIPE
- ④ PRETREATMENT UNIT
- ⑤ STORMWATER FILTRATION UNIT
- ⑥ PUMP WELL
- ⑦ EFFLUENT PIPE
- ⑧ CONVERGENT MANHOLE
- ⑨ EXISTING CATCH BASIN
- ⑩ SURFACE RUNOFF FILTRATION UNIT
- ⑪ PUMP CONTROL VAULT
- ⑫ MONITORING STATION
- ⑬ CONNECTION TO STORM DRAIN



- Pretreatment Units
- Filtration Units
- Treat and Release
- Infiltration Galleries



# Project Details



- Nature Based Solutions
- Bioretention Swales
- Up To 10 Tree Wells
- Native and Drought Tolerant Landscaping



# Cost & Schedule

Phase	Description	Cost	Completion Date
Planning	Development of a Project Concept Report, including 30% Plans	\$500,000	08/2022
Design	Develop 60%, 90% and Final Plans, Specifications and Estimates	\$700,000	11/2023
Construction	Award contract and construction implementation	\$1,860,000	08/2025
<b>TOTAL</b>		<b>\$3,060,000</b>	

- Annual Costs include Operation and Maintenance of underground and aboveground features
- 50 Year Project Lifespan
- \$17M Life-Cycle Cost



# Funding Request

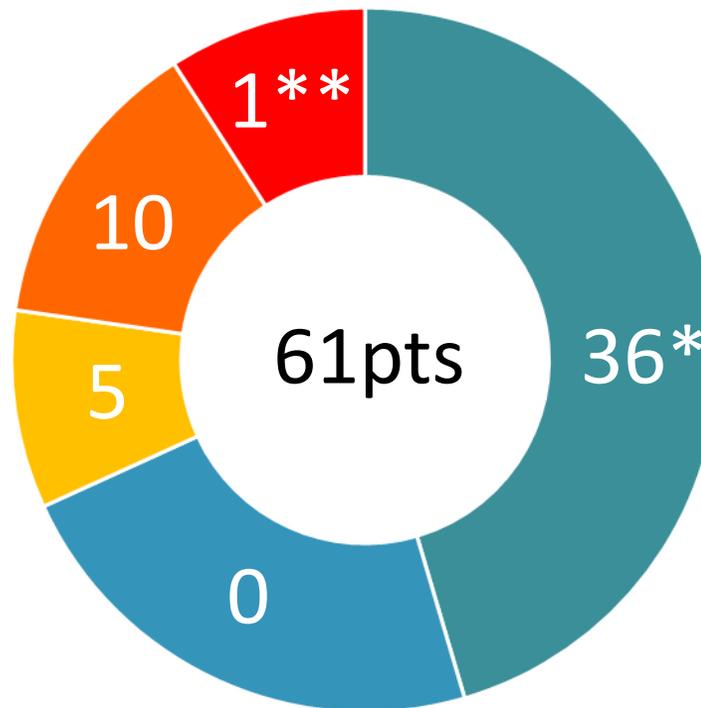
Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$350,000	Design	Complete 60% design plans, 90% design plans, and Final Plans, Specifications and Estimates
<b>TOTAL</b>	<b>\$350,000</b>		

- Leveraged Funding Amount: \$350,000 (>50% Funding Matched)
- Future SCW Funds: Construction



# Tentative Score by the Scoring Committee

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

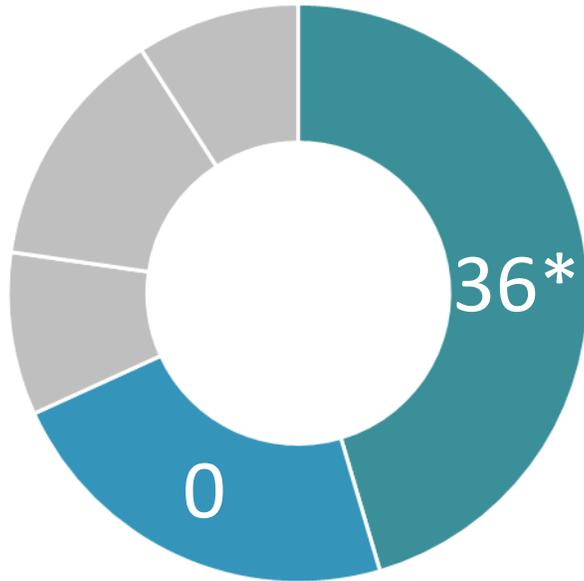


The Scoring Committee was unable to score based on October 6<sup>th</sup> Meeting

- \*4.89 ac impervious area very low
- \*Clarify capital cost, over-estimated O&M
- \*\*Secured Funding not clear
- \*\*Few letters of support



# Water Quality & Water Supply Benefits

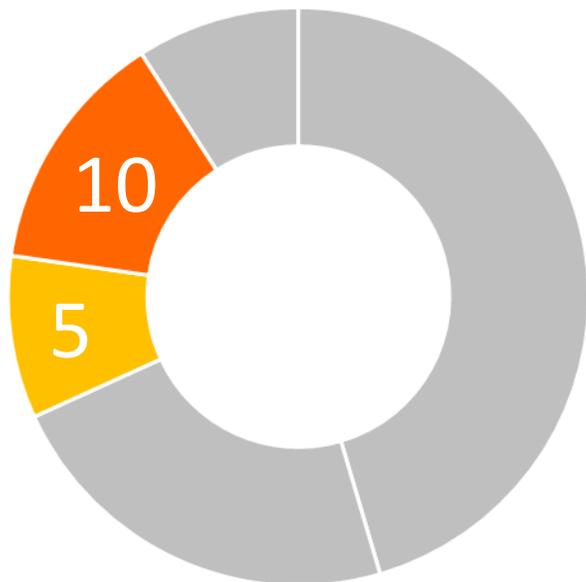


- Filtration and infiltration BMPs
- Wet Weather Project
- 72.3 Acres
- 1.1 AF Capacity
- Primary: 65.4% P, 65.6% N
- Secondary: 85% TSS (Sediment Assoc. Pollutants)
- Water Quality Cost Effectiveness: 1.14AF/\$1.86M

The Scoring Committee confirmed this score on October 6, 2022. To be rescored December 1, 2022



# Community Investment Benefits and Nature Based Solutions

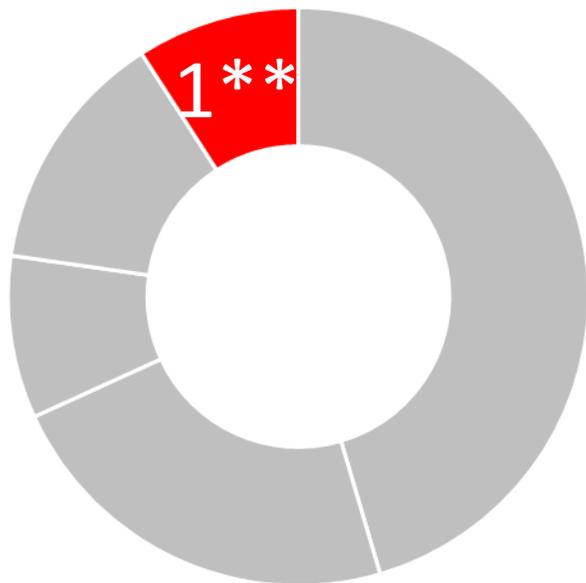


The Scoring Committee confirmed this score on October 6, 2022

- Community Investment Benefits
  - Bioretention Swales
  - Potential for up to 10 Trees
  - Improving Beneficial Uses of Waterways
- Nature Based Solutions
  - Infiltration Galleries
  - Permeable Pavement
  - Bioretention Swales
  - Tree Wells

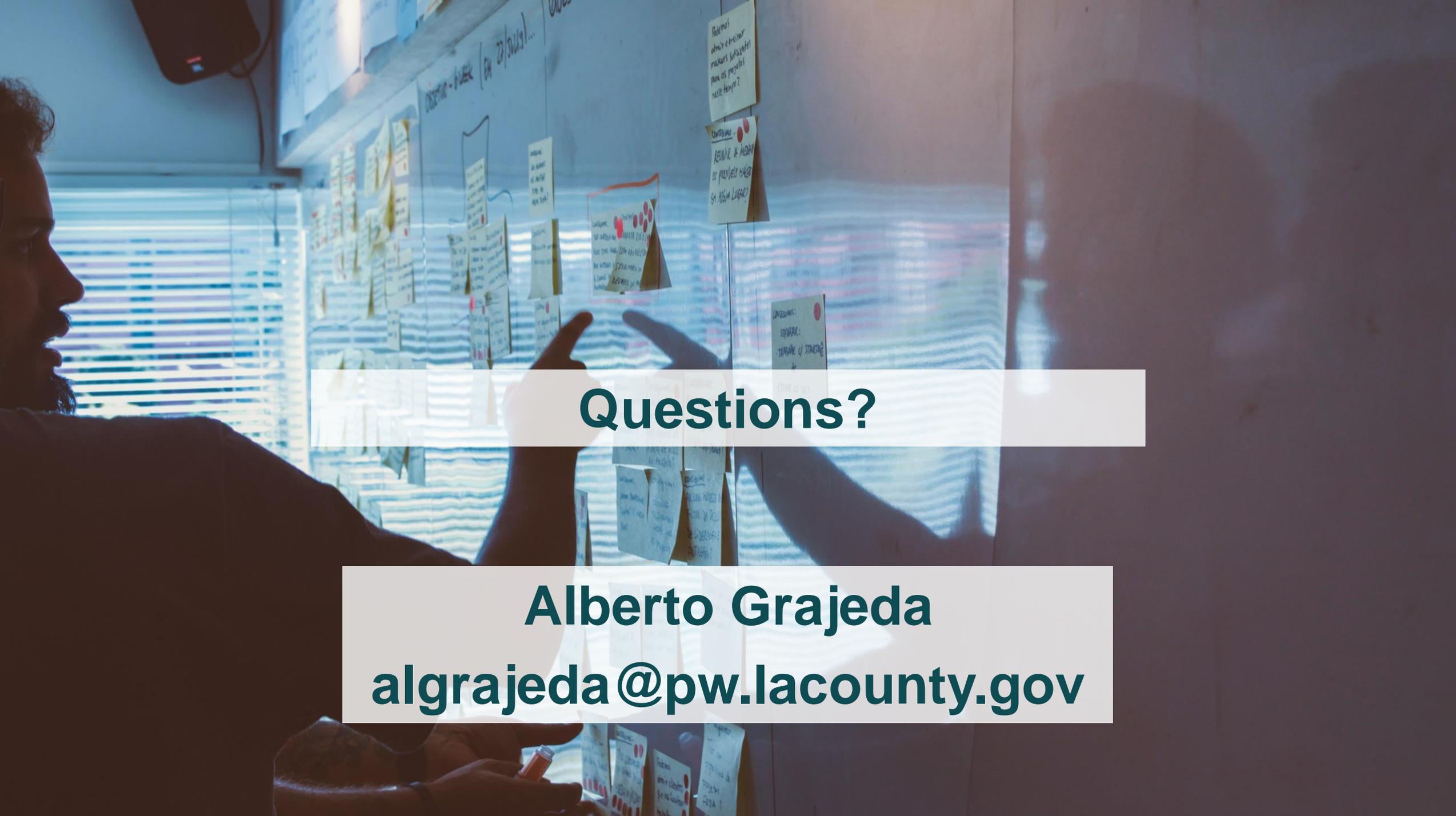


# Leveraging Funds and Community Support



The Scoring Committee confirmed this score on October 6, 2022. To be rescored December 1, 2022

- Leveraging Funds
  - Los Angeles County General Funds
  - Safe, Clean Water Municipal Funds
  - >50% Funding Matched
- Community Support
  - June 29, 2022, Safe, Clean Water Quarterly Community Meeting
  - July 21, 2022, On-site Community Meeting
  - Six Letters of Support

A man with a beard is shown in profile on the left, looking towards a whiteboard. The whiteboard is covered with numerous sticky notes of various colors (yellow, white, red) and some diagrams. The room has large windows with blinds in the background. The overall lighting is dim, with a blueish tint from the windows.

**Questions?**

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