Westlake Village MS4 Compliance Project

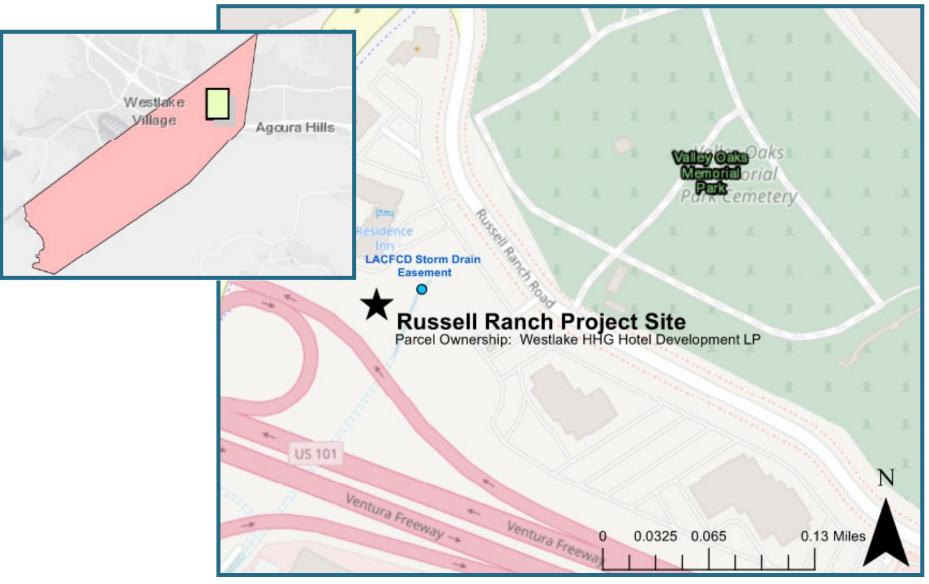
Technical Resources Program Fiscal Year 2023-2024 North Santa Monica Bay City of Westlake Village Roxanne Hughes, City Engineer Previously Awarded TRP – No

Project Overview

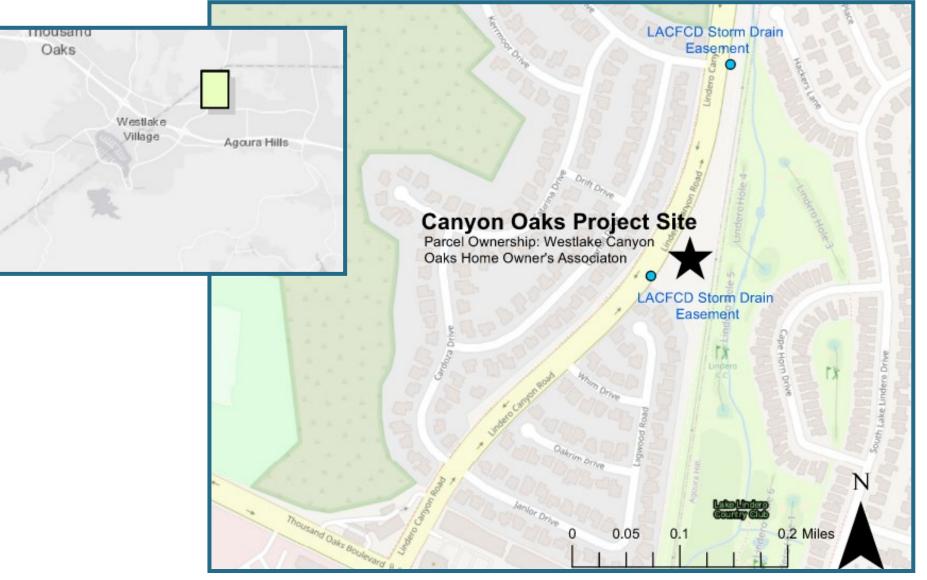
The Westlake Village MS4 Project combines two areas to meet 42% of the MS4 Permit, as per the MCW EWMP, and adds 2.5 AF to the water supply.

- Primary Objective: Improve Water Quality and Supply
- Secondary Objectives: Create a Water Supply for Community and Ecosystem
- Project Status: Planning and Design
- Total Funding Requested: \$300K

Project Location – Russell Ranch



Project Location – Canyon Oaks





• Why was the Project Location selected?

The **Russell Ranch site** will clean urban flow from commercial and industrial land uses prior to reaching Triunfo Creek.

- The treated water will be funneled to the sanitary sewer for treatment and reuse by LVMWD.
- LVMWD is in the process of building the Pure Water Project for drinking water.

The **Canyon Oaks site** addresses significant residential runoff prior to reaching Lindero Creek.

✓ IMPROVE WATER QUALITY
✓ INCREASE LOCAL WATER SUPPLY

.55 SQ MI DRAINAGE + majority of City's Commercial and Industrial Areas, Residential

Community



(Continued)

• How was the Project developed?

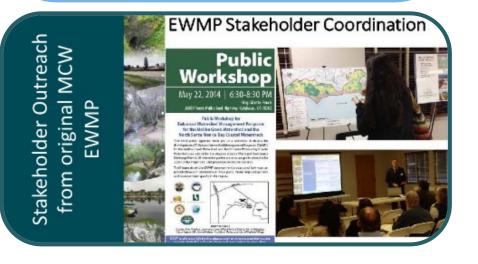
The Project is the result of a decade's worth of research and planning to improve water quality and water supply and the result of a lengthy community outreach process derived from the 2016 MCW EWMP.

• Which regional water management plan includes the proposed project?

The MCW EWMP, updated in the June 2021 MCW WMP submittal to the Regional Board, incorporated this vital City stormwater and water supply benefit project as result of a reasonable assurance analysis (RAA).

Benefits

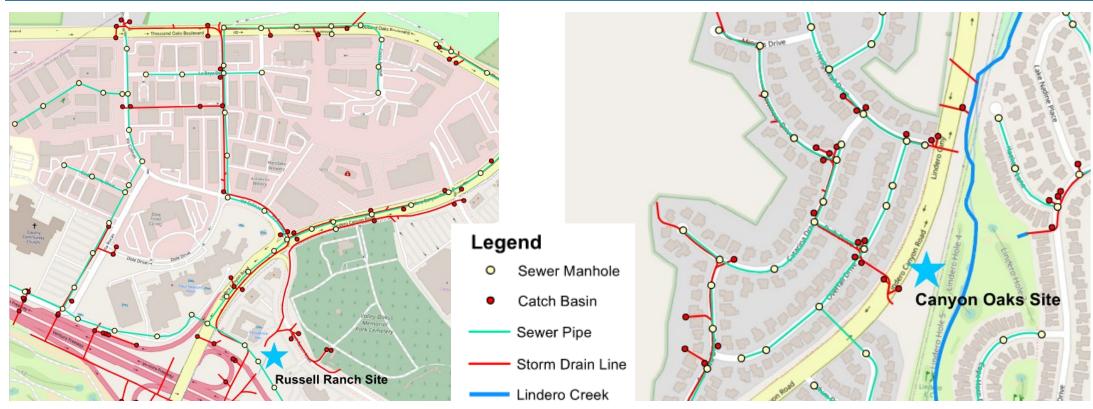
- Clean drinking water
- New water supply
- Supports ecological beneficial uses
- Supports recreational beneficial uses





- Who are the Project collaborators already identified?
 - The City of Westlake Village
 - Las Virgenes Municipal Water District (LVMWD)
 - Westlake Canyon Oaks HOA
 - Russell Ranch Road Property Owners
 - Los Angeles County Flood Control District (LACFCD)
- What communities or groups have expressed support for the project? To date the Project has garnered the support of:
 - The City of Westlake Village
 - Received a letter of non-objection
 - LVMWD
 - Received a letter of support





Russell Ranch

- Includes intercepting two storm drain lines
- Install treatment and release via Nature Based Solutions
 - Partial diversion into LVMWD sewer main.

Canyon Oaks

- Intercept at least two storm drain lines
- Use land-based treatment to remove pollutants
- Release clean water into Lindero Creek
 - Supports of ecological and recreational uses



Capture Area Summary		Breakdown of Impervious Acreage in Capture Area			
Capture Area:	352 ac	Land Use Type	Percent Impervious	Acres	
Impervious Area	147.83 ac	Single Family Residential	6%	8.87	
Pervious Area:	204.17 ac	Commercial	83%	122.7	
		Open Space	11%	16.26	

Site Conditions

- Based on the findings of the MCW WMP:
 - The Russell Ranch Site is expected to treat a drainage area that covers 300 acres
 - The Canyon Oaks Site will treat 52 acres
 - This will cover over 10 percent of the total area of the City of Westlake Village
- No alternative locations exist to achieve the desired benefits

Project Details

(Continued)

The City of Westlake Village prioritizes nature-based solutions as drivers of design

- The community is excited because it will address long running water quality concerns and create additional water supply.
- The project will include thoughtfully curated landscaping, using native plants sourced from the immediate local ecosystems

Reduce Pollutants



2.5 ACRE FEET BMP CAPACITY RUSSEL RANCH SITE

2.6 ACRE FEET BMP CAPACITY CANYON OAKS SITE



Russell Ranch site

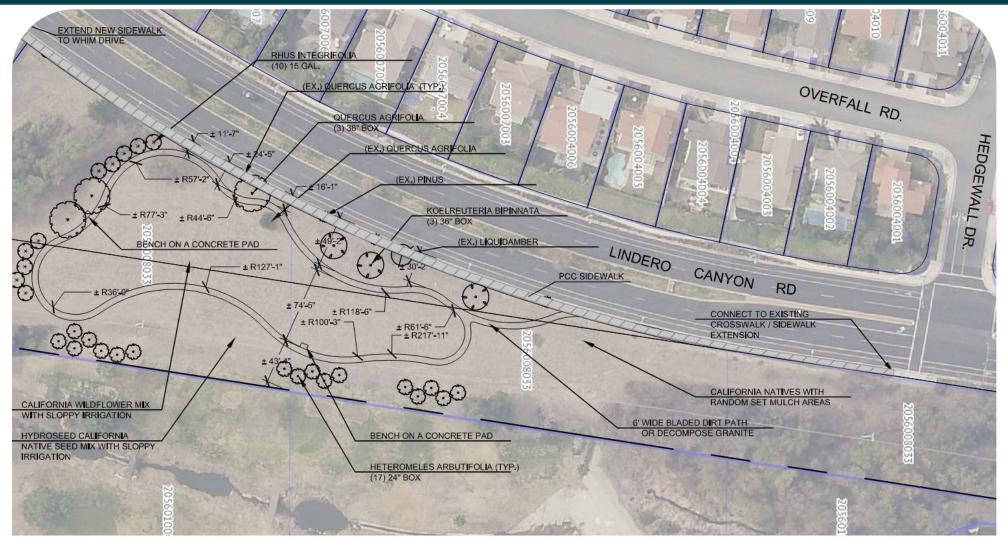
- Pretreatment process will be integrated into a standing grove of protected oaks
 - Maintain our historic tree communities is part of the treatment plan

Canyon Oaks site

- Treat water via creation of a passive park
 - Utilizing both pretreatment and biofiltration
- Returning treated water to Lindero Creek and Lake Lindero
- Passive park will create a place for exercise and enjoying green space.



(Continued)





City of Westlake Village 31200 Oak Crest Drive Westlake Village, Ca 91361 EXHIBIT A Lot 80 - Passíve Park Conceptual Plan



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Cost & Schedule

Phase	Description	Cost
Construction	Award contract and construction implementation	\$1,750,000.00
Planning and Design	Early concept design, pre-project monitoring, feasibility study, site investigations, project design, project audits, and environmental impact studies and permitting	\$300,000.00
TOTAL		\$2,050,000.00

Annual Cost Breakdown				
Annual Maintenance	\$20,000.00			
Annual Operation	\$10,000.00			
Annual Monitoring	\$10,000.00			
TOTAL	\$50,000.00			

- Project Lifespan: 50 Years
- Lifecycle Cost: \$ 4,550,000



Year	SCW Funding Requested	Phase	Efforts during Phase and Year
1	\$300,000.00	Planning and Design	
TOTAL			

• Description of future potential SCW funding requests, if applicable

Questions?

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Roxanne Hughes