

McCambridge Park Stormwater Capture Multi-benefit Project | City of Burbank

Safe, Clean Water Technical Resources Program



Project Overview

Location:

- McCambridge Park, a city-owned park in Burbank
- Located in an open space area
- Tributary to Burbank Western Channel and LA River



Key Component: Underground stormwater capture system

- Fed by diverting storm drains that border the park
- Tributary area up to 1,000 acres, including a landfill

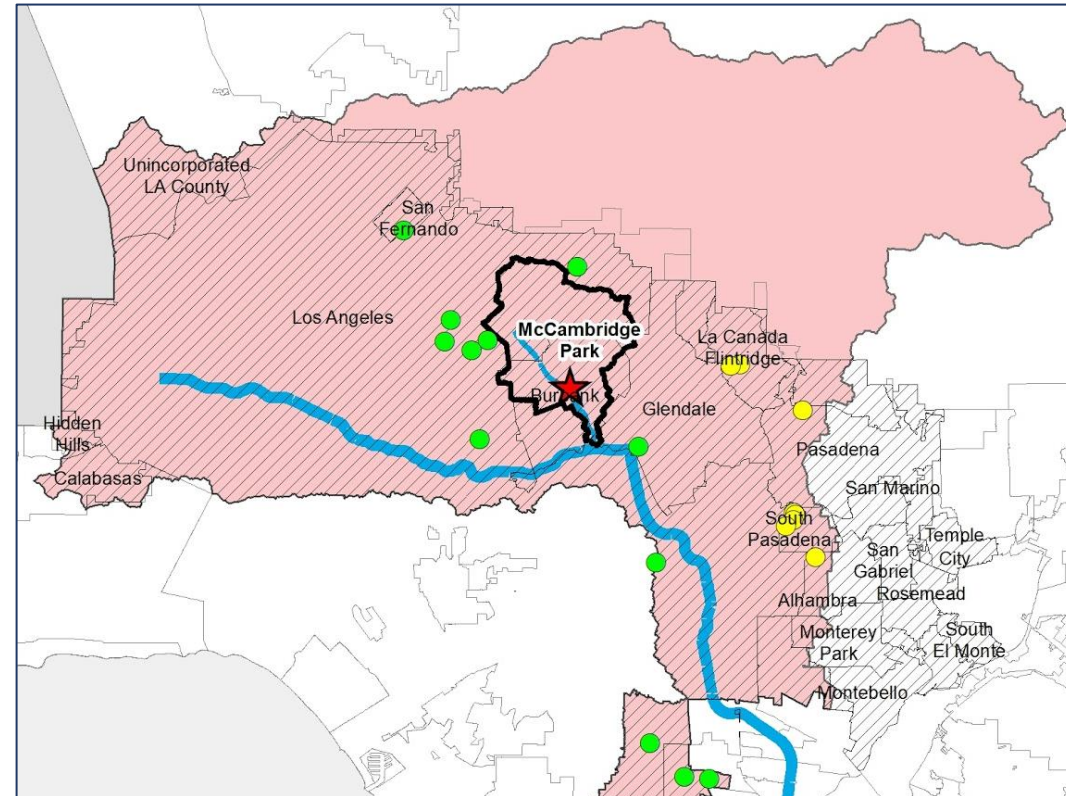
Key Benefits:

- Water quality (protects Burbank Western Channel and LA River)
- Water supply (via aquifer recharge or reclamation)
- Community (park improvements)
- Disadvantaged communities (west border, 0.5 miles SE)
- Nature-based solutions (parking lot bioswales, trees)

Funding Request: \$300,000 to prepare a Feasibility Study following SCWP guidelines

Watershed Considerations

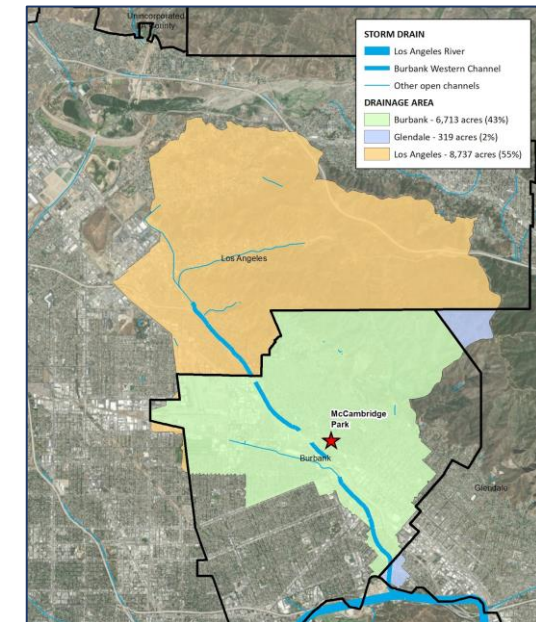
- The Project drains to Burbank Western Channel and LA River
- Burbank Western Channel:
 - Is a major LA River tributary
 - Is impaired (as is LA River)
 - Is under TMDLs for metals, bacteria, and trash
 - Requires its own water quality protection and projects



Location of project within Burbank Channel Watershed. (Circles represent ULAR WASC 20/21 SCW submissions.)



Idealized depiction of the Burbank Western Channel



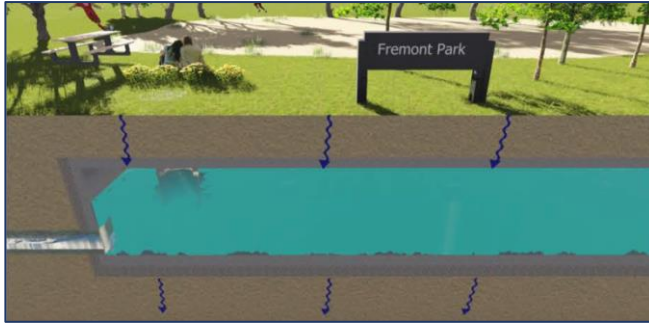
Location of project within Burbank Channel Watershed.

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Water Quality & Supply



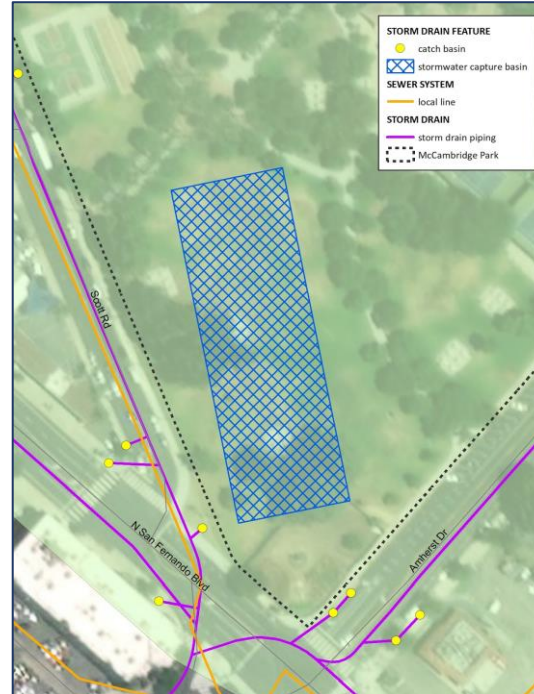
The Project will include an underground regional stormwater capture and infiltration system (like that pictured above) situated in an open space area of the park. The Feasibility Study will also consider bioswales in parking lots and planting of native trees.



Bioswales

Underground Infiltration System

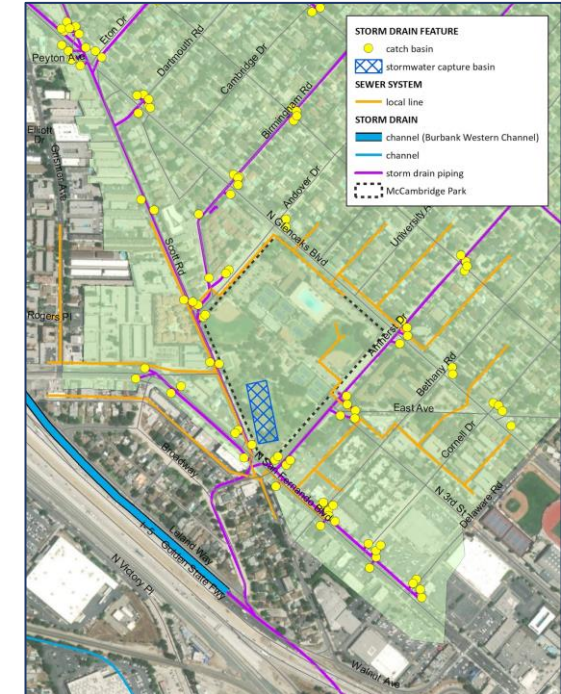
Native Trees



- The Project could be sized to capture about 35 acre-feet, but likely will be lower due to footprint and cost constraints
- The initial assumption is a 1-acre footprint with a 15-acre-foot capacity



- The Project can capture up to 1,000 acres of surface drainage, an area that includes a landfill
- Landfills can be a significant source of industrial stormwater pollution



- The Project borders the storm drains that require diversion
- The storm drain under Scott Road is only ~150 feet from system inlet and serves most of the drainage area
- The storm drain under Amherst Drive is only ~250 feet from system inlet

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Water Quality & Supply (continued)

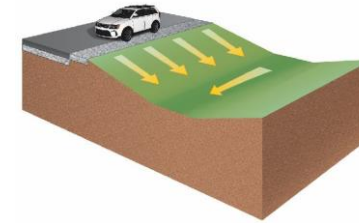
- If infiltration of captured water is deemed infeasible, captured water could be released slowly to the sanitary sewer
- An 18" sanitary sewer line is under Scott Road, ~150 feet away
 - The sanitary line drains to Burbank Water Reclamation Plant, which distributes reclaimed water to users

If infiltration is feasible, captured flows could be infiltrated into the soil and feed the San Fernando Valley aquifer

Captured flows could also potentially be used to supplement park irrigation; this option may be explored through the Feasibility Study

Nature-Based Solutions

The Feasibility Study will consider inclusion of: bioswales in two parking lots and planting of native trees over the underground system



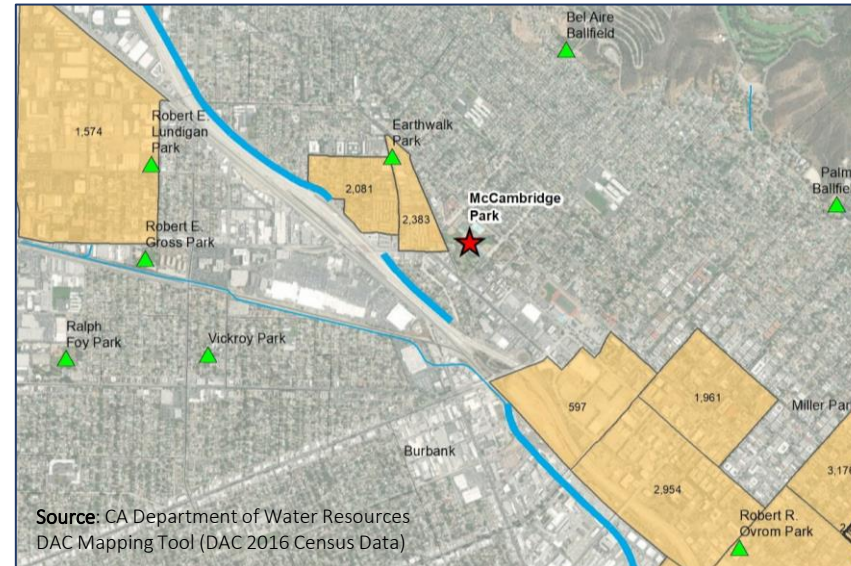
Community Benefits

Park Improvements:

- Provide shelters to shade picnic tables
- Include a new ADA pathway for access to picnic tables
- Add fitness stations
- Add a 9-hole disc golf course
- Improve walking paths
- Provide LED pedestrian and ballfield lighting throughout park
- Consider solar power at the recreation center, basketball courts, and bocce ball
- Consider bioswales in two parking lots
- Consider planting of native trees

DAC Considerations:

- Disadvantaged communities border immediately to the west and about 0.5 miles to the southeast
- Disadvantaged communities will directly benefit from the park improvements



In Closing

The Project:

- Drains to LA River tributary (benefits both Burbank Channel and LA River main stem)
- Has a large capture large that includes a landfill
- Borders existing storm drains, reducing construction costs
- Borders existing sewer lines, reducing construction costs and providing water supply alternatives (if applicable)
- Has an open space location
- Is located near multiple disadvantaged communities

The Project is seeking \$300,000 in Technical Resources Program funding to prepare a Feasibility Study following SCWP guidelines