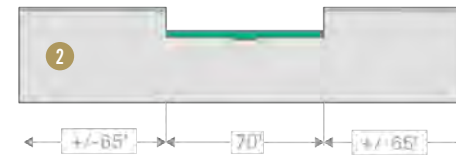




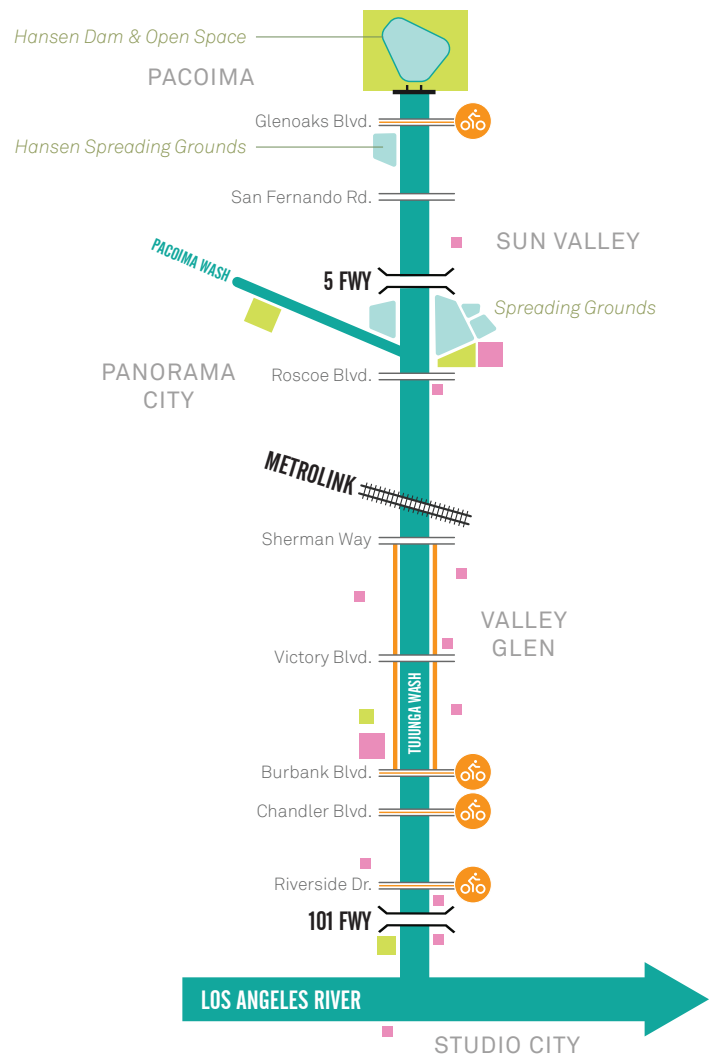
Segment 1.

This segment runs 2.7 miles from Hansen Dam to the confluence of Tujuanga and Pacoima Wash. The region directly below Hansen Dam is well-known for heavy mining activities. This segment runs adjacent to the Sheldon Pit, the Hansen Spreading Grounds, and the Tujuanga Spreading Grounds.



Segment 2.

This segment runs 7 miles from the confluence of Tujuanga and Pacoima Wash to the confluence of Tujuanga Wash and the LA River. The lower, urbanized portion of the watershed is dominated by residential use, although there are still some sizable parcels of open space. Industrial uses are clustered along San Fernando Road, adjacent to the Pacoima Wash, and along the Union Pacific Railroad corridor.



TUJUNGA WASH

Tujunga Wash is a major tributary in the Los Angeles River. The engineered section flows as a concrete-lined channel with vertical walls from its upstream end, below Hansen Dam, to its confluence with the Los Angeles River in the Studio City area of the City of Los Angeles.

The **Tujunga Wash Greenway** which includes a multi-use trail and a man-made stream run along both sides of Tujunga Wash for one-mile from Vanowen Street to Oxnard Street in the Valley Glen area of the City of Los Angeles. This provides visual access to the wash in this segment. However, the nature of the fencing prevents direct access to the wash. Also, just upstream of its confluence with the Los Angeles River, Tujunga Wash flows adjacent to Moorpark Park in Studio City, providing visual access.

POPULATION WITHIN 0.5 MILES

- Density²: 38 people/acre (LA County Avg: 13)
- Household Income²: \$51K (LA County Avg: \$54K)
- Community Burden³: Most Burdened 30% of State

KEY ADJACENCIES INCLUDE

- Hansen Dam
- Hansen Spreading Grounds
- Fulton Avenue Park
- Tujunga Greenbelt
- Monarch Stadium
- Moorpark Park
- Commercial zones on Victory Blvd and Coldwater Canyon Ave

25 SCHOOLS WITHIN 0.5 MILES

² 2010 Census
³ State of California, CES 3.0
⁵ 2010 Census/LA County Park Assessment

PARK SPACE

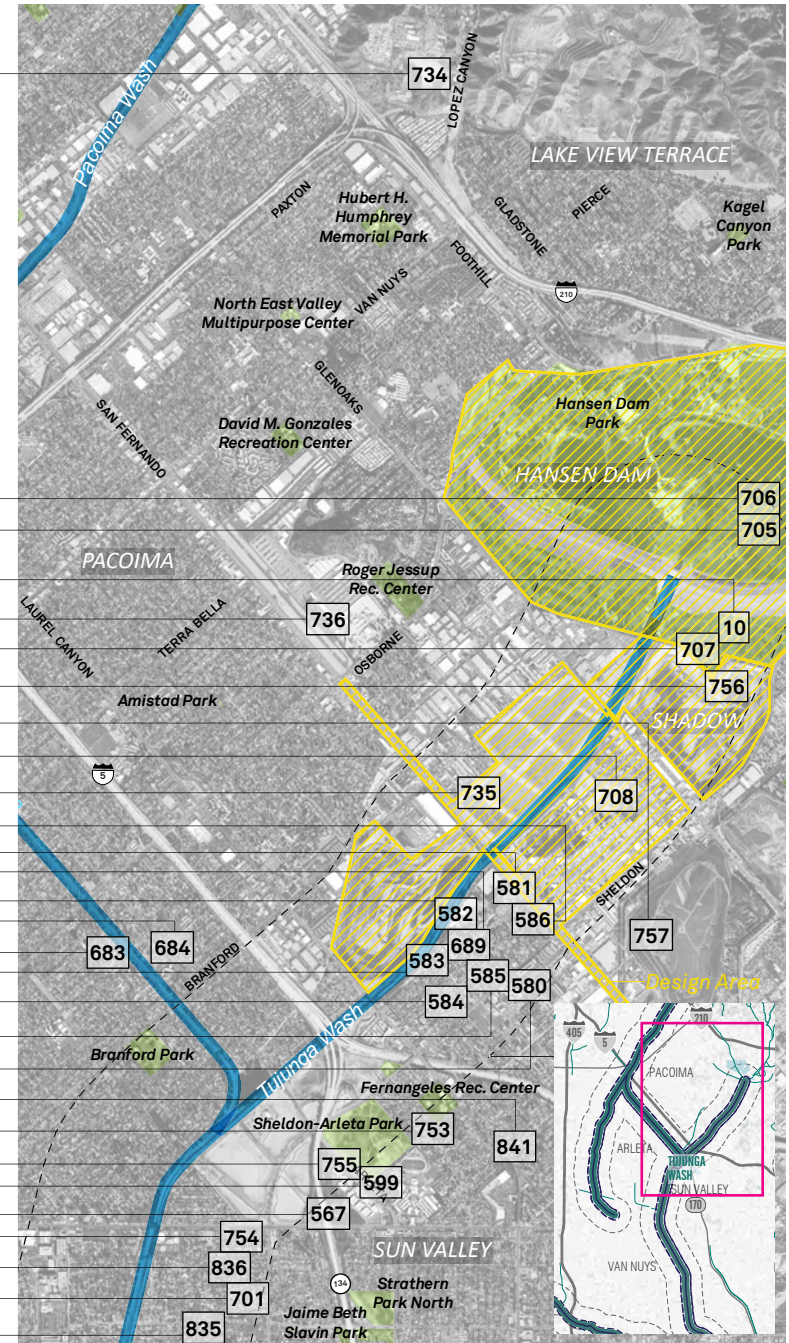
- Park Provision⁵: 1.65 acres per 1,000 people (LA County Avg: 3.3 acres per 1,000 people)
- Mainly local parks such as Valley Village and Woodbridge Park

SOME PREVIOUS PLANNING EFFORTS

- The Tujunga Pacoima Watershed Plan was developed by The River Project, an environmental organization, in 2008
- Proposed projects within the plan include construction of continuous and separate bicycle and pedestrian paths along the wash, as well as adjacent parks and greenways to increase access
- The Los Angeles River Revitalization Master Plan (City of LA) identifies the confluence of Tujunga Wash and the Los Angeles River as an opportunity area for development of a river greenway and for constructed wetlands for regional water quality treatment.

OPPORTUNITY AREAS ON TUJUNGA WASH - HANSEN DAM TO STRATHERN STREET

- OA 734 Power Line Easement Recharge Project
- OA 706 Hansen Dam Wildlife Lake Improvement
- OA 705 Hansen Dam Water Conservation and Supply
- OA 10 Tujunga Wash Expanded Multi-Use Trail and Community Connectivity
- OA 736 Railroad ROW Improvement
- OA 707 Hansen Golf Course Water Recycling Project
- OA 756 Tujunga-Sun Valley Tujunga Wash Diversion Project
- OA 757 Valley Generating Station Storm Water Capture
- OA 708 Hansen Spreading Grounds Enhancement
- OA 735 Primary Street Improvement Project
- OA 586 Tujunga Wash Open Space, Connectivity, and Stormwater Capture-6
- OA 581 Tujunga Wash Open Space, Connectivity, and Stormwater Capture-1
- OA 689 Boulevard Pit Enhancement Project
- OA 582 Tujunga Wash Open Space, Connectivity, and Stormwater Capture-2
- OA 684 Arleta Neighborhood Retrofit
- OA 683 Arleta Greenbelt
- OA 583 Tujunga Wash Open Space, Connectivity, and Stormwater Capture-3
- OA 584 Tujunga Wash Open Space, Connectivity, and Stormwater Capture-4
- OA 585 Tujunga Wash Open Space, Connectivity, and Stormwater Capture-5
- OA 580 Tujunga Wash FEMA LOMR
- OA 841 Fernangeles Park
- OA 753 Tujunga Wash Outdoor Classroom
- OA 755 Tujunga Wells Ammoniation Station
- OA 599 Tujunga Wash Enhanced Open Space and Passive Recreation
- OA 567 Tujunga Spreading Grounds Community Activation
- OA 754 Tujunga Wash Project Section 1135
- OA 836 Tujunga Wash Parking Lot to Park Conversion
- OA 701 Grace Community Church of the Valley Parking Retrofit
- OA 835 Tujunga Wash Green Transit Corridor

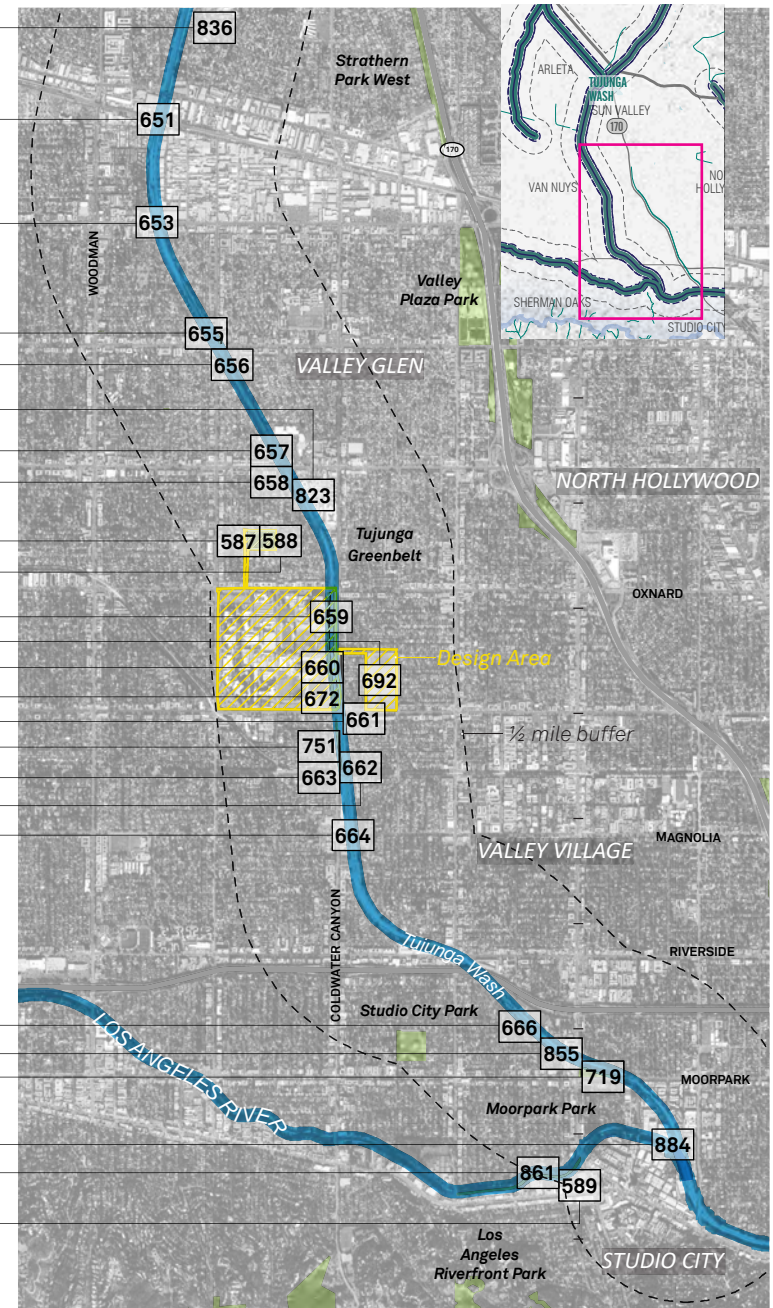


COMMENT SOURCE

- People and Recreation (Committee)
- People and Recreation (Public)
- Public Comment
- Existing & Planned Projects
- Water and Environment (Public)
- Water and Environment (Committee)
- Planning Team

OPPORTUNITY AREAS ON TUJUNGA WASH - STRATHERN STREET TO LA RIVER

- OA 836 Tujunga Wash Parking Lot to Park Conversion
- OA 651 Tujunga Wash Expanded Community Connectivity-1
- OA 653 Tujunga Wash Expanded Community Connectivity-2
- OA 655 Tujunga Wash Expanded Community Connectivity-3
- OA 656 Tujunga Wash Expanded Community Connectivity-4
- OA 823 Tujunga Wash Walkway Restoration
- OA 657 Tujunga Wash Expanded Community Connectivity-5
- OA 658 Tujunga Wash Expanded Community Connectivity-6
- OA 587 Tujunga Wash Stormwater Capture and Flooding Reduction-1
- OA 588 Tujunga Wash Stormwater Capture and Flooding reduction-2
- OA 659 Tujunga Wash New Community Connection-2
- OA 692 CBS-Viacom Radio Community Park
- OA 660 Tujunga Wash Expanded Community Connectivity-7
- OA 672 Tujunga Wash Expanded Community Connectivity-12
- OA 661 Tujunga Wash Expanded Community Connectivity-8
- OA 751 Tujunga and Pacoima Wash Bridge Retrofit and Channel Expansion
- OA 663 Tujunga Wash Expanded Community Connectivity-10
- OA 662 Tujunga Wash Expanded Community Connectivity-9
- OA 664 Tujunga Wash Expanded Community Connectivity-11
- OA 666 Tujunga Wash New Community Connection-3
- OA 855 Tujunga Wash Path
- OA 719 Moorpark Park Retrofit
- OA 884 Tujunga Wash Confluence Park
- OA 861 Upstream from Tujunga Confluence - Laurel Canyon
- OA 589 Tujunga Wash Stormwater Capture and Infiltration-1



COMMENT SOURCE

- People and Recreation (Committee)
- People and Recreation (Public)
- Public Comment
- Existing & Planned Projects
- Water and Environment (Public)
- Water and Environment (Committee)
- Planning Team



Hansen Dam Park



Holiday Lake Boat Race



Hansen Dam Equestrian Trails

HANSEN DAM LAKE REVITALIZATION

Community and Ecological Connector

Recreation amenities proposed in the 1991 Master Plan such as a 15-acre “Holiday lake” swimming area with associated amenities such as picnic areas and restaurant were never built. A 1.5-acre swim lake as part of the Aquatic Center was constructed instead. This design area studies how the “Holiday lake” could be integrated into the park.

This could include

- ▶ **Habitat connectivity** for existing fish and wildlife populations. The Basin is located near the San Gabriel Mountains, an area of relatively high biological diversity and abundance
- ▶ Promote **preservation and protection of historic and cultural sites** within the Basin
- ▶ **Tree allee and green streets** to improve connectivity, improve air quality, and capture stormwater

LAND OPPORTUNITIES

- ▶ Hansen Dam Lake Park

HOW DOES IT ALIGN WITH COMMUNITY NEEDS?

- ▶ Reduces pollution impact
- ▶ Increases access to open space
- ▶ Reduced local flooding
- ▶ Create safe connections
- ▶ Enhances habitat

Tujunga Wash Design Areas// Hansen Dam Lake Revitalization



HANSEN DAM LAKE REVITALIZATION

OPPORTUNITY AREAS IN THIS DESIGN AREA

- 10** Tujunga Wash Expanded Multi-Use Trail and Community Connectivity
- 704** Hansen Dam Link
- 705** Hansen Dam Water Conservation and Supply
- 706** Hansen Dam Wildlife Lake Improvement
- 707** Hansen Golf Course Water Recycling Project
- 725** Pacoima Water Infiltration Median and Trail
- 734** Power Line Easement Recharge Project
- 752** Tujunga Tataviam Village Parks
- 756** Tujunga-Sun Valley Tujunga Wash Diversion Project
- 807** Orcas Park Improved Facilities and Community Education Opportunity
- 833** Hansen Dam Bike Path Wentworth Alternative Bikeway Access and Safety

ALISO CANYON

PACOIMA WASH

TUJUNGA WASH

BURBANK WESTERN

VERDUGO WASH

ARROYO SECO

UPPER LA RIVER

Tujunga Wash Design Areas **HANSEN DAM LAKE (1,690 ACRES)**

IMAGINE!

June 19th. After an early morning, birders are walking from the Wildlife Lake to the Tataviam Village to help their neighbors set up for Tataviam “People facing the Sun” day — a traditional gathering where tribal families enjoy a potluck, tell stories, play traditional games, and sing bird songs in celebration of the summer solstice. The event is being held at the Hansen Dam Tataviam Interpretive Village’s haramokngna or gathering place. Over the day, people arrive on foot, bicycle, and horse. Some bring traditional dishes to share, others bring native plants used in traditional Tataviam celebrations that were grown at the Hansen Dam Green House.

CONTEXT

The 1,690-acre Hansen Dam Lake design area is actually only a small part of the Hansen Dam Flood Control Basin which consists of the Lake, a large recreation area, equestrian facilities, an aquatic center, and natural habitat areas. To the north of the Basin is the Angeles National Forest and the San Gabriel Mountains. Residential communities around the Basin include Shadow Hills, Lake View Terrace, and Pacoima.

About 46,326 people live within the vicinity of Hansen Dam Lake with an average CalEnvironScreen score in the 85th percentile of the entire state.

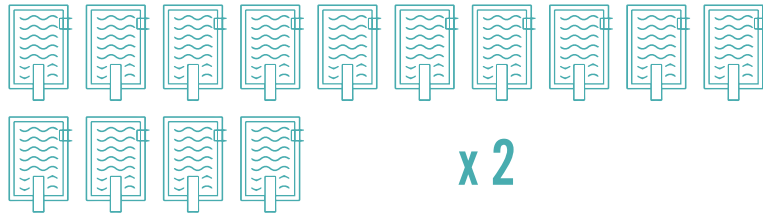
Tujunga Wash Design Areas// Hansen Dam Lake

RESILIENCY BENEFITS

Analyzing the Hansen Dam Lake design area concept through the i-Tree suite of tools, ArcMap 10.7.1, and AutoCAD yielded the following benefits. Please see Appendix F for a full description of the methodology.

WATER

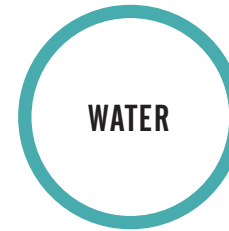
The design includes **1,437 acres** of new or enhanced permeable cover



STORMWATER CAPTURE

55.8 acre-feet

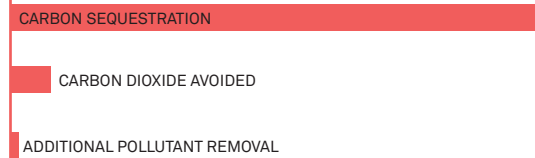
or **28**
Olympic-sized swimming pools



AIR



The design includes **6,118 trees** that sequester carbon, and remove pollutants from the air



AIR POLLUTANT REMOVAL

6,477 tons

Additional Carbon Sequestration

159 tons

Additional Carbon Dioxide Avoided

5 tons

Additional Pollutant Removal

HABITAT

The design includes **1,676 acres** of new and enhanced ecological habitat that contribute to the Rim of the Valley Corridor Preservation and **70 acres** of additional tree canopy



HABITAT CREATION

687%

the size of the 244-acre Verdugo Mountain Open Space Preserve



COMMUNITY



The design includes **1,301 acres** of new and enhanced open space and **34 miles** of new or enhanced community connections



20.2 miles

Green Streets

5.0 miles

Multi-modal paths

8.4 miles

Trails

Tujunga Wash Design Areas// Hansen Dam Lake



Tujunga Wash Design Areas// Hansen Dam Lake

Comprehensive feasibility studies, required jurisdictional coordination, environmental impacts, and other engineering design details, are not part of this plan



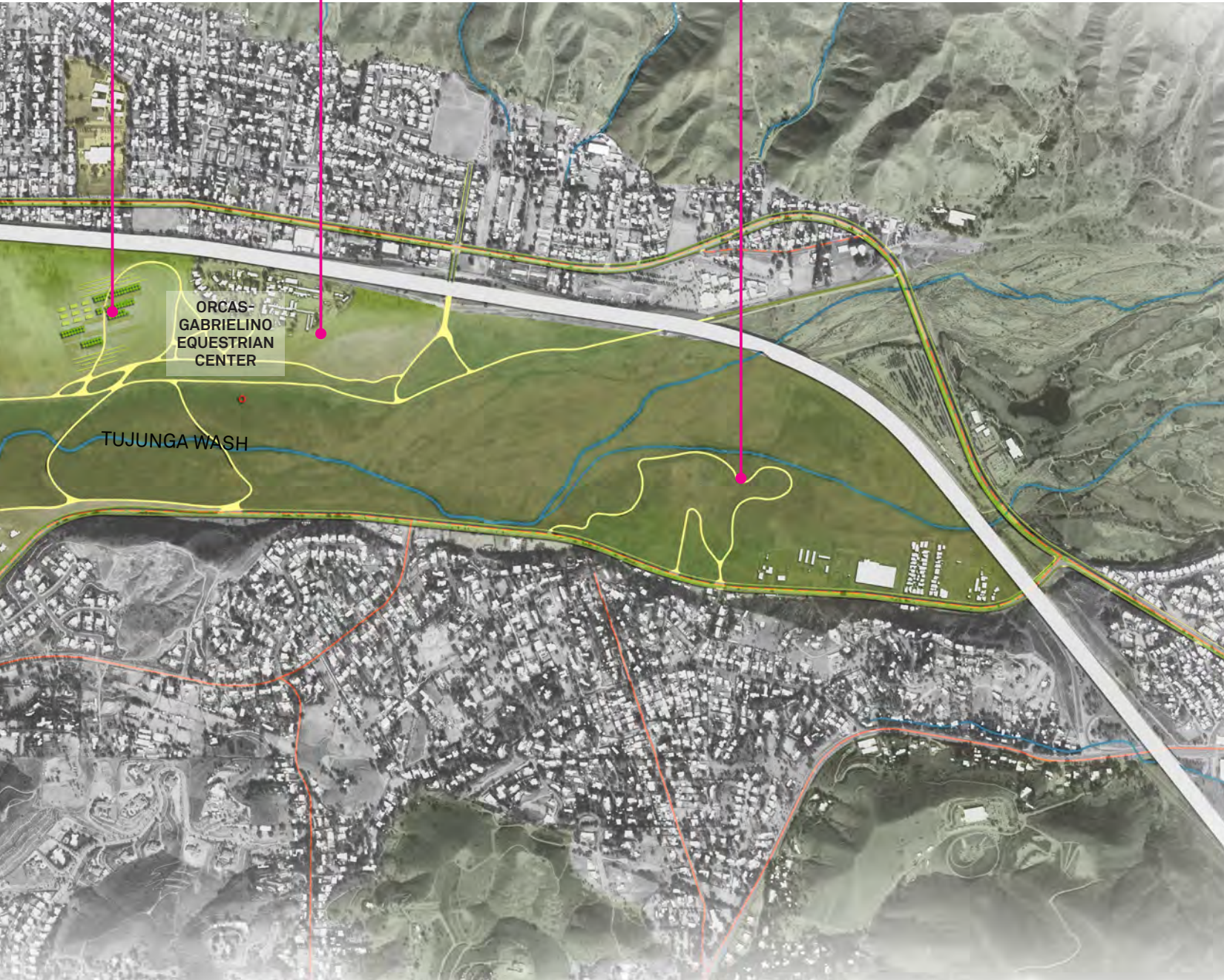
View looking north at Holiday Lake and the Habitat Islands



NATIVE NURSERIES
AND GREENHOUSES

TATAVIAM VILLAGE

ENHANCED
TRAILS



ALISO CANYON

PACOIMA WASH

TUJUNGA WASH

BURBANK WESTERN

VERDUGO WASH

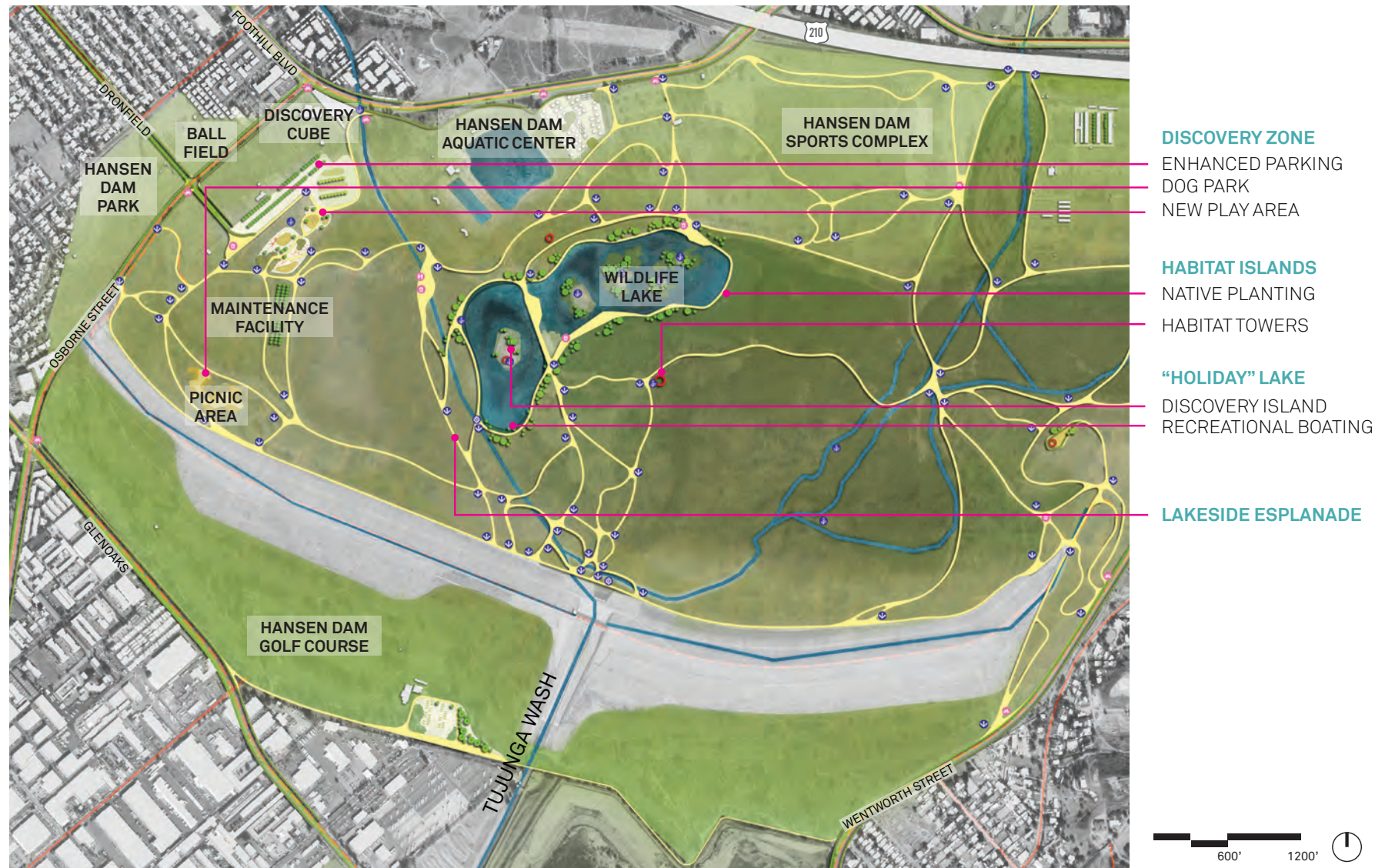
ARROYO SECO

UPPER LA RIVER

Tujunga Wash Design Areas// Hansen Dam Lake

HOLIDAY LAKE (ENLARGEMENT)

In conversations with community members, many people noted that they didn't have a strong impression of Hansen Dam Park. At over 1,400 acres and 4.5 miles long, Hansen Dam Lake is a large regional park without a clear identity. One of the key decisions in the design concept area was Chairperson Monica's Rodriguez's suggestion to bring back Holiday Lake. The historic lake was a popular place for boat races, fishing, and swimming was closed in 1982 because of sediment accumulation. The design would recreate Holiday Lake on its original site, which is currently inaccessible, and open it for non-motorized boating. The community could also admire the lake while walking, sitting, or sipping tea along the lakeside esplanade. The lake will infuse the park with whimsy, interactivity and a connection to the community's history.



Tujunga Wash Design Areas// Hansen Dam Lake

HABITAT ISLANDS

One hundred years ago, the San Fernando Valley was a wide open plain, dotted with farms and crisscrossed by the Los Angeles River and its tributary creeks. The Valley's wetlands and riparian corridors provided a haven for millions of birds traveling between breeding grounds in Mexico and Central America. The massive development of the area has made space like Hansen Dam Lake a critical habitat. The Hansen Dam Recreational Area provides several habitat types that support a variety of wildlife including open water, riparian, grassland, and scrub/shrub communities. It is also a key part of the wildlife connection via the Tujunga Wash to large areas of habitat located within the Verdugo Mountains and continuing to the San Gabriel Mountains. The area has been designated a Significant Ecological Area (SEA), known as the Tujunga Canyon/Hansen Dam SEA, by the County of Los Angeles.

The design concept strongly supports enhancing wildlife corridors with the appropriate vegetation and calls for the protection of native wildlife nursery sites and established native resident/migratory wildlife corridors.

Tujunga Wash Design Areas// Hansen Dam Lake

TATVIAM VILLAGE

The area was first inhabited by the Fernandeño-Tataviam people, a California Indian Tribe, historically known as Tataviam Band of Mission Indians. Mission San Fernando was established on September 8, 1797 and enslaved their ancestors from the traditional villages in the geographically surrounding area.

The design concept proposed partnering with the Fernandeño Tataviam Band of Mission Indians and their allies to create a richer shared human experience through a more informed understanding of Native peoples. This includes the development of a Tataviam Interpretive Village features a kitc, or traditional dwelling; a hoyatsu, or traditional sweat house; a haramokngna, or gathering place; and native plants that are used culturally. In addition, the design will provide access and ceremonial rights, culturally-competent signage, and history.

NEXT STEPS

Additional required analyses and next steps for the Hansen Dam Lake design area include:

- ▶ Collaboration with Army Corps of Engineers should occur at all points of the process
- ▶ A preliminary engineering report that includes feasibility-level analyses, cost estimates, and coordination
- ▶ Analysis of annual and seasonal water and sediment inflow conditions to identify the lake's water balance and its sustainability
- ▶ Geotechnical evaluation for soil infiltration and groundwater levels should be performed to determine if water control features may be necessary to stabilize lake levels
- ▶ Study to assess the potential for planting native vegetation to restore historical habitat wherever possible
- ▶ Biological studies for wildlife needs for habitat restoration and preservation areas
- ▶ An Environmental Impact Report/ Statement (EIR/EIS) may need to be completed to assess any potential environmental impacts
- ▶ Water quality analysis—including pollutant settling and oxygen demand
- ▶ Air quality assessment
- ▶ Study to assess whether native vegetation need be planted, or whether the existing wetlands should be allowed to expand naturally