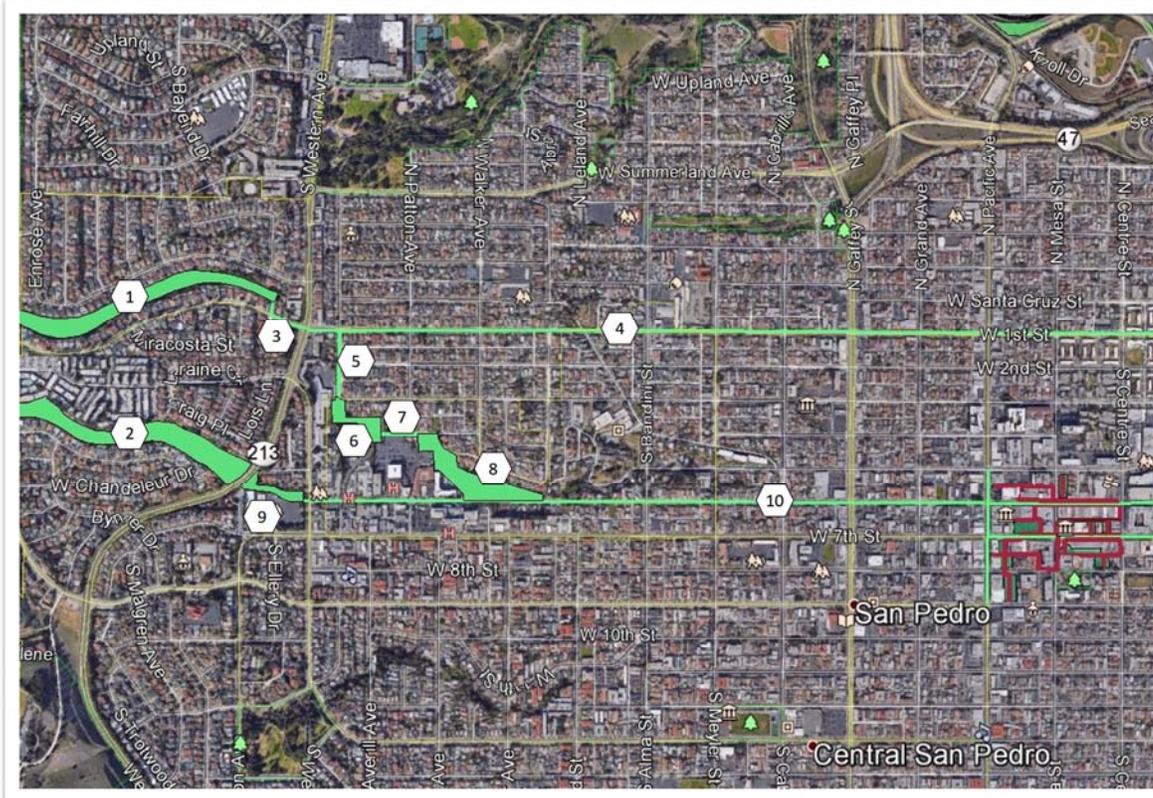


OPPORTUNITY #29– SAN PEDRO CANYON RESTORATION AND 1ST & 6TH STREET GREEN STREET BIOSWALES AND RAIN GARDENS

This opportunity involves restoring “nature’s services” along 6th Street following the natural drainage pattern of San Pedro Canyon prior to the installation of storm drains, and providing viable pedestrian connections between the remnants of San Pedro Canyon, and existing streets/sidewalks. There are several components to this opportunity. The first would



restore native habitat within the semi-natural remnants of San Pedro Canyon that lie within the San Pedro Community to the east of Miraleste Dr. There are several trails and parks to the west of these areas within the Rancho Palos Verdes that are outlined in light green, and fall into the Rancho Palos Verdes jurisdiction. Therefore, this Opportunity is to both connect to these existing “natural” areas with the remnants

of natural areas within San Pedro and to extend and enhance these connections all the way into Downtown San Pedro, along both 1st & 6th Streets. The sections of this Opportunity are as follows:

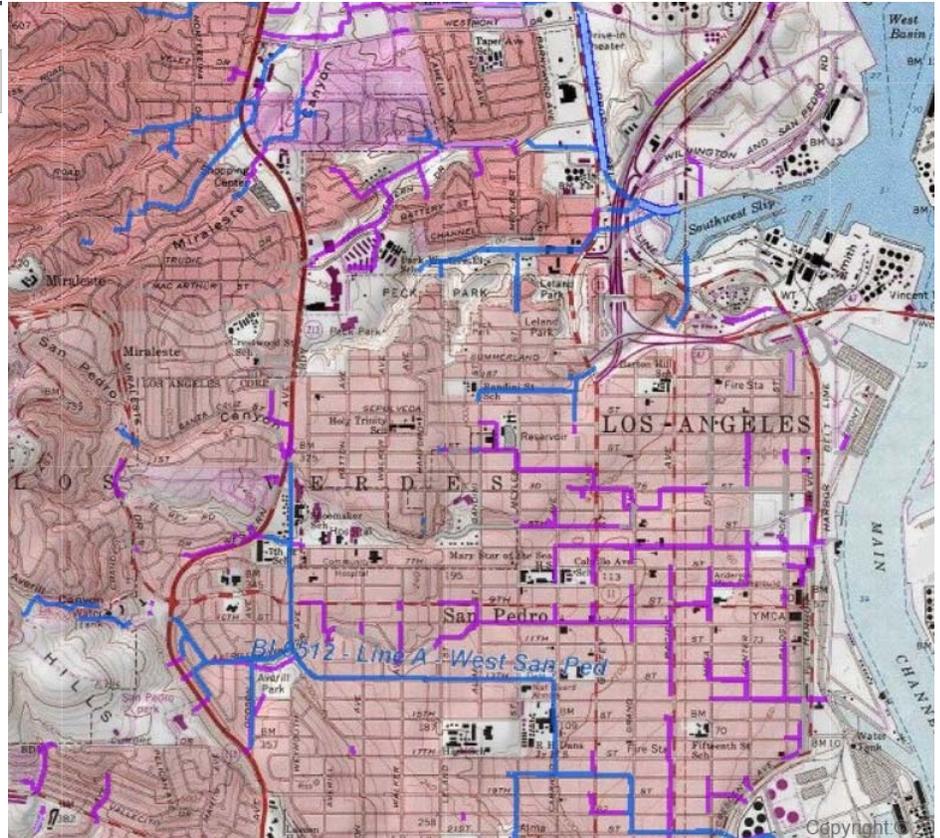
1. Section of the Canyon that flows from Miraleste Dr. to Western Ave. and that is sandwiched between Santa Cruz St. and 1st St.
2. Southern remnant of this Canyon that lies south of Miraleste Canyon Estates and north of El Rey Rd. that also flows between Miraleste Dr. and Western Ave.
3. Connection along 1st St. from Section #1 to Harbor View Dr.
4. 1st Street from Harbor View Dr. to Harbor Blvd.
5. Connection along Harbor View Dr. from 1st St. to 3rd St.
6. Small section of the Canyon that runs from the intersection of Harbor View Dr. and 3th St to 4th St.
7. Short connection along 4th St.
8. Remnant of San Pedro Canyon from 4th St. down to 6th St.
9. Small section of the Canyon between Western Ave. and Weymouth Ave. that stops at the western terminus of 6th St.
10. 6th St. from Weymouth to Pacific where 6th St. becomes a Downtown Core Green Street to the Harbor

OPPORTUNITY #29– SAN PEDRO CYN. RESTORATION/ 6TH STREET GREEN STREET

Los Angeles County Storm Drain System

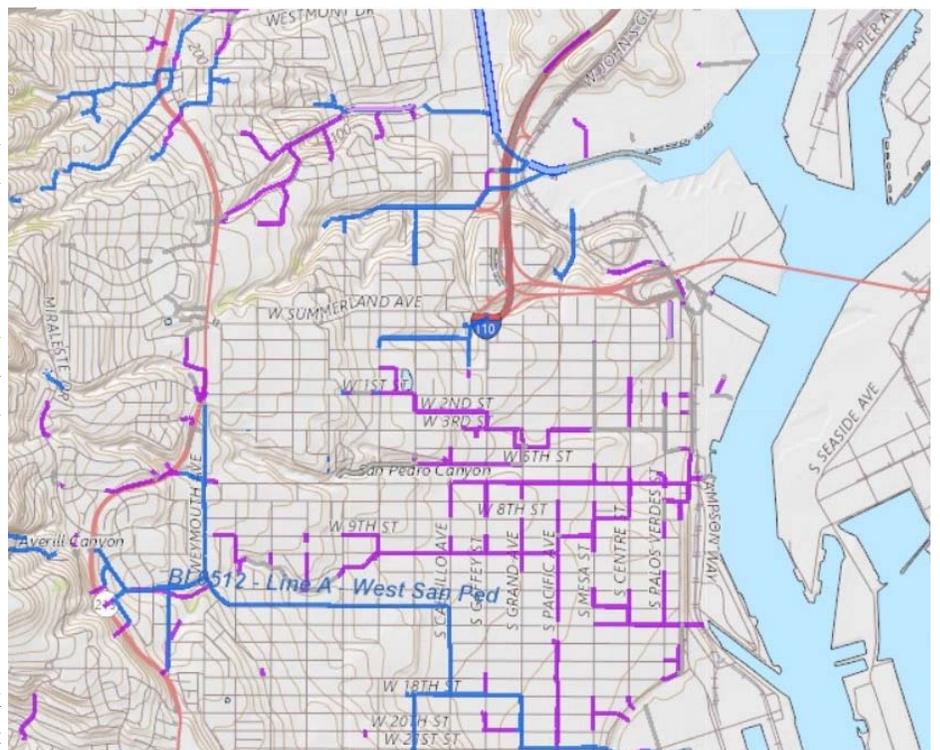
Search Layers Info

- Drains
 - Maintained by LACFCD
 - Maintained by City
 - Maintained by Road
 - Maintained by Metro/Parks & Recreation
 - Maintained by Private/Permittee/Others
 - Maintenance Unknown
- Channels
 - Maintained by LACFCD
 - Maintained by City
 - Maintenance Unknown
 - Maintained by Army Corp
- Catch Basins
 - Maintained by LACFCD
 - Maintained by City
 - Maintained by Road
 - Maintenance Unknown
- Maintenance Holes
 - Maintained by LACFCD
 - Maintained by City
 - Maintenance Unknown
- Laterals
 - Maintained by LACFCD
 - Maintained by City
 - Maintained by Road
 - Maintained by Metro/Parks & Recreation
 - Maintained by Private/Permittee/Others
 - Maintenance Unknown
- MS4 Outfalls
 - MS4 Outfalls (CUA)
- Debris Basins
 - Maintained by LACFCD
 - Maintained by City
 - Maintenance Unknown



The maps on this page show two (2) different topographic views of the Los Angeles County Storm Drain System in San Pedro. The key to both maps is shown above. The point of these maps is to show the primary natural drainage patterns from the hills/canyons on the Palos Verdes hillsides into the plains of San Pedro and the harbor. Upon examination therefore, one can see that starting from the north, Peck Canyon, San Pedro Canyon and then Averill Canyon are the primary drainage networks into San Pedro.

As Peck Canyon lies within Peck Park, and has been the subject of a recent Prop. O improvement project, and Averill Canyon flows into an already improved park with a remnant of natural drainage, that leaves San Pedro Canyon as the main remaining opportunity. As it turns out this Canyon drains into a storm drain network that runs down 6th Street, which is the center of Downtown San Pedro.



OPPORTUNITY #29– SAN PEDRO CYN. RESTORATION/ 6TH STREET GREEN STREET

Specific enhancements envisioned with this Opportunity include:

1. Restoration of native habitat within the remnant portions of San Pedro Canyon
2. Restoration of natural water flow as can be done safely, and that does not already exist within the remnant portions
3. Connecting these remnant portions with pedestrian paths/hiking trails
4. Install as many bioswales and rain gardens within parkways along both 1st Street and 6th Street as feasible and possible

There are a number of steps that will be needed before such enhancements can be implemented. They are:

1. Determine agency and/or private ownership of the targeted remnant segments
2. Conduct geotechnical investigation of each of the areas, including the parkway along both target streets to determine the geological substrate, distance to groundwater, condition of groundwater and percolation rates of the substrate
3. Determine the CEQA documentation required for the project
4. Complete CEQA for the project
5. Develop design & engineering documents as needed—this would include prototypes for bioswale/rain garden segments that can be used along 1st and 6th Streets
6. Identify and secure adequate funding—this could mean dividing the project into some logical sequencing to expedite implementation with partial funding
7. Secure necessary permits

Some recommended guidelines should include:

1. Using a native plant palette
2. Using “smart irrigation” practices where irrigation is needed to establish plants
3. Use recycled/reclaimed water for supplemental irrigation as feasible
4. Utilize City of Los Angeles “Green Streets and Alleys Design Guidelines” as starting point of design of the prototype parkway bioswales/rain gardens