



Bank Repair Program

San Luis Obispo, CA
2015

Introduction

"In April 1997, a Phase I report was prepared on behalf of the City and San Luis Obispo County Flood Control and Water Conservation District (Zone 9) that addressed problems of bank erosion at eight locations along several reaches of SLO Creek (Questa, 1997). These were areas damaged by the 1995 flooding, and most in need of management and bank repair."

- *Background & Introduction*, San Luis Obispo Waterway Management Plan. 2003

April 8, 2015: The Watershed Stewards Program and City Biologist Freddy Otte were commissioned to re-assess and re-prioritize bank repair program sites as shown on the WMP Figure 5-15.



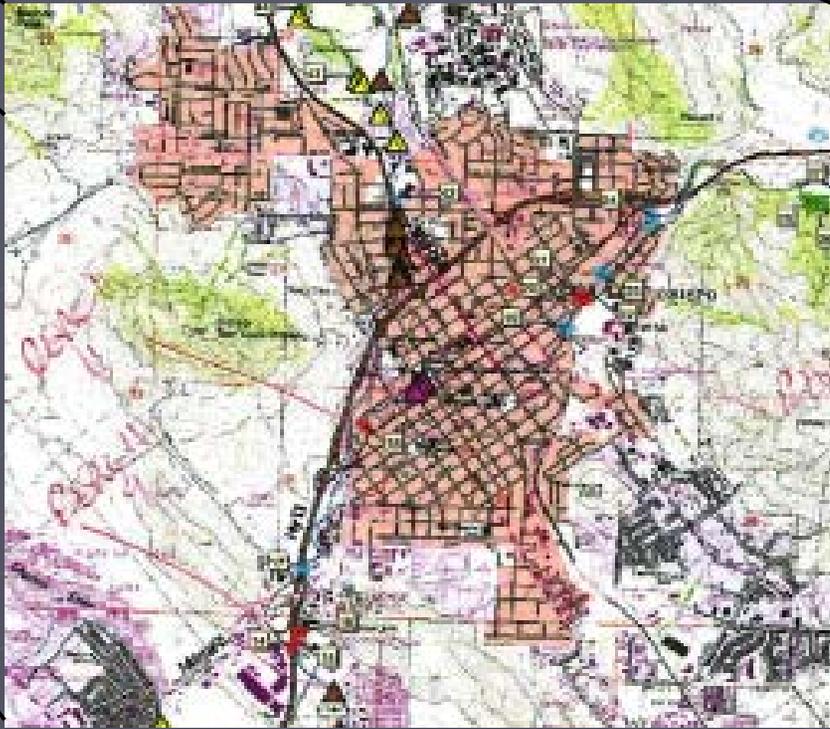
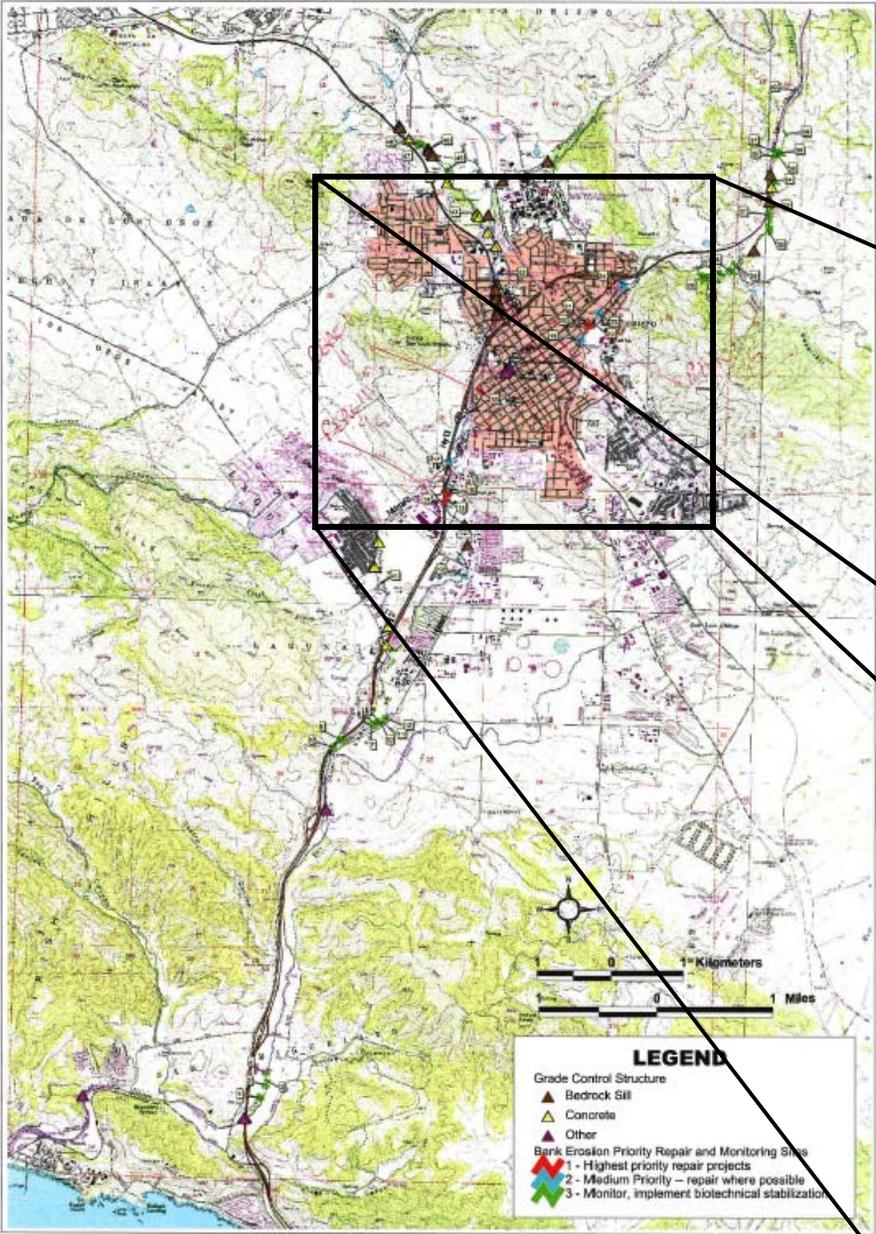
Watershed Stewards Program

The Watershed Stewards Program's (WSP) mission is to conserve, restore, and enhance anadromous watersheds for future generations by linking education with high quality scientific practices.

A program of the California Conservation Corps, WSP is one of the most productive programs for future employment in natural resources. WSP is administered by CaliforniaVolunteers and sponsored by the Corporation for National and Community Service.

Bank Repair Program Sites

SLO Creek Phase II Waterway Management Plan



LEGEND

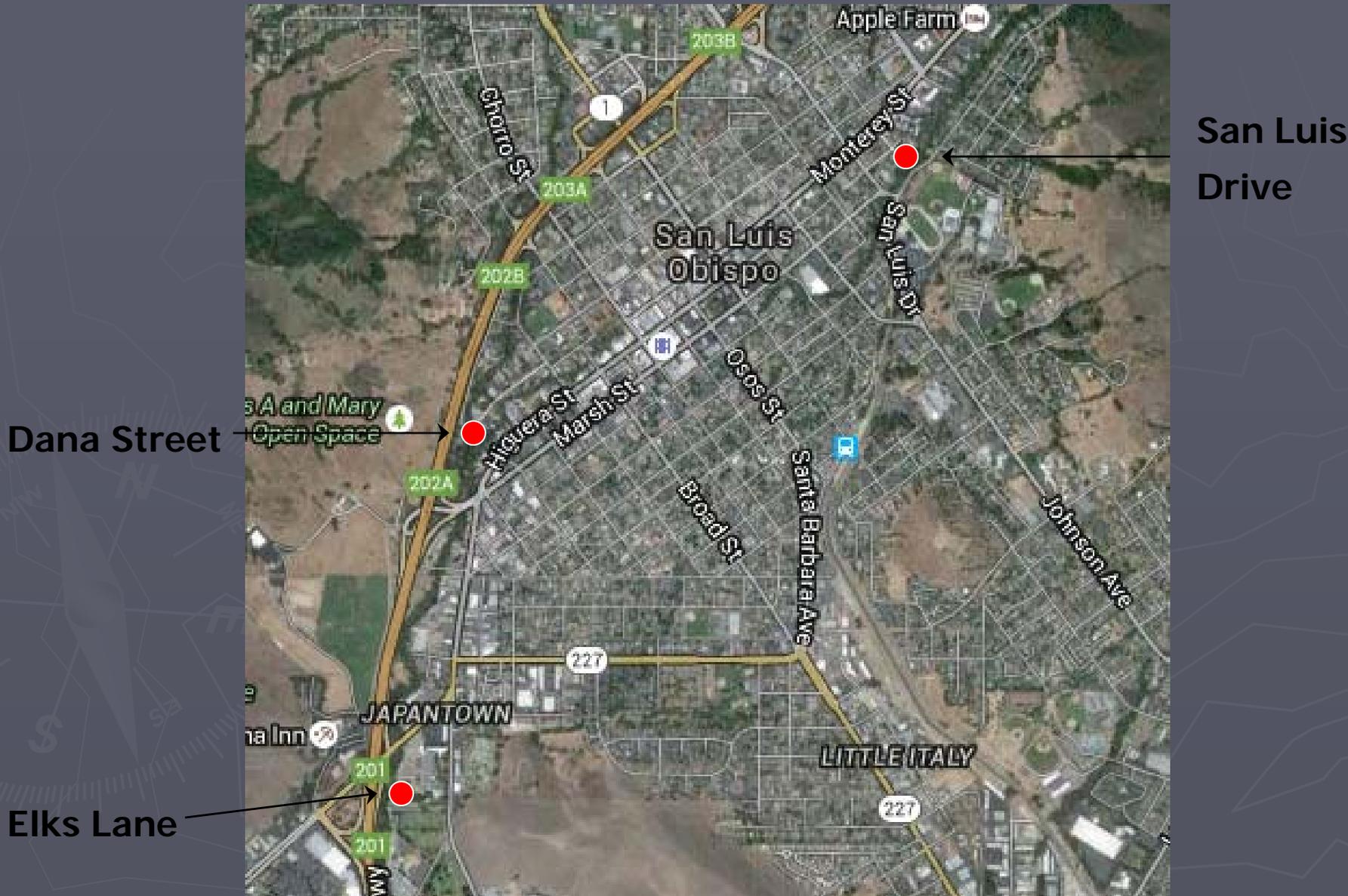
- ▲ Grade Control Structure
- ▲ Bedrock Sill
- ▲ Concrete
- ▲ Other
- 1 - Bank Erosion Priority Repair and Monitoring Sites
- 2 - Highest priority repair projects
- 3 - Medium Priority – repair where possible
- 3 - Monitor, implement biotechnical stabilization



Bank Repair Program Sites
SLO Creek Phase II
Waterway Management Plan
QUESTA ENGINEERING CORPORATION

Figure 5-15

High Priority Bank Erosion Sites

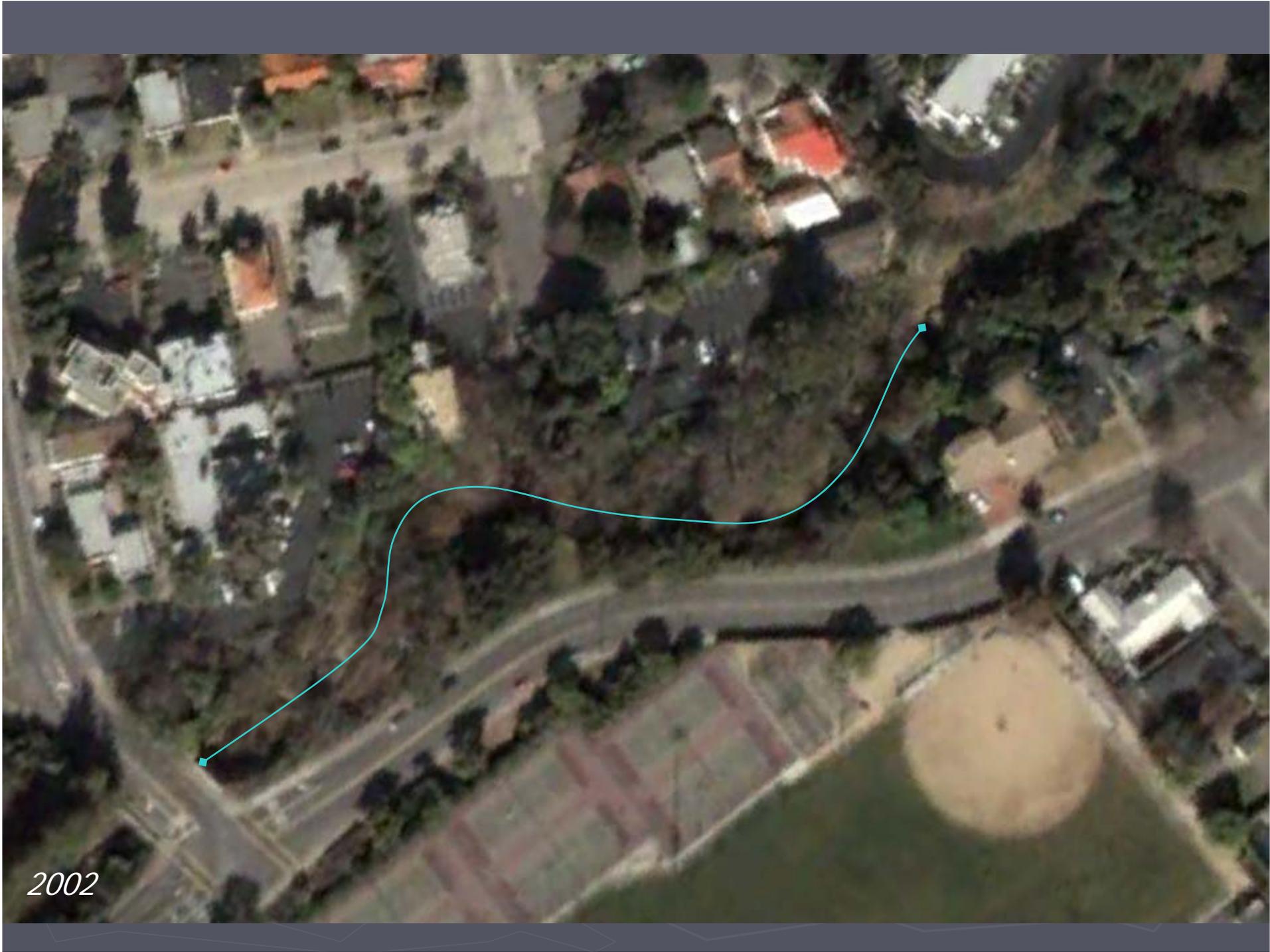


San Luis Bay Drive

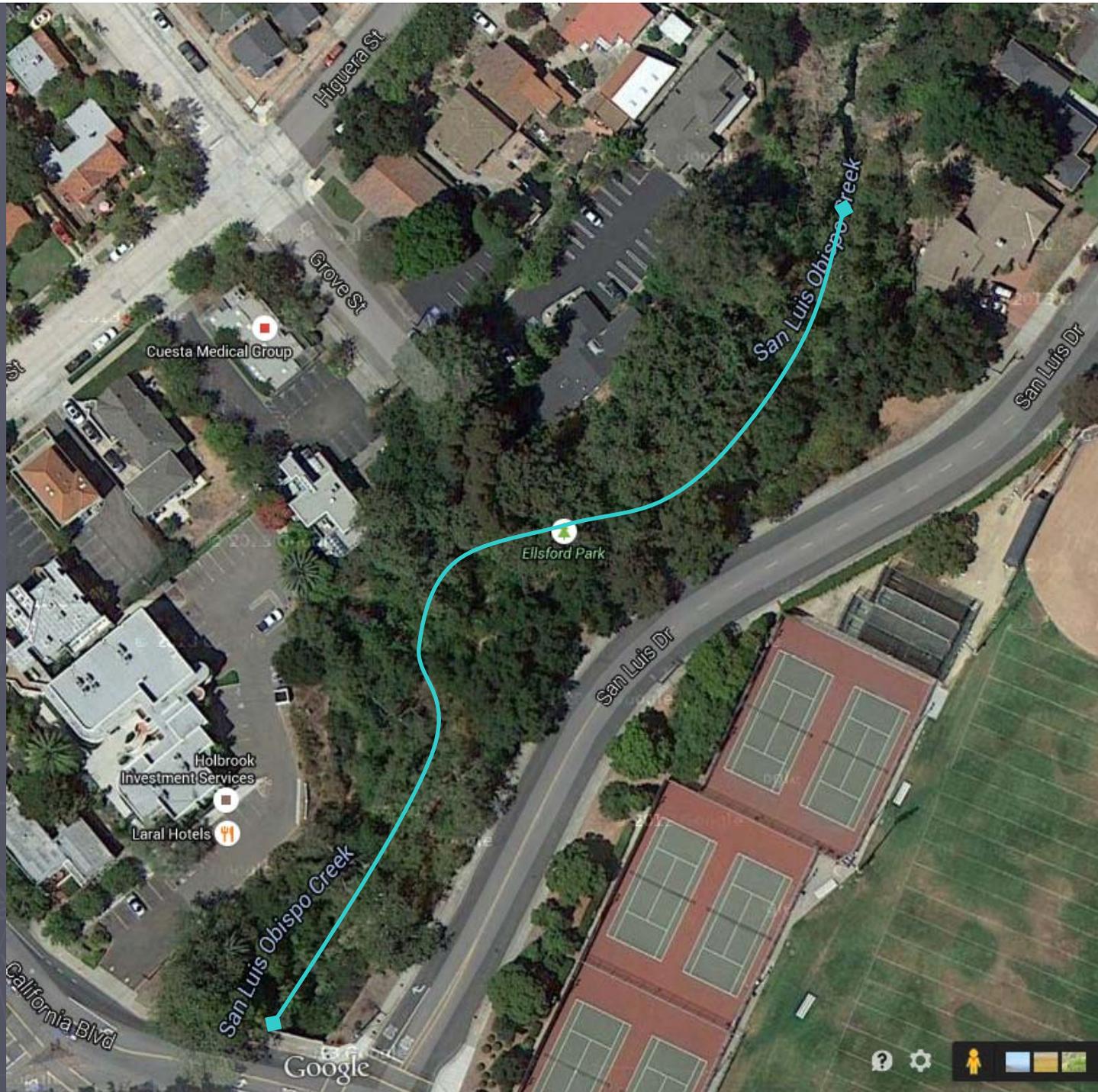
Assessment 2015

** Photos Taken "*Then*": late 1990s

Photos Taken "*Now*": June 2015



2002



2015



Looking Upstream

Looking Downstream



Now



Then



Now



Then



Now





Then



Now



Then

Gabion Structure



Now

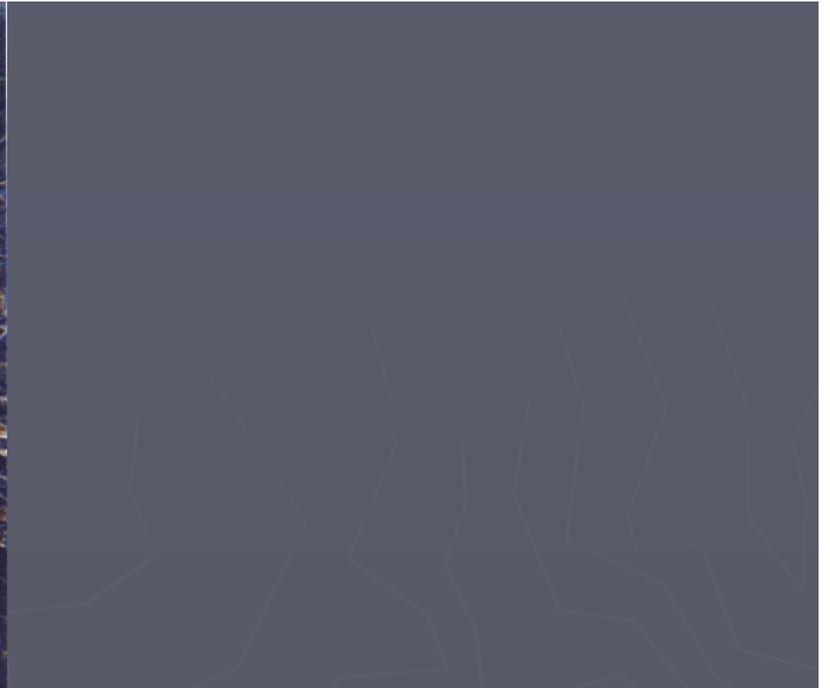


Gabion Structure Continued





Then



Now





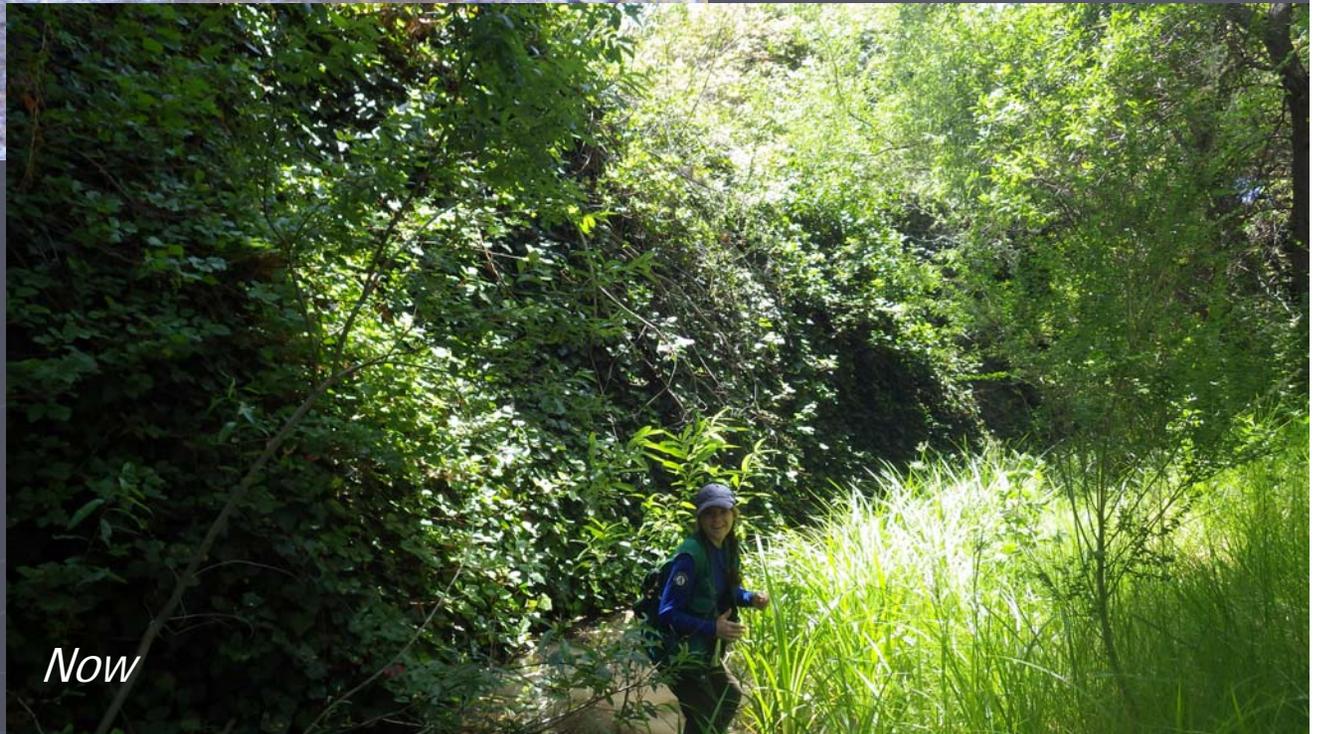
Then



Now



Then



Now



Now

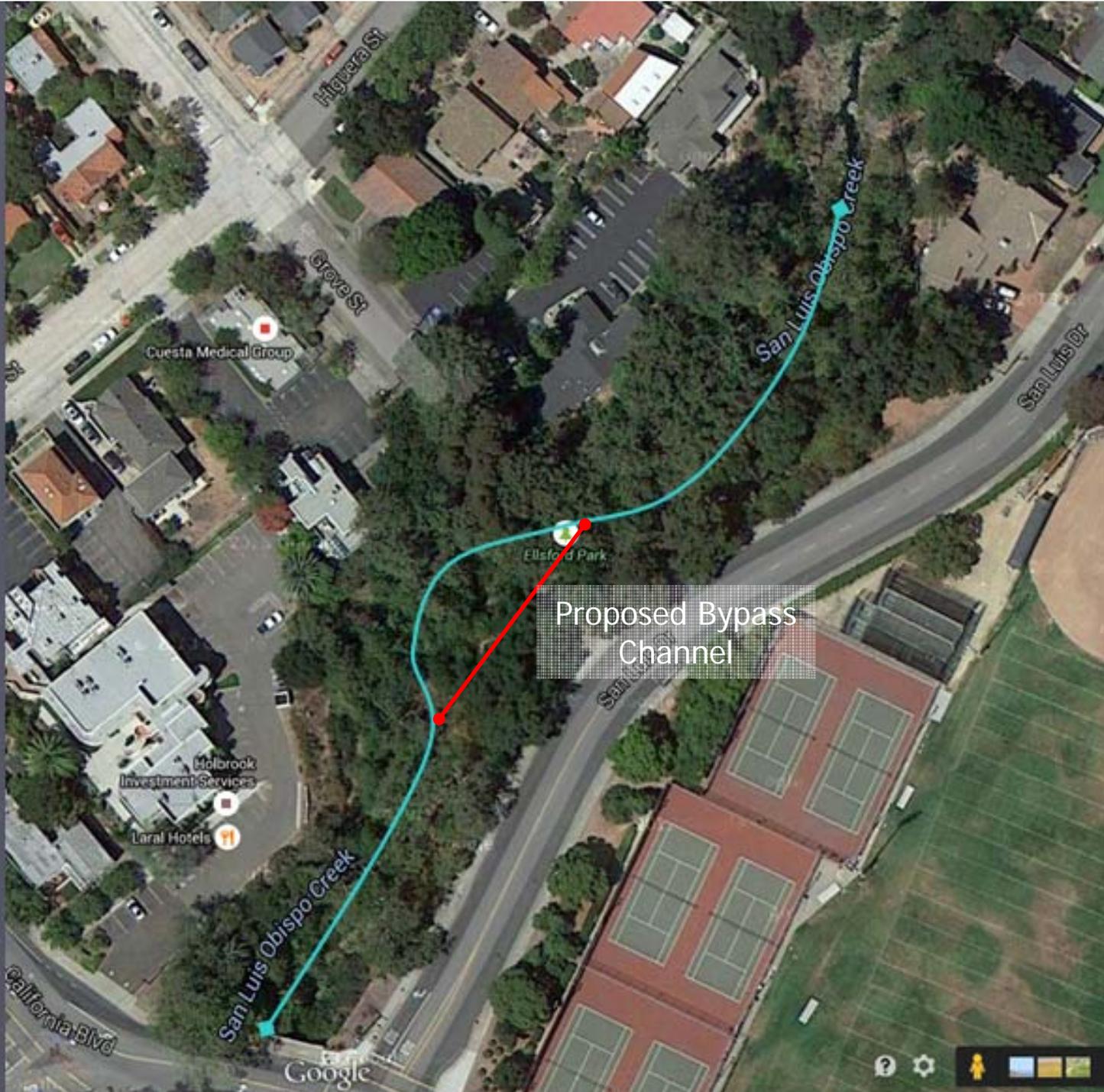
Recommendation: Cottonwood plantings at toe of slope



Then



Now



Proposed Bypass Channel

San Luis Obispo Creek

San Luis Obispo Creek

Google

Bypass Channel

Looking Downstream



Begin



End



Recommendation



Create 8' wide bypass channel with selective limbing and plant removal

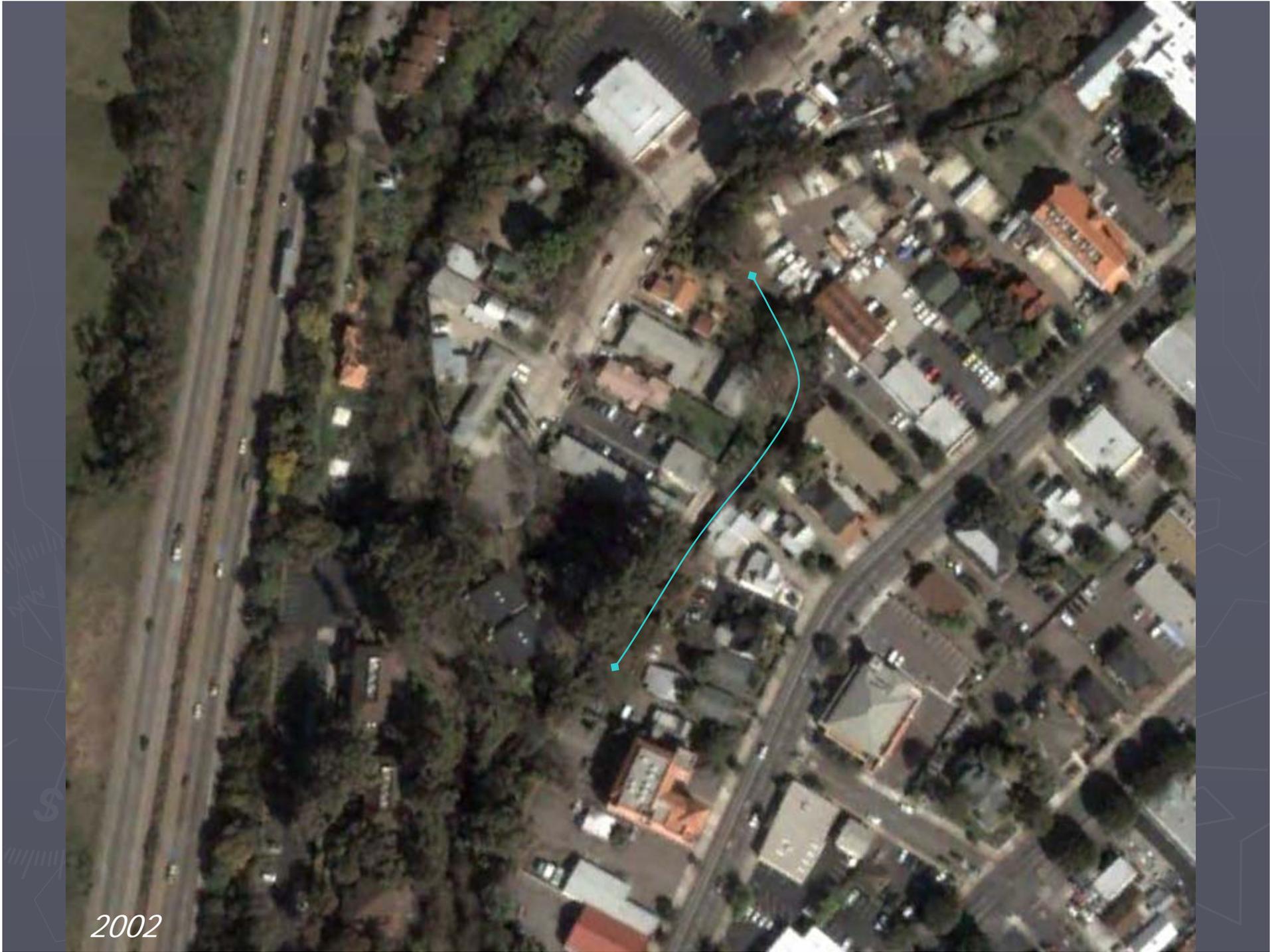


Dana Street

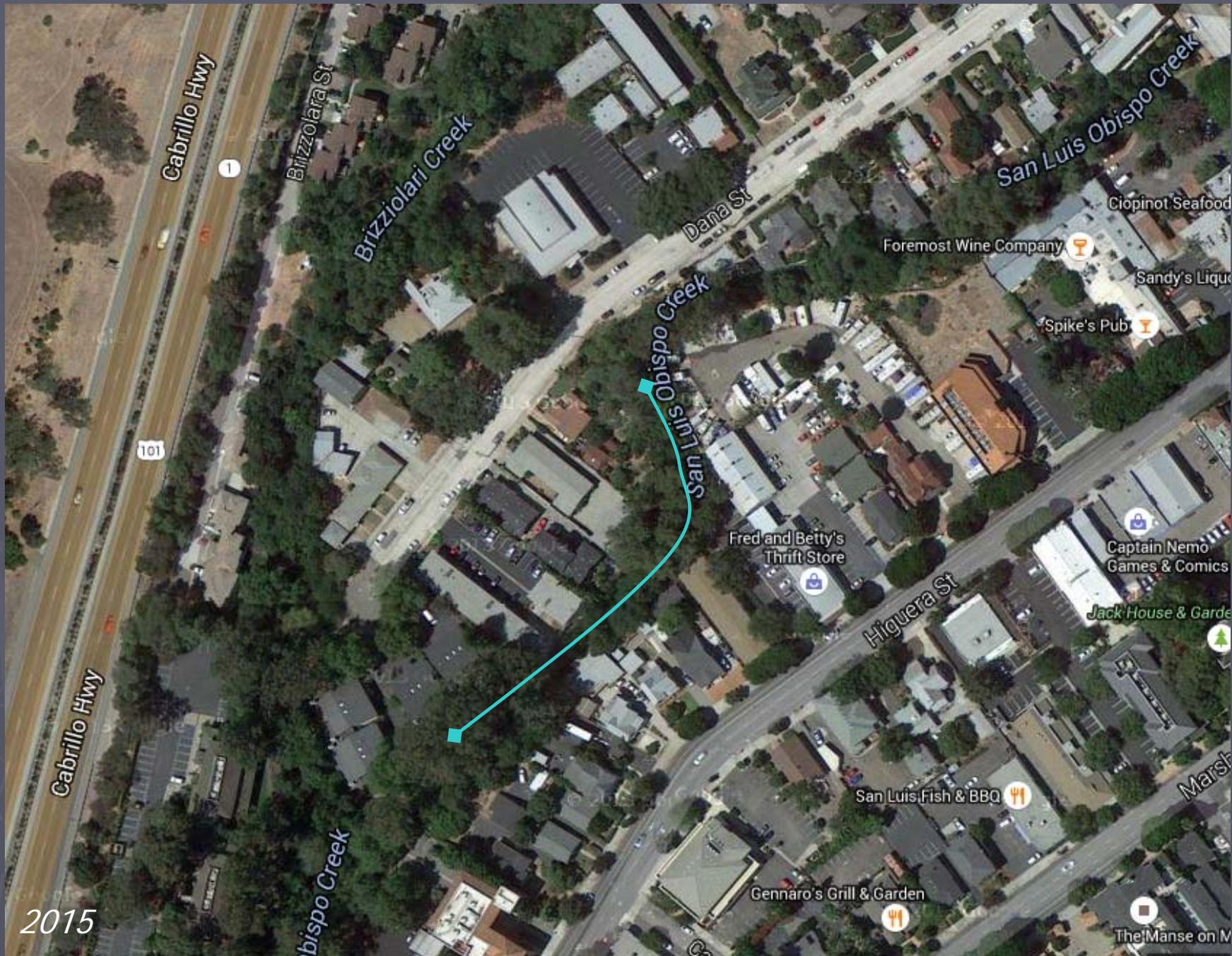
Assessment 2015

** Photos Taken "*Then*": late 1990s

Photos Taken "*Now*": June 2015



2002



2015



Then



Now



Then



Now



Then



Now



Then



Now



Then



Now



Then



Now



Then



Now



Immediately Upstream of Bank Erosion Site

English Ivy Removal



Himalayan Blackberry Removal





Then



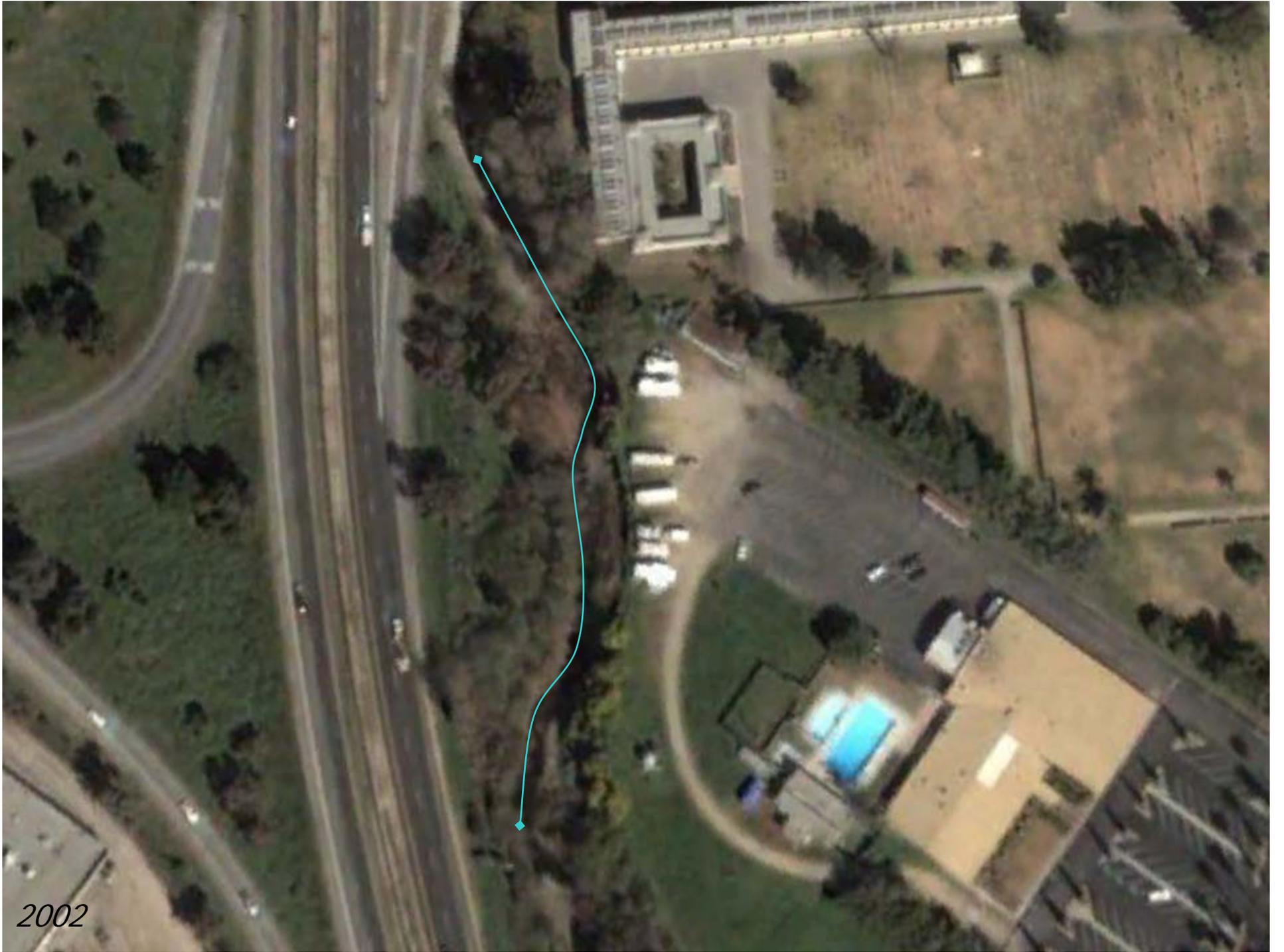
Now

Elks Lane

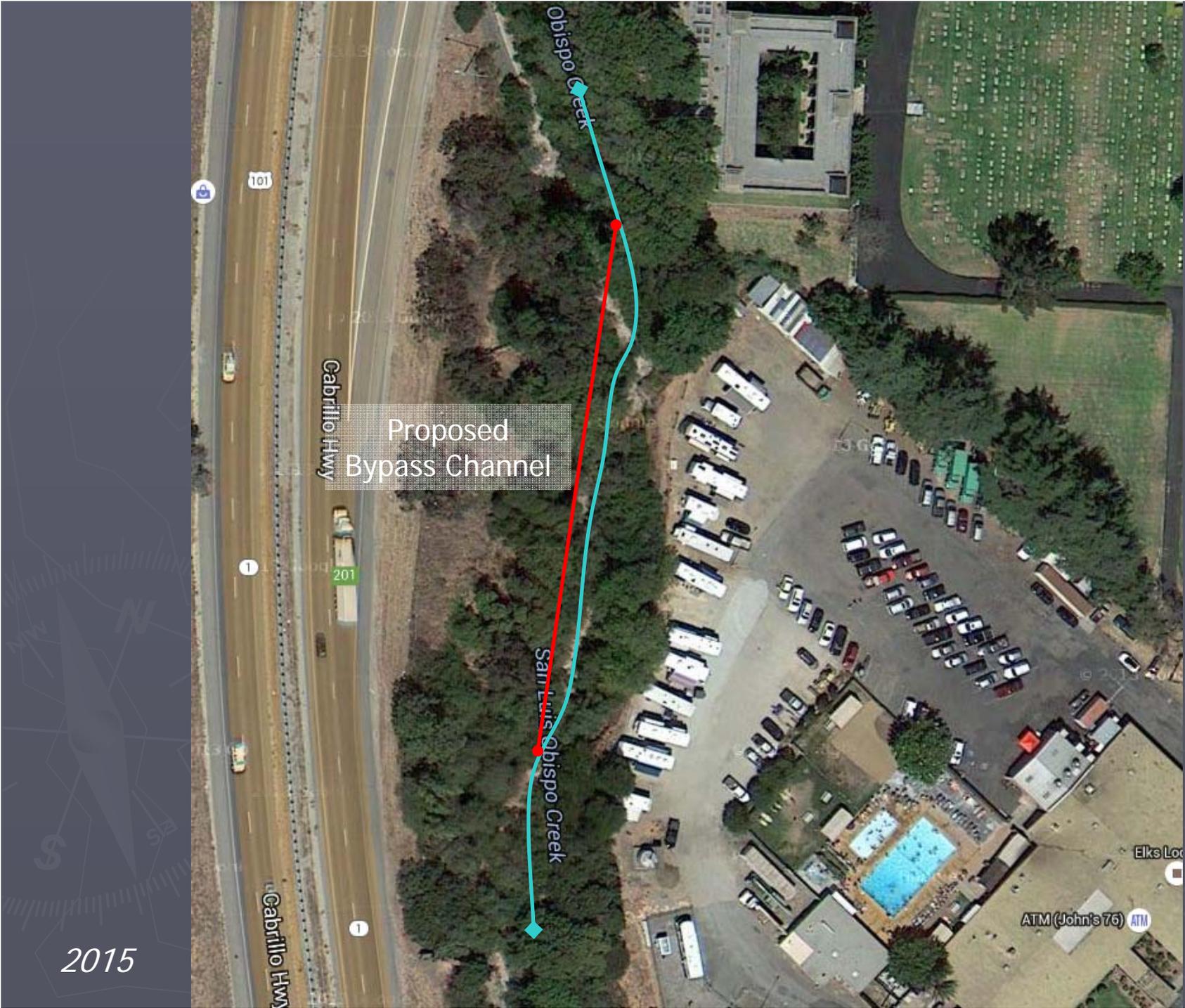
Assessment 2015

** Photos Taken "*Then*": late 1990s

Photos Taken "*Now*": June 2015



2002



Proposed
Bypass Channel

Obispo Creek

San Luis Obispo Creek

Cabrillo Hwy

201

ATM (John's 76) ATM

Elks Loc

2015



Immediately
Upstream of Reach



Start of reach:

Left- main channel &
bank erosion

Right- floodplain &
proposed bypass
channel



Then



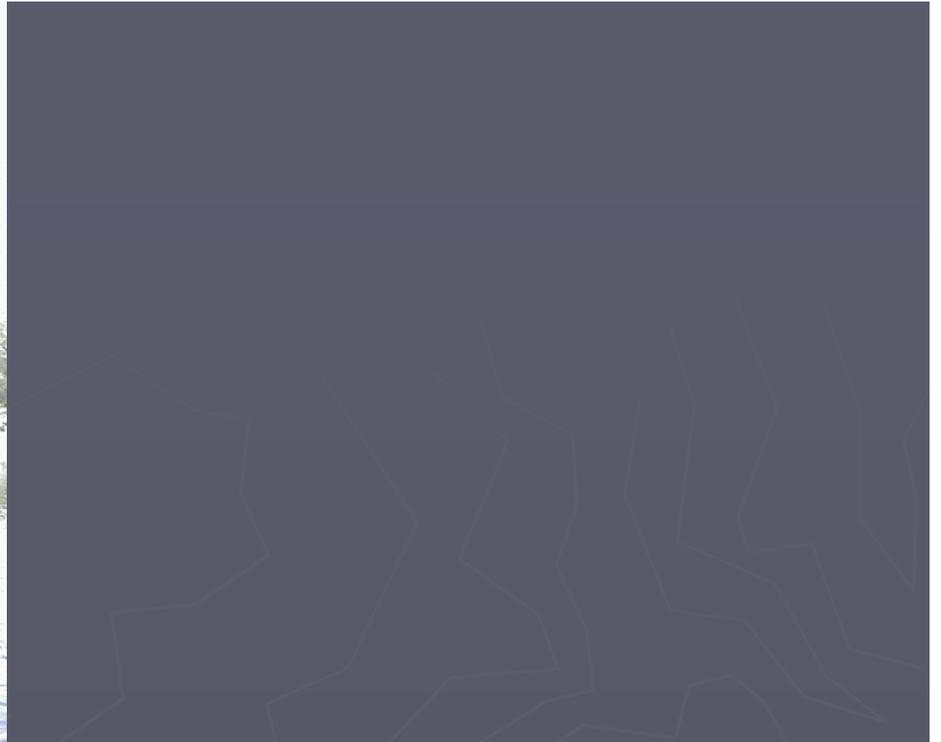
Recommendation: Gravel enhancement at toe of slope



Now



Then



Now

Proposed Bypass Channel



Remove Willow





Remove Eucalyptus – Right bank

Split in Bypass Channel:
allow water to spill left
back into main channel



Remove Invasive Species



Narrow Leaf Acacia



Mexican Fan Palm



End of bypass
channel

...and debris



Recommendations

San Luis Bay Drive:

- Bypass channel
- Plant cottonwood stakes at toe of bank erosion site
- Invasive species removal

Dana St:

- Invasive species removal with landowner permission

Elks Lane:

- Gravel enhancement at toe of bank erosion site
- Bypass channel
- Invasive species removal

Timeline & Implementation

- ▶ Annual Zone 9 winterization funding will be used across the watershed.
- ▶ Goat contractor will be used in select areas.
- ▶ Funding secured from city manager's office to address these three locations.
- ▶ Work will begin September 1st with the CCC contracted to complete project.