

Storm Water - Annual Update Channel Maintenance & Prioritization

Environment Committee
October 7, 2015



think **BLUE**
SAN DIEGO



TRANSPORTATION
& STORM WATER

Overview

- Background
- Annual channel maintenance update
 - Channels Completed in 2015
 - Channels Planned in 2016
- Future channel selection prioritization
- Results and Recommended Priority List
- Winter storm preparations

Channel Maintenance Background

- Purpose: reduce flood risk
- Environmental permits required
- Master Storm Water System Maintenance Program (MMP)
- Channels selected 2 years in advance
- Approved by City Council in August 2013
- Good To 2018

Permit Requirements

- Special Studies
 - Hydrology
 - Biological Assessment
 - Noise
 - Cultural
 - Water Quality
- Regulatory Permits
 - Federal
 - State
 - Local

FY 2015 Channel Maintenance

PLANNED

- Sorrento Creek – Reach 3
- Murphy Canyon Creek – Reaches 1-2
- Mission Bay High School & Pacific Beach Drive/Olney Street

EMERGENCY

- San Carlos Creek Channel
- Reservoir Drive Channel
- Smythe Channel

Sorrento Valley

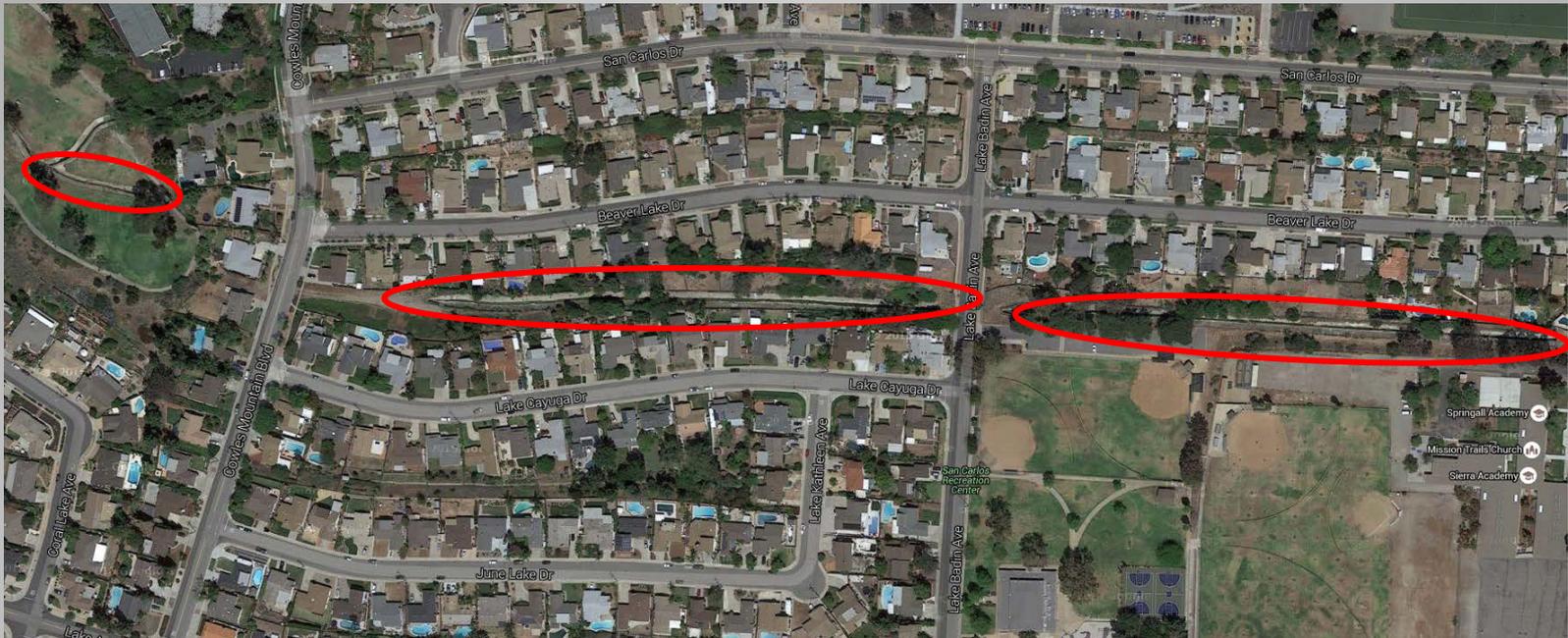


Mission Bay High School & Pacific Beach/Olney Street Channels



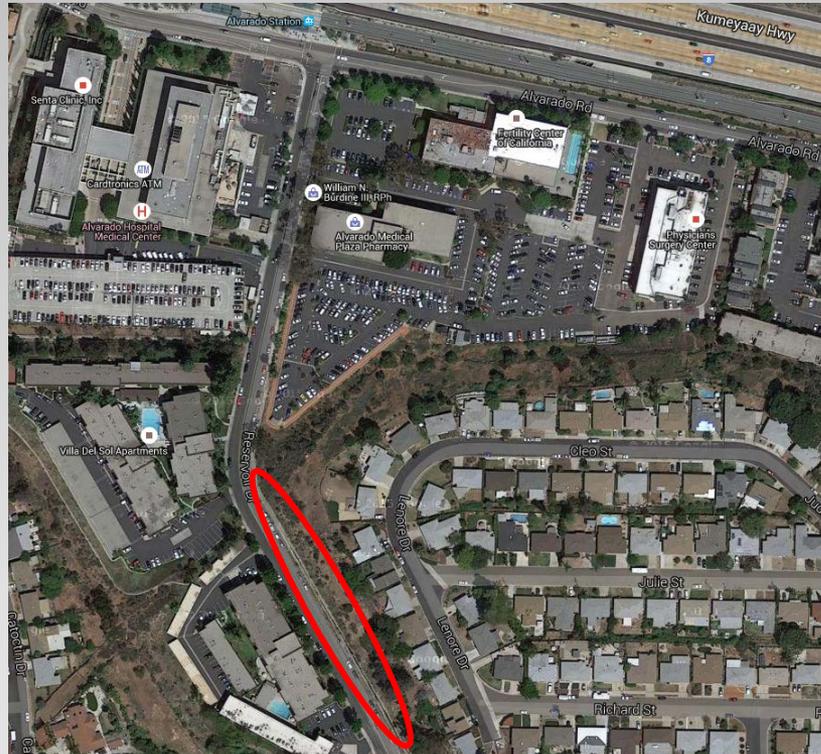
San Carlos Creek

Emergency maintenance



Reservoir Drive

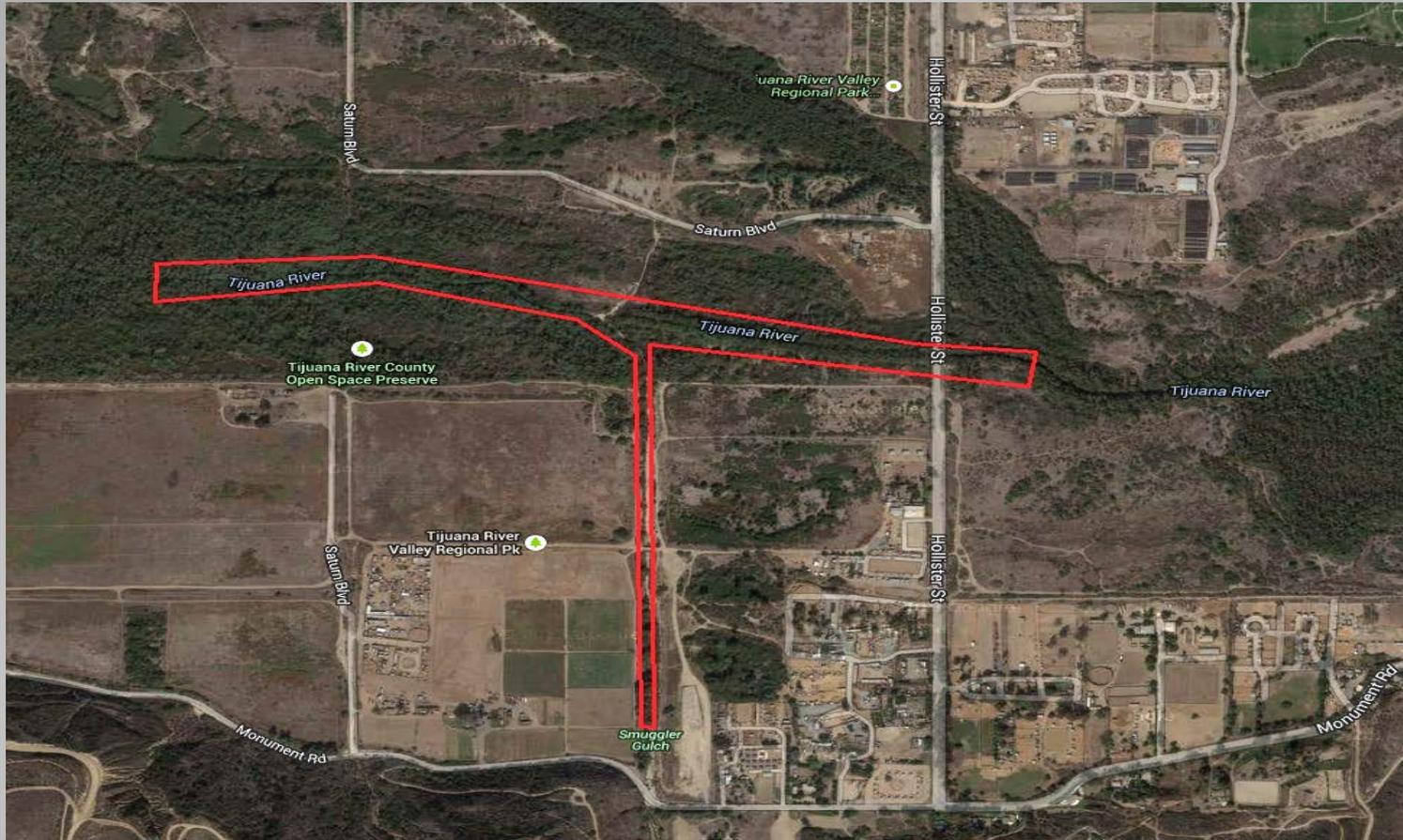
Emergency maintenance



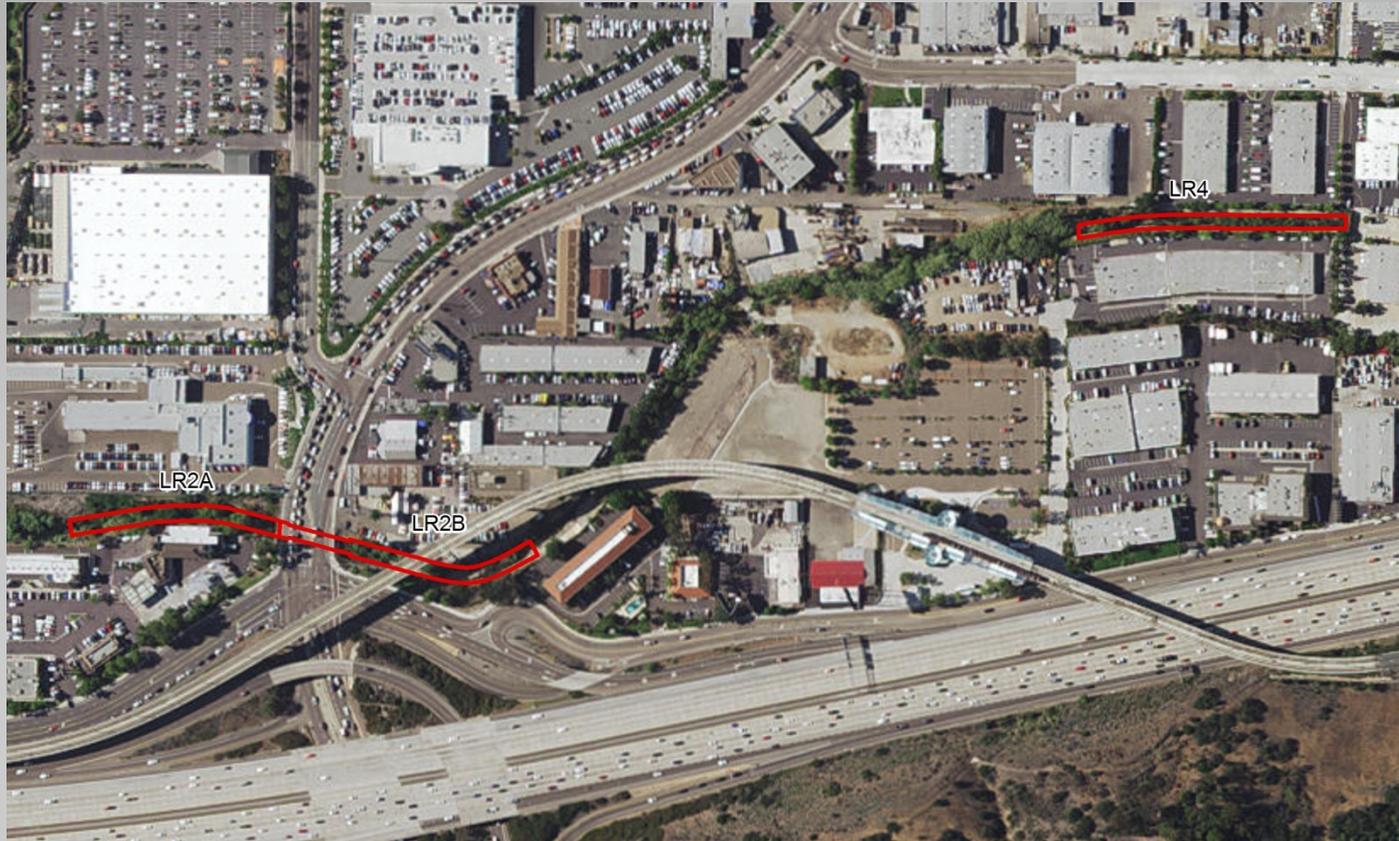
Channels for FY 2016

- Alvarado Creek Channel, MMP Maps 59, 60 and 64
- Tijuana River Pilot Channel and Smuggler's Gulch, MMP Maps 138a, b, c and 139

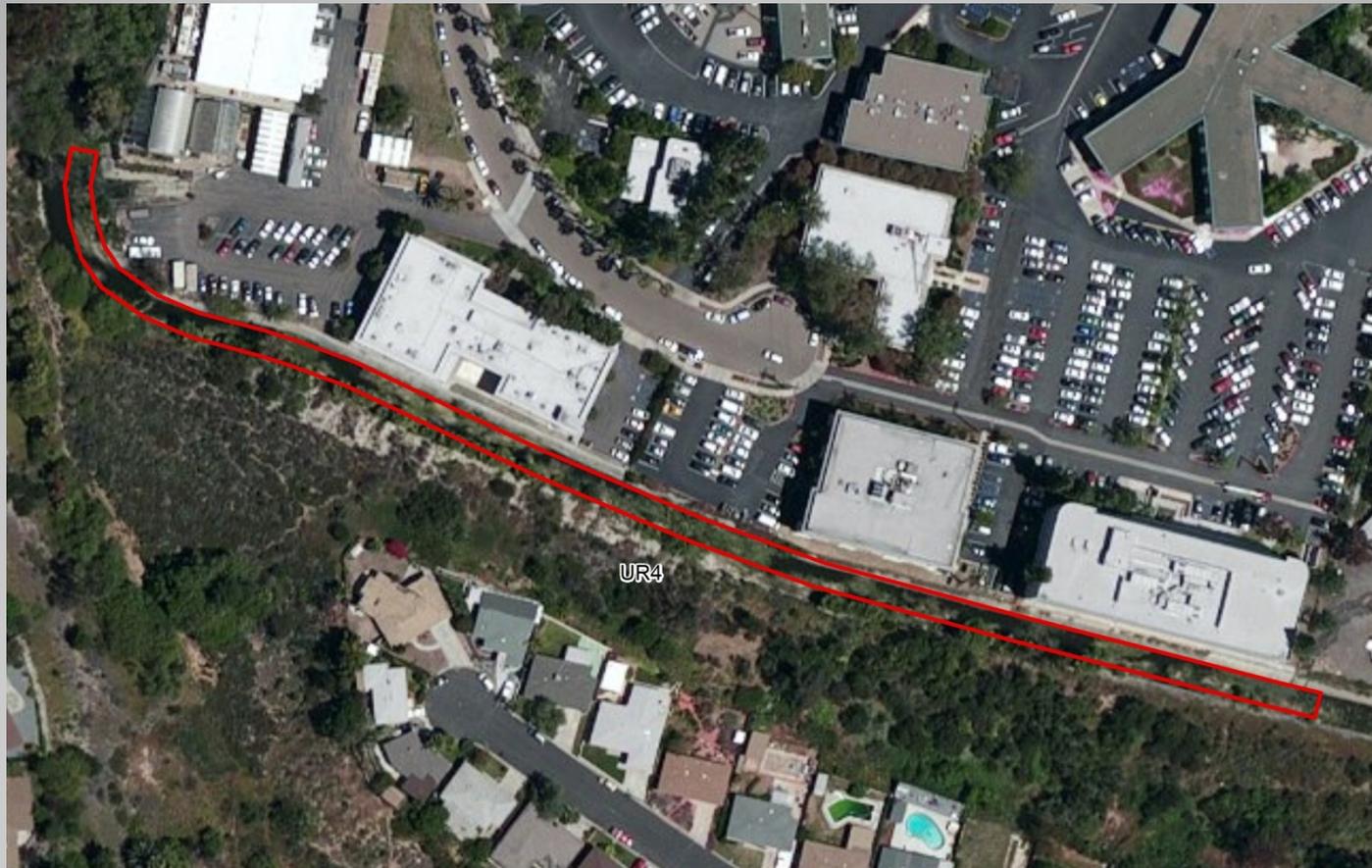
Tijuana River Valley (Scheduled in FY 16)



Lower Alvarado Creek Channel (Scheduled in FY 16)



Upper Alvarado Creek Channel (Scheduled in FY 16)



Mitigation Required for Completed Channels

- Sorrento Valley – 7.44 acres
- Mission Bay High School & Pacific Beach Drive/Olney Street – 1.45 acres
- Murphy Canyon Creek - 4.28 acres
- San Carlos Creek –.016 acres estimated
- Reservoir Drive - .28 acres estimated
- Smythe Channel – none required, no wetland impacts occurred

Mitigation Required for FY16 Channels

- Alvarado Creek Channel – 3.55 acres
- Tijuana River Valley Pilot Channel and Smuggler's Gulch – 18.05 acres

Channel Prioritization & Selection

- Previous practice:
 - Field visits by crews
 - Annually in May and June
 - Notes and photos
 - Management team review

New Prioritization

- Field visits by crews
- Technical consultant analysis
- Public input
- Management team review
- Council Environment Committee review

Scoring Factors

- Flood Risk Management
- Water Quality
- Public Input
- Aesthetics

New: Public Input

- Public Outreach
 - Meeting to discuss program and goals
 - Results of engineering analysis
- Public Survey
 - Vote for top 5 channels

Summary of Channel Priorities

- Channels with a flood risk score greater than 70 or overall score greater than 85: Engineer Road, Via De La Bandola, Rancho Bernardo, Chollas Creek, Auburn Creek, Washington Channel, Cottonwood Channel, and Parkside Channel
- Preliminary studies to begin later this fiscal year
- Majority of permitting work to occur in FY17

Winter Storm Preparations

- Preparation is a year long operation
- Pump stations
- Storm drain repair and cleaning
- Channel cleaning

When a Storm Arrives

- 200+ field staff are on patrol
- Expanding staff availability after hours
- Mobilize portable pumps at low lying areas impacted by tides
- Set up road detours as needed
- Hotline: 619-527-7500

Emergency Capital Improvement Project

- Beyond the capability of city crews
- Secure the site (isolate the area)
- Emergency Annual Allocation is budgeted \$1M for unplanned emergencies
- Public Works has authority for sole source emergency contract and manages contractor rotation list
- Contractor performs minimum repairs necessary to address the emergency
- After the fact permits

Questions?