

# Valley Water

Clean Water • Healthy Environment • Flood Protection



## **Coyote Creek Flood Protection Project**

#### **Problem Definition and Refined Project Objectives**

June 3rd, 2019 Public Meeting Roosevelt Community Center 901 E. Santa Clara Street 6:00 – 8:00 pm





#### Flood Risk Reduction Work Since 2017









### Agenda

#### **1. Project Setting**

#### 2. Project History and Description

## 4. Conceptual Solutions

#### 5. Next Steps

3. Project Status and Timeline







Flood Event





Valley Water Milestone Event





Valley Water Milestone Event





Valley Water Milestone Event



### Flooding History: Santa Clara Street, January 1890

Source: Loomis, P., Signposts, [Limited 1st ed.]. San Jose Historical Museum Association. San Jose, Calif. 74 p.

### Flooding History: Monterey Road, March 7-9, 1911



### Flooding History: Nordale Avenue, January 27, 1997



### Flooding History: Golden Wheel Mobile Home Park, February 8, 1998



### Watershed Modifications - 1800s



### Watershed Modifications - 1852



### Watershed Modifications - 1895



### Watershed Modifications - 1950



### Local Peak versus Upper Watershed Peak







### Historical Landscape Conditions: Oakland Road





### Historical Landscape Conditions: Watson Park



Source: Grossinger, Robin, et al., 2006. Coyote Creek Watershed Historical Ecology Study: Historical Condition, Landscape Change, and Restoration potential in the Eastern Santa Clara Valley, CA.

### William Street Park & Selma Olinder Park



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### Historical Landscape Conditions: Kelley Park

Location	February 2017 Observed Flows (cfs)	February 2017 if flows confined within channel (cfs)	Upper Watershed Peak Design Storm (cfs)	1% Local Peak Design Storm (cfs)	
I-280	7,250	7,250	7450	3,590	
East William Street	7,200	7,250	7450	3,630	
Berryessa Road	7,550	7,600	8380	8,450	
I-880	7,400	7,600	8400	8,570	



# **Project History**

Coyote Creek Flood Protection

\$32 Million allocated to Mid-Coyote Creek project, 100-year flood protection

#### November 2000

Voters approve Clean, Safe Creeks and Natural Flood Protection Plan

#### 2006-2009

Search for additional funding and federal partnership District attempted to obtain additional USACE funding but was not successful

## Cost estimated between \$500 Million and \$1 Billion

#### 2011

Mid-Coyote Creek Planning Study completed

#### 2011-2012

Design for downstream reaches initiated

Design paused due to uncertainties of impacts from related projects

Project's remaining budget carries forward

#### November 2012

Voters approve Safe, Clean Water, and Natural Flood Protection Program

#### 2016 - 2017 Winter Season

California experienced precipitation at 190% of average

Coyote Creek overtopped its banks at several locations between Montague Expressway and Tully Road

- Project scope extended
- Change of target protection
- Short-term relief solutions
- Use local funding to complete planning and design phases of near term project
- Identify additional partnerships

June 2017

Modification of original project goals and acceleration of project

Current Coyote Creek Flood Protection Project

# Project Objective: Reduce Risk of Flooding from a flood event equivalent to the February 2017 event

#### **Additional Project goals:**

- Stream Habitat Enhancement
- Improve Water Quality
- Provide for Public Access and Recreation
- Minimize Need for Future Maintenance Activities

### **Project Reaches**

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### **Reach 4: Montague Expressway to Old Oakland Road**







### **Reach 5: Old Oakland Road to Mabury Road**



### **Reach 6: Mabury Road to East Santa Clara Street**







### **Reach 7: East Santa Clara Street to I-280**





### **Reach 7: East Santa Clara Street to I-280**



### Reach 8: I-280 to Tully Road







**Expedited Project Timeline:** Assumes project alternative selected for implementation does not require extensive permitting

Components	2017	2018	2019	2020	2021	2022	2023	2024
Problem Definition								
<b>Conceptual Alternatives</b>								
Feasible Alternatives								
Planning Study Report								
Design and Permitting								
Construction								



### **Conceptual Solutions**

**Conceptual Alternatives** 

Invasive vegetation control

Flood proofing &voluntary purchase of repeatedly flooding properties

Set-back floodwalls, berms and levees

> Off-stream flood detention, mainly upstream of scope



### **Flood Proofing**

EXISTING





### Set-back berms and levees



### **Floodwalls**

EXISTING





### Flood protection and additional enhancements



### **Next Steps**

Problem Definition Report: Nov 2017 – Jan 2019 (Draft Completed)

 Public meetings scheduled for the end of May to incorporate public comments and finalize

**Conceptual and Feasible Alternatives:** Sep 2018 - Sep 2019

Planning Study Report: July 2019 – Jan 2020

Design, CEQA and Permitting: Jan 2020 – Dec 2021

Construction: Jan 2022 – Dec 2024

### For more information

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# QUESTIONS





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