Lower Penitencia Creek Improvements Project

Community meeting
Thursday, June 5, 2014
Barbara Lee Senior Center
Why are we here?

At tonight’s meeting we would like to share with you information about the Lower Penitencia Creek Improvements Project and solicit your feedback on the initial planning level alternatives.
Tonight’s meeting agenda

About the water district

About Lower Penitencia Creek

- Planning study
- Study area and related projects
- Why do this study/study limits
- Objectives/alternatives
- Schedule, next steps
- Q & A
About the water district

Our mission

The mission of the Santa Clara Valley Water District is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.
Our core services

- Clean, Reliable Water
- Flood Protection
- Healthy Creeks & Ecosystems
We serve

2,000,000 people

15 cities

12 water retailers

4,700 direct well owners
Tonight’s meeting agenda

About the water district

About Lower Penitencia Creek

- Planning study
- Study area and related projects
- Why do this study/study limits
- Objectives/alternatives
- Schedule, next steps
- Q & A
Planning study process

Community Input is Key

- Background & Data Collection
- Identify Problems & Constraints/Opportunities
- Alternative Analysis
- Environmental Analysis
- Staff-Recommended Plan

Public Input

We are here
Study area

Coyote Creek

Montague Expwy

Lower Penitencia Creek located within the Coyote Watershed
Related projects

Coyote Creek

Lower Penitencia Creek Project

Sylvia Ave

Lower Berryessa Creek Project

Upper Berryessa Creek Project
Why do this study?

Completion of the Upper Berryessa Project will increase the one percent flow in the Berryessa – Lower Penitencia Creek system.

This means additional improvements are required along Lower Penitencia Creek to increase its capacity to receive the increased one-percent flow.
Study objectives

- Complete improvements to carry the new one-percent flow coming from the Upper Berryessa Creek Project
- Minimize maintenance requirements
- Minimize existing habitat impacts
- Minimize impacts to existing trails
- Obtain FEMA certification of the improvements
Study limits

Constraints

- Hydraulics
- Area of tidal influence
- Right of way
- Existing bridges
- Operations & maintenance
- Agency permitting
- Time to complete work

Reach 5 – potential work TBD

Reach 1
Reach 2
Milpitas
Reach 3
Reach 4
Reach 5

Lower Penitencia Creek Improvements Project
Alternative 1

Reach 1 - Coyote Creek to Highway 880
Alternative 1

Reach 2 - Highway 880 to California Circle

Reach 2 — Highway 880 to California Circle
Alternative 1

Reach 2 - California Circle Bridge

At California Circle Bridge

- Proposed raised bridge & lengthen bridge
- Existing bridge
- Proposed floodplain
- Existing channel
Alternative 1
Reach 3 - California Circle to Milmont Drive
Alternative 1
Reach 3 – Milmont Drive Bridge

At Milmont Drive Bridge – No proposed work

Existing channel

No proposed work

Existing Bridge
Alternative 1
Reach 4 – Milmont Drive to Berryessa Creek

Potential future Reach 5 begins here

Lower Berryessa Creek Project begins here

Reach 4 – Milmont Drive to Lower Berryessa Creek

Proposed floodwalls

Sediment and vegetation removal

Existing channel
Alternative 2

Reach 1 - Coyote Creek to Highway 880
Alternative 2

Reach 2 - Highway 880 to California Circle

Reach 2 — Highway 880 to California Circle
Alternative 2

*Reach 2 - California Circle Bridge*

At California Circle Bridge

- **Existing bridge**
- **Proposed lengthened bridge**
- **Proposed floodplain**
- **Existing channel**

**Images:**
- Aerial view of California Circle Bridge with labels for Dixon Landing Road and Lower Penitencia Creek.
- Ground-level view of the bridge.

**Sources:**
- Lower Penitencia Creek Improvements Project
Alternative 2
Reach 3 - California Circle to Milmont Drive

Reach 3 — California Circle to Milmont Drive

- Proposed floodwalls
- Existing secondary channel
- Existing maintenance road
- Existing main channel
- Existing channel

Lower Penitencia Creek
Alternative 2

Reach 3 – Milmont Drive Bridge

At Milmont Drive Bridge
Alternative 2
Reach 4 – Milmont Drive to Berryessa Creek

Potential future
Reach 5 begins here

Lower Berryessa Creek Project begins here

Reach 4 – Milmont Drive to Lower Berryessa

- Proposed floodwalls
- Partial sediment and vegetation removal
- Existing channel
Alternative 3

Reach 1 - Coyote Creek to Highway 880
Alternative 3
Reach 2 - Highway 880 to California Circle

Reach 2 – Highway 880 to California Circle

Proposed floodwall

Proposed floodplain

Existing channel
Alternative 3

Reach 2 - California Circle Bridge

At California Circle Bridge
Alternative 3

Reach 3 - California Circle to Milmont Drive

Reach 3 — California Circle to Milmont Drive

Proposed floodwalls
Existing secondary channel
Existing main channel
Existing channel
Alternative 3

Reach 3 – Milmont Drive Bridge
Alternative 3

Reach 4 – Milmont Drive to Berryessa Creek

Potential future Reach 5 begins here

Lower Berryessa Creek Project begins here

Reach 4 — Milmont Drive to Lower Berryessa

Proposed floodwalls

Partial sediment and vegetation removal

Existing channel
Next steps

➢ Continue to work with the City of Milpitas

➢ Continue to work with the community

➢ Refine alternatives based on feedback and additional study findings

➢ Conduct environmental analysis on refined alternatives
Lower Penitencia Creek Improvements Project

About the project
The Lower Penitencia Creek Improvements Project is located in the City of Milpitas. Lower Penitencia Creek receives flows from Berryessa Creek to the south and flows into Coyote Creek to the north as shown on the map to the right. There are currently improvements planned, designed and soon to be constructed on Berryessa Creek that will bring more creek flows into Lower Penitencia Creek.

This project’s reach extends approximately one mile from the north at the confluence with Coyote Creek to the south at confluence with Berryessa Creek. Depending on further planning analyses by staff, the project’s reach may extend further south beyond the confluence with Berryessa Creek.

In its current condition, Lower Penitencia Creek does not have the capacity to convey the future one-percent flood event (also known as the 100 year event) when Berryessa Creek flood improvements are completed. This project is necessary to provide continuous flood protection for Berryessa and Lower Penitencia creek homes and businesses.

A 100-year storm event sometimes called a one-percent flood event, has a 1-in-100 chance of occurring in any given year.

Project objectives
1. Restore capacity to Lower Penitencia Creek and provide improvements in the project reaches to accommodate the future one percent flow.
2. Provide freeboard as required by FEMA standards (freeboard is the distance between the level of the water and the upper surface of the levee and/or floodwall).
3. Complete construction of Lower Penitencia Creek improvements, prior to the completion of Upper Berryessa Creek construction.

Project information
- Project start: 2013
- Project finish: 2018
- Total Cost: $17-30 million
- Status: Planning phase

For more information:
- Contact Project Manager Stacey Lee at (408) 630-3078 or by email.
We want to work with you

**Project contacts**

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Questions

Comments