# **Appendix E**

**Supplemental Water Surface Elevation Change Maps** 

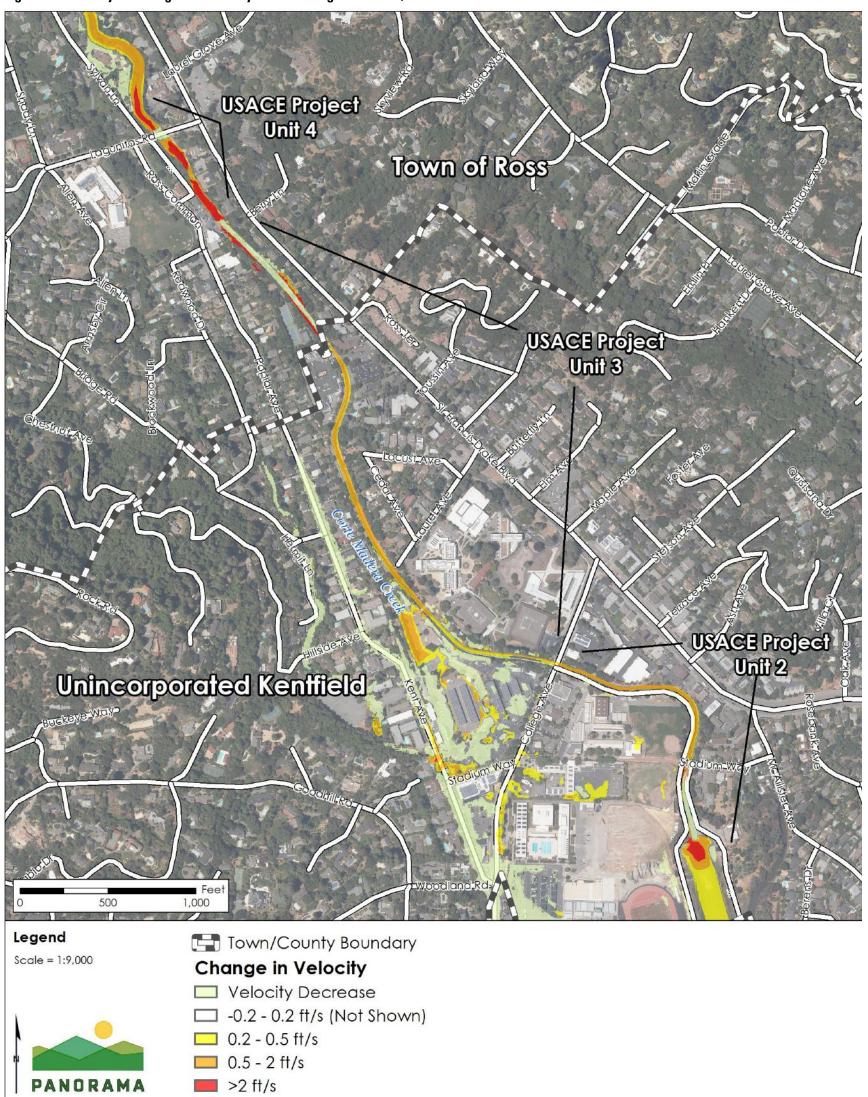
#### **APPENDIX E**

## **Supplemental Water Surface Elevation Maps**

This appendix includes figures that supplement the analysis provided in Section 3.9 Hydrology and Water Quality. The figures show the project changes in velocity and model-predicted water surface elevation changes during 10-year, 25-year, and 100-year flood as follows:

- Project changes in velocity during the 10-year, 25-year, and 100-year flood events under existing conditions (Figure E-1 to Figure E-3)
- Water surface elevation changes during the 10- year, 25-year, and 100-year flood events under existing conditions (Figure E-4 to Figure E-6)
- Model predicted water surface elevations for the existing condition without project and existing condition with project during the 10-year, 25-year, and 100-year flood events (Figure E-7 to Figure E-12)
- Model predicted water surface elevations for the future condition without project and the future condition with project during the 10-year, 25-year, and 100-year flood events (Figure E-13 to Figure E-18)

Figure E-1 Project Changes in Velocity from Existing Conditions, 10-Year Flood Event

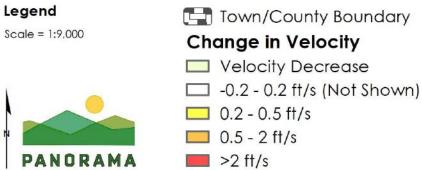


USACE Project Unit 4 Town of Ross USACE Project Unit 3 USACE Project Unit 2 Unincorporated Kentfield Legend Town/County Boundary Scale = 1:9,000 **Change in Velocity** Velocity Decrease ☐ -0.2 - 0.2 ft/s (Not Shown) \_\_\_ 0.2 - 0.5 ft/s 0.5 - 2 ft/s

Figure E-2 Project Changes in Velocity from Existing Conditions, 25-Year Flood Event

>2 ft/s

Figure E-3 Project Changes in Velocity from Existing Conditions, 100-Year Flood Event USACE Project Unit 4 Town of Ross USACE Project Unit 3 USACE Project Unit 2 Unincorporated Kentfield Feet 1,000 500 Legend Town/County Boundary



USACE Project Unit 4 Town of Ross USACE Project Unit 3 USACE Project Unit 2 Unincorporated Kentfield Legend Town/County Boundary 0.02' - 0.2' Scale = 1:9,000■ Flows Confined to Channel ■ 0.2' - 0.5' 0.5' - 1' Flooding Reduced -0.2' - -0.02' **|** >1' **-**0.02' - 0.02'

Figure E-4 Project Changes in Water Surface Elevation from Existing Conditions, 10-Year Flood Event

PANORAMA

**USACE Project** Unit 4 Town of Ross **USACE Project** Unit 3 USACE Project Unit 2 Unincorporated Kentfield Legend Town/County Boundary 0.02' - 0.2' Scale = 1:9,000Flows Confined to Channel 0.2' - 0.5' 0.5' - 1' Flooding Reduced -0.2' - -0.02' **]** >]' **-0.02' - 0.02'** 

Figure E-5 Project Changes in Water Surface Elevation from Existing Conditions, 25-Year Flood Event

Sources: (US Geological Survey, 2013; U.S. Geological Survey, 2016; Tele Atlas North America, Inc., 2020; Bay Area Open Space Council, 2011; GHD, 2020)

PANORAMA

USACE Project Unit 4 Town of Ross USACE Project Unit 3 USACE Project Unit 2 Unincorporated Kentfield Stadium Way 500 1,000 Legend Town/County Boundary 0.02' - 0.2' Scale = 1:9,000■ Flows Confined to Channel ■ 0.2' - 0.5' Flooding Reduced 0.5' - 1' -0.2' - -0.02' **| | >**]' **-0.02' - 0.02'** 

Figure E- 6 Project Changes in Water Surface Elevation from Existing Conditions, 100-Year Flood Event

PANORAMA

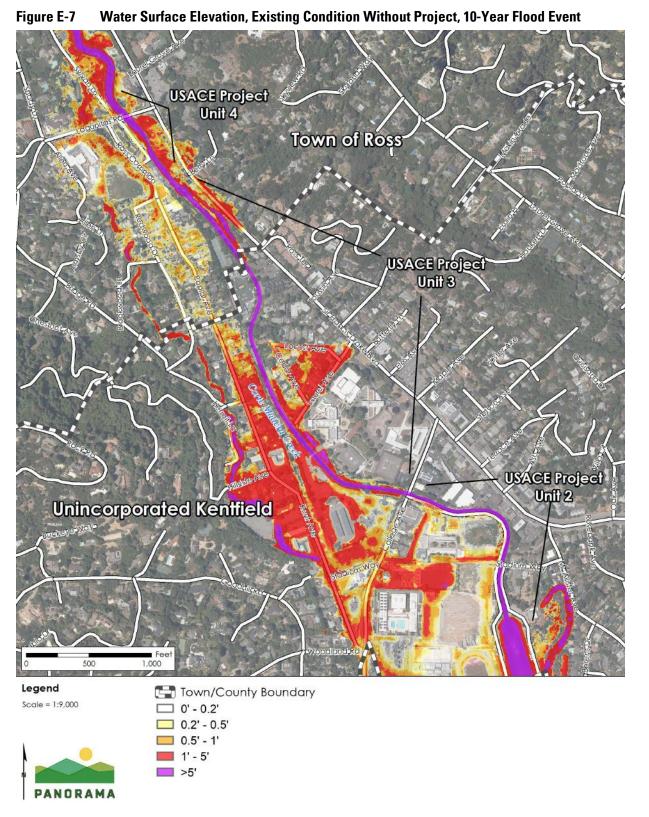
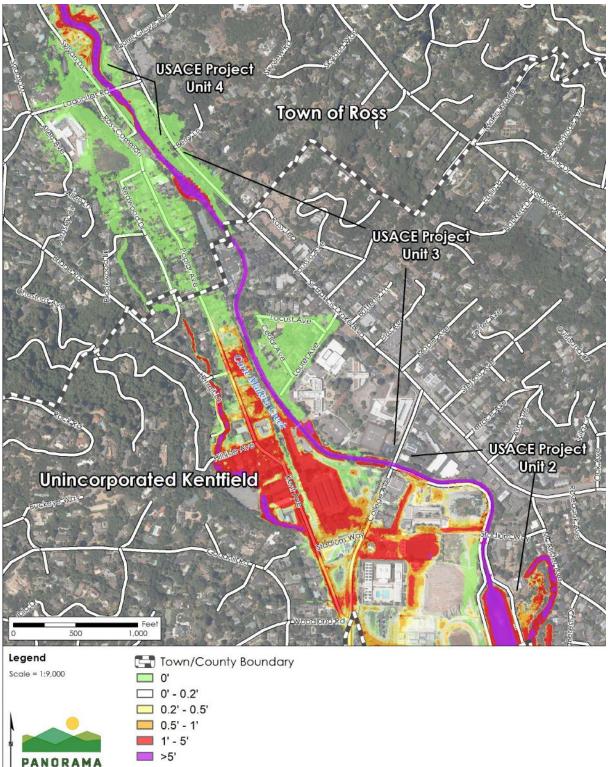
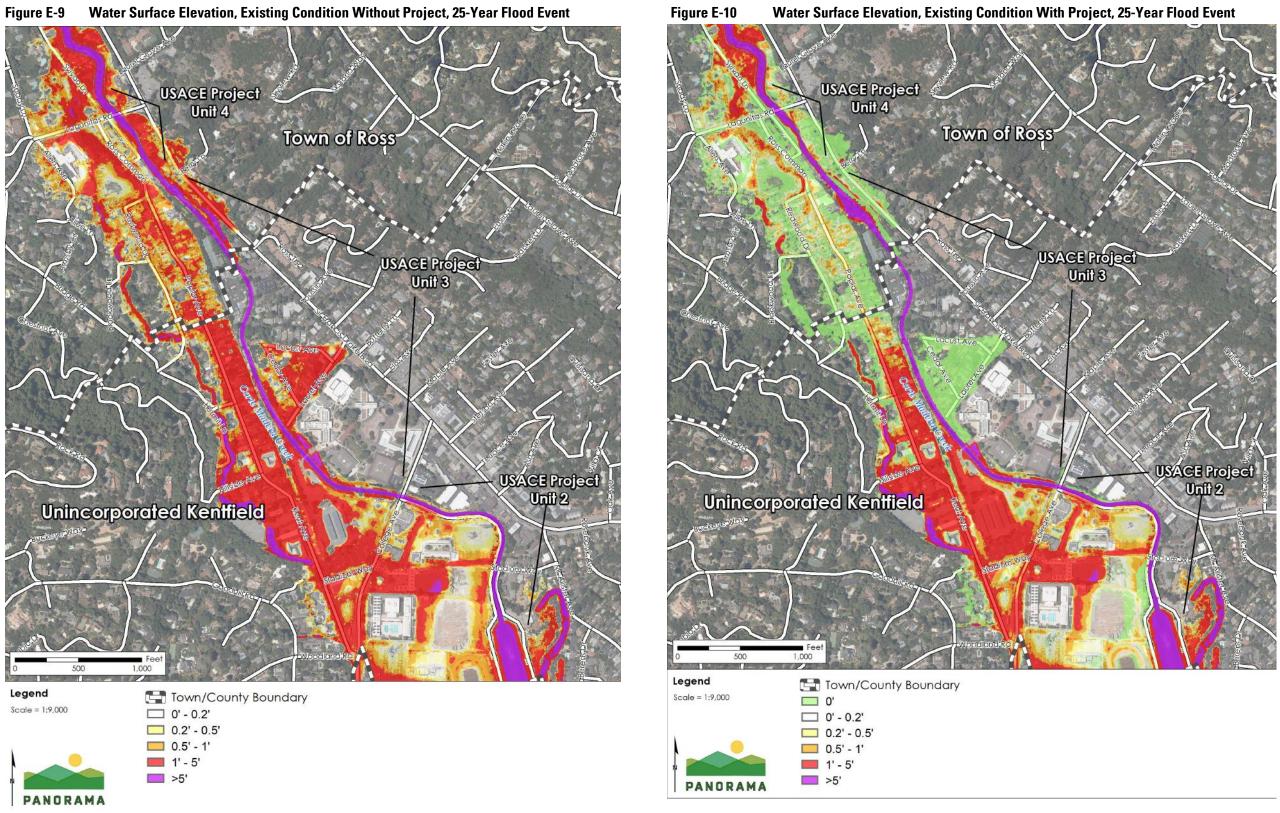
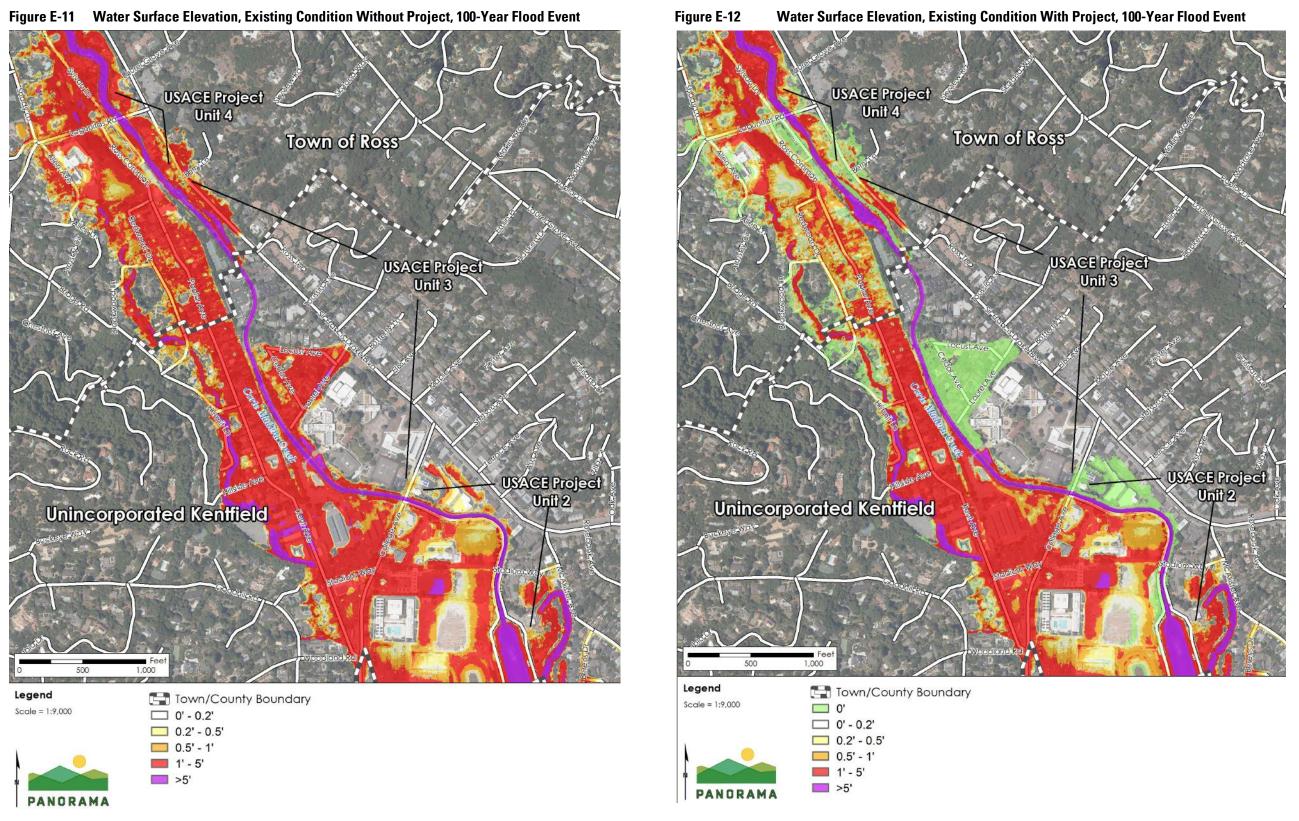
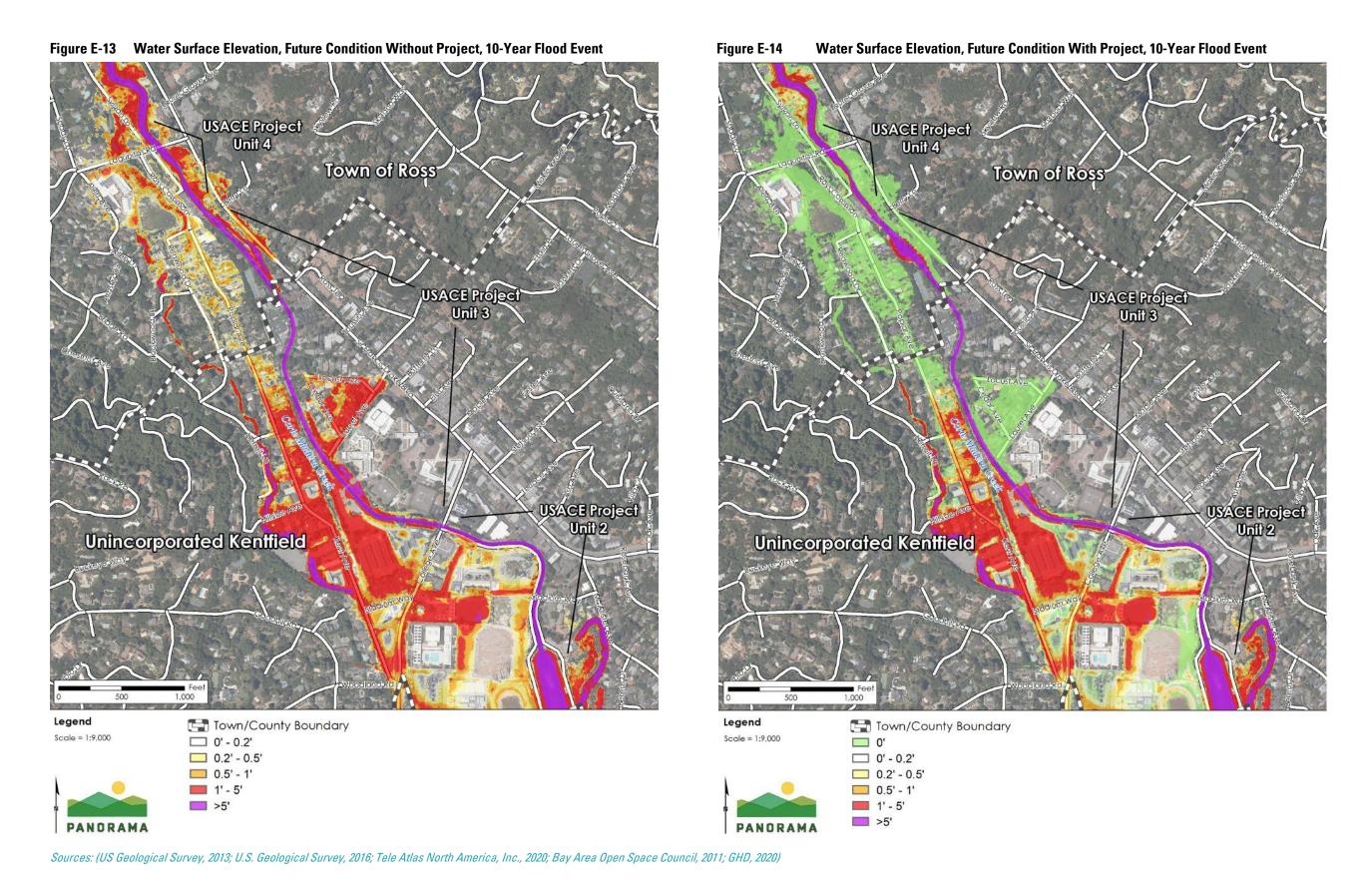


Figure E-8 Water Surface Elevation, Existing Condition With Project, 10-Year Flood Event









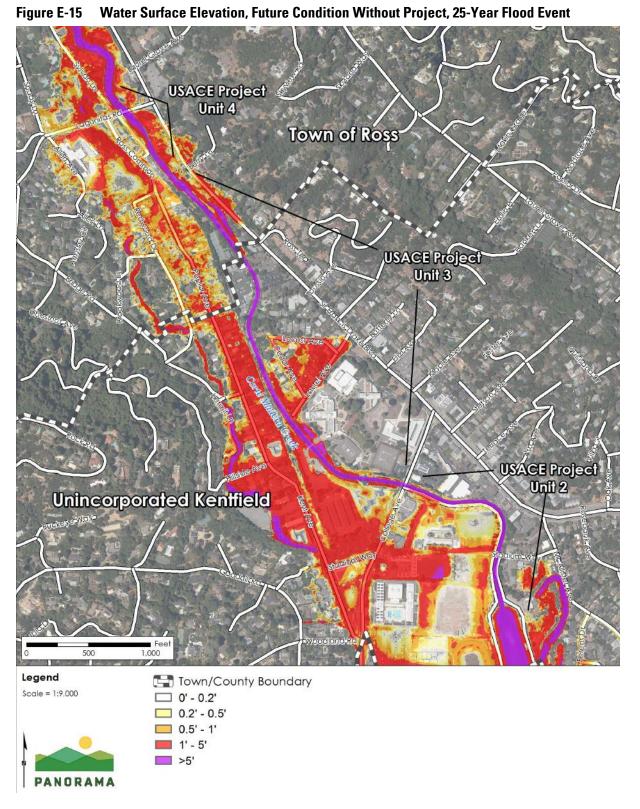
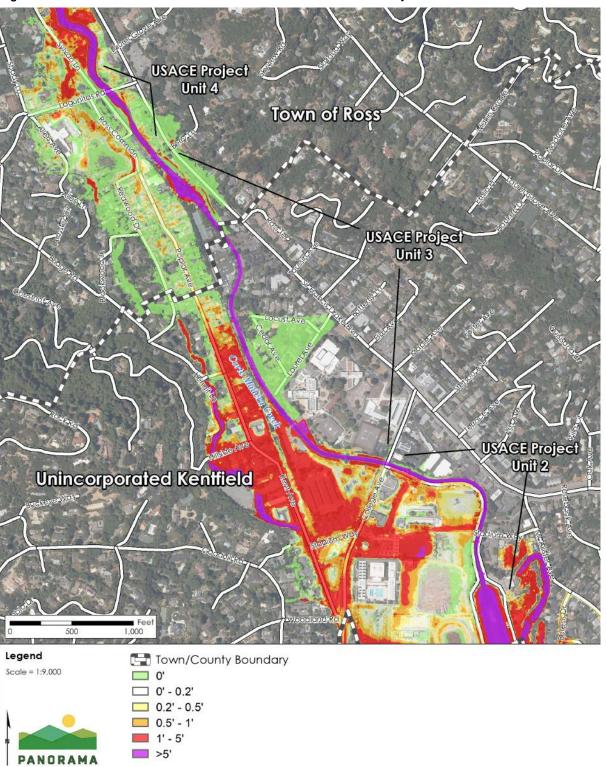
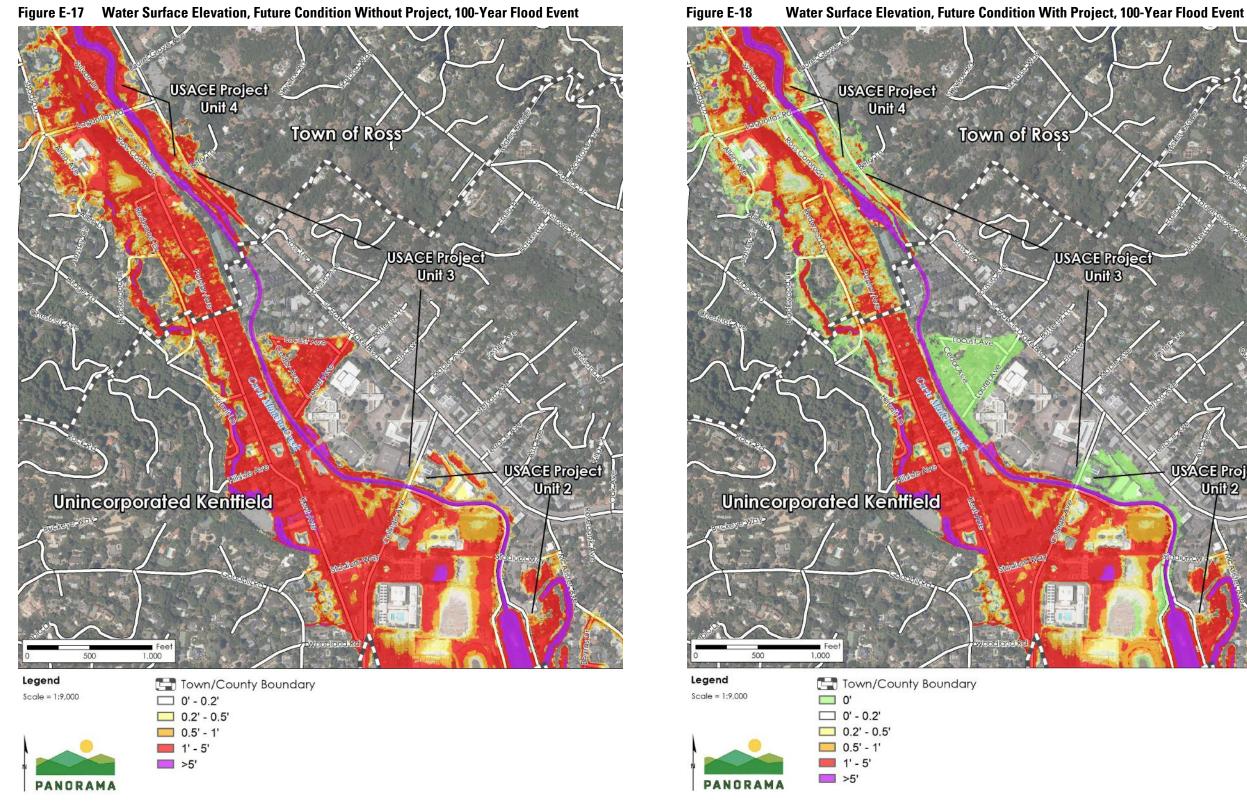


Figure E-16 Water Surface Elevation, Future Condition With Project, 25-Year Flood Event



USACE Project Unit 3



### **APPENDIX E**

### **References**

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