

San Francisco Bay Regional Water Quality Control Board

Water Surface Elevations along San Francisquito Creek

under Existing Conditions

during the 7,500¹ cfs flow and 7.1' tide elevation

Below is the list of cross sections where water surface elevations exceed left or right bank (i.e. overflow to the marsh or East Palo Alto on the left bank or the gulf course and Palo Alto Pump Station on the right bank).

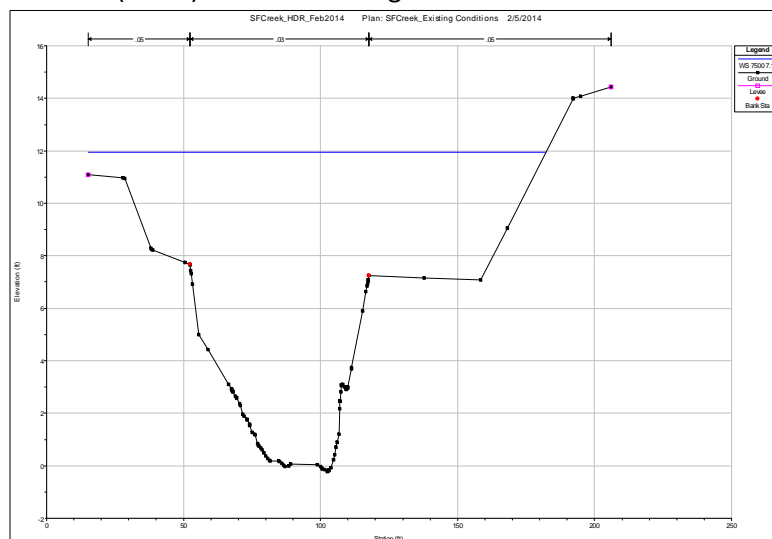
The HEC-RAS results show that under Existing Conditions and during a flow of 7,500 cfs:

1. The airport or the gulf course would not receive any fluvial flows
2. Faber Marsh would receive 0.8 ft (9.6 in) of fluvial flow (155 cfs per HDR memo dated April 14, 2014)
3. East Palo Alto would receive 0.05 to 0.8 ft (<1 in to 9.6 in) of fluvial flow
4. Right bank areas immediately downstream of Hwy 101 (Palo Alto Pump Station and SCVWD Mitigation area) would receive 0.5 to 2.4 ft of flow

Since the Existing Conditions HEC-RAS model was developed for 7,500 cfs as opposed to 7,400 cfs, the overbank flow depths are overestimated and the actual overbank flows during the 30-yr flow would be less.

Due to the fact that they hydraulic conditions were modeled for one-dimensional conditions under steady state flows, we are not able to estimate the volume of overbank flow entering the areas of concern.

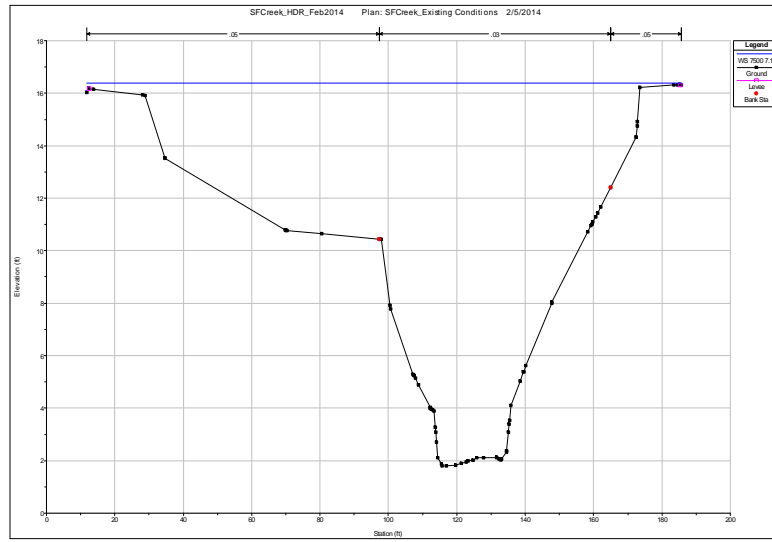
- a. STA 2600 - 0.8 ft (9.6 in) of water flowing into Faber Marsh



a.

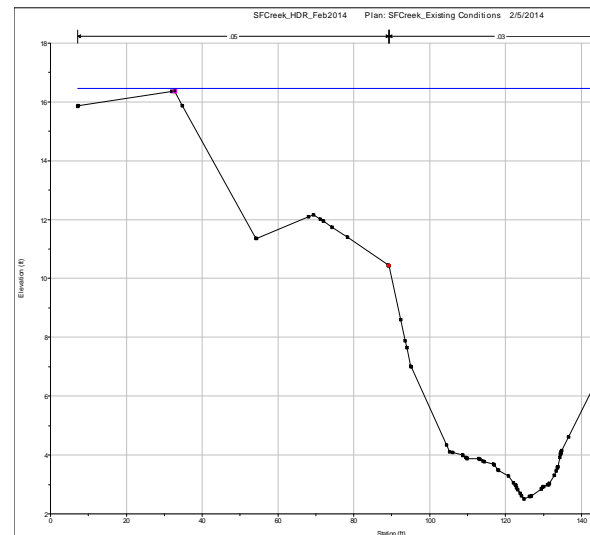
¹ HEC-RAS Existing Conditions model that was delivered to the Water Board in February 11, 2014 modeled 7,500 cfs flow and didn't model 7,400 cfs flow that was used for project alternatives.

b. STA 6211.76 - 0.2 ft (2.5 in) of water flowing into East Palo Alto



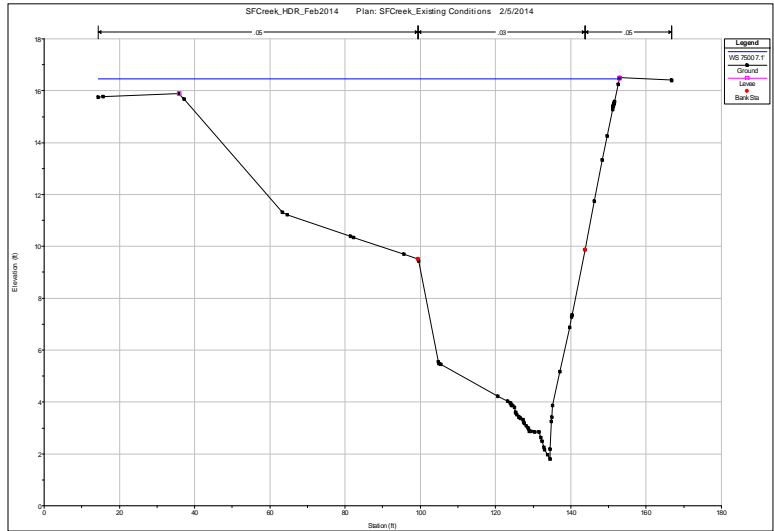
a.

c. STA 6412.46 - 0.05 ft (<1 in) of water flowing into East Palo Alto



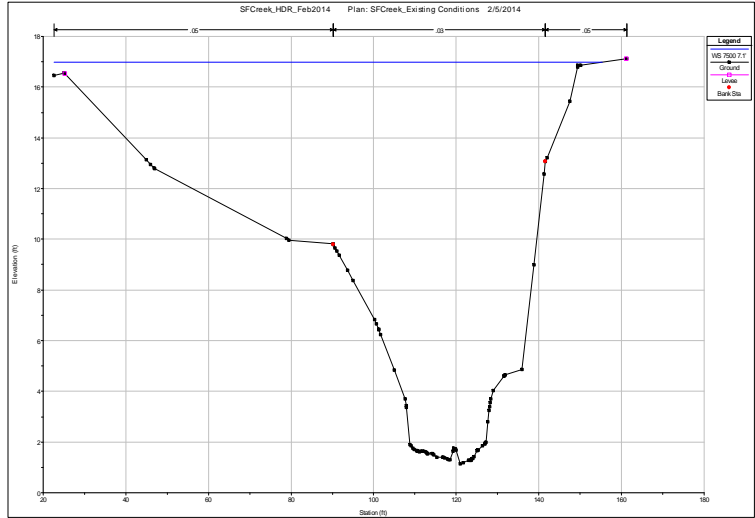
a.

d. STA 6613.70 - 0.6 ft (7 in) of water flowing into East Palo Alto



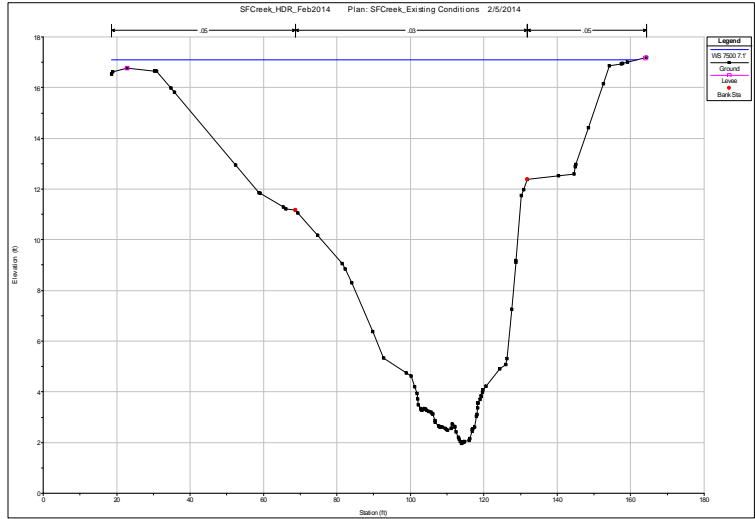
a.

e. STA 6812.72 – 0.45 ft (5.5 in) of water flowing into East Palo Alto



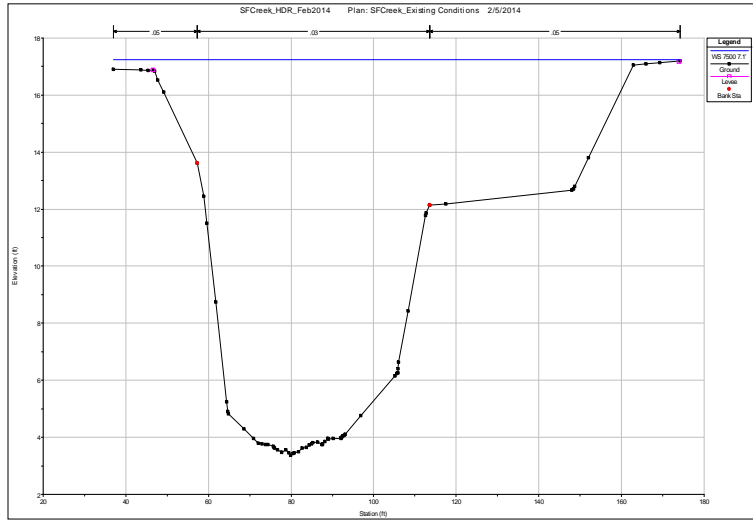
a.

f. STA 6963.45 – 0.33 ft (4 in) of water flowing into East Palo Alto



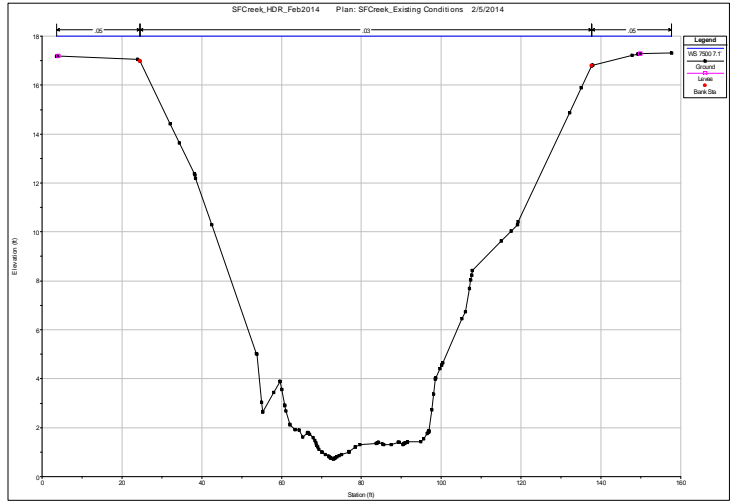
a.

g. STA 7167.64 – 0.36 ft (4.5 in) of water flowing into East Palo Alto



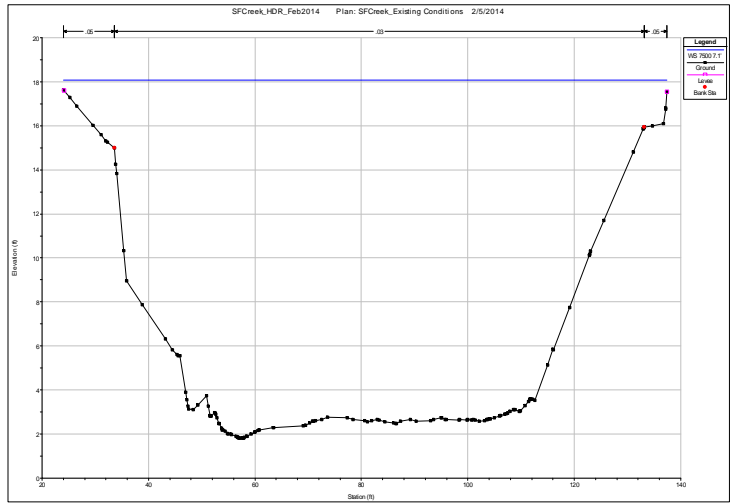
a.

- h. STA 7418.67 – 0.81 ft (9.7 in) of water flowing into East Palo Alto and 0.71 ft (8.5 in) of water flowing into “SCVWD Mitigation Area”



i.

- j. STA 7627.80 – 0.5 ft (6 in) of water flowing into East Palo Alto and 0.55 ft (6.5 in) of water flowing into Palo Alto Pump Station



a.

- k. STA 7762.08 – 0.8 ft (9.6 in) of water flowing into East Palo Alto and 2.4 ft (28.6 in) of water flowing into Palo Alto Pump Station

