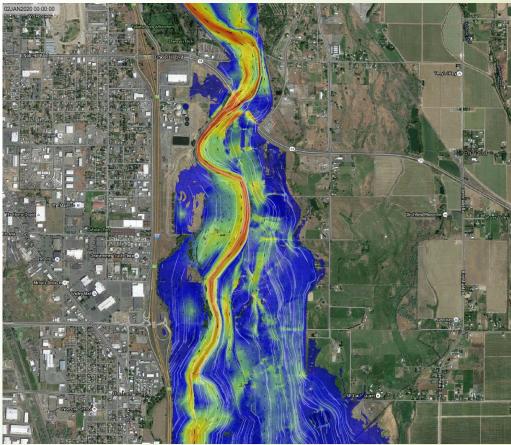
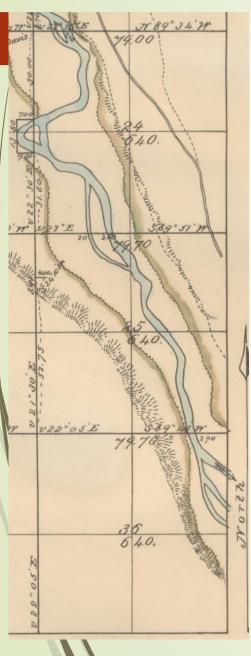
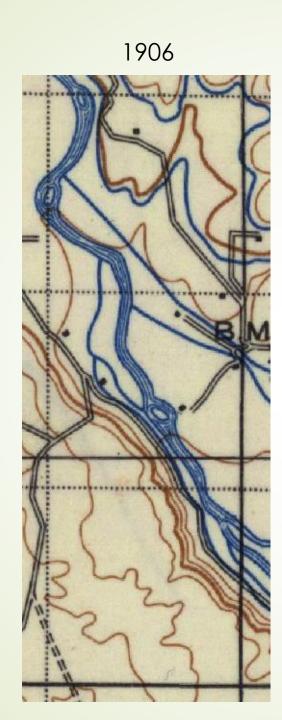
Floodplain Restoration on the Naches and Yakima Rivers 2010-2016

Joel Freudenthal Yakima County Flood Control Zone District June 15, 2016







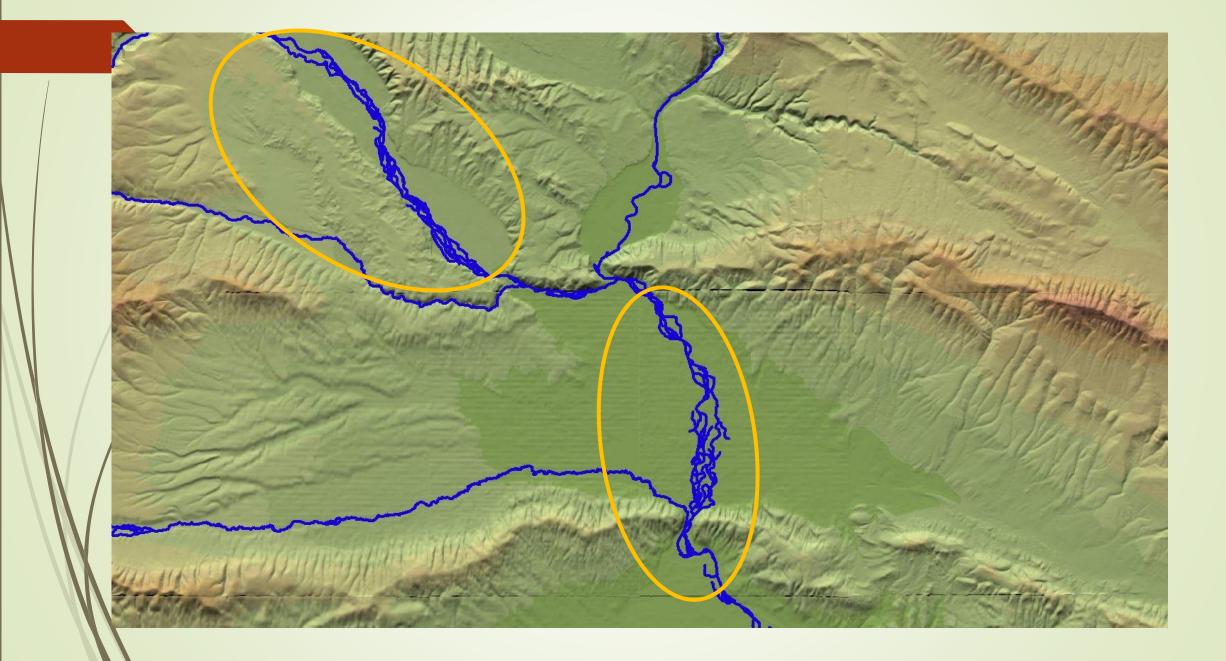


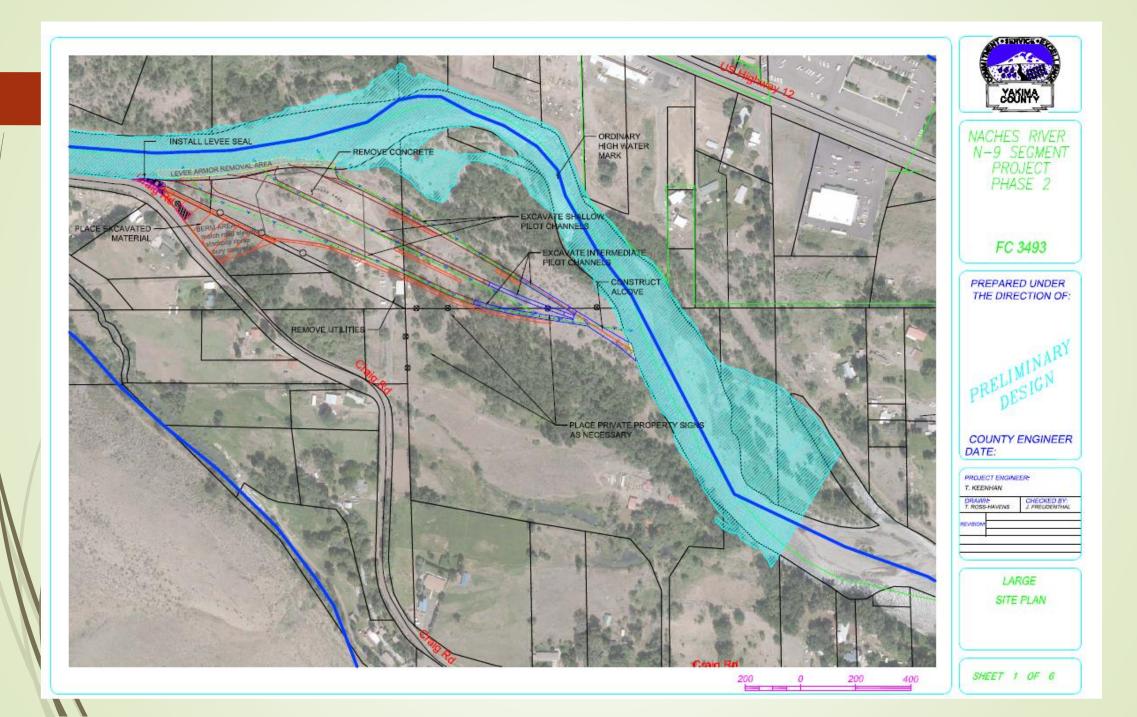


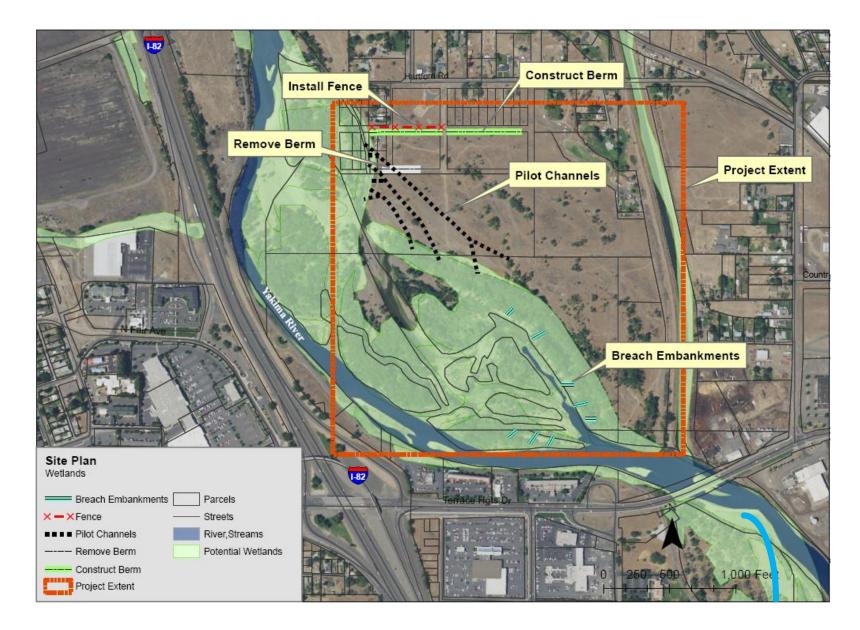










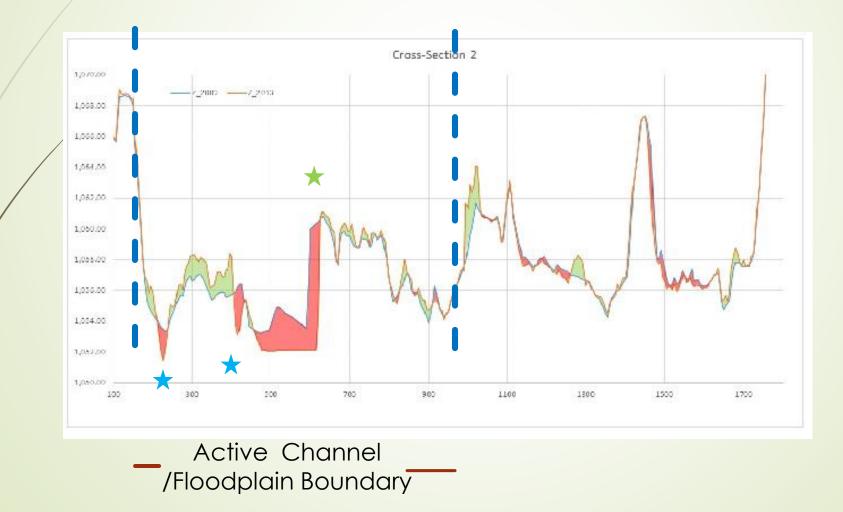


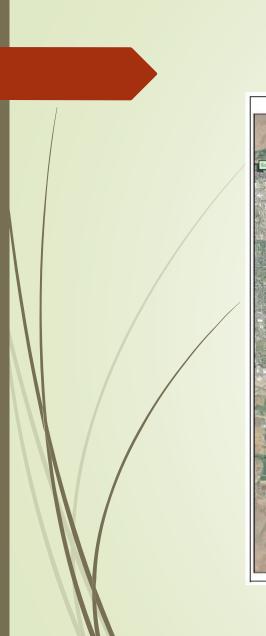
Y-9 Floodplain Restoration





Pre and Post Project X sections "Acceleration Channel" Downstream of Breach





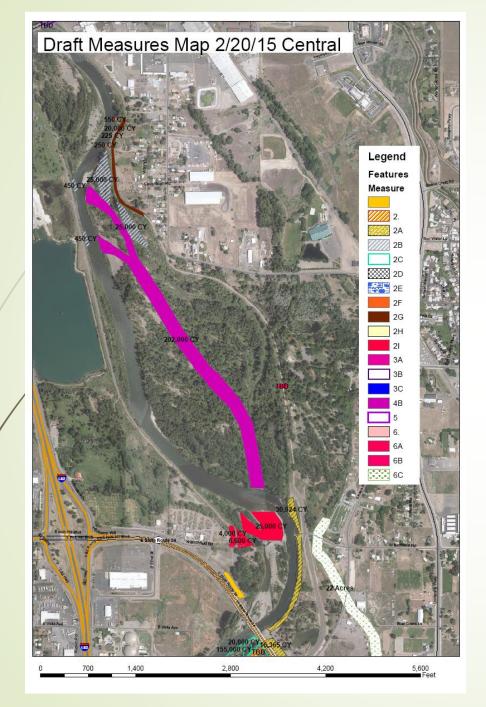


Gap to Gap

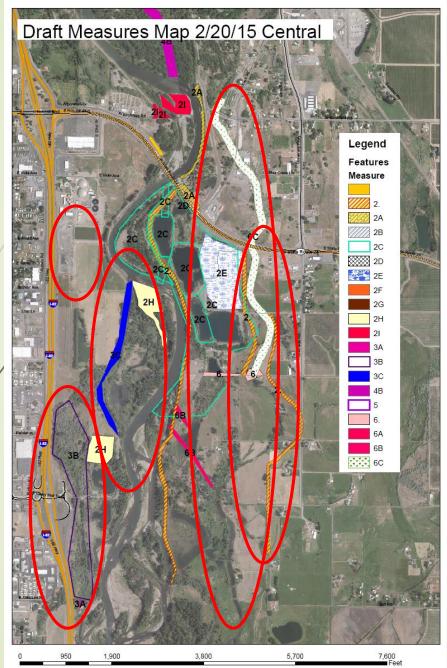
\$805K - YBIP

\$38M So Far

\$10M from Corps in 2017



Yakima River Gap to Gap 10% Design -Upper



Yakima River Gap to Gap 10% Design - Lower

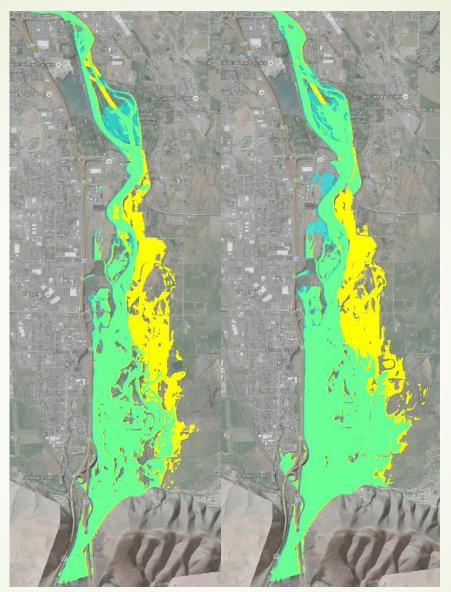


Figure 19. Change in 2 year (left) and 10-year (right) inundation areas in project reach. Yellow area is increased inundation resulting from levee setback, while blue area is an area that is not flooded under with project conditions but is under existing conditions. Green areas are coincident inundation for existing and with project conditions. Note the change in active floodplain extent.

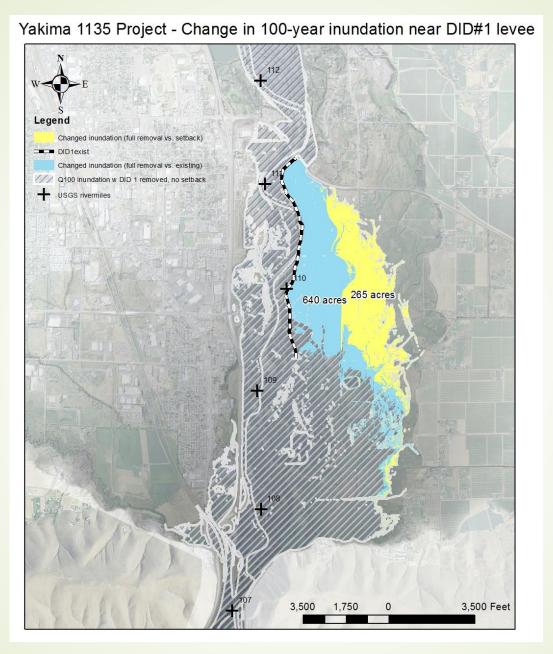


Figure 22. Yakima River 1% AEP (100-year) floodplain changes from existing conditions due to full levee removal (640 acres) and setback levee construction (375 acres)