

Figure 1. Location of Mason Road site on Green Valley fault (yellow square indicates area shown in Figure 2 below). Holocene faults (USGS & CGS, 2006), those active in past 11,000 years, shown in red.

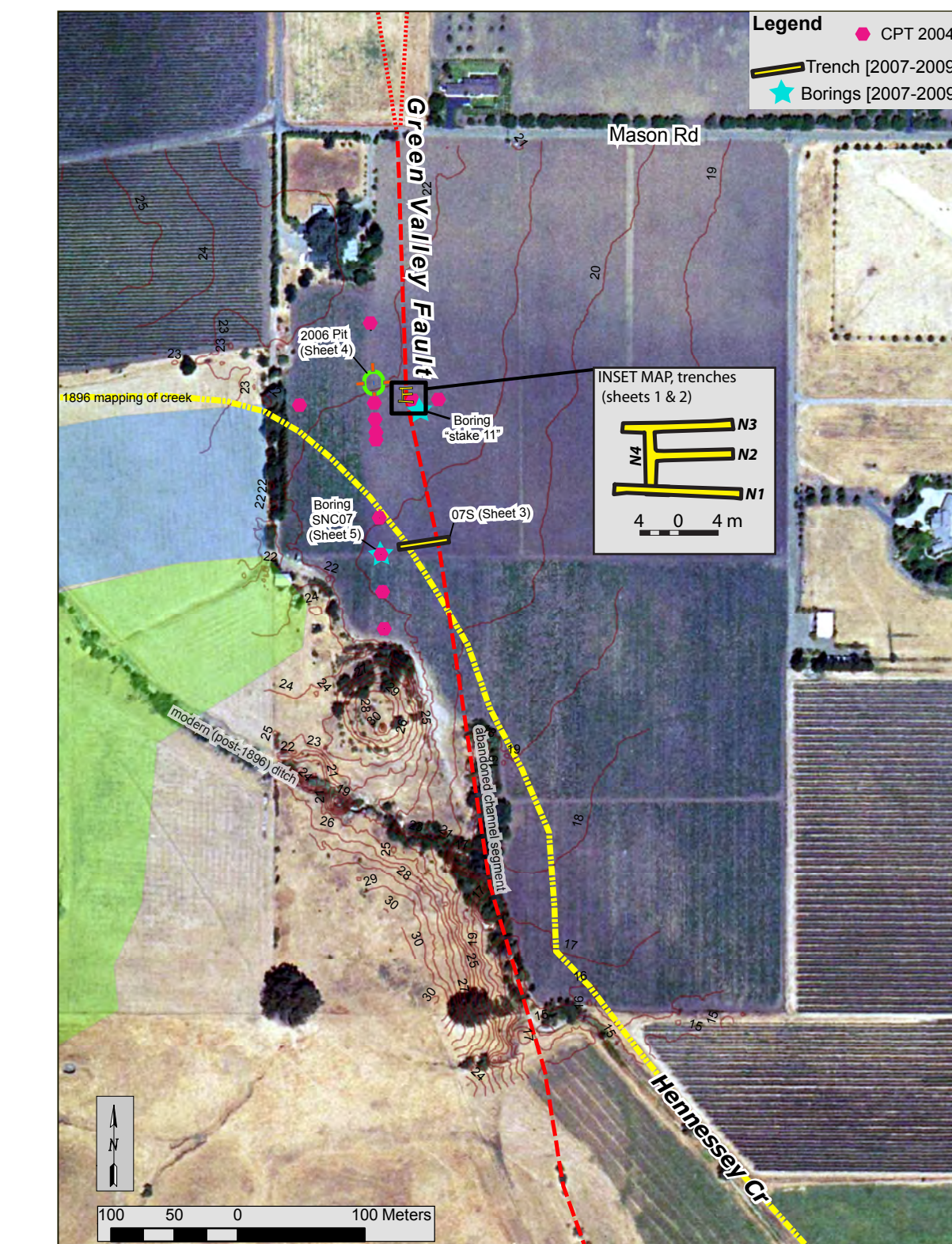
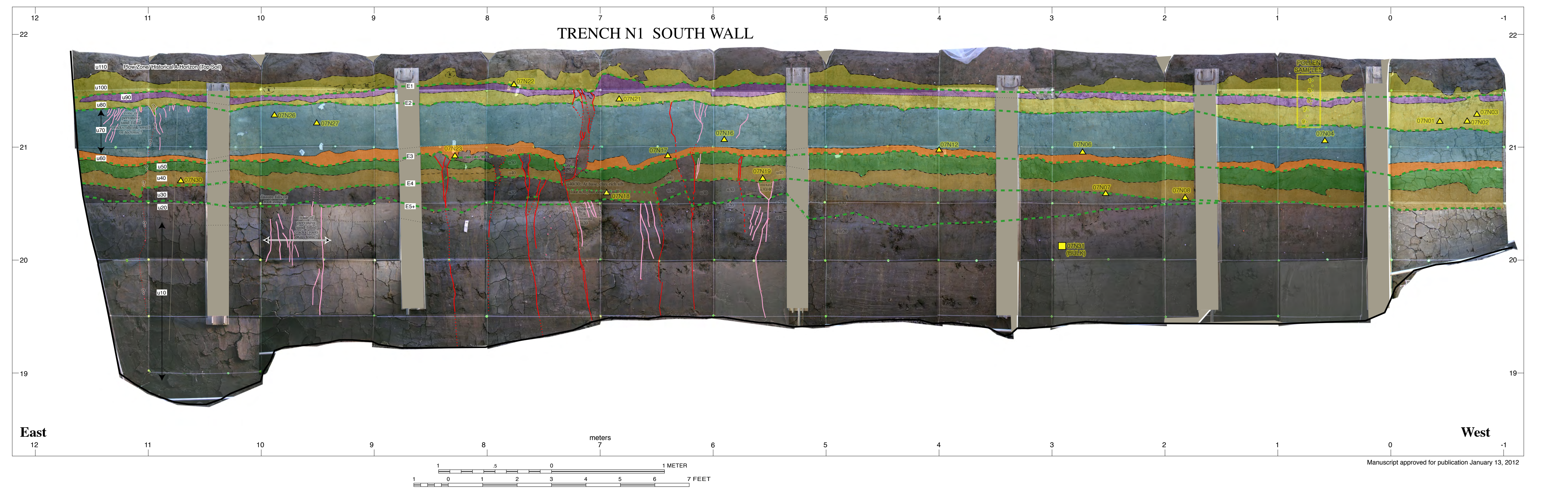
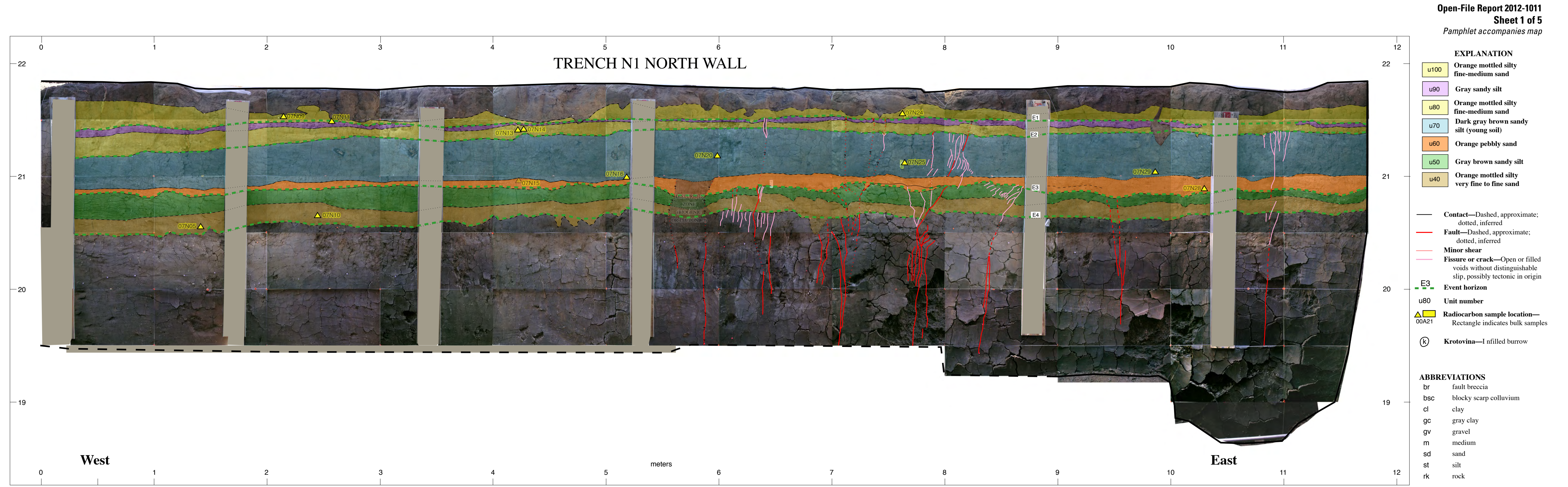


Figure 2. Mason Road fault investigation site on Green Valley fault (fault, red dashes). The historical location Hennessey Creek transferred approximately from topographic mapping done in 1896, shown as dashed and dotted yellow line, suggests a large right-lateral stream offset along the fault. Cone penetration tests (CPT, magenta dots; Bennett and others, 2011) and 2006 pit (green oval) were done to examine geometry and relative ages of offset buried stream sediments. At borings (blue stars), we took continuous sediment samples (Bennett and others, 2011), including charcoal for radiocarbon dating. Trenches N1-N4 and 07S (yellow/black lines) showed evidence (in N1-N4) of multiple recent earthquakes. Topographic contours (in brown, in meters) from our detailed 2004 mapping in areas where contours shown. Basemap, USGS color digital orthophoto quadrangles, October 2002.



Logs and Data from Trenches Across and Near the Green Valley Fault at the Mason Road Site, Fairfield, Solano County, California, 2006-2009

By
James J. Lienkaemper, Robert R. Sickler, Shannon A. Mahan, Johnathan Brown, Liam M. Reidy, and Mindy A. Kimball
2012

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and between X and Y directions on the same plotter, and paper may change size due to atmospheric conditions; therefore, scale and proportions may not be true on plots of this map.

For sale by U.S. Geological Survey, Information Services, Box 25286, Federal Center, Denver, CO 80225, 1-888-ASK-USGS

Available on World Wide Web at <http://pubs.usgs.gov/of/2012/1011/>

Any use of trade, firm, or product names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government

EXPLANATION

- u100 Orange mottled silty fine-medium sand
- u90 Gray sandy silt
- u80 Orange mottled silty fine-medium sand
- u70 Dark gray brown sandy silt (young soil)
- u60 Orange pebbly sand
- u50 Gray brown sandy silt
- u40 Orange mottled silty very fine to fine sand

- Contact—Dashed, approximate; dotted, inferred
- - - Fault—Dashed, approximate; dotted, inferred
- Minor shear
- Fissure or crack—Open or filled voids without distinguishable slip, possibly tectonic in origin
- E3 Event horizon
- u80 Unit number
- ▲ Radiocarbon sample location—Rectangle indicates bulk samples
- ⊙ Krotovina—In-filled burrow

ABBREVIATIONS

- br fault breccia
- bsc blocky scarp colluvium
- cl clay
- gc gray clay
- gv gravel
- m medium
- sd sand
- st silt
- rk rock