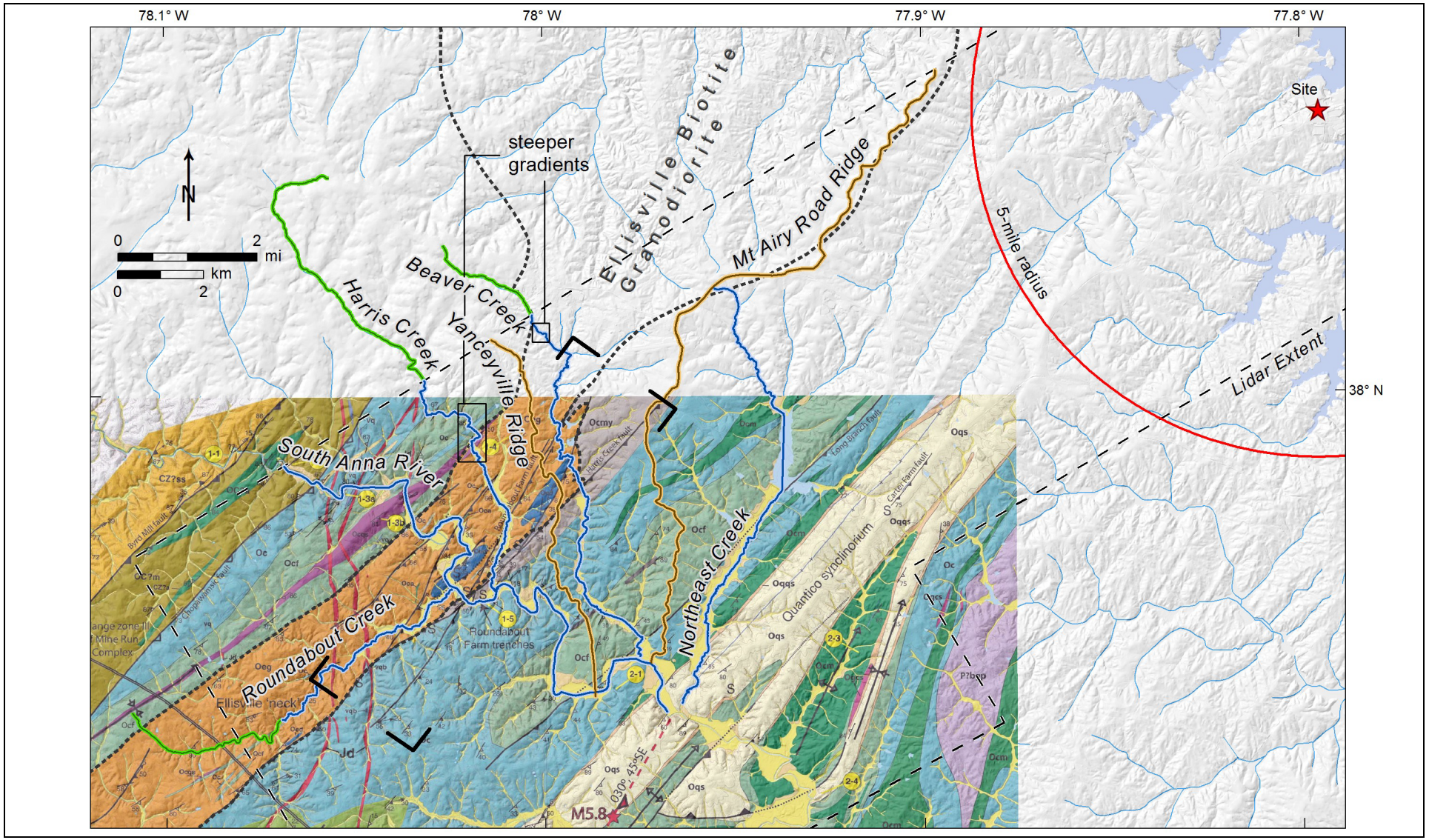
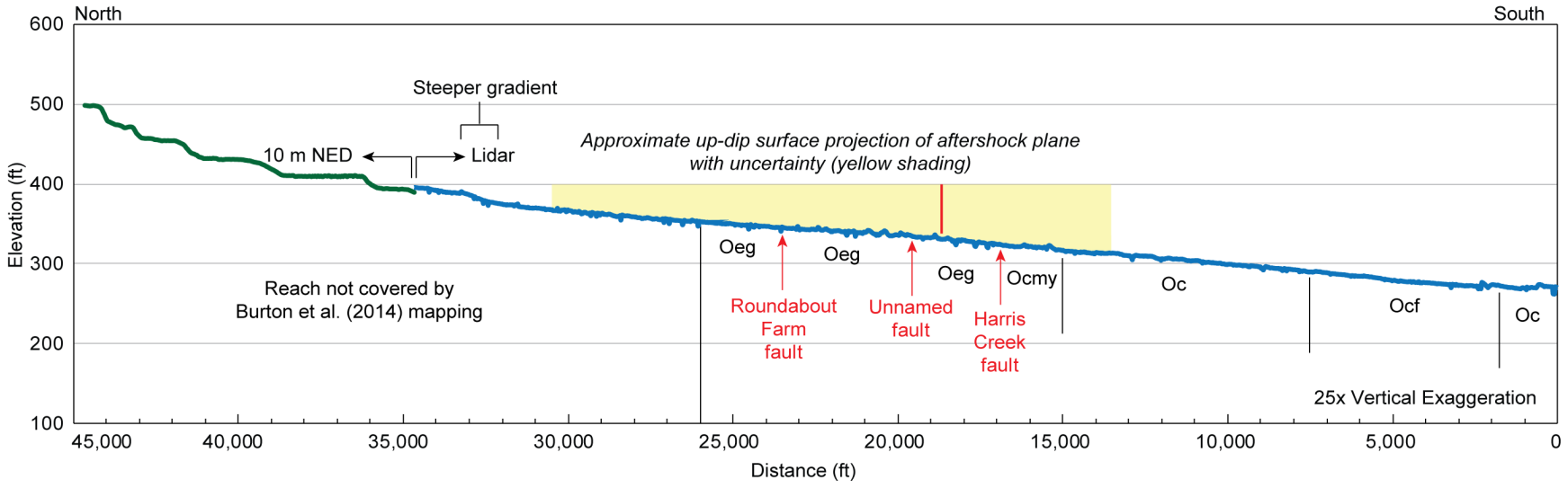
NAPS COL 2.0-26-A Figure 2.5.1-216 **Map of Stream and Ridge Topographic Profiles on the Geologic Map of Burton et al. (2014)**

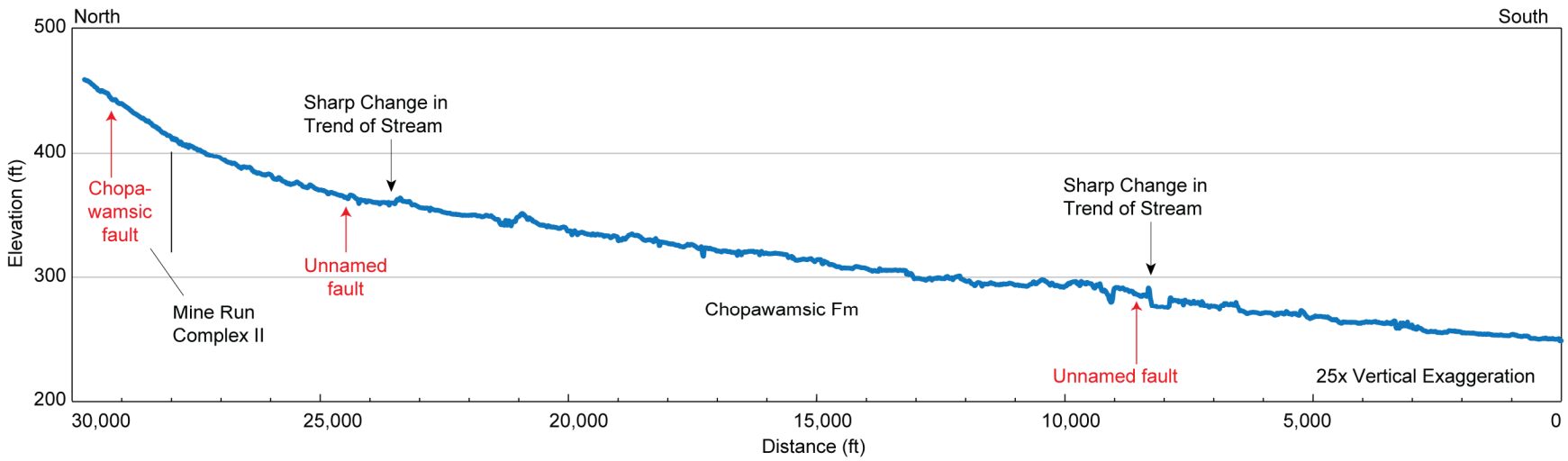


Note: Four brackets denote the approximate up-dip projection of the aftershock plane. Blue and green lines indicate locations of stream profiles from lidar and NED data, respectively. Brown lines indicate locations of profiles on ridgeline topographic profiles.

NAPS COL 2.0-26-A Figure 2.5.1-217 **Beaver Creek Profile Showing Geology of Burton et al. (2014)**

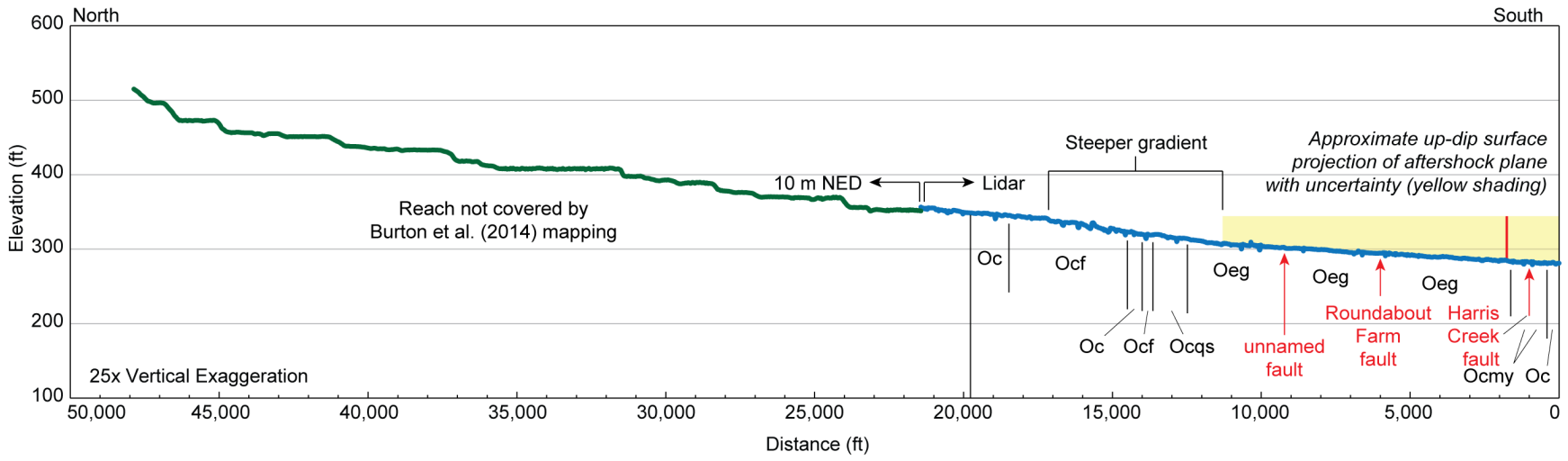


NAPS COL 2.0-26-A Figure 2.5.1-218 **Contrary Creek Profile**



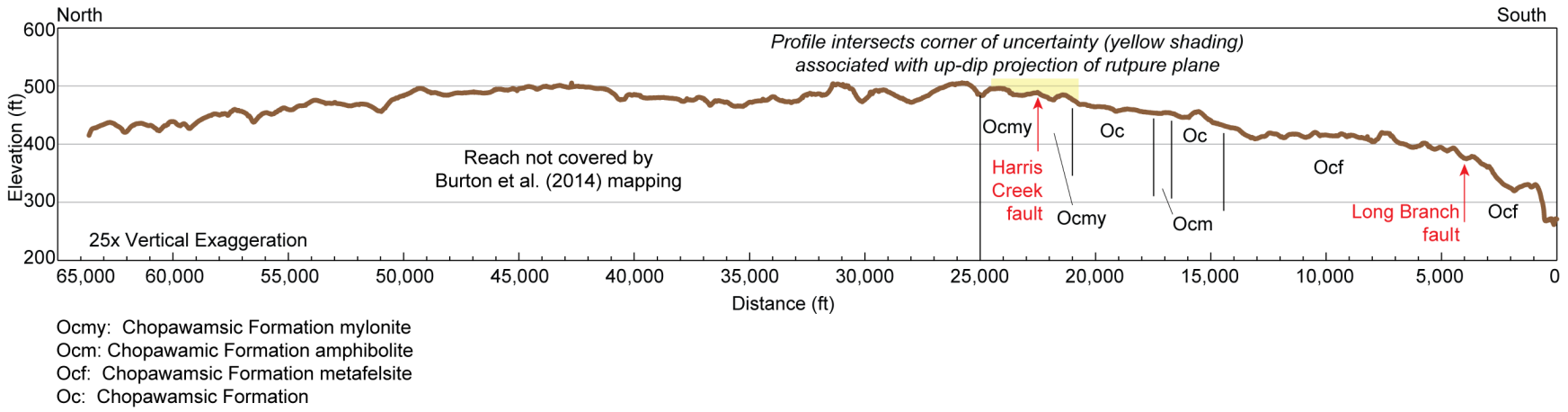
Note: This profile is located beyond the mapping of Burton et al. (2014) and is depicted with geology from map compilation shown in Figure 2.5.1-214.

NAPS COL 2.0-26-A Figure 2.5.1-219 **Harris Creek Profile Showing Geology of Burton et al. (2014)**

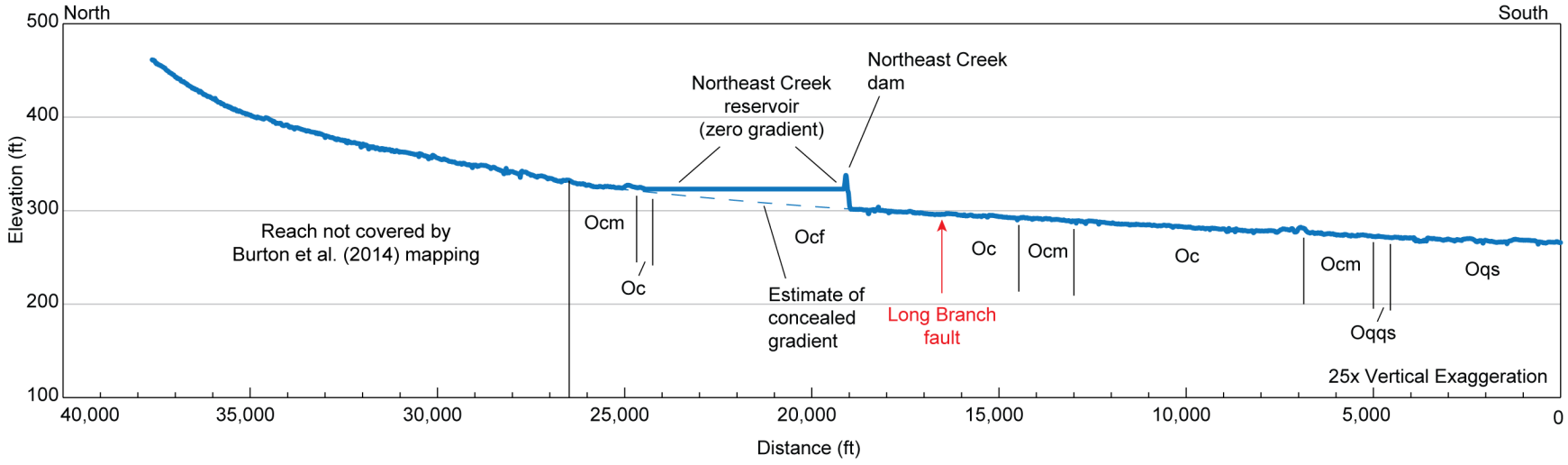


Oeg: Ellisville granodiorite
Ocmy: Chopawamsic Formation mylonite
Ocqs: Chopawamsic Formation quartzite and schist
Ocf: Chopawamsic Formation metafelsite
Oc: Chopawamsic Formation

NAPS COL 2.0-26-A Figure 2.5.1-220 **Mt. Airy Road Ridge Profile Showing Geology of Burton et al. (2014)**



NAPS COL 2.0-26-A Figure 2.5.1-221 **Northeast Creek Profile Showing Geology of Burton et al. (2014)**



Oqs: Quantico Formation

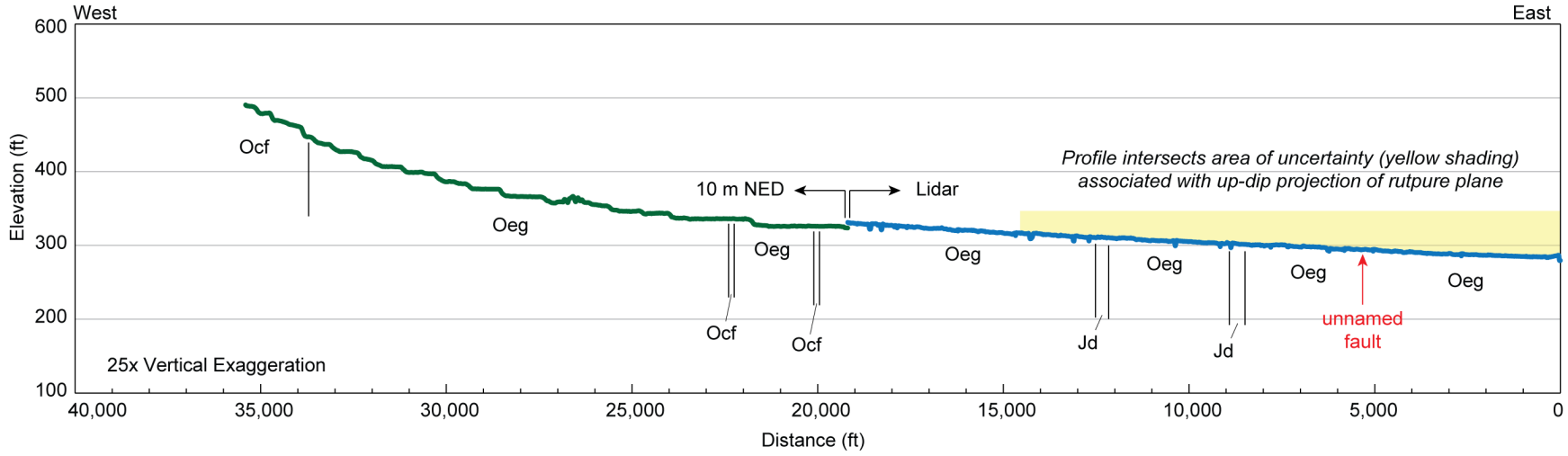
Oqqs: Quantico Formation basal quartzite and muscovite schist

Ocm: Chopawamsic Formation amphibolite

Ocf: Chopawamsic Formation metafelsite

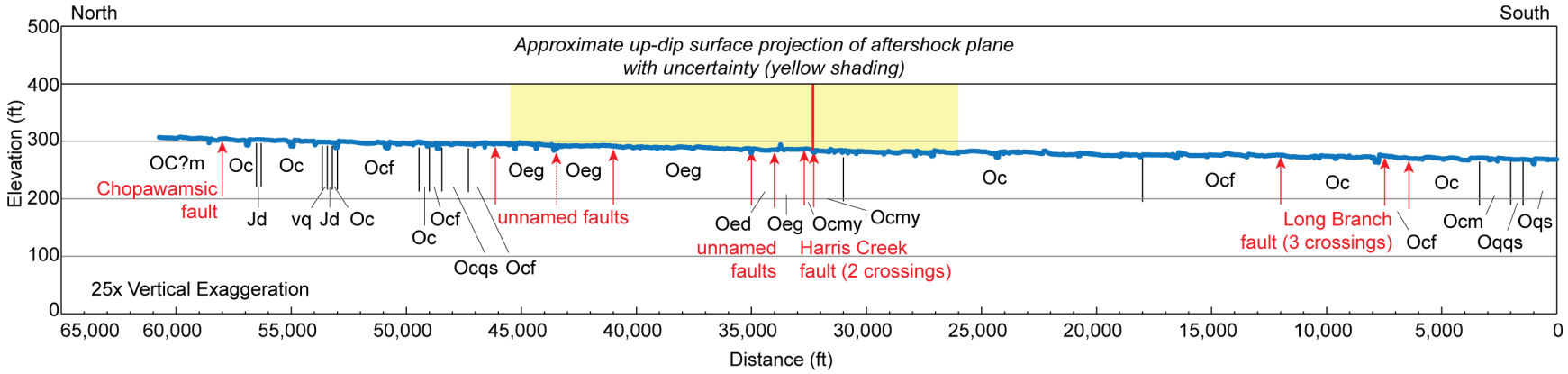
Oc: Chopawamsic Formation

NAPS COL 2.0-26-A Figure 2.5.1-222 **Roundabout Creek Profile Showing Geology of Burton et al. (2014)**



Jd: diabase
Oeg: Ellisville granodiorite
Ocf: Chopawamsic Formation metafelsite

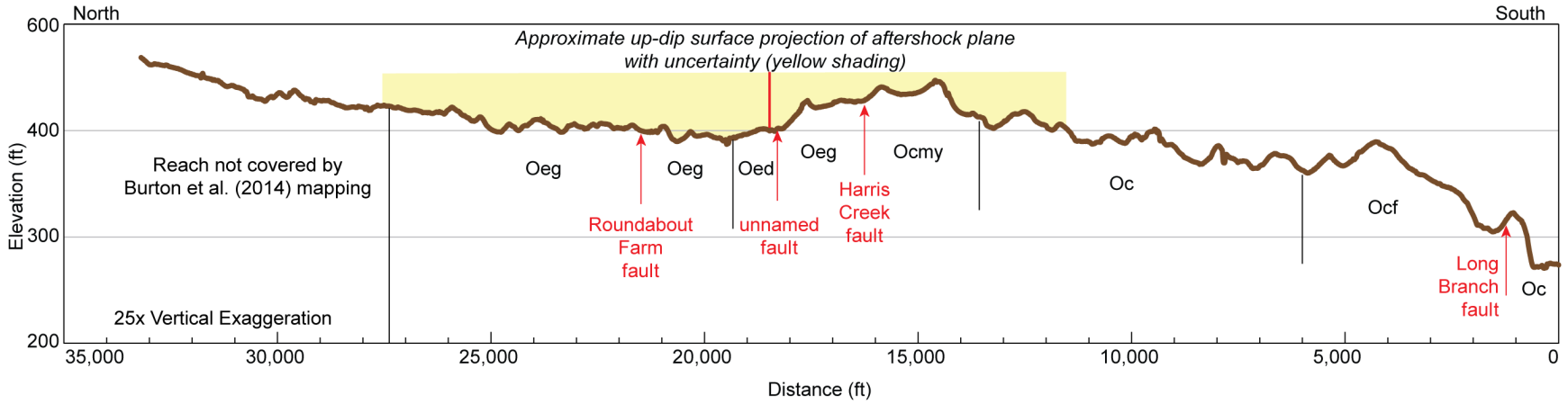
NAPS COL 2.0-26-A Figure 2.5.1-223 **South Anna River Profile Showing Geology of Burton et al. (2014)**



vq: vein quartz
Jd: diabase
Oeg: Ellisville granodiorite
Oed: Ellisville diorite
Oqs: Quantico Formation
Oqqs: Quantico Formation basal quartzite and muscovite schist

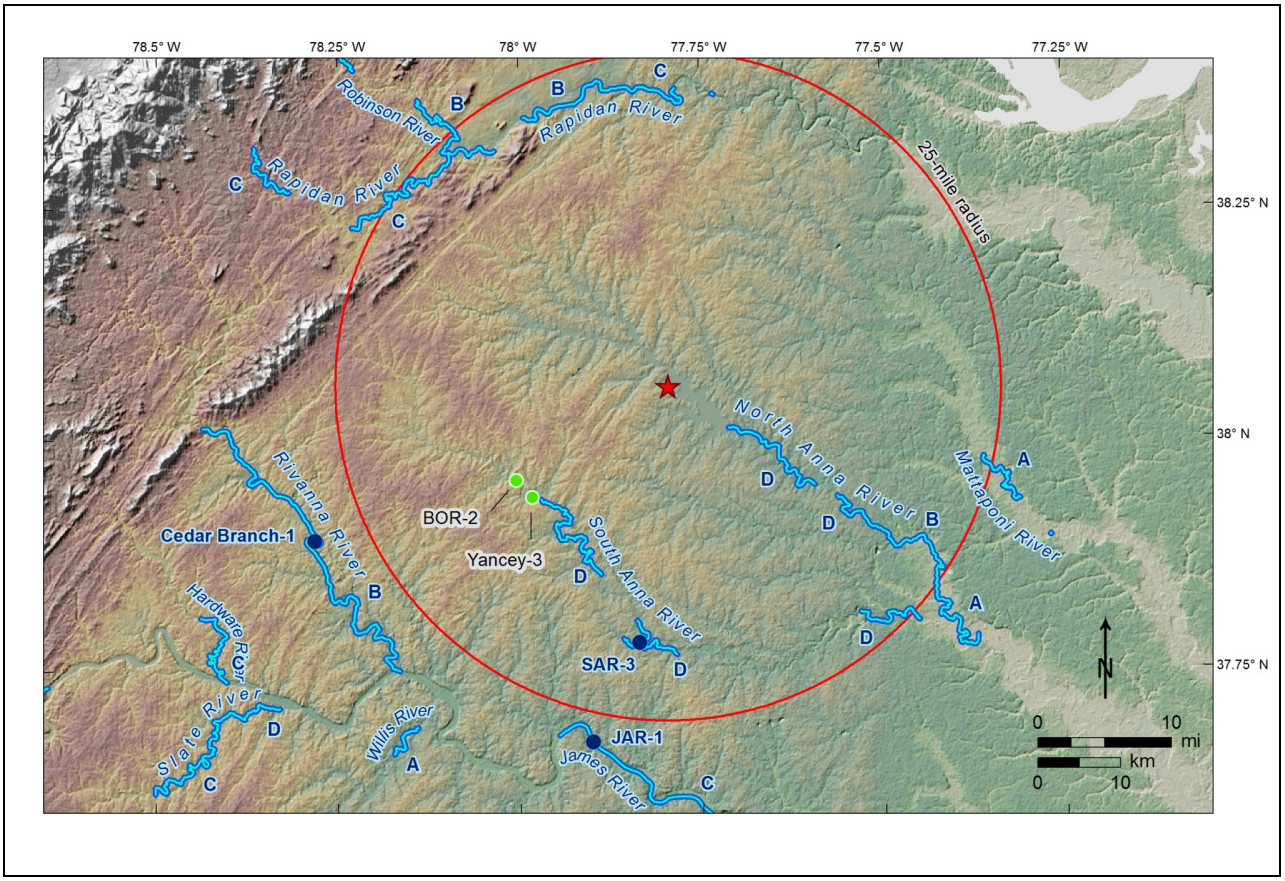
Ocmy: Chopawamsic Formation mylonite
Ocqs: Chopawamsic Formation quartzite and schist
Ocf: Chopawamsic Formation metafelsite
Oc: Chopawamsic Formation
OC?m: Graywacke, phyllite, and melange

NAPS COL 2.0-26-A Figure 2.5.1-224 **Yanceyville Road Ridge Profile Showing Geology of Burton et al. (2014)**



Oeg: Ellisville granodiorite
Oed: Ellisville diorite
Ocmy: Chopawamsic Formation mylonite
Ocf: Chopawamsic Formation metafelsite
Oc: Chopawamsic Formation

Figure 2.5.1-225 **Liquefaction and Paleoliquefaction Features in the Site Vicinity**



Note: Green dots indicate liquefaction sites (EERI (2011) (Reference 2.5-402) and dark blue dots indicate paleoliquefaction sites (Obermeier and McNulty (1998) (SSAR Reference 71); Dominion (2004) (Reference 2.5-404). Red star indicates location of the North Anna site. Blue lines indicate portions of rivers searched. Letters indicate the age and susceptibility of the deposits: A denotes ≥ 5 ka sediments (some older), with liquefiable deposits common; B denotes 2-3 ka sediments (some ~5 ka), with liquefiable deposits common; C denotes 2-3 ka sediments with liquefiable deposits common; D denotes 1-3 ka sediments with liquefiable deposits rare or absent.