



EXPLANATION

Geologic Units	
af	Artificial Fill
Qha	Alluvium
Qc	Colluvium
Qmf	Alluvial Fan
Quaternary	
Qh1	Holocene Clinch River Terraces
Qh2	Holocene Clinch River Terraces
Qp1	Pleistocene Clinch River Terraces
Qp2	Pleistocene Clinch River Terraces
Qp3	Pleistocene Clinch River Terraces
Qp4	Pleistocene Clinch River Terraces
Qp5	Pleistocene Clinch River Terraces
Qp6	Pleistocene Clinch River Terraces
Qp7	Undifferentiated Pleistocene Terraces
Lower Cambrian	
Sr	Rockwood Fm. sandstone, siltstone and shale
Os	Serpentinite Fm. limestone and shale
Cr	Reedsville Shale shale and siltstone with limestone interbeds
Chickamauga Supergroup	
Nashville Group	
Ocn1	Cannon Ls., Leipers and Catheys Fm. - undivided limestone with shale interbeds
Ocn2	Catheys and Leipers Fm. - undivided limestone with shale interbeds
Ocn3	Cannon Ls. limestone
Oh	Hemitage Fm. limestone
Chickamauga Group	
Och	Chickamauga Group - undivided
Omc	Moccasin Fm. siltstone with limestone interbeds
Owl	Witten Fm. limestone with shale interbeds
Ocw	Bowen Fm. siltstone with limestone interbeds
Obe	Berbot Fm. limestone with siltstone interbeds
Ook	Rockwell Fm. limestone with siltstone interbeds
Oli	Fleanor Shale mbr. of the Lincolnshire Fm. shale and siltstone with limestone
Obl	Blackford Fm. (includes Eldsen mbr.) limestone and siltstone
Stones River Group	
Osr	Stones River Group - undivided
Oca	Carters Ls. limestone with shale interbeds
Olb	Lebanon Ls. limestone
Ord	Ridley Ls. limestone with chert
Omp	Pierce and Murrefoboro Ls. - undivided limestone with shale interbeds
Ops	Pond Spring Fm. limestone with dolomite, shale and sandstone interbeds
Lower Ordovician	
Knox Group	
Oma	Mascot Dolomite dolomite with chert, limestone and sandstone interbeds
Ok	Kingsport Fm. dolomite with chert, limestone and sandstone interbeds
Olv	Longview Dolomite dolomite and chert
Oc	Chippotpec Dolomite dolomite with chert, limestone and sandstone interbeds
Ocr	Copper Ridge Dolomite dolomite with chert, limestone and sandstone interbeds
Upper Cambrian	
Conasauga Group	
Ocn	Conasauga Group - undivided
Ocn1	Marysville Ls. limestone with dolomite and siltstone interbeds
Ocn2	Nicholsky Shale shale with limestone interbeds
Ocn3	Dismal Gap Fm. (Maryville Ls.) shale and limestone with dolomite and siltstone interbeds
Ocn4	Rogersville Shale shale with limestone and siltstone interbeds
Ocn5	Friendship Fm. (Rutledge Ls.) limestone, dolomite, siltstone and shale
Ocn6	Pumpkin Valley Shale shale with limestone and siltstone interbeds
Lower Cambrian	
Rome Formation	
Or	Rome Fm. - undivided sandstone, shale and siltstone with interbeds of dolomite
Geologic Structures	
— — —	Syncline dashed where approximate
— — —	Anticline dashed where approximate
— — —	Overturned Syncline dashed where approximate
— — —	Thrust Fault dashed where approximate, dotted where concealed
— — —	Contact dashed where approximate, dotted where concealed
Other	
— — —	Contour, 25 ft interval
— — —	Cross section location (see Figure 2.5-135)

Source:

Jewell, J., 1996. Geologic map of the Lenoir City Quadrangle Draft Open File Report, TN, TDG 130-SE, 1:24,000.

Lemiszki, P., 2001. Geologic map of the Cave Creek Quadrangle Draft, TN, TDG 130-SW, 1:24,000.

Lemiszki, P., J., Hatcher, R.D., Kettle, R.H., 2012. Preliminary Detailed Geologic Map of the Oak Ridge, TN Area, DRAFT 8-14-12 TDG S16A, 1:24,000.

Lemiszki, P., 2015. Geologic map of the Elverton Quadrangle Draft, TN, GM 130-NW, 1:24,000.

Merrick Company, 2013. TVA Clinch River LIDAR Mapping Report, Tennessee Valley Authority Oak Ridge, TN, 29 pp.

Map Scale: 1:12,000 Map Projection: NAD 1983 StatePlane Tennessee FIPS 4100

**PLATE 2b (northeast quadrant)
Clinch River Site Area Geologic Map**

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**Clinch River
Reconnaissance Mapping**