

CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE LOWER TENNESSEE RIVER WATERSHED

- 4.1 Background.
- 4.2. Characterization of HUC-10 Subwatersheds
 - 4.2.A. 0602000101 (Tennessee River)
 - 4.2.B. 0602000102 (Big Sewee Creek)
 - 4.2.C. 0602000103 (Richland Creek)
 - 4.2.D. 0602000104 (Sale Creek)
 - 4.2.E. 0602000106 (Wolftever Creek)

4.1. BACKGROUND. This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
- ii.a. Description of facilities discharging to water bodies listed on the 2002 303(d) list
- iii. Description of nonpoint source contributions

The Tennessee portion of the Lower Tennessee River Watershed (HUC 06020001) has been delineated into five HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView[®] v3.x and Spatial Analyst[®] v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft[®] Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

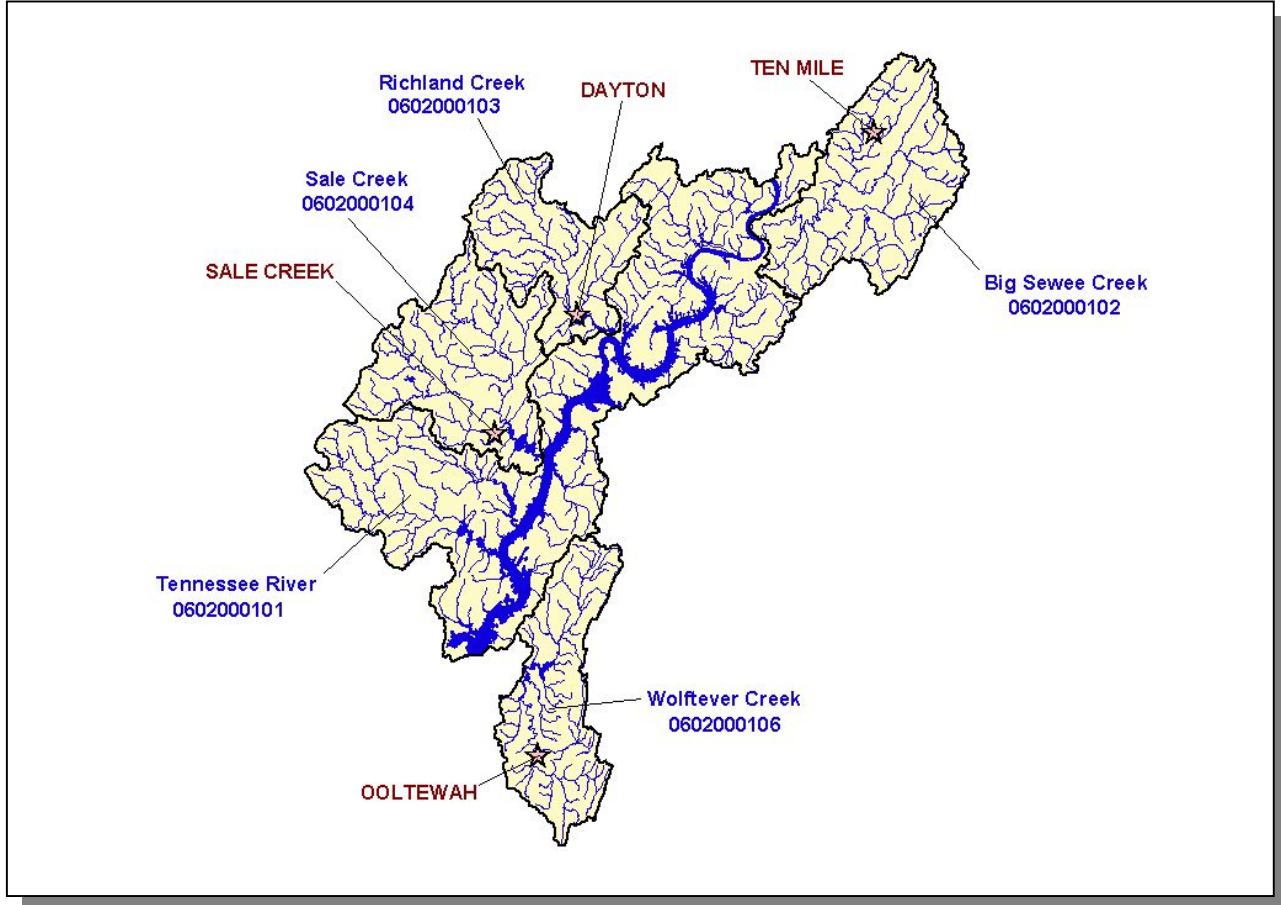


Figure 4-1. The Group 3 Portion of the Tennessee Portion of the Lower Tennessee River Watershed is Composed of Five USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Dayton, Ooltewah, Sale Creek, and Ten Mile are shown for reference.

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Group 3 portion of the Tennessee portion of the Lower Tennessee River Watershed.

HUC-10	HUC-12
0602000101	060200010101 (Tennessee River)
	060200010102 (Tennessee River)
	060200010103 (Goodfield Creek)
	060200010104 (Tennessee River)
	060200010105 (Possum Creek)
	060200010106 (Soddy Creek)
	060200010107 (Tennessee River)
0602000102	060200010201 (Big Sewee Creek)
	060200010202 Little Sewee Creek)
	060200010203 (Sewee Creek)
0602000103	060200010301 (Richland Creek)
	060200010302 (Little Richland Creek)
0602000104	060200010401 (Roaring Creek)
	060200010402 (Rock Creek)
	060200010403 (Sale Creek)
0602000106	060200010601 (Wolftever Creek)
	060200010602(Savannah Creek)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.