4.2.D. 0601020405 (Little Tennessee River).

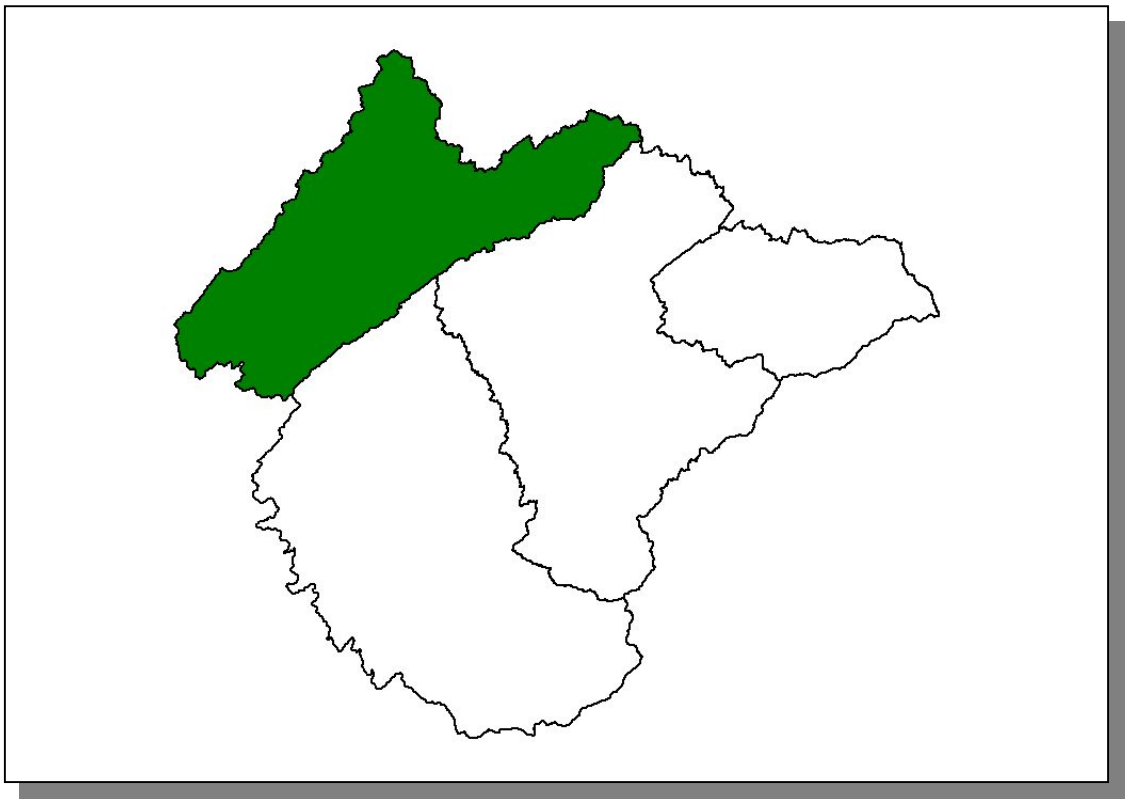

Figure 4-28. Location of Subwatershed 0601020405. *All Little Tennessee River HUC-10 subwatershed boundaries in Tennessee are shown for reference.*

4.2.D.i. General Description.

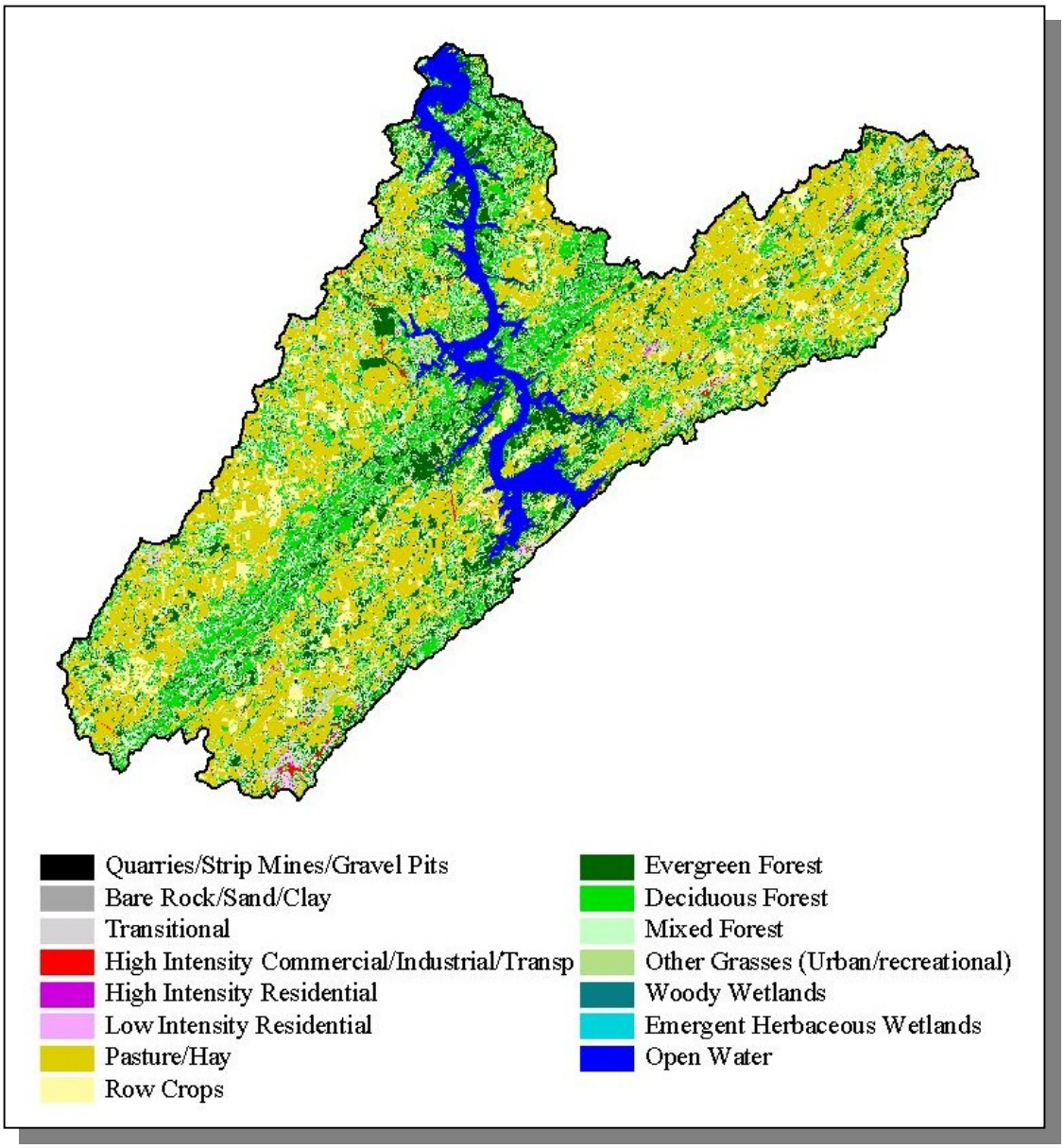

Figure 4-29. Illustration of Land Use Distribution in Subwatershed 0601020405.

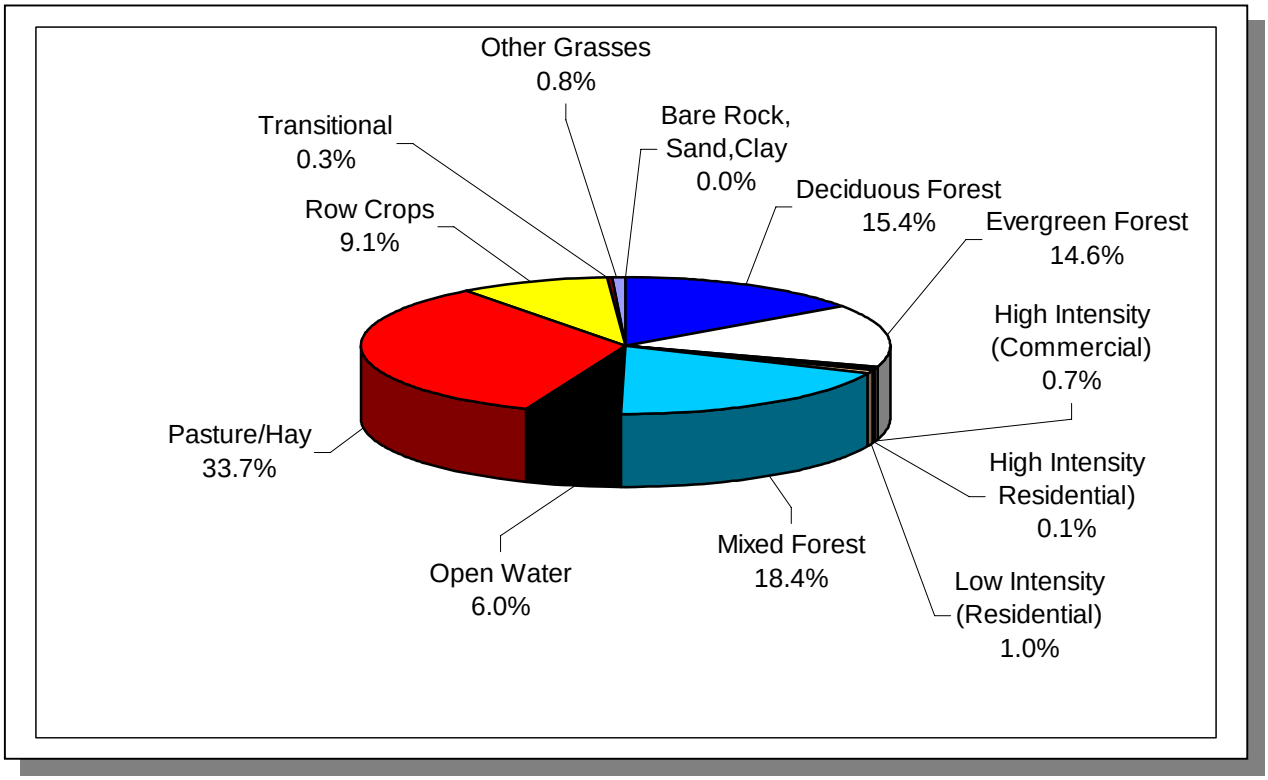

Figure 4-30. Land Use Distribution in Subwatershed 0601020405. *More information is provided in Appendix IV.*

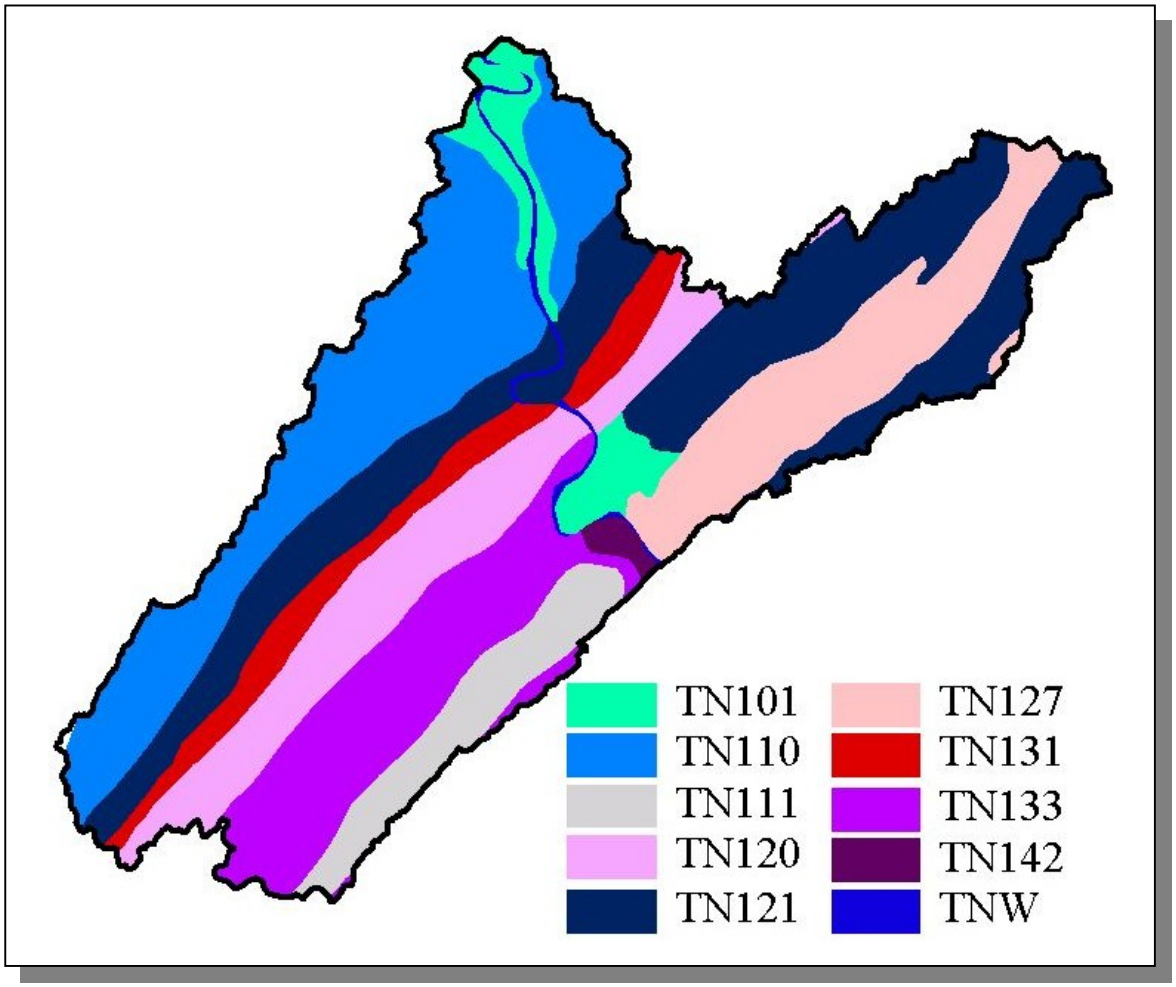

Figure 4-31. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0601020405.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hr)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN101	0.00	B	1.71	5.39	Loam	0.35
TN110	0.00	B	2.22	4.96	Loam	0.31
TN111	0.00	C	1.41	5.10	Loam	0.34
TN120	0.00	B	1.68	5.11	Loam	0.27
TN121	0.00	B	1.30	5.21	Loam	0.33
TN127	6.00	C	1.31	5.20	Loam	0.35
TN131	0.00	C	1.17	4.95	Silty Loam	0.33
TN133	0.00	C	1.35	6.04	Clayey Loam	0.27
TN142	0.00	B	2.20	5.78	Loam	0.31

Table 4-21. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0601020405. *More information is provided in Appendix IV.*

	COUNTY POPULATION				ESTIMATED POPULATION IN WATERSHED			
County	1990	1997	2000	Portion of Watershed (%)	1990	1997	2000	% Change (1990-1997)
Blount	85,969	100,218	105,823	4.96	4,268	4,975	5,253	23.1
Loudoun	31,255	38,245	39,086	27.75	8,673	10,613	10,846	25.1
Monroe	30,541	33,953	38,961	12.89	3,938	4,378	5,023	27.6
Totals	**147,765**	**172,416**	**183,870**		**16,879**	**19,966**	**21,122**	**25.1**

Table 4-22. Population Estimates in Subwatershed 0601020405.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Madisonville	Monroe	3,137	1,360	893	467	0
Sweetwater	Monroe	5,054	2,164	1,598	560	6
Vonore	Monroe	601	281	8	271	2
Greenback	Loudon	600	243	0	243	0
Totals		**9,392**	**4,048**	**2,499**	**1,541**	**8**

Table 4-23. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0601020405.

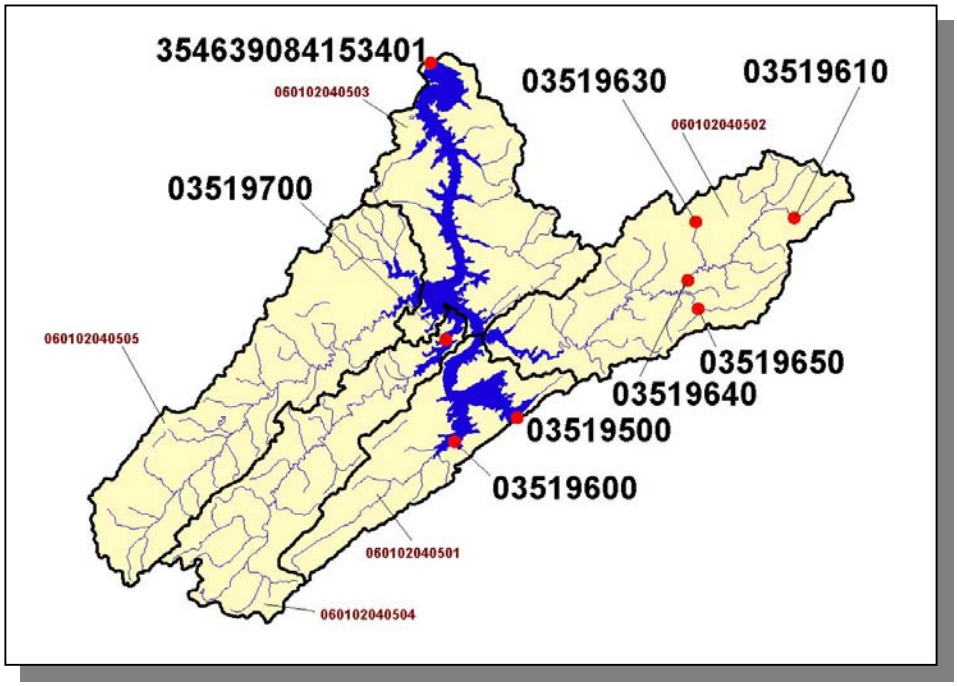

Figure 4-32. Location of Historical Streamflow Data Collection Sites in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information is provided in Appendix IV.*

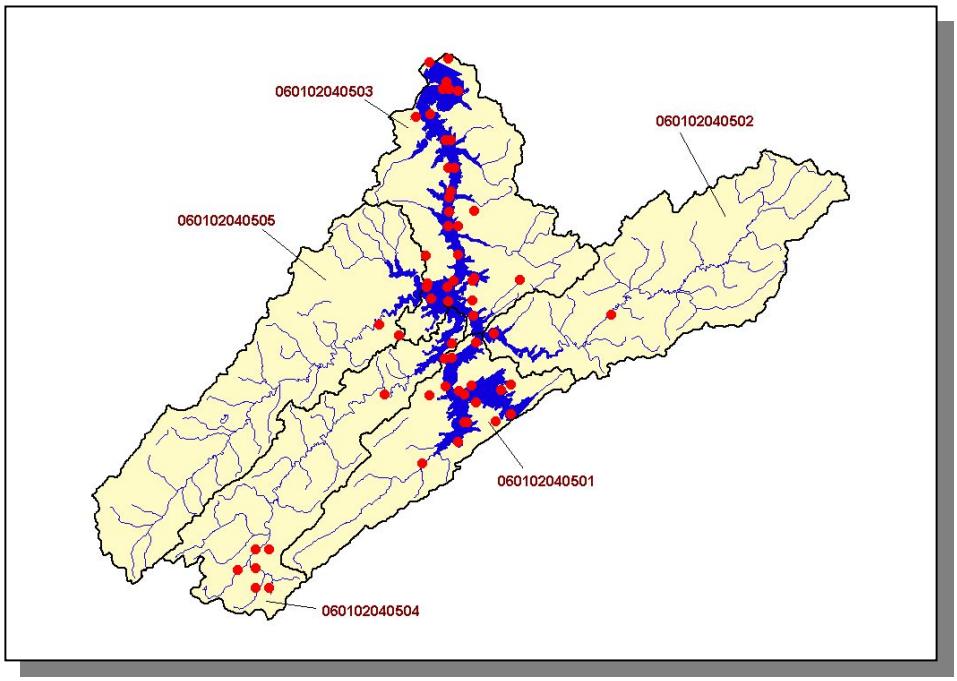

Figure 4-33. Location of STORET Monitoring Sites in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.*

4.2.D.ii. Point Source Contributions.

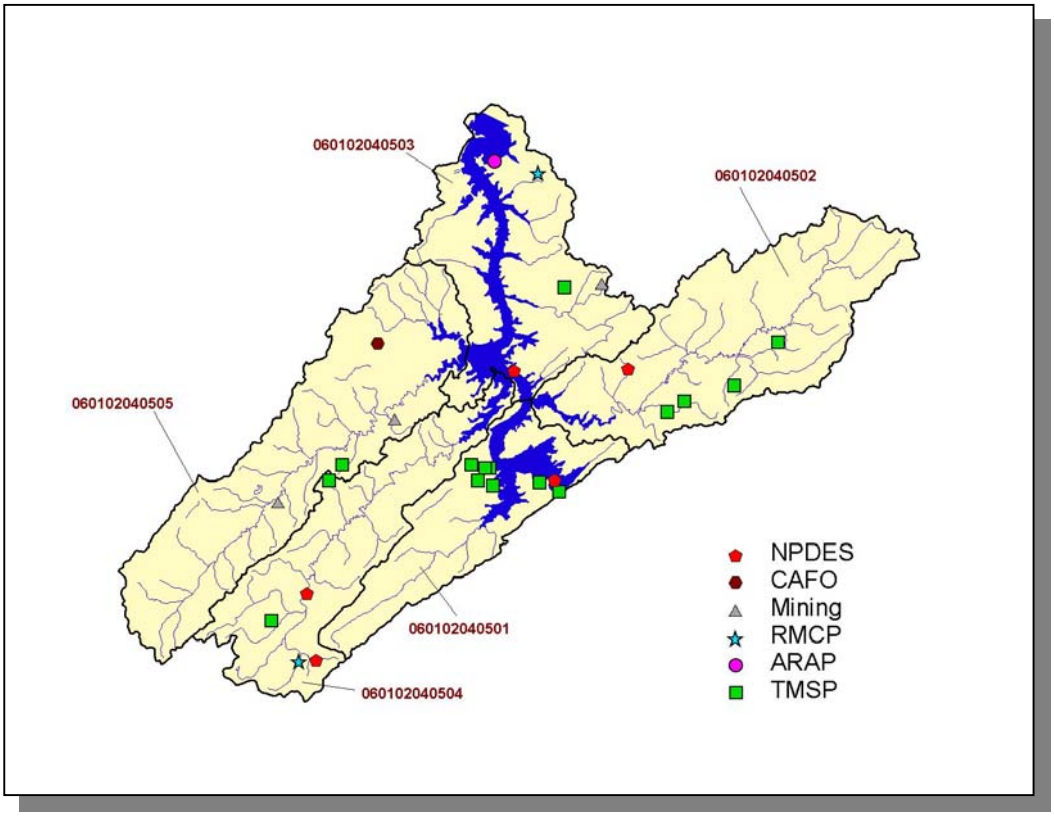

Figure 4-34. Location of Active Point Source Facilities in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

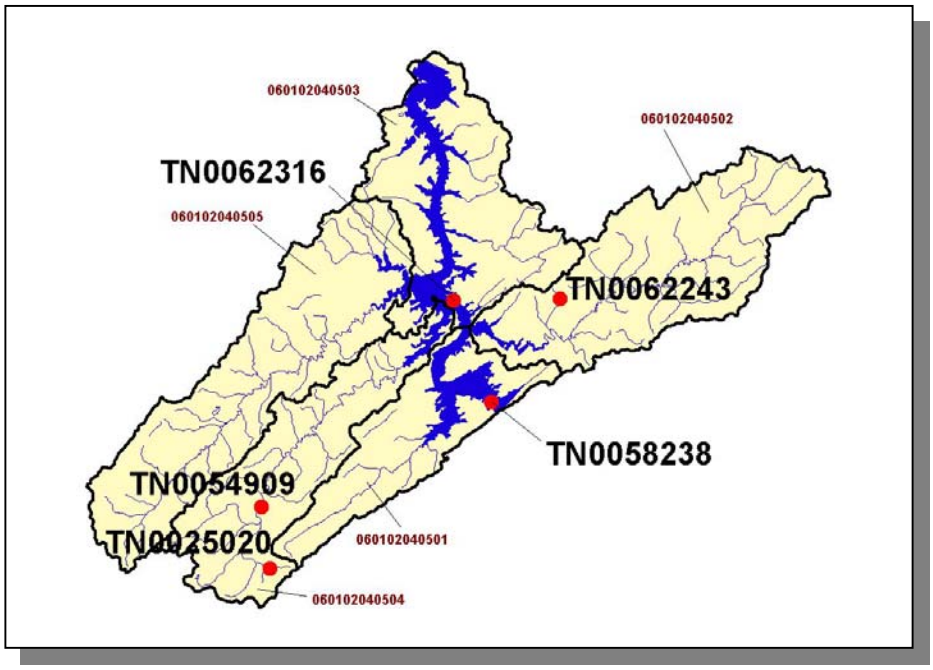

Figure 4-35. Location of NPDES Facilities in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

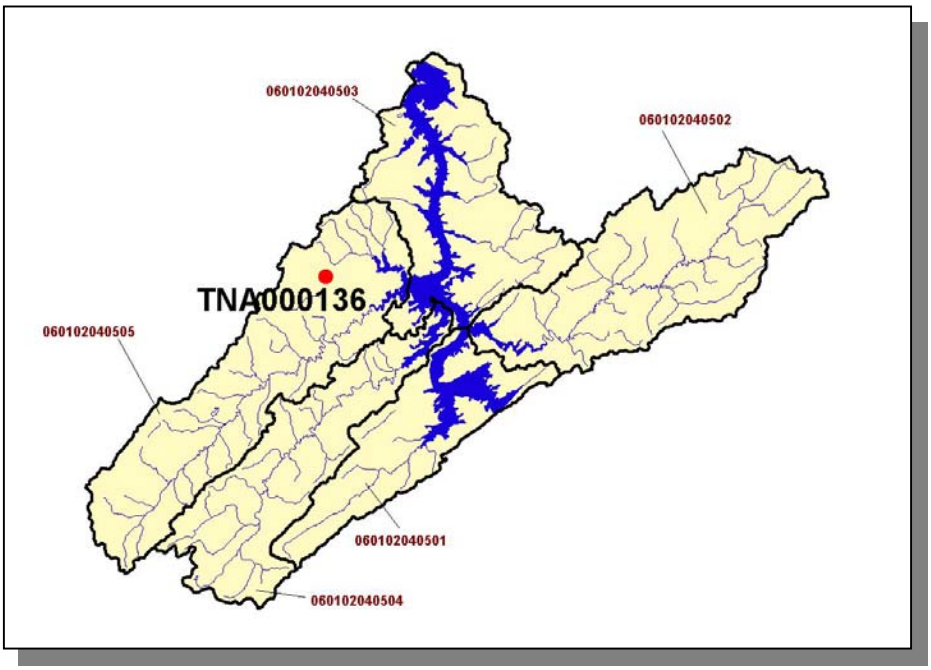

Figure 4-36. Location of Concentrated Animal Feeding Operations (CAFO) in Subwatershed 0601020405. *Subwatershed 0601020405, 0601020405, 0601020405, 0601020405, and 0601020405 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

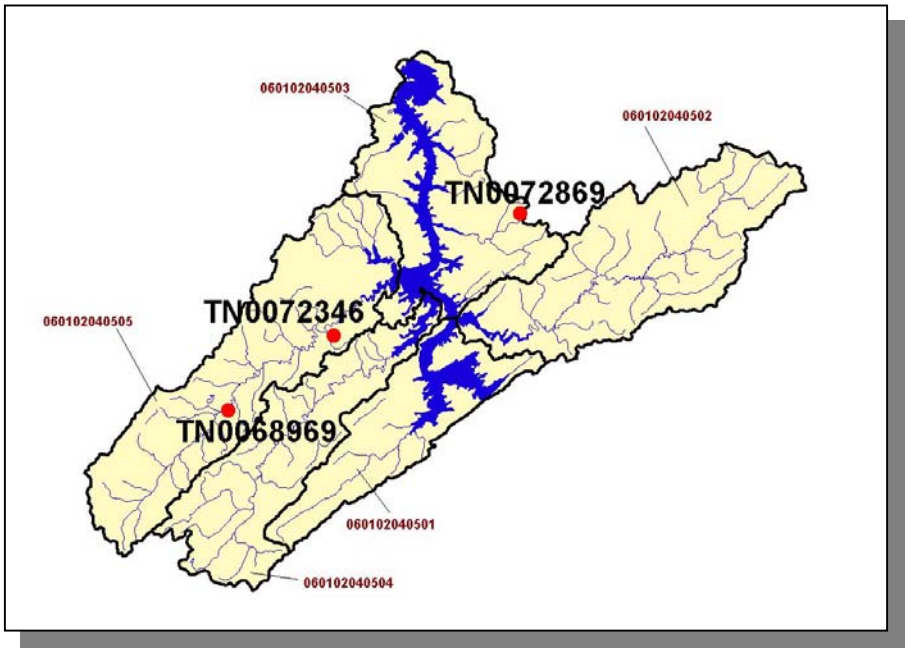

Figure 4-37. Location of Active Mining Facilities in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

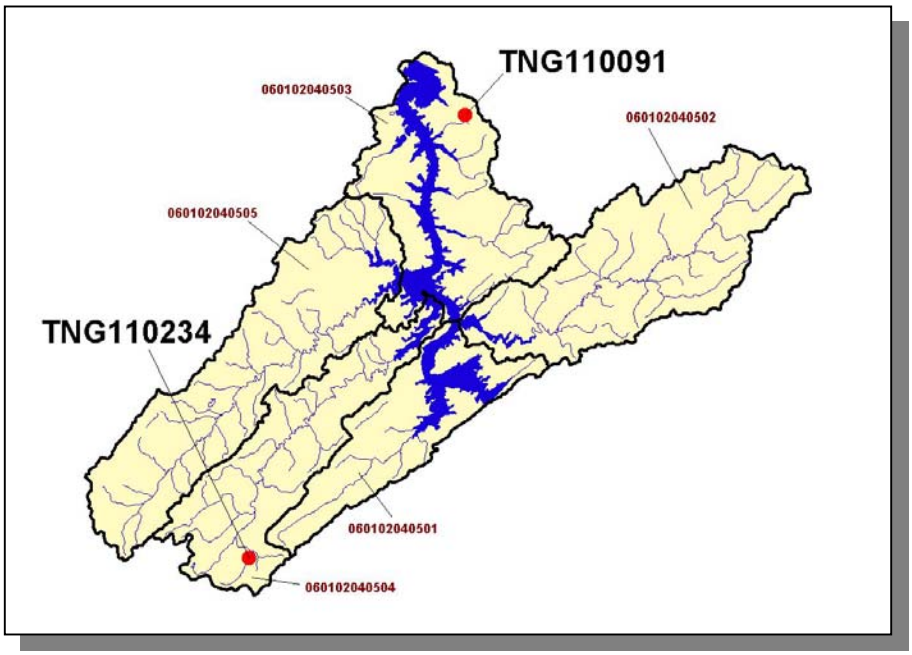

Figure 4-38. Location of Ready Mix Concrete Plants in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

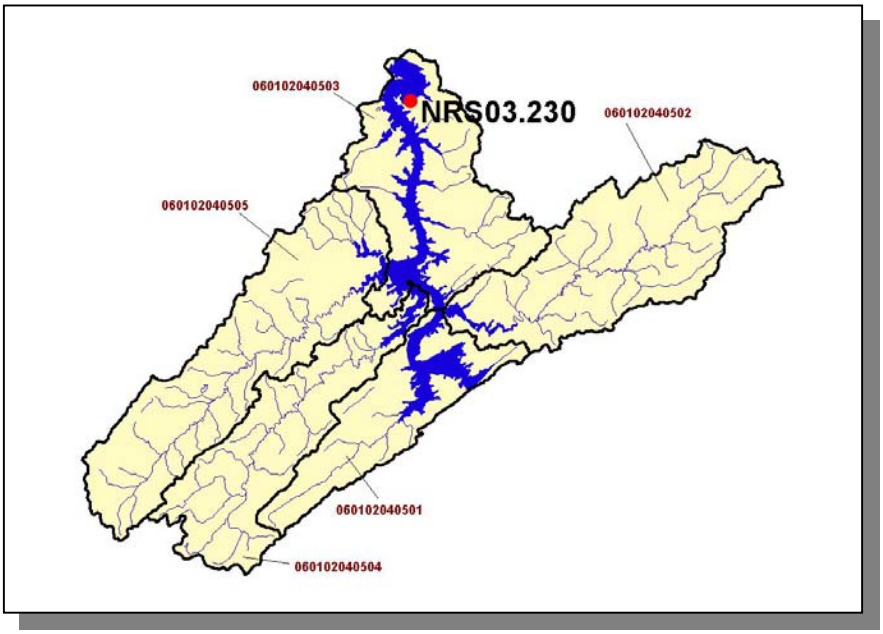

Figure 4-39. Location of ARAP Sites (Individual Permits) in Subwatershed 0601020405. *Subwatershed 0601020405, 0601020405, 0601020405, 0601020405, and 0601020405 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

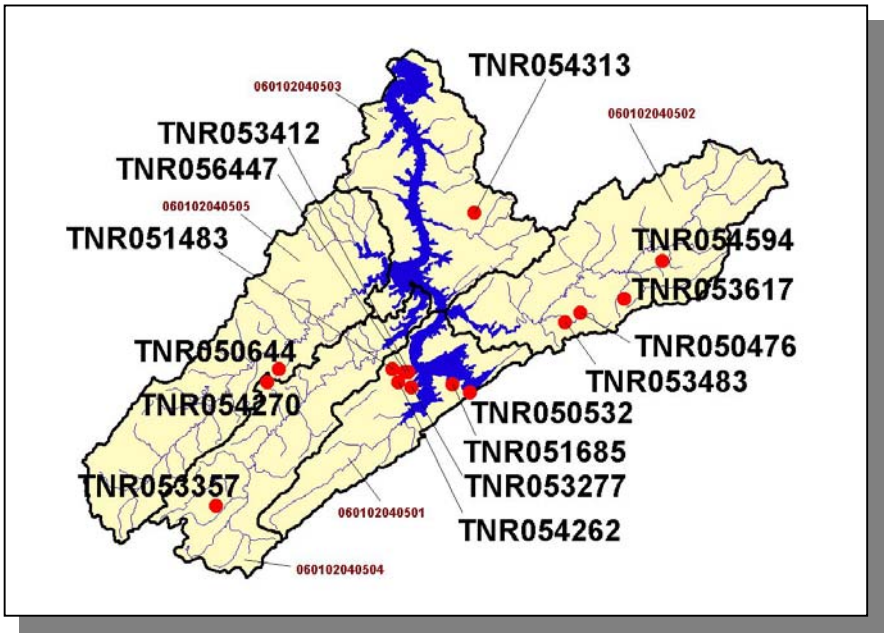

Figure 4-40. Location of TMSP Facilities in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

4.2.D.ii.a. Dischargers to Water Bodies Listed on the 2002 303(d) List

There are four NPDES facilities discharging to water bodies listed on the 2002 303(d) list in Subwatershed 0601020405:

- TN0058238 (Niles ferry Wastewater Treatment Facility) discharges to Little Tennessee River @ RM 18.6
- TN0062316 (Foothills Pointe Owners Association) discharges to Tellico reservoir (Little Tennessee River) @ RM 13.4
- TN0025020 (Madisonville STP) Discharges to Bat Creek @ RM 19.3
- TN0054909 (Hiwasee College STP) discharges to Bat Creek @ RM 16.4

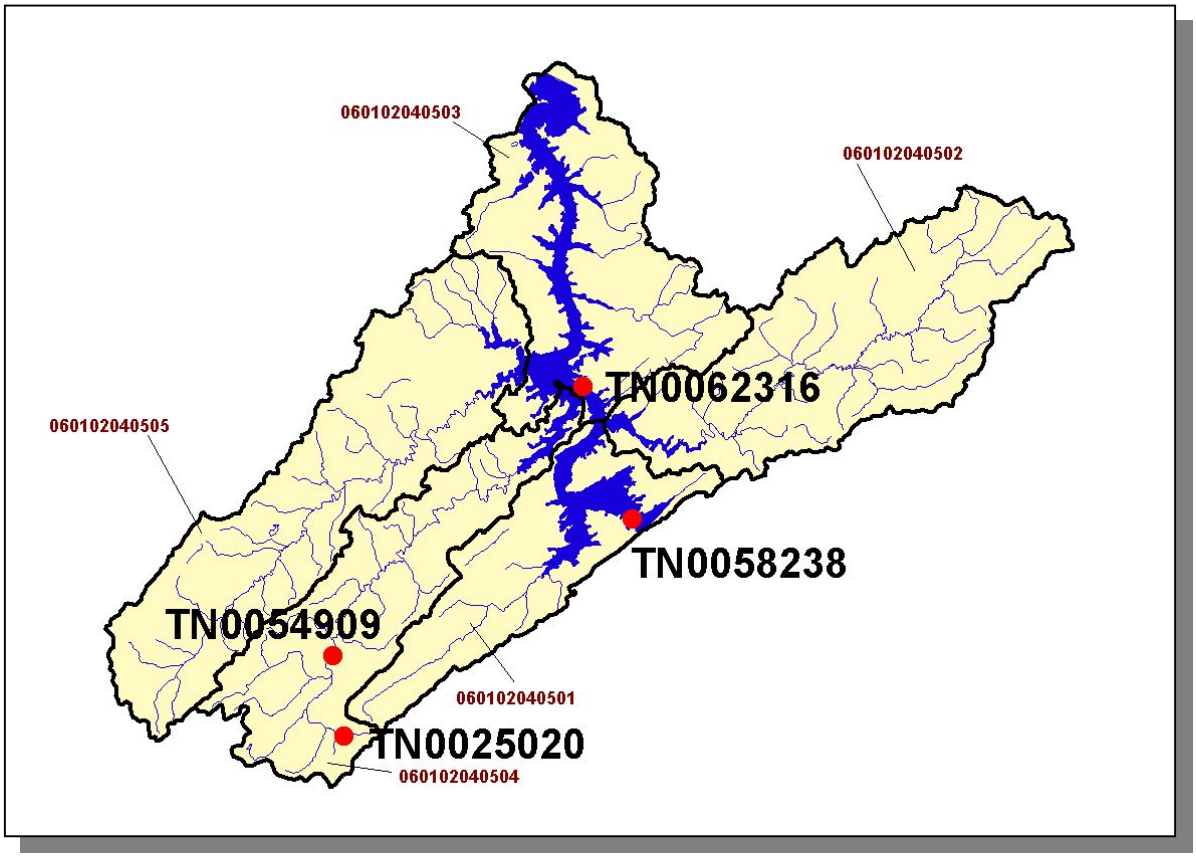

Figure 4-41. Location of NPDES Dischargers to Water Bodies Listed on the 2002 303(d) List in Subwatershed 0601020405. *Subwatershed 060102040501, 060102040502, 060102040503, 060102040504, and 060102040505 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.*

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0058238	1,100	1,200	1,500	970	0.3
TN0062316	990	1,000	1,200	890	
TN0025020	1.20	1.28	1.33	1.13	0.8
TN0054909	1.20	1.28	1.33	1.13	0.06

Table 4-24. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0601020405. *Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.*

PERMIT #	WET	$CBOD_5$	FECAL COLIFORM	*E.COLI*	NH_3	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0058238		X	X	X		X	X	X	X	X
TN0062316		X	X	X		X	X	X	X	X
TN0025020		X	X	X	X	X	X	X	X	X
TN0054909	X	X	X	X	X		X	X	X	

Table 4-25. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0601020405. *WET, Whole Effluent Toxicity; $CBOD_5$, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.*

4.2.D.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Milk Cow	Cattle	Chickens (Layers)	Chickens Sold	Hogs	Sheep
10,068	3,175	24,149	24	<5	214	192

Table 4-26. Summary of Livestock Count Estimates in Subwatershed 0601020405. *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.*

	INVENTORY		REMOVAL RATE	
County	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Blount	165.5	69.9	1.8	9.3
Loudon	62.3	62.3	1.1	3.5
Monroe	301.5	279.1	7.4	21.4
Totals	**529.3**	**411.3**	**10.3**	**34.2**

Table 4-27. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0601020405.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.69
Legumes (Hayland)	0.77
Grass (Hayland)	0.53
Legumes, Grass (Hayland)	0.64
Grass, Forbs, Legumes (Mixed Pasture)	0.44
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	11.58
Soybeans (Row Crops)	12.82
Tobacco (Row Crops)	2.98
Wheat (Close-Grown Cropland)	4.79
Oats (Close-Grown Cropland)	0.32
Non-Agricultural Land Use	0.00
Other Land in Farms	0.14
Farmsteads and Ranch Headquarters	0.22

Table 4-28. Annual Estimated Soil Loss in Subwatershed 0601020405.