

**APPENDIX IV**

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)			
	0101	0103	0201	0202
Bare Rock/Sand/Clay	29	1	89	102
Deciduous Forest	10,722	5,748	30,839	22,748
Developed Open Space	1,165	124	1,299	1,417
Emergent Herbaceous Wetlands	6		7	3
Evergreen Forest	757	36	441	1,326
Grassland/Herbaceous	412	74	297	837
High Intensity Development	118		20	13
Low Intensity Development	993	22	675	360
Medium Intensity Development	297	5	130	69
Mixed Forest	1,232	259	1,377	2,401
Open Water	1,333	5	213	135
Pasture/Hay	2,869	310	2,259	2,645
Row Crops	1,282	152	726	352
Shrub/Scrub	487	572	706	958
Woody Wetlands	147		159	50
<b>Total</b>	<b>21,849</b>	<b>7,308</b>	<b>39,337</b>	<b>33,416</b>

*Table A4-1a.*

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)			
	0203	0204	0501	0502
Bare Rock/Sand/Clay	53	1		1
Deciduous Forest	7,949	16,161	35,502	7,805
Developed Open Space	687	291	884	153
Emergent Herbaceous Wetlands	6			
Evergreen Forest	2,204	228	304	104
Grassland/Herbaceous	474	151	349	154
High Intensity Development	37			2
Low Intensity Development	611	3	158	22
Medium Intensity Development	106		20	18
Mixed Forest	938	644	918	401
Open Water	116	6	58	
Pasture/Hay	829	1,516	1,467	649
Row Crops	794	408	247	491
Shrub/Scrub	435	449	1,100	736
Woody Wetlands	476	13	84	12
<b>Total</b>	<b>15,715</b>	<b>19,871</b>	<b>41,091</b>	<b>10,548</b>

*Table A4-1b.*

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)		
	0503	0601	0602
Bare Rock/Sand/Clay			
Deciduous Forest	21,280	2,790	120
Developed Open Space	138	38	8
Emergent Herbaceous Wetlands			
Evergreen Forest	228		
Grassland/Herbaceous	209	45	
High Intensity Development			
Low Intensity Development	4	18	9
Medium Intensity Development			
Mixed Forest	451	10	1
Open Water	2		
Pasture/Hay	755	27	8
Row Crops	196	19	1
Shrub/Scrub	226	48	17
Woody Wetlands	8		
<b>Total</b>	<b>23,497</b>	<b>2,995</b>	<b>164</b>

**Table A4-1c.**

**Table A4-1a-c. Land Use Distribution in the Tennessee Portion of the Guntersville Lake Watershed by HUC-12.** Data are from 2001 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years.

<b>HYDROLOGIC SOIL GROUPS</b>
<b>GROUP A SOILS</b> have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.
<b>GROUP B SOILS</b> have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.
<b>GROUP C SOILS</b> have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.
<b>GROUP D SOILS</b> have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

*Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS. Soils are grouped into four hydrologic soil groups that describe a soil's permeability and, therefore, its susceptibility to runoff.*

STATION	LOCATION	HUC-12	AREA (SQ MILES)	LOW FLOW (CFS)		
				1Q10	7Q10	3Q20
03571850	Tennessee River	060300010101	22,640	7,850	12,500	9,560

*Table A4-3. United States Geological Survey Continuous Record Gaging Stations in the Tennessee Portion of the Guntersville Lake Watershed. Additional information may be found at: <http://water.usgs.gov/osw/streamstats/>*

AGENCY	STATION	LOCATION	HUC 12
TDEC	3340	Tennessee River @ RM @ RM 422.0	060300010101
TVA	475034	Tennessee River @ RM @ RM 419.0	060300010101
TVA	475524	Tennessee River @ RM @ RM 424.68	060300010101
TVA	475817	Tennessee River @ RM 424.0	060300010101
TVA	476661	Tennessee River @ RM 418.6	060300010101
TVA	477054	Tennessee River @ RM 417.5	060300010101
TVA	477055	Tennessee River @ RM 418.3	060300010101
TVA	477056	Tennessee River @ RM 420.35	060300010101
TVA	477073	Tennessee River @ RM 422.0	060300010101
TDEC	BATTL015.0MI	Battle Creek @ RM 15.0	060300010201
TDEC	FALLS1T0.5MI	UT to Falls Branch	060300010201
TDEC	MARTI000.1MI	Martin Spring @ RM 0.1	060300010201
TDEC	TCAVE000.1MI	Tate Cave Spring @ RM 0.1	060300010201
TDEC	TCAVE000.2MI	Tate Cave Spring @ RM 0.2	060300010201
TDEC	TCAVE000.3MI	Tate Cave Spring @ RM 0.3	060300010201
TDEC	TCAVE000.4MI	Tate Cave Spring @ RM 0.4	060300010201
TDEC	TCAVE000.5MI	Tate Cave Spring @ RM 0.5	060300010201
TDEC	TCAVE000.6MI	Tate Cave Spring @ RM 0.6	060300010201
TDEC	BFGIZ000.6MI	Big Fiery Gizzard @ RM 0.6	060300010202
TDEC	BIGGRUNDY	Big Grundy Lake	060300010202
TDEC	CHILL000.1GY	Clouse Hill Branch @ RM 0.1	060300010202
TDEC	LFGIZ003.4GY	Little Fiery Gizzard @ RM 3.4	060300010202
TDEC	LONEROCK	Lone Rock Lake	060300010202
TVA	475251	Battle Creek @ RM 8.8	060300010203
TVA	475886	Battle Creek @ RM 0.1	060300010203
TDEC	BATTL005.4MI	Battle Creek @ RM 5.4	060300010203
TDEC	GILLI000.1MI	Gilliam Creek @ RM 0.1	060300010203
EPA National Aquatic Resource Survey	OWW04440-0118	Straight Cove	060300010204
TDEC	SWEDE1T0.1MI	UT to Sweden Creek	060300010204
TDEC	BARNE002.4FR	Lost Creek	060300010501
TDEC	DEPOTCRIS01	Depot Branch @ RM 0.84	060300010501
TDEC	DEPOTCRIS02	Depot Branch @ RM 0.99	060300010501
TDEC	DEPOTCRIS03	Depot Branch @ RM 1.1	060300010501
TDEC	ECO68C15	Crow Creek	060300010501
TDEC	ECO68C20	Crow Creek	060300010501
TDEC	TMILE1T0.2FR	UT to Two Mile Branch	060300010501
TDEC	CROOK000.2MY	Crooked Creek @ RM 0.2	060300010503

**Table A4-4. STORET Water Quality Monitoring Stations in the Guntersville Lake Watershed.** TDECWPC, Tennessee Department of Environment and Conservation Division of Water Pollution Control; UT, Unnamed Tributary.

PERMIT NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-12
NRS05.102	Grundy	Stream Relocation	UT to Cave Cove Branch	060300010201
NR0601.011	Grundy	Bridges and Approaches	Little Fiery Gizzard Creek	060300010202
NRS04.401	Grundy	Gravity Sewer Line Additions	Little Fiery Gizzard Creek	060300010202

*Table 4-5. ARAPs (Aquatic Resource Alteration Permit) issued June 2002 through June 2007 in the Tennessee Portion of the Guntersville Lake Watershed. UT, Unnamed Tributary.*

PERMIT NUMBER	PERMITTEE	COUNTY	LIVESTOCK	WATERBODY	HUC-12
TNA000086	Pace's Poultry	Marion	Poultry	Battle Creek	060300010501

*Table 4-6. CAFO (Concentrated Animal Feed Operation) Permittees in the Tennessee Portion of the Guntersville Lake Watershed.*

PERMIT NUMBER	COUNTY	PERMITTEE: DESCRIPTION	AREA	WATERBODY	HUC-12
TNR111152	Marion	Jasper TSC, LLC: Retail and Parking Area Construction	5.70	Kimball Cove Branch	060300010203
TNR180503	Franklin	Parson's Green, LLC: Parson's Green Subdivision	4.53	Depot Branch	060300010501

*Table 4-7. CGPs (Construction General Permit) issued June 2002 through June 2007 in the Tennessee Portion of the Guntersville Lake Watershed. Area, acres of property associated with construction activity.*

PERMIT NUMBER	PERMITTEE	SIC	SIC NAME	WATERBODY	HUC-12
TN0061697	Vulcan Construction Materials Richard City Quarry	1422	Crushed and Broken Limestone	UT to Poplar Spring Branch	060300010101
TN0071340	Bradley Stone And Sand, Inc. South Pittsburg Pit #4	1442	Construction Sand & Gravel	Rexton Hollow	060300010101
TN0063291	Bradley Stone And Sand, Inc. South Pittsburg Pit #1 & #2	1442	Construction Sand & Gravel	Gilliam Cove & Old Shop Hollow	060300010103
TN0063304	Bradley Stone And Sand, Inc. South Pittsburg Processing Plant	1442	Construction Sand & Gravel	Clayton Camp Branch	060300010103
TN0065897	Sequatchie Concrete Service Sand Switch Mine	1442	Construction Sand & Gravel	Wildcat Branch	060300010201
TN0066281	Bradley Stone And Sand, Inc. Jasper Sand	1442	Construction Sand & Gravel	Laurel Branch & Little Gizzard Creek	060300010202
TN0071161	Bradley Stone And Sand, Inc. South Pittsburg Pit #3	1442	Construction Sand & Gravel	Gilliam Cove	060300010204
TN0063151	Franklin Industrial Minerals Anderson Plant	1422	Crushed and Broken Limestone	Crow Creek	060300010502

**Table 4-8. Permitted Mining Facilities in the Tennessee Portion of the Guntersville Lake Watershed.** SIC, Standard Industrial Code; UT, Unnamed Tributary

PERMIT NUMBER	PERMITTEE	SIC	SIC NAME	MADI	WATERBODY	HUC-12
TN0024295	South Pittsburg STP	4952	Sewerage Systems	Major	Tennessee River @ RM 417.3	060300010101
TN0027472	TVA Nickajack Hydro Plant	4911	Electric Services	Minor	Tennessee River	060300010101
TN0054585	Jasper STP	4952	Sewerage Systems	Minor	Tennessee River @ RM 421.5	060300010101
TN0059331	Grundy County Tracy Mfg. Company	4952	Sewerage Systems	Minor	Dry Ditch @ Mile 0.08 to UT @ Mile 0.04 to Little Fiery Gizzard Creek @ RM 2.6	060300010202

**Table 4-9. Municipal and Industrial Permittees in the Tennessee Portion of the Guntersville Lake Watershed.** SIC, Standard Industrial Code; MADI, Major Discharge Indicator; UT, Unnamed Tributary.

PERMIT NUMBER	PERMITTEE	WATERBODY	HUC-12
TNG110191	Sequatchie Concrete Services South Pittsburg	UT to Tennessee River	060300010101
TNG110102	John W. Greeter Building Center, Inc.	Gilliam Creek	060300010201

**Table 4-10. RMCP (Ready Mix Concrete Plant) Permittees in the Tennessee Portion of the Guntersville Lake Watershed.** UT, Unnamed Tributary.

PERMIT NUMBER	PERMITTEE	SECTOR	RECEIVING STREAM	AREA	HUC-12
TNR050180	Tennessee Galvanizing, Inc.	AA	UT to Glover Branch	1.10	060300010101
TNR051416	VARIFORM, Inc.	Y	Tennessee River to Guntersville Lake	27.40	060300010101
TNR051676	Lodge Manufacturing Company	F	Unnamed Storm Ditch to Tennessee River	13.80	060300010101
TNR053295	Shaw Industries, Inc. South Pittsburgh	V	Tennessee River	13.70	060300010101
TNR054089	Valmont Jasper, Industries	AA	Unnamed Ditch to Glover Branch	20.00	060300010101
TNR054424	Taylor's Machine & Welding Co	AB	Long Hollow Branch	1.45	060300010101
TNR054522	ASAP, Inc	AB	Sinkhole to Ground Water	2.50	060300010101
TNR055070	Nickajack Metal Reclamation Facility	N	Guntersville Lake	4.62	060300010101
TNR056523	Tinsley Asphalt, LLC	D	WWC to UT to Poplar Springs Branch	1.00	060300010101
TNR056823	C&D Recycling	N	Poplar Spring Branch	1.00	060300010101
TNR050130	Wiggins Auto Parts	M	WWC to Gizzard Creek to Grundy Lake	6.00	060300010202
TNR050610	Davis Auto Sales & Salvage	M	Fiery Creek to Battle Creek	2.50	060300010202
TNR056442	Monteagle Truck & Car Parts	M	Ditch to Gizzard Creek to Grundy Lake	3.60	060300010202
TNR053909	Cardin Forest Products, LLC	A	Gilliam Branch to Battle Creek	6.00	060300010203
TNR055068	Mohawk/Aladdin South Pittsburg Plant	V	Tennessee River	8.32	060300010203
TNR056431	Cardin Forest Products, LLC	A	Battle Creek	12.00	060300010203
TNR053368	TKA Plastics, Inc.	Y	Tims Ford Reservoir	10.00	060300010501

**Table 4-11. TMSPs (Tennessee Multi Sector Permit) issued in the Tennessee Portion of the Guntersville Lake Watershed.** Area, acres of property associated with Industrial Activity; UT Unnamed Tributary, WWC, Wet Weather Conveyance. See Table 4-13 for Sector Details.

PERMIT NUMBER	PERMITTEE	WATERBODY	HUC-12
TN0073521	Big Fiery Gizzard WTP	Big Fiery Gizzard Creek	060300010202

**Table 4-12. WTP (Water Treatment Plant) Permittees in the Tennessee Portion of the Guntersville Lake Watershed.**

<b>SECTOR</b>	<b>TMSP SECTOR NAME</b>
A	Timber Products Facilities
AA	Facilities That Manufacture Metal Products including Jewelry, Silverware and Plated Ware
AB	Facilities That Manufacture Transportation Equipment, Industrial or Commercial Machinery
AC	Facilities That Manufacture Electronic and Electrical Equipment and Components, Photographic and Optical Goods
AD	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)
AE	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Not Required)
B	Paper and Allied Products Manufacturing Facilities
C	Chemical and Allied Products Manufacturing Facilities
D	Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities
E	Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities
F	Primary Metals Facilities
G	Metal Mines (Ore Mining and Dressing) (RESERVED)
H	Inactive Coal Mines and Inactive Coal Mining-Related Facilities
I	Oil or Gas Extraction Facilities
J	Construction Sand and Gravel Mining and Processing and Dimension Stone Mining and Quarrying Facilities
K	Hazardous Waste Treatment Storage or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste and Recycling Facilities
O	Steam Electric Power Generating Facilities
P	Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and Terminals, the United States Postal Service, or Railroad Transportation Facilities
Q	Vehicle Maintenance Areas and Equipment Cleaning Areas of Water Transportation Facilities
R	Ship or Boat Building and Repair Yards
S	Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing Operations located at Air Transportation Facilities
T	Wastewater Treatment Works
U	Food and Kindred Products Facilities
V	Textile Mills, Apparel and other Fabric Product Manufacturing Facilities
W	Furniture and Fixture Manufacturing Facilities
X	Printing and Platemaking Facilities
Y	Rubber and Miscellaneous Plastic Product Manufacturing Facilities
Z	Leather Tanning and Finishing Facilities

**Table A4-13. TMSP Sectors and Descriptions.**