

**APPENDIX IV**

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0101	0102	0403	0404*	0405
Bare Rock/Sand/Clay			57		2
Deciduous Forest	15,046	2,920	15,115		5,823
Developed Open Space	2,274	1,608	1,631		647
Emergent Herbaceous Wetlands	4	2	3		
Evergreen Forest	965	276	293		60
Grassland/Herbaceous	1,390	28	1,062		395
High Intensity Development	8	59	46		
Low Intensity Development	105	226	32		27
Medium Intensity Development	34	107	36		6
Mixed Forest	192	46	232		47
Open Water	62	97	23		
Pasture/Hay	12,622	7,306	13,828		3,884
Row Crops	1,460	4,027	2,025		1,512
Shrub/Scrub	28	6	108		6
<b>Total</b>	<b>34,190</b>	<b>16,707</b>	<b>34,490</b>		<b>12,410</b>

*Table A4-1a.*

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0406	0407*	0408	0501	0502
Bare Rock/Sand/Clay			15	49	9
Deciduous Forest	424		15,501	17,704	20,325
Developed Open Space	110		1,922	1,510	2,240
Emergent Herbaceous Wetlands					2
Evergreen Forest			72	161	86
Grassland/Herbaceous	10		750	892	1,820
High Intensity Development			47	26	75
Low Intensity Development	8		131	80	187
Medium Intensity Development			50	55	134
Mixed Forest			38	155	66
Open Water	2		5	19	7
Pasture/Hay	991		9,739	10,120	9,766
Row Crops	638		3,083	1,642	2,947
Shrub/Scrub			32	17	12
<b>Total</b>	<b>2,184</b>		<b>31,386</b>	<b>32,430</b>	<b>37,676</b>

*Table A4-1b.*

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)			
	0801	0802	0901	0902
Bare Rock/Sand/Clay	27		6	
Deciduous Forest	8,728	6,309	10,767	4,782
Developed Open Space	817	539	1,115	706
Emergent Herbaceous Wetlands			1	3
Evergreen Forest	24	65	167	268
Grassland/Herbaceous	510	781	1,096	329
High Intensity Development	21	9	12	
Low Intensity Development	39	9	50	8
Medium Intensity Development	47	12	18	2
Mixed Forest	15	40	54	31
Open Water	9	4	18	60
Pasture/Hay	5,154	2,567	7,487	5,352
Row Crops	656	153	719	1,519
Shrub/Scrub	24	10	13	23
<b>Total</b>	<b>16,070</b>	<b>10,499</b>	<b>21,522</b>	<b>13,083</b>

**Table A4-1c.**

**Table A4-1a-c. Land Use Distribution in Barren River Watershed by HUC-12.** Data are from 1992 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. \*, No data available.

<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	HUC 10	STREAM	AREA (MI <sup>2</sup> )	DAILY FLOW			3Q2	1Q10	3Q10	7Q10	3Q20
				AVG	MAX	MIN					
3313600	0511000201	West Fork Drakes Creek	0.95	na	na	na	0.1	na	0.1	0.1	0.1

*Table A4-3. Stream Flow Data from USGS Gaging Stations in the Barren River Watershed. Data are in cubic feet per second (CFS). Data were obtained from the USGS web application StreamStats at <http://water.usgs.gov/osw/streamstats/>. (na, data not available)*

AGENCY	STATION	LOCATION	HUC-12
TDECWPC	CANEY001.3SR	Caney Fork Creek @ RM 1.3	051100020101
TDECWPC	CFORK000.4SR	Caney Fork Creek @ RM 0.4	051100020101
TDECWPC	CFORK002.0SR	Caney Fork Creek @ RM 2.0	051100020101
TDECWPC	CFORK004.4SR	Caney Fork Creek @ RM 4.4	051100020101
TDECWPC	DRY000.2SR	Dry Fork Creek @ RM 0.2	051100020101
TDECWPC	WFDRA063.7SR	West Fork Drakes Creek @ RM 63.7	051100020101
TDECWPC	WFDRA064.4SR	West Fork Drakes Ck @ RM 64.4	051100020101
TDECWPC	WFDRA066.7SR	West Fork Drakes Creek @ RM 66.7	051100020101
TDECWPC	WFDRA069.9SR	West Fork Drakes Creek @ RM 69.9	051100020101
TDECWPC	WFDRA2T1.5SR	UT to West Fork Drakes Creek @ RM 1.5	051100020101
TDECWPC	WHITS000.3SR	Whitson Branch Creek @ RM 0.3	051100020101
TDECWPC	WLAKE001.5SR	Willow Lake Creek @ RM 1.5	051100020101
TDECWPC	1015	UT to West Fork Drakes Creek @ RM 0.35	051100020102
USEPA	470352A	Portland STP at Wolf River	051100020102
USEPA	470352B	Portland STP at Wolf River	051100020102
USEPA	470352C	Portland STP at Wolf River	051100020102
TDECWPC	LWFKCR02	Little West Fork Creek @RM 9.4	051100020102
TDECWPC	SFORK011.0SR	Sulphur Fork Creek @ RM 11.0	051100020102
TDECWPC	WEBB001.4SR	Webb Branch @ RM 1.4	051100020102
TDECWPC	WFDRA060.1SR	West Fork Drakes Creek @ 60.1	051100020102
TDECWPC	HURRI000.2CY	Hurricane Creek @ RM 0.2	051100020403
TDECWPC	LINE000.2CY	Line Creek @ RM 0.2	051100020403
TDECWPC	LTACE000.1CY	Little Trace Creek @ RM 0.1	051100020403
TDECWPC	LTRACE005.0CY	Little Trace Creek @ RM 5.0	051100020403
TDECWPC	TRACE002.3CY	Trace Creek @ RM 2.3	051100020403
TDECWPC	TRACE02.65CY	Trace Creek @ RM 2.65	051100020403
TDECWPC	LPCAM000.1MA	Little Puncheon Camp Creek @ RM 0.1	051100020405
TDECWPC	PCAMP005.1MA	Puncheon Camp Creek @ RM 5.1	051100020405
TDECWPC	CLIFT000.1MA	Clifty Creek @ RM 0.1	051100020408
TDECWPC	LONG015.3MA	Long Creek @ RM 15.3	051100020408
TDECWPC	WFLON000.1MA	West Fork Long Creek @ RM 0.1	051100020408
TDECWPC	WFLON004.0MA	West Fork Long Creek @ RM 4.0	051100020408
TDECWPC	LHUNG000.8MA	Long Hungry Creek @ RM 0.8	051100020501
TDECWPC	LSLIC001.5MA	Little Salt Lick Creek @ RM 1.5	051100020501
TDECWPC	SALTL015.6MA	Saltlick Creek @ RM 15.6	051100020501
TDECWPC	SLICK007.5MA	Salt Lick Creek @ RM 7.5	051100020501
TDECWPC	SLICK014.6MA	Salt Lick Creek @ RM 14.6	051100020501
TDECWPC	SLICK016.0MA	Salt Lick Creek @ RM 16.0	051100020501
TDECWPC	SLICK016.1MA	Salt Lick Creek @ RM 16.1	051100020501
TDECWPC	SLICK14.6MA	Salt Lick Creek @ RM 14.6	051100020501
TDECWPC	LONG003.3MA	Long Creek @ RM 3.3	051100020502

**Table A4-4a.**

AGENCY	STATION	LOCATION	HUC-12
TDECWPC	TOWN001.1MA	Town Creek @ RM 1.1	051100020502
TDECWPC	TOWN001.3MA	Town Creek @ RM 1.3	051100020502
TDECWPC	WOAK003.3MA	White Oak Creek @ RM 3.3	051100020502
TDECWPC	WOAK011.5MA	White Oak Creek @ RM 11.5	051100020502
TDECWPC	WOAK011.6MA	White Oak Creek @ RM 11.6	051100020502
TDECWPC	WOAK011.8MA	White Oak Creek @ RM 11.8	051100020502
TDECWPC	WOAK012.0MA	White Oak Creek @ RM 12.0	051100020502
TDECWPC	BTRAM005.4SR	Big Trammell Creek @ RM 5.4	051100020801
TDECWPC	DAVIS000.8SR	Davis Branch @ RM 0.8	051100020801
TDECWPC	TOOLE000.9MA	Tooley Branch @ RM 0.9	051100020801
TDECWPC	TRAMM006.5MA	Trammel Creek @ RM 6.5	051100020801
TDECWPC	GARRE003.5SR	Garretts Creek @ RM 3.5	051100020802
TDECWPC	LTRAM005.9SR	Little Trammel Creek @ RM 5.9	051100020802
TDECWPC	LTRAM008.5SR	Little Trammel Creek @ RM 8.5	051100020802
TDECWPC	LTRAM008.7SR	Little Trammel Creek @ RM 8.7	051100020802
TDECWPC	DUTCH000.2SR	Dutch Creek @ RM 0.2	051100020901
TDECWPC	DUTCH002.7	Dutch Creek @ RM 2.7	051100020901
TDECWPC	DUTCH002.7SR	Dutch Creek @ RM 2.7	051100020901
TDECWPC	MGDRA022.0SR	Middle Fork Drakes Creek @ RM 22.0	051100020901
TDECWPC	MGDRA024.5SR	Middle Fork Drakes Creek @ RM 24.5	051100020901
TDECWPC	MGDRA026.6SR	Middle Fork Drakes Creek @ RM 26.6	051100020901
TDECWPC	MGDRA1T0.2SR	Middle Fork Drakes Creek @ RM 0.2	051100020901
TDECWPC	MGDRA1T0.4SR	UT To Middle Fork Drakes Creek @ RM 0.4	051100020901
TDECWPC	MGDRA057.8SR	West Fork Drakes Creek @ RM 57.8	051100020901
TDECWPC	SFORK008.9SR	Sulphur Fork Creek @ RM 8.9	051100020902
TDECWPC	SULPH010.8SR	Sulphur Fork @ RM 10.8	051100020902
TDECWPC	SULPHURFK014.1	Sulphur Creek @ RM 14.1	051100020902
21KY	GRN020	Gaspar River Near Hadley	Kentucky
21KY	GRN021	Drakes Creek Near Boyce	Kentucky
21KY	GRN022	Trammel Creek Near Allen Springs	Kentucky
11NPSWRD	MACA_NURE_06	Kentucky	Kentucky
11NPSWRD	MACA_NURE_14	KYWA504R	Kentucky
11NPSWRD	MACA_NURE_25	Kentucky	Kentucky
11NPSWRD	MACA_NURE_26	Kentucky	Kentucky
11NPSWRD	MACA_NURE_27	Kentucky	Kentucky
11NPSWRD	MACA_NURE_31	Kentucky	Kentucky
21KY	PRI072	Barren River Near Woodbury	Kentucky
21KY	PRI073	Barren River Near Holland, Kentucky	Kentucky
21KY	PRI074	Drakes Creek Near Bowling Green	Kentucky

**Table A4-4b.**

**Table A4-4a-b. STORET Water Quality Monitoring Stations in the Barren River Watershed.** NPSWRD, National Park Service Water Resources Division; TDECWPC, Tennessee Department of Environment and Conservation Division of Water Pollution Control; USEPA, United States Environmental Protection Agency. UT, Unnamed Tributary.

FACILITY NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	HUC-12
TN0058670	Highland Academy	4952	Sewerage System	Minor	UT @ RM 2.7 to West Fork Drakes Creek @ RM 48.1	051100020101
TN0029254	Highland Manor Nursing Home	4952	Sewerage System	Minor	UT @ RM 3.2 to West Fork Drakes Creek @ RM 50.0	051100020101
TN0024058	Hermitage Springs ES	4952	Sewerage System	Minor	Trace Creek @ RM 2.6	051100020403
TN0064939	Westside School STP	4952	Sewerage System	Minor	WWC to West Fork Long Creek @ RM 6.9	051100020408
TN0058025	Tri-County Vocational School	4952	Sewerage System	Minor	UT @ RM 1.8 to UT @ RM 0.7 to Salt Lick Creek @ RM 12.9	051100020501
TN0067547	Red Boiling Springs STP	4952	Sewerage System	Minor	Salt Lick Creek @ RM 15.7	051100020501
TN0020877	Lafayette STP	4952	Sewerage System	Major	Town Creek @ RM 1.3	051100020502
TN0055026	Westmoreland STP	4952	Sewerage System	Minor	Little Trammel Creek @ RM 9.9	051100020802

**Table A4-5. NPDES Permittees in the Barren River Watershed.** SIC, Standard Industrial Classification; MADI, Major Discharge Indicator; UT, Unnamed Tributary; WWC, Wet Weather Conveyance.

FACILITY NUMBER	PERMITEE	WATERBODY	HUC-12
TN0040614	Portland WTP	Donaho Branch	051100020102
TN0078280	Lafayette WTP	Spring Creek	051100020408
TN0066991	Red Boiling Springs WTP	Salt Lick Creek @ RM 18.8	051100020501

**Table A4-6. Water Treatment Plants in the Barren River Watershed.**

FACILITY NUMBER	PERMITEE	COUNTY	LIVESTOCK	WATERBODY	HUC-12
TNA000117	Allen and Kathy Freeman	Sumner	Poultry	West Fork Drakes Creek	051100020102
TNA000035	Gene Hickman	Clay	Poultry	Little Trace Creek	051100020403
TNA000052	Larry K. Brown	Clay	Poultry	Line Creek	051100020403
TNA000071	Davis poultry	Clay	Poultry	Line Creek	051100020403
TNA000107	G and V Farm	Clay	Poultry	Trace Creek	051100020403
TNA000059	Jim Metzgar Broiler Barn	Clay	Poultry	Wilson Branch	051100020403
TNA000036	Jerry Walker	Macon	Poultry	Carter Branch	051100020408
TNA000037	Opal Walker	Macon	Poultry	Carter Branch	051100020408
TNA000011	D and J Farms	Macon	Poultry	White Oak Creek	051100020502
TNA000055	Patsy P. Carr	Sumner	Poultry	Drakes Creek	051100020901

**Table A4-7. CAFO Sites in the Tennessee Portion of the Barren River Watershed.**

FACILITY NUMBER	FACILITY NAME	WATERBODY	HUC-12
TNG110104	Garrott Brothers	Metro Storm Sewer to Town Creek	051100020502

*Table A4-8. Ready Mix Concrete Plants in the Barren River Watershed.*

LOG NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-12
NRS02.362	Sumner	Isolated Wetland	Isolated Wetland	051100020102
NRS03.084	Sumner	Wetland Mitigation	Isolated Wetland	051100020102
NRS01.322	Sumner	Fill Isolated Wetland	Isolated Wetland	051100020102
NRS02.379	Macon	Utility Crossing	Salt Lick Creek	051100020501
NRS03.245	Macon	Bridge and Approach	Salt Lick Creek	051100020501
NRS02.378	Macon	Floodwater Retaining Structures (3)	UT to Long Hungry Creek	051100020501
NRS03.245B	Macon	Bridge and Approach	Salt Lick Creek	051100020501
NRS03.245C	Macon	Bridge and Approach	Salt Lick Creek	051100020501

*Table A4-9. Individual ARAP Permits Issued January 2000 Through June 2004 in the Barren River Watershed. UT, Unnamed Tributary.*

FACILITY NUMBER	FACILITY NAME	SECTOR	RECEIVING STREAM	AREA*	HUC-12
TNR050805	Portland Pallet Company	A	West Fork Drakes Creek	4.21	051100020101
TNR051340	State Line Auto Parts	M	UT to Willow Creek	10.25	051100020101
TNR051803	Unipres USA	AA	Grace Creek	50	051100020102
TNR051272	GF Hardwoods	A, E	Line Creek	65	051100020403
TNR051307	Upper Cumberland Solid Waste Landfill	L, P	UT to Little Trace Creek	78	051100020403
TNR056477	Qualls Auto Salvage	M	UT to Puncheon Creek	10	051100020405
TNR052089	Fleetwood Homes	A	Goose Creek	43.25	051100020408
TNR051381	Rich Lumber Company	A	UT to Salt Lick Creek	3	051100020501
TNR050419	Indiana Hardwoods	A	UT to White Oak Creek to Town Creek	19	051100020502
TNR054302	F and M Furniture Manufacturing	W	Metro Storm Sewer to White Oak Creek	1.4	051100020502
TNR053577	Hardwood Mulch	AD	Trammel Creek	4	051100020801
TNR050554	Fleetwood Homes	A, P	Trammel Creek	38.5	051100020801

**Table A4-10. Active Permitted TMSF Facilities in the Barren River Watershed.** Area, acres of property associated with industrial activity; UT, Unnamed Tributary. Sector details may be found in Table A4-11.

<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 A4-11. TMSP Sectors and Descriptions.**