

APPENDIX IV

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0106	0201	0202	0203	0204
Bare Rock/Sand/Clay	2	3	22	1	2
Deciduous Forest	373	755	2,693	148	1,428
Developed Open Space	176	4	505	956	236
Emergent Herbaceous Wetlands	239	576	1,208	1	492
Evergreen Forest		1	3	1	1
Grassland/Herbaceous	1				2
High Intensity Development				4	1
Low Intensity Development	4	2	14	60	99
Medium Intensity Development		1		3	5
Mixed Forest					
Open Water	2,943	2,305	5,953	11	8,741
Pasture/Hay					
Row Crops	2,472	3,970	14,257	12,993	8,483
Shrub/Scrub		487	120		119
Woody Wetlands	1,115	1,799	5,443	204	2,850
Total	7,325	9,903	30,218	14,382	24,459

Table A4-1a.

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0301	0302	0303	0304	0305
Bare Rock/Sand/Clay	6	4	28	40	3
Deciduous Forest	1,319	10,436	256	1,409	1,869
Developed Open Space	1,276	1,115			
Emergent Herbaceous Wetlands	126	23			
Evergreen Forest	4	23	22	10	75
Grassland/Herbaceous	2	232			
High Intensity Development	30		1	1	6
Low Intensity Development	183	79	1	1	1
Medium Intensity Development	49	4			
Mixed Forest			115	380	525
Open Water	3,300	1,749	10,442	7,406	1,790
Pasture/Hay		2,608	135	248	545
Row Crops	14,854	15,968	2,980	3,154	27,818
Shrub/Scrub	26	89			
Small Grains			221	70	302
Transitional			171	17	2
Woody Wetlands	2,186	13,561	4,414	7,862	21,554
Total	23,361	45,891	18,786	20,598	54,490

Table A4-1b.

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0401	0402	0403	0404	0405
Bare Rock/Sand/Clay		10	15	202	16
Deciduous Forest	5,606	317	5,388	787	90
Developed Open Space					
Emergent Herbaceous Wetlands				48	
Evergreen Forest	85	14	113	22	
Grassland/Herbaceous					
High Intensity Development	4		1	4,953	1
Low Intensity Development	4			2,249	
Medium Intensity Development					
Mixed Forest	1,864	70	1,346	317	3
Open Water	4,900	4,176	4,232	6,442	4,718
Other Grasses	1	1		1,105	
Pasture/Hay	1,071	162	677	274	227
Quarries/Strip Mines/Gravel Pits				44	
Row Crops	14,319	11,554	5,908	4,632	1,173
Shrub/Scrub					
Small Grains	267	521	141	96	87
Transitional	14		5	137	
Woody Wetlands	4,430	6,736	12,432	5,909	3,245
Total	32,565	23,561	30,258	27,217	9,560

Table A4-1c.

Tables A4-1a-c Land Use Distribution in the Tennessee Portion of the Mississippi River Watershed by HUC-12. Data are from 1992 or 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.

HYDROLOGIC SOIL GROUPS
GROUP A SOILS have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.
GROUP B SOILS 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.
GROUP C SOILS 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.
GROUP D SOILS 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
07032000	Mississippi River	080101000404	932,800.00	95,000.0000	99,000.0000	

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

AGENCY	STATION	LOCATION	HUC_12
TVA	477504	Mississippi River @ RM 898.9	080101000106
TVA	477505	Mississippi River @ RM 900.4	080101000106
TVA	477506	Mississippi River @ RM 901.3	080101000106
USEPA	2191	Mississippi River	080101000202
TDEC	BBANK001.2LA	Blue Bank Bayou	080101000203
TVA	477507		080101000301
TDEC	OGRAV002.0LA	Old Graveyard Slough	080101000301
TDEC	ECO73A02	Middle Forked Deer River	080101000302
TVA	476110	Mississippi River @ RM 779.0	080101000304
TVA	476111	Mississippi River @ RM 775.0	080101000304
TVA	476115	Mississippi River @ RM 0.01	080101000304
TDEC	BALLA000.5TI	Ballard Slough	080101000304
TDEC	COLD004.7LE	Cold Creek @ RM 4.7	080101000305
TDEC	ECO73A01	Cold Creek	080101000305
TDEC	ECO73A03	Cold Creek	080101000305
EPA National Aquatic Resource Survey	OWW04440-1017	Lower Forked Deer River	080101000305
TDEC	ECO74A06	Sugar Creek	080101000401
TVA	476114	Mississippi River @ RM 753.0	080101000402
TDEC	BEAR002.1TI	Bear Creek @ RM 2.1	080101000402
TDEC	TISSUE14	Mississippi River	080101000402
USEPA	126	Mississippi River	080101000403
TVA	476119	Barnishee Bayou	080101000403
TDEC	BRINK000.0SH	Brinkley Bayou	080101000403
TDEC	PTREE000.2SH	Impounded UT to Dry Bayou	080101000403
USEPA	3444	Nonconnah Creek	080101000404
USEPA	470258F		080101000404
USEPA	470258G		080101000404
USEPA	76		080101000404
TDEC	MCKEL001.8SH	McKellar Lake @ RM 1.2	080101000404
TDEC	MCKEL004.4SH	McKellar Lake @ RM 4.4	080101000404
TDEC	MCKEL005.2SH	McKellar Lake @ RM 5.2	080101000404
TDEC	TISSUE09	Mississippi River @ RM 725.0	080101000404
TDEC	TISSUE12	McKellar Lake	080101000404
TDEC	MISSRIVER724.6	Mississippi River @ RM 724.6	080101000405
TDEC	TISSUE11	Mississippi River	080101000405

Table A4-4. STORET Water Quality Monitoring Stations in the Mississippi River Watershed. TDEC, Tennessee Department of Environment and Conservation; TVA, Tennessee Valley Authority; USEPA, United States Environmental Protection Agency; UT, Unnamed Tributary.

PERMIT NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-12
NRS04.123	Lake	Channel Dredging, Rip Rap Installation, and Alterations to Wetlands	Mississippi River	080101000106
NRS04.232	Lake	Barge Ramp Construction	Mississippi River	080101000106
NRS03.094N	Shelby	SR 385 Road Alignment	UT to Cypress Creek Canal	080101000202
NRS02.255	Lauderdale	Waterfowl Impoundment	Old Bed Forked Deer River	080101000302
NRS05.329	Tipton	Sand Mining	Mississippi River	080101000304
NR0602.004	Lauderdale	Utility Line Crossings	Cold Creek Overflow	080101000305
NR0602.058	Lauderdale	Temporary Road Crossing	The Reach-Open Lake	080101000305
NRS05.298	Lauderdale	Utility Line Crossings	The Reach, Cold Creek,& Cypress Hole Creek	080101000305
NRS04.085	Shelby	Minor Alterations to Wetlands	Wetlands	080101000401
NR0605.001	Shelby	Utility Line Crossings	McKellar Lake	080101000404
NR0605.023	Shelby	Utility Line Crossings	Mississippi River	080101000404
NR0605.093	Shelby	Emergency Road Repair	Wolf River Harbor	080101000404
NR0605.094	Shelby	Emergency Road Repair	Wolf River Harbor	080101000404
NRS02.101	Shelby	Dredging	McKellar Lake & Mississippi River	080101000404
NRS02.321	Shelby	Wolf River Harbor Mud Slide Removal	Mississippi River	080101000404
NRS02.354	Shelby	Maintenance Dredging	Mississippi River	080101000404
NRS02.444	Shelby	Hydraulic Dredging	McKellar Lake	080101000404
NRS02.451	Shelby	Seismic Retrofit Project 2B	Mississippi River	080101000404
NRS02.465	Shelby	Dredging	Mississippi River	080101000404
NRS03.063	Shelby	Bridge Repairs	Mississippi River	080101000404
NRS03.223	Shelby	Dredging	Mississippi River	080101000404
NRS03.273	Shelby	Bridge Repairs	Mississippi River	080101000404
NRS04.009	Shelby	Grade Control Structure	UT to McKellar Lake	080101000404
NRS04.284	Shelby	Sediment Dredging	McKellar Lake	080101000404
NRS05.073	Shelby	Maintenance Dredging	McKellar Lake	080101000404
NRS05.076	Shelby	Bridge Repairs	Mississippi River	080101000404
NRS05.305	Shelby	Maintenance Dredging	McKellar Lake	080101000404
NRS05.309	Shelby	Hydraulic Dredging	McKellar Lake	080101000404
NRS05.432	Shelby	Dredging	McKellar Lake	080101000404
NRS05.435	Shelby	Sediment Dredging	McKellar Lake	080101000404
NRS06.009	Shelby	Sediment Dredging	McKellar Lake	080101000404
NRS06.010	Shelby	Sediment Dredging	McKellar Lake	080101000404
NRS06.033	Shelby	Sediment Dredging	McKellar Lake Harbor	080101000404
NRS06.169	Shelby	Sediment Dredging	McKellar Lake Harbor	080101000404
NRS06.346	Shelby	Bridge Repairs	Mississippi River	080101000404
NRS07.011	Shelby	Maintenance Dredging	McKellar Lake	080101000404
NRS07.032	Shelby	Maintenance Dredging	McKellar Lake	080101000404
NRS07.048	Shelby	Maintenance Dredging	McKellar Lake	080101000404
NRS07.061	Shelby	Minor Dredging and Filling	McKellar Lake	080101000404

Table A4-5. ARAPs (Aquatic Resource Alteration Permit) issued June 2002 through June 2007 in the Tennessee Portion of the Mississippi River Watershed. UT, Unnamed Tributary.

PERMIT NUBMER	COUNTY	PERMITTEE: DESCRIPTION	AREA	WATERBODY	HUC-12
TNR120673	Lake	U.S. Army Corps of Engineers: Northwest Tennessee Regional Harbor	2.70	Mississippi River	080101000106
TNR120516	Lake	U. S. Army Corps of Engineers: Culvert Replacement	1.00	UT to Mississippi River	080101000202
TNR120491	Lake	Town of Tiptonville: Sewer Force Main	5.00	UT Graveyard Slough	080101000301
TNR120730	Lake	Forcum-Lannom, Inc.: Frocum- Lannom Ready Mixed Concrete	1.90	UT to Old Graveyard Slough	080101000301
TNR120586	Lauderdale	City of Ripley: Sewer Force Main	11.50	UT to Cane Creek, Cold Creek, The Reach, Lower Forked Deer River, & Mississippi River	080101000305
TNR152341	Tipton	Taylor Made Homes: Richardson Lakes Subdivision	36.00	Sugar Creek	080101000401
TNR190446	Tipton	TDOT: Herring Hill	1.15	UT to Bear Creek	080101000401
TNR151590	Shelby	State of Tennessee Capital Projects Management: Wastewater Lagoon	2.20	Mississippi River	080101000403
TNR190739	Shelby	Meeman-Shelby Forest State Park: Multi-Use Trail	5.80	Poplar Tree Lake	080101000403
TNR150506	Shelby	Lauderdale Greenlaw, LLC: Hurt Village Demolition	24.09	Wolf River Lagoon	080101000404
TNR150637	Shelby	Island Properties: Harbor Town Subdivision	3.78	Wolf River Lagoon	080101000404
TNR150719	Shelby	Kevin Hyneman Companies: Island View Subdivision	10.00	Wolf River Lagoon	080101000404
TNR150889	Shelby	Knob Hill, L.P.: Florida/Kentucky Subdivision	4.20	UT to Mississippi River	080101000404
TNR150909	Shelby	City of Memphis: King Riverside Golf Clubhouse	5.10	UT to McKellar Lake	080101000404
TNR150971	Shelby	Memphis Housing Authority: Cleaborn Subdivision	4.80	Mississippi River	080101000404
TNR151011	Shelby	Memphis Housing Authority: Fowler and Latham Terrace	8.13	Mississippi River	080101000404
TNR151023	Shelby	City of Memphis Building Design & Construction: Stable for Mounted Unit for the Division of Police Services	8.00	Wolf River Lagoon	080101000404
TNR151063	Shelby	Lauderdale Greenlaw, LLC: Uptown Village Subdivision	31.00	Wolf River Lagoon	080101000404
TNR151071	Shelby	Island Park, LLC: Island Point Subdivision	19.50	Mississippi River	080101000404
TNR151198	Shelby	Memphis Biotech Foundation: Baptist Research Park	1.40	Mississippi River	080101000404
TNR151279	Shelby	Memphis Housing Authority: LeMoynes Gardens Subdivision	3.20	Old Desoto Bayou	080101000404

Table A4-6a.

PERMIT NUBMER	COUNTY	PERMITTEE: DESCRIPTION	AREA	WATERBODY	HUC-12
TNR151399	Shelby	Memphis Housing Authority: Cleaborn Homes Site Improvements	20.00	Wolf River Lagoon	080101000404
TNR151400	Shelby	Memphis Housing Authority: Dixie Homes Site Improvements	5.50	Wolf River Lagoon	080101000404
TNR151421	Shelby	Memphis Housing Authority: Lamar Terrace Remediation and Demolition	10.60	Mississippi River	080101000404
TNR151422	Shelby	Memphis Housing Authority: Lamar Terrace Remediation and Demolition	15.00	Mississippi River	080101000404
TNR151492	Shelby	Riverpoint Development Company, LLC: Riverpoint Subdivision	20.82	Wolf River Lagoon	080101000404
TNR151498	Shelby	The University of Tennessee Health Science Center: Monroe Avenue Closure	3.60	Mississippi River	080101000404
TNR151502	Shelby	St. Jude Children's Research Hospital: Parking Garage	2.00	Wolf River Lagoon	080101000404
TNR151530	Shelby	Hargett Homes, Inc.: Uptown Village	0.35	Wolf River Lagoon - Gayoso Bayou	080101000404
TNR151542	Shelby	Streets Ministries: Seminary Campus	2.40	UT to Mississippi River	080101000404
TNR151583	Shelby	FaxonGillis Homes, Inc.: Uptown Village	0.00	Wolf River Lagoon	080101000404
TNR151595	Shelby	City of Memphis: Front Street Extension	1.63	Mississippi River	080101000404
TNR151598	Shelby	City of Memphis Building Design & Construction: Bickford Park Improvements	1.81	Wolf River Lagoon	080101000404
TNR151599	Shelby	Cargill, Inc.: Railroad Spur Installation	2.00	McKellar Lake	080101000404
TNR151678	Shelby	Memphis Housing Authority: Demolition	16.30	Mississippi River	080101000404
TNR151696	Shelby	State Place, LLC: State Place Subdivision	3.40	Mississippi River	080101000404
TNR151705	Shelby	Shelby County Health Care Corporation: Demolition	2.10	Mississippi	080101000404
TNR151741	Shelby	Burton Capital, LLC Harrison Kerr Tigrett Trust: The Ivy at South End Subdivision	1.51	Mississippi River	080101000404
TNR151758	Shelby	City of Memphis: Mud Island Roundabout	2.20	Mississippi River	080101000404
TNR151790	Shelby	April Woods Apartments, LP: April Woods Apartments West	1.23	Wolf River Lagoon	080101000404
TNR151849	Shelby	WesPac Pipeline LTD: WesPac Jet Fuel Pipeline	7.60	Nonconnah Creek & McKellar Lake	080101000404
TNR151952	Shelby	FaxonGillis Homes, Inc.: Uptown Village	0.00	Wolf River Lagoon	080101000404

Table A4-6b.

PERMIT NUBMER	COUNTY	PERMITTEE: DESCRIPTION	AREA	WATERBODY	HUC-12
TNR151959	Shelby	Sovereign Builders: Main and Carolina Subdivision	1.80	Mississippi River	080101000404
TNR151965	Shelby	Beazer Homes Corporation: State Place Subdivision	0.00	UT to Mississippi River	080101000404
TNR151971	Shelby	MBA Development Corporation: Lamar Terrace Remediation and Demolition	12.20	Mississippi River	080101000404
TNR152012	Shelby	Faxon Gillis: Carolina Lofts	2.66	Mississippi River	080101000404
TNR152014	Shelby	State of Tennessee: Memphis Mental Health Institute	2.06	UT to Mississippi River	080101000404
TNR152046	Shelby	T.E. Products Pipeline Company, LP: Jet Fuel Pipeline	15.60	Mississippi River	080101000404
TNR152115	Shelby	Monroe Properties, LLC: The Coleman Subdivision	1.01	Storm Drain to Mississippi River	080101000404
TNR152191	Shelby	CD Champion Hotels, Inc.: Microtel Inn and Suites	1.40	Bayou Gayoso	080101000404
TNR152223	Shelby	Memphis Housing Authority: Dixie Homes Site Improvements	38.43	Wolf River Lagoon	080101000404
TNR152368	Shelby	Rivertown, LLC: Rivertown at the Island	11.70	Wolf River Lagoon	080101000404
TNR152386	Shelby	Harbor View Properties, Inc.: Court Manor	8.50	Wolf River Lagoon	080101000404
TNR152546	Shelby	Exxon Mobil Corporation: Containment Dike	1.50	Mississippi River	080101000404
TNR190375	Shelby	TDOT: McLemore Avenue Bridge and Approaches	2.67	Mississippi River	080101000404
TNR190418	Shelby	TDOT: South Parkway Bridge	4.49	Mississippi River & Nonconnah Creek	080101000404
TNR190543	Shelby	TDOT: ITS (Smartway)	70.00	Headwaters & UTs to Ten Mile Bayou, Fifteen Mile Bayou, Mississippi River, Wolf River, Cypress Creek, Nonconnah Creek, Fletcher Creek, Harrison Creek & Days Creek	080101000404
TNR190557	Shelby	TVA: Allen Fossil Plant	6.30	Mississippi River	080101000404
TNR190699	Shelby	TDOT: SR 1 Resurface, Widening, and Realignment	14.50	Bayou Gayoso, Wolf River, & Mississippi River.	080101000404

Table A4-6c.

Tables A4-6a-c. CGPs (Construction General Permit) issued June 2002 through June 2007 in the Tennessee Portion of the Mississippi River Watershed. Area, Acres of Property Associated with Construction Activity; UT, Unnamed Tributary.

PERMIT NUBER	PERMITTEE	SIC	SIC NAME	MADI	WATERBODY	HUC-12
TN0026409	Tiptonville-City Lagoon	4952	Sewerage Systems	Minor	Mississippi River @ RM 872.5	080101000301
TN0078191	City of Ripley Wastewater Lagoon	4952	Sewerage Systems	Major	Mississippi River @ RM 800.5	080101000303
TN0062499	Munford Sewer Department Lagoon	4952	Sewerage Systems	Major	Mississippi River @ RM 761	080101000401
TN0027600	TDEC Meeman Shelby State Park	4952	Sewerage Systems	Minor	Mississippi River @ RM 750.0	080101000402
TN0000108	ExxonMobil Oil Corporation Memphis Terminal	5171	Petroleum Bulk Stations and Terminals	Minor	Mississippi River @ RM 734	080101000404
TN0001066	Petroleum Fuel & Terminal Company	5171 , 4226	Petroleum Bulk Stations and Terminals, Special Warehousing and Storage	Minor	UT to Mississippi River @ RM 734.0	080101000404
TN0001171	ACL Transportation Services, LLC	4491	Marine Cargo and Handling	Minor	Mississippi River @ RM 734.4	080101000404
TN0005355	TVA Allen Fossil Plant	4911	Electric Services	Major	McKellar Lake to Mississippi River @ RM 725.6, Horn Lake Cutoff to McKellar Lake, & Mississippi River @ RM 725.0	080101000404
TN0020711	Memphis Maynard C. Stiles STP	4952	Sewerage Systems	Major	Mississippi River @ RM 738.8	080101000404
TN0022543	The Premcor Refining Group, Inc. - Valero Riverside Terminal	5171	Petroleum Bulk Stations and Terminals	Minor	Mississippi River @ RM 734	080101000404
TN0029068	Cargill Incorporated	2046	Wet Corn Milling	Minor	McKellar Lake @ RM 2.8	080101000404
TN0041530	Lafarge North America	5032	Brick, Stone, and Related Construction Materials	Minor	Wolf River Lagoon to Mississippi River	080101000404
TN0058394	Vertex Chemical Corporation	2819	Industrial Inorganic Chemicals, NEC	Minor	McKellar Lake @ RM 4.0	080101000404
TN0067288	Lion Oil Company-Memphis	5171	Petroleum Bulk Stations and Terminals	Minor	Incline Bayou to Mississippi River @ RM 734.0	080101000404
TN0073385	Cummings Marine, Inc.	4491	Marine Cargo and Handling	Minor	McKellar Lake	080101000404
TN0074055	Lone Star Industries, Inc. d/b/a Buzzi Unicem USA - Memphis	5039	Construction Materials	Minor	Wolf River Lagoon	080101000404

Table A4-7 Municipal and Industrial Permittees in the Tennessee Portion of the Mississippi River Watershed. SIC, Standard Industrial Code; MADI, Major Discharge Indicator; UT, Unnamed Tributary.

PERMIT NUMBER	PERMITTEE	WATERBODY	HUC-12
TNG110158	Forcum Lannom Materials	Lewis Creek	080101000301
TNG110328	Forcum-Lannom, Inc.	Mississippi River	080101000301
TNG110260	Mississippi Limestone Corporation	Not Identified	080101000401

Table A4-8. RMCP (Ready Mix Concrete Plant) Permittees in the Tennessee Portion of the Mississippi River Watershed.

PERMIT NUMBER	PERMITTEE	SECTOR	WATERBODY	AREA	HUC-12
TNR050397	Georgia Gulf Chemicals & Vinyls, Inc.	Y	Harris Ditch	7.00	080101000301
TNR055958	Hyde's Auto & Salvage	M	UT to Mississippi River	4.00	080101000301
TNR056131	Goodman's Salvage	M	Groundwater	1.50	080101000301
TNR055043	Ampro Industries, Inc.	C	UT to Todd Creek to Loosa/Mississippi River	4.64	080101000403
TNR050013	Great Dane Trailers	AB	Mississippi River @ RM 733.5	7.50	080101000404
TNR050045	Bailey-Parks Urethane, Inc.	Y	Memphis Storm Sewer System to Mississippi River	1.60	080101000404
TNR050105	Memphis Wire & Iron Works, Inc.	AA	Not Identified	1.00	080101000404
TNR050141	Cargill Grain Elevator	P	McKellar Lake	5.20	080101000404
TNR050151	Hershey - Memphis	U	Memphis Storm Sewer to Mississippi River	19.60	080101000404
TNR050160	Keeler Iron Works, Inc.	AA	Harbor Channel of McKellar Lake to Mississippi River	10.00	080101000404
TNR050167	Williams Machine Works, Inc.	AB	McKellar Lake to Mississippi River	3.00	080101000404
TNR050468	CPI Concrete Products Inc	E	Mississippi River	15.50	080101000404
TNR050470	Flint Ink North America Corporation (Manders Premier, Inc.)	C	Nonconnah Creek	0.92	080101000404
TNR050528	BCS Industries, LLC	F	McKellar Lake	14.50	080101000404
TNR050530	Vertex Chemical Corporation	C	McKellar Lake	24.00	080101000404
TNR050564	Fleischmann's Yeast	U	Mississippi River	7.54	080101000404
TNR050576	Ergon Trucking, Inc.	P	Mississippi River	2.00	080101000404
TNR050635	Waxler Towing Company, Inc.	Q	Mississippi River	9.93	080101000404
TNR050657	W. M. Barr & Company, Inc.	C	McKellar Lake	3.50	080101000404
TNR050703	Lone Star Industries, Inc. d/b/a Buzzi Unicem USA - Memphis	AD	Wolf River	5.00	080101000404
TNR050760	Sonoco Products Company PI Facility	AA	Mississippi River	10.00	080101000404
TNR050763	Paulo Products Company	F	Harbor Channel to Mississippi River	1.40	080101000404
TNR050929	Cargill Incorporated	U	McKellar Lake	67.47	080101000404
TNR050970	Trumbo, Inc.	AA	Mississippi River	4.00	080101000404
TNR050987	Jones Fiber Products, Inc. Memphis	V	McKellar Lake	20.00	080101000404

Table A4-9a.

PERMIT NUMBER	PERMITTEE	SECTOR	WATERBODY	AREA	HUC-12
TNR051020	River City Chrome, Inc.	AA	Wolf River Lagoon	0.60	080101000404
TNR051064	Hawkins Machinery, Inc.	M	Wolf River	5.00	080101000404
TNR051079	Grief Brothers Corporation	AA	Not Identified	6.00	080101000404
TNR051109	Marshall Steel Inc Memphis	AB	Memphis Storm Sewer System to McKellar Lake to Mississippi River	4.00	080101000404
TNR051148	Lucite International, Inc.	C	Shelby County Sewer System	7.97	080101000404
TNR051183	G & W Diesel Service, Inc.	P	Mississippi River	10.00	080101000404
TNR051200	Kinder Morgan River Terminals, LLC	Q	McKellar Lake	25.00	080101000404
TNR051266	Bryce LLC	X	McKellar Lake	7.89	080101000404
TNR051368	Empire Express, Inc.	P	McKellar Lake to Mississippi River	2.68	080101000404
TNR051610	Anderson - Tully Company	A	Willow Branch to Wolf River Lagoon to Mississippi River	21.60	080101000404
TNR051651	General Electric Memphis Lamp Plant	AC	McKellar Lake	5.40	080101000404
TNR051664	ANR Advance Transportation Memphis	P	Mississippi River	4.70	080101000404
TNR051712	General Electric Memphis Lamp Plant	L	McKellar Lake	6.60	080101000404
TNR051714	Memphis Solutions Company	C	McKellar Lake to Mississippi River	3.70	080101000404
TNR051751	CTL Distribution, Inc.	P	Harbor Channel to Mississippi River	2.20	080101000404
TNR051805	Worley's City Iron & Metal, Inc.	M	Mississippi River	3.28	080101000404
TNR051808	Metal Prep - Memphis	AA	UT to Mississippi River	5.00	080101000404
TNR051841	T & B Trucking	P	McKellar Lake to Mississippi River	9.50	080101000404
TNR051863	Jorgensen-Bennett Mfg Company	A	Marble Creek	6.50	080101000404
TNR051952	APAC Tennessee, Inc.	D	Mississippi River	48.00	080101000404
TNR051953	American Lubricating Company, Inc.	D	McKellar Lake to Mississippi River	1.00	080101000404
TNR051969	Keystone Laboratories, Inc.	C	McKellar Lake to Mississippi River	2.50	080101000404
TNR051972	D & J Metal Products, Inc.	AA	Harbor Channel of Lake McKellar	2.06	080101000404
TNR051982	Tri Chem Products, Inc.	C	Memphis Storm Sewer System to Mississippi River	0.70	080101000404
TNR052053	UPS Ground Freight, Inc.	P	Days Creek	20.00	080101000404
TNR053034	Memphis Recycling Services	N	Memphis Storm Sewer System to Mississippi River	2.10	080101000404
TNR053074	Cooper Air Freight Service, Inc.	P	Memphis Storm Sewer System to Mississippi River	3.21	080101000404

Table A4-9b.

PERMIT NUMBER	PERMITTEE	SECTOR	WATERBODY	AREA	HUC-12
TNR053108	Memphis VMF	P	Mississippi River	4.25	080101000404
TNR053167	Westway Terminal Co.	U	Wolf River	7.80	080101000404
TNR053184	TVA Allen Fossil Plant	O	Mississippi River	2.19	080101000404
TNR053303	Miller Transporters - Memphis	P	Mississippi River	4.50	080101000404
TNR053315	Metal Management Memphis, L.L.C.	N	Wolf River	30.05	080101000404
TNR053316	Lazarov Brothers Tin Compress (d/b/a Perlco, LLC)	N	Wolf River	1.00	080101000404
TNR053330	Maynard C. Stiles Wastewater Facility	T	Wolf River & Mississippi	43.70	080101000404
TNR053376	Bluff City Steel	F	McKellar Lake to Mississippi River	4.00	080101000404
TNR053466	A. Karchmer and Son, Inc.	N	McKellar Lake to Mississippi River	8.00	080101000404
TNR053469	Paper Stock Dealers, Inc.	N	Not Identified	1.20	080101000404
TNR053650	Wooten Transports, Inc.	P	Memphis Storm Sewer System	4.50	080101000404
TNR053691	Block Drug Company, Inc.	AD	Land Discharge to North Side of Presidents Island	20.10	080101000404
TNR053731	HPD Laboratories, Inc.	C	Memphis Storm Sewer System to McKellar Lake	12.17	080101000404
TNR053874	Ergon Asphalt & Emulsions, Inc.- Technical Coatings Division	D	Memphis Storm Sewer System	3.20	080101000404
TNR053990	Owens Laminated Flooring	A	Willow Branch, Wolf River Lagoon, Mississippi River, & Memphis Storm Sewer System	21.60	080101000404
TNR054000	AMTRK Station	P	UTs to Mississippi River	16.59	080101000404
TNR054012	Iskiwitz Metals	N	Mississippi River	3.47	080101000404
TNR054019	Interstate Brands Corporation (Wonder - Hostess)	U	Memphis Storm Sewer System	4.20	080101000404
TNR054075	Martin Marietta Materials, Inc.	J	McKellar Lake	34.00	080101000404
TNR054117	Ledbetter Packing Company	U	Harbor Channel of McKellar Lake to Mississippi River	11.20	080101000404
TNR054147	Sugar Services Corporation	U	Mississippi River	8.00	080101000404
TNR054179	Tri Chem Products, Inc.		Not Identified	0.69	080101000404
TNR054257	Farrell-Calhoun Paint, Inc.	C	Memphis Storm Sewer System to Mississippi River	4.13	080101000404
TNR054311	Yarbrough Cable Service, LLC	AA	Memphis Storm Sewer System	1.47	080101000404
TNR054314	Americraft Carton, Inc.	B	Mississippi River	4.00	080101000404
TNR054479	S & W Machine Works, Inc.	AB	Groundwater	1.41	080101000404
TNR054488	Phoenix Manufacturing Company	AA	Memphis Storm Sewer System to McKellar Lake	4.59	080101000404

Table A4-9c.

PERMIT NUMBER	PERMITTEE	SECTOR	WATERBODY	AREA	HUC-12
TNR054509	Walter M Fields Lumber Company	A	Memphis Storm Sewer System	5.90	080101000404
TNR054566	Edge Biologicals, Inc.	C	Mississippi River	0.50	080101000404
TNR055052	Tomsin Steel Processing, Inc.	F	McKellar Lake	6.20	080101000404
TNR055067	Jones Fiber Products, Inc.	V	McKellar Lake	5.00	080101000404
TNR055931	J.L. Schranz Trucking	P	Mississippi River	1.90	080101000404
TNR055965	Amtrak	P	UTs to Mississippi River	0.10	080101000404
TNR055994	The Gromoor Company	C	McKellar Lake	0.75	080101000404
TNR056114	East Street Automotive	M	Not Identified	2.00	080101000404
TNR056441	Dunlap Street Used Auto Parts	M	Memphis Storm Sewer System to Mississippi River	23.89	080101000404
TNR056458	Levee Auto Parts and Salvage, Inc.	M	WWC to Mississippi River	4.50	080101000404
TNR056490	Siemens Water Technologies Corporation	N	McKellar Lake	2.00	080101000404
TNR056538	SemMaterials, L.P.	D	McKellar Industrial Harbor	14.00	080101000404
TNR056578	National Railroad Passenger Corporation- Memphis	P	Mississippi River	23.89	080101000404
TNR056651	Pyramid Sign & Awning, Inc.	Y	Mississippi River	0.50	080101000404
TNR056665	Ergon Terminals, Inc. - Memphis		McKellar Lake to Mississippi River	39.00	080101000404
TNR056731	MLGW	AD	Mississippi River	0.69	080101000404
TNR056732	MLGW	AD	Mississippi River	2.23	080101000404
TNR056733	MLGW-Beaver Building	AD	Mississippi River	0.68	080101000404
TNR056734	MLGW-Body Shop	AD	Mississippi River	1.63	080101000404
TNR056736	MLGW-Central Shops	AD	Mississippi River	2.35	080101000404
TNR056738	MLGW-Heavy Equipment Building	AD	Mississippi River	2.41	080101000404
TNR056776	Drexel Chemical Company	C	McKellar Lake	2.00	080101000404
TNR056809	City of Memphis Asphalt Plant	D	Mississippi River	3.00	080101000404
TNR056821	Remarket, Inc.	F	McKellar Lake	5.50	080101000404
TNR056826	Tangent Rail Products	C	McKellar Lake	10.00	080101000404

Table A4-9d.

Tables A4-9a-d. TMSPs (Tennessee Multi Sector Permit) issued in the Tennessee Portion of the Mississippi River Watershed. Area, Acres of Property Associated with Industrial Activity; WWC, Wet Weather Conveyance; UT Unnamed Tributary. See Table A4-10 for Sector Details.

SECTOR	TMSP SECTOR NAME
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 A4-10. TMSP Sectors and Descriptions.