# Integrated Report to Congress on the Condition of Water Resources in Kentucky, 2008

Volume I. 305(b) Report



Kentucky Environmental and Public Protection Cabinet Division of Water April 1, 2008

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## 2008 Integrated Report to Congress on Water Quality in Kentucky

Kentucky Department for Environmental Protection Kentucky Division of Water Water Quality Branch Frankfort, Kentucky

This report has been approved for release:

Sandra Gruzesky, Acting Director Kentucky Division of Water

4/1/08 Date

#### **ACKNOWLEDGMENTS**

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> Randall G. Payne Kentucky 305(b) Coordinator 1 April 2008

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#### Chapter 1. Introduction

The 2008 Integrated Report (IR) was prepared by the Kentucky Division of Water (KDOW), Department for Environmental Protection (DEP), for submittal to the U.S. Environmental Protection Agency (EPA) to fulfill requirements of sections 303(d), 305(b) and 314 of the Federal Water Pollution Control (or Clean Water) Act of 1972 (P.L. 92-500), as subsequently amended. Section 305(b) of the Act requires states to assess and report current water quality conditions to EPA every two years.

In 2006, an Integrated Report (IR) was released for the first time by the commonwealth. It was produced in two volumes, and this procedure is followed for the 2008 IR. Volume 1 reports the 305(b) assessment methods, processes, overview of the commonwealth's water resources, monitoring programs, statistical findings, georeferencing of monitored and assessed results and a comprehensive table listing all waters or segments assessed, with assessment results, causes (pollutants or pollution) and probable sources. Volume 2 of the IR lists those waters and segments that were not fully supporting one or more designated uses (DU), based on monitored data, and require a TMDL (total maximum daily load) calculation for those pollutants causing the impairments. By integrating the two reports, users of the information in the first IR (2006) found this comprehensive reporting medium of greater utility by having all relevant information together in two volumes. The use of assessment categories to file assessed stream segments and lakes or reservoirs provides an accurate and convenient method for the commonwealth to track the miles (or acres) of assessed and non-assessed uses, while also tracking those impaired waters from the time of 303(d)-listing through the TMDL process and post-implementation.

KDOW utilized the assessment database (ADB) to store use assessments and aid in producing the various tables and compilation of statistics that were presented in this report. The current report was based on assessment data stored in ADB version 2.2; this database had been modified to function per the particular needs of KDOW. As with previous 305(b) reports, ADB provides assessment data of stream segments and geographic data (GNIS [geographic names information system] and latitude - longitude) used to georeference those assessments. This proved to be an efficient mechanism to

produce the reach-indexed maps. In addition to the ADB, the TMDL section developed a database based on ADB architecture to track 303(d)-listed water bodies and segments. This database was updated to reflect the TMDL development, approval, and delistings of those waters or segments.

The KDOW initiated a five-year rotating watershed management approach in 1997. Results from the first basin management unit (BMU), the Kentucky River, were reported in the 2000 305(b) report. This IR represents monitoring efforts from the second cycle of the BMU monitoring strategy; thus the 4-Rivers - Upper Cumberland River and Green - Tradewater rivers BMUs were of primary focus in this 2008 IR; these BMUs were monitored beginning in April 2005 – March 2006 and April 2006 – March 2007, respectively. This report also incorporated assessment data and results from monitoring that occurred during this reporting cycle outside of the BMUs of focus; thus providing a statewide update of monitoring results. Data collected by the Ohio River Valley Water Sanitation Commission (ORSANCO) were used to make assessments for the mainstem of the Ohio River (ORSANCO, 2008).

The 303(d)-list contains 6083 miles and approximately 2097 pollutant-waterbody combinations. This monitoring cycle was years three and four of phase two of the second five-year BMU cycle. As such, much of the monitoring activities focused on TMDL-associated watersheds to identify the extent, concentrations and track sources of pollutants of concern necessary for TMDL calculation. To maintain overall awareness of aquatic life support conditions, and compare results from the first cycle phase (2000 and 2001) of these two BMUs, KDOW conducted a second probabilistic designed study of wadeable streams (1<sup>st</sup> – 5<sup>th</sup> Strahler order).

There are reasons that some impaired waters were not 303(d)-listed. For example, evaluated data from discharge monitoring reports (DMRs) from permitted facilities were not on the 303(d) list because permit compliance should result in protection of the designated uses; also, these DMR data were not directly monitored instream, but at the outfall.

#### Chapter 2. Background

### 2.1 Atlas of Kentucky's Water Resources and Profile of Select Demographic and Physiographic Statistics Atlas of Kentucky

State population (2006 estimate) <sup>1</sup>	4,206,074
Surface area (square miles)	40,409
Number of counties	120
Number of major physiographic regions	5
Number of level III ecoregions	
Number of level IV ecoregions	
Number of major basins.  Number of USGS 8-digit HUCs <sup>2</sup>	12
Number of USGS 8-digit HUCs <sup>2</sup>	42
Number of stream miles (1:24,000 NHD <sup>3</sup> )	90,961
Number of stream-formed border miles (primarily Ohio River)	
Number of publicly owned lake and reservoir surface acres (estimated) Three largest reservoirs by surface acres	
Kentucky Lake (Kentucky portion)	57.103
Cumberland Lake	
Barkley Lake (Kentucky portion)	
Wetland acres (approximation) <sup>4</sup>	324,000

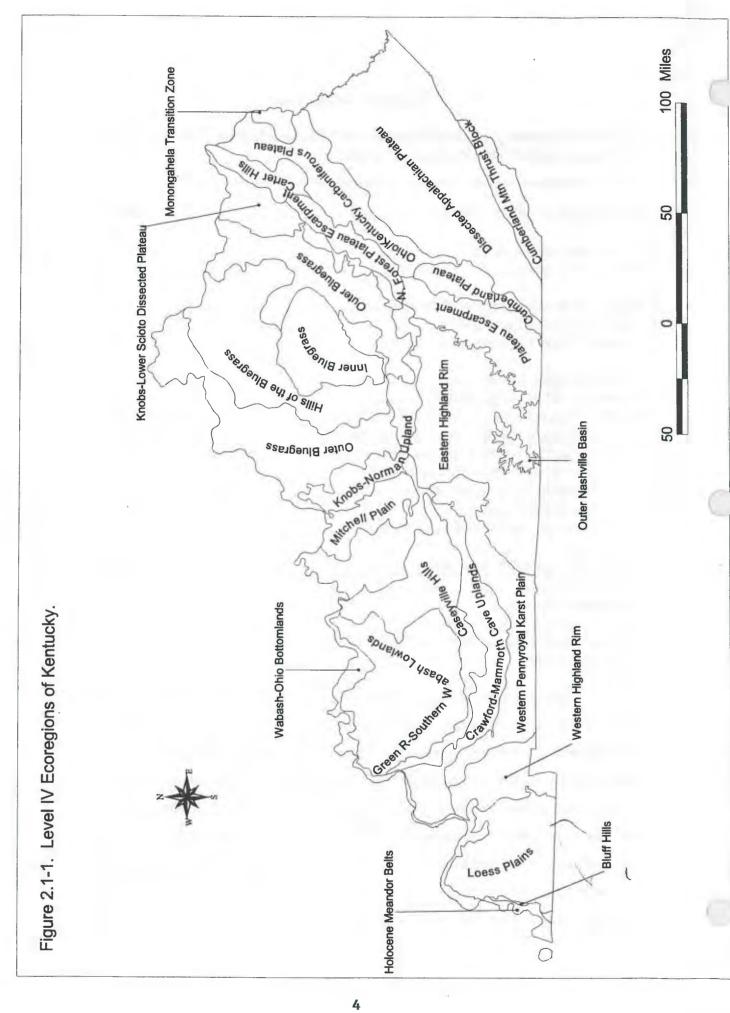
<sup>&</sup>lt;sup>1</sup>US Census Bureau

The physiography of Kentucky provides a landscape of 25-Level IV Ecoregions (Figure 2.1-1) that are diverse geologically and physically and provide a variety of microclimates that are important in forming and supporting diverse plant and aquatic communities. This rich aquatic biodiversity is a part of the southeastern aquatic environment that provided long, stable conditions, a result of non-glaciations. While the state has many miles of streams and rivers, natural lakes are uncommon and are found along the Lower Ohio and Mississippi rivers in the Jackson Purchase (region west of Tennessee River [Reservoir]); most of these lakes were formed by oxbows or shallow depression basins. Many of the major rivers in the commonwealth have been dammed

<sup>&</sup>lt;sup>2</sup>Hydrolgic unit code

<sup>&</sup>lt;sup>3</sup>National hydrography dataset

<sup>&</sup>lt;sup>4</sup>The state of Kentucky's environment: 1994 status report. The Kentucky Environmental Commission, 1995.



for flood control and secondarily for generation of electricity. This change has altered the natural aquatic communities of these systems while providing drinking water supplies, tourism and recreational opportunities. While only a portion of wetlands exist from what was estimated to have occurred historically (1.5+ million acres), loss of wetland acreage has slowed with federal and state regulations and disincentives for altering wetlands in place (The Kentucky Environmental Commission, 1995). By river basin, the Green River has the largest proportion of remaining wetland acres, approximately 88,000. As indicated by the number of caves in Kentucky, there are significant karst areas in the state, but the largest karst landscape exists in the Green River basin, which includes Mammoth Cave. These areas of karst present special concerns for water quality protection because groundwater flows may be unknown and difficult to monitor due to limited access.

#### 2.2 Programmatic

In order to better characterize the waters of the state and better coordinate resources toward addressing problems, Kentucky adopted a Watershed Management Framework in 1997. The purpose of this management framework is to use programs, people, information, and funds as efficiently as possible to protect, maintain, and restore water and land resources. This approach provides a framework within which participating individuals and institutions can link and support one another's efforts in watershed management.

Coordinated, multi-agency watershed monitoring was initiated in 1998 in the Kentucky River basin, and monitoring for the first five-year watershed cycle was completed in 2002. The first cycle of monitoring focused on obtaining, for the first time, a snapshot of conditions of Kentucky's waters, especially wadeable streams. Most local, state, and federal agencies in Kentucky with monitoring responsibilities cooperated in the watershed monitoring effort. Some agencies simply provided their data and carried out monitoring as usual; others revised their sampling programs and sampling methods for better fit with the watershed monitoring plan. In early 2005, Kentucky Department for Environmental Protection and Tennessee Department of Environment and Conservation

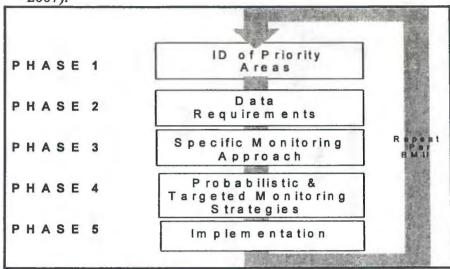
formally agreed to begin cooperating and sharing combined resources to work toward making tangible improvement to shared watersheds. For example, several watersheds (Clarks River, Red River and upper Cumberland River) were identified to have interstate concerns and probable shared sources of pollutants or pollution affecting stream health. Monitoring was implemented in 2005 to identify sources and spatial and temporal concentrations of nitrates in the Red River watershed in the lower Cumberland River basin. In addition to scoping and fixing pollutant-source issues, an effort was agreed upon whereby each state identified shared high quality watersheds then, where feasible, establishing them as such in their respective regulations. Additionally, where one state had identified high quality waters crossing state boundary, but the other had not, that state assessed their portion of the stream to determine if it qualified for elevation to high quality designation. An example where an Outstanding National Resource Water (ONRW) had been designated is Reelfoot Lake. Tennessee and Kentucky share this resource (approximately 20 percent in Kentucky), but it has been designated as an ONRW only by Tennessee. Kentucky included this designation (ONRW) for its portion of the resource putting in the 2007-8 triennial review submission.

According to the adopted framework, the state is divided into five BMUs (Figure 2.2-1) for the purposes of focusing management activities spatially and temporally. Activities within each of the five units follow a five-year cycle so efforts can better be focused within a basin. Phases in the cycle include: 1) collecting information about water resources in the basin; 2) identifying priority watersheds; 3) listing the watersheds in the basin in order of priority and deciding which problems can be solved with existing funds; 4) determining how best to solve the problems in the watershed; 5) developing an action plan; and 6) carrying out the strategies in the plan (Figure 2-3). Public participation is also encouraged throughout the process, allowing citizens and organizations to stay informed and have an active role in management of resources. Monitoring and assessment take place in the second and third years, respectively, of the watershed cycle.

80 Miles Big Sandy/Little Sandy/Tygarts 40 2003 Licking River 2004 Kentucky River 2005 Cumberland/Mississippi/Ohio/Tennessee 2004 Salt River Green/Tradewater River 2006

Figure 2.2-1. Kentucky Basin Management Units and monitoring years of the second five-year cycle.

Figure 2.2-2. Phases of the second cycle of the basin management unit approach (2003 – 2007).



Each basin was phased into the second cycle of the Watershed Framework schedule as listed below. Monitoring activities began in April and ended in March the following year.

- April 2003 March 2004 Kentucky River basin
- April 2004 March 2005 Salt and Licking river basins
- April 2005 March 2006 upper Cumberland River and 4-Rivers (lower Cumberland, Ohio, Mississippi and Tennessee rivers) basins
- April 2006 March 2007 Green and Tradewater rivers basins
- April 2007 March 2008 Big Sandy River, Little Sandy River, and Tygarts
   Creek basins

#### Benefits of this approach include:

- Planning and determination of monitoring strategy developed on a watershed approach for TMDL-specific monitoring
- Increased coordination of resource management activities focused on identified priorities in each basin
- Greater ability to stretch limited dollars for implementation activities through partnering and coordination of efforts; spin-off benefit of the initial BMU cycle approach

- Collaboration of state and federal agencies effectively increasing manpower,
   expertise and environmental disciplines
- More data as monitoring efforts are coordinated approximately a four-fold increase in assessment data has been realized since the inception of the watershed approach in 1998.
- Better data as agencies standardize methods and procedures.
- Greater opportunities for citizen involvement.

The 2004 305(b) Report represented the completion of the first monitoring and assessment cycle of the five BMU management framework. Whereas the purpose of monitoring in the first watershed cycle was to obtain baseline data statewide, monitoring in the second cycle (begun in 2003) focused on impaired watersheds. However, ambient monitoring continued at long-term stream and lake stations, watersheds not sampled in the first watershed cycle, probabilistic biosurveys, and on small streams to refine reference reach metrics. Much of the work was done sequentially to make best use of monitoring personnel and to collect data during the target index period according to stream sizes. The following is the cycle beginning with planning phase-year with the monitoring and assessment in years two and three, respectively.

- 2002 2004 Kentucky River Basin
- 2003 2005 Salt Licking basin
- 2004 2006 Upper Cumberland River and 4-Rivers (Lower Cumberland, Mississippi, Ohio, and Tennessee rivers) basin
- 2005 2007 Green Tradewater rivers basin
- 2006 2008 Big Sandy Little Sandy rivers and Tygarts Creek basin

#### 2.2.1 Overview of Programs Related to Monitoring and Assessment

The Division of Water has the primary responsibility of monitoring and assessing the commonwealth's water resources, and overseeing the permitting of facilities and industries that discharge point sources to waters through Kentucky Pollutant Discharge Elimination System (KPDES).

To monitor the designated uses of Kentucky's waters and monitor the effectiveness of various control programs, such as KPDES, KDOW has a number of monitoring programs that monitor biological and water quality indicators for 305(b) and 303(d) purposes. Table 2.2.1-1 highlights the monitoring programs and the indicators associated with each. A more comprehensive discussion of surface water quality monitoring programs follows in Chapter 3.

Table 2.2.1-1. Matrix of water resources and monitoring programs

	aLong-	*Rotating	b,c Targeted	<sup>b</sup> Reference	<sup>d</sup> Probabilistic	<sup>c</sup> Lake	<sup>a</sup> Ground-
	term Surface Water	Surface Water	Biological Monitoring	Reach	Biosurvey	Monitoring	water & Springs Monitor- ing
Streams (1 <sup>st</sup> -5 <sup>th</sup> order)		X	X	X	X		
Large Rivers	X	X	X				
Lakes/Reservoirs						Х	
Groundwater							X
Swamps/Wetlands							

<sup>&</sup>lt;sup>a</sup>Indicators: physicochemical and pathogen indicator

For those waters requiring a Total Maximum Daily Load (TMDL) pollutant reduction, the division's TMDL program manages this process by coordinating the monitoring and development of those discharge or load reductions necessary to bring the impaired Designated Use (DU) into full support. The primary source of pollutants affecting the commonwealth's waters emanate from nonpoint sources (NPS). The fact that sedimentation became the leading pollutant in the 2004 305(b) cycle was a direct reflection on NPS pollution being the more significant source of degradation to the state's waters. This trend follows nationwide.

The primary objectives of the ambient monitoring program were to establish current conditions and long-term records and trends of water quality, biological, fish tissue, and sediment conditions in the state's major watersheds (Kentucky Division of Water, 1986). Sub-objectives were identified as determining: 1) the quality of water in Outstanding Resource Waters; 2) background or baseline water quality conditions in

bIndicators: macroinvertebrates, fish, algae, physicochemical, habitat

<sup>&</sup>lt;sup>c</sup>Includes some 6<sup>th</sup> order streams where wadeable and associated with ambient water quality stations

<sup>&</sup>lt;sup>d</sup>Indicators: macroinvertebrates, physicochemical, habitat <sup>e</sup>Indicators: physicochemical, fish kills, macrophytes, algae

streams not impacted by discharges; 3) the extent to which point and nonpoint sources affect trophic status of lakes and reservoirs; and 4) the impact of acid precipitation on water quality of lakes and reservoirs. There were 70 primary water quality stations throughout the commonwealth that are monitored on a monthly frequency at each station respective of the current monitoring cycle. These stations were located at mid-and lower watershed reaches of 8-digit HUC basins. Location of stations also occurred near the inflow and outflow of major reservoirs, for example Green River Reservoir in the Green River basin. Those stations outside the BMU monitoring phase were monitored bimonthly. Implemented with the rotating basin approach, were the rotating watershed stations. These stations were monitored for the same suite of water quality parameters as the primary stations, but were monitored in smaller watersheds for a variety of reasons. Those primary considerations for candidate watershed monitoring were: 1) TMDL development; 2) characterize water quality in reference watersheds; 3) monitor waters that receive permitted discharge (for instance a municipal wastewater treatment plant) to characterize upstream and downstream water quality; and 4) characterize water quality conditions in certain landscapes, such as agricultural or mining areas.

KDOW's targeted biological monitoring program has a long history associated in determining the health and long-term water quality of stream and river resources. In addition to biological community survey, water quality variables were included in the monitoring program. Biological monitoring was implemented in the 1970s with significant refinement of the program as more research led to the development of biological multimetric indices (for more information go to Methods for Assessing Biological Integrity Of Surface Waters in Kentucky). A portion of KDOW's biological monitoring emphasis was shifted to development of those metrics and associated criteria through a reference reach approach. This was implemented in the 1990s based on an ecoregional approach to determine reference conditions in each basin. These waters do not represent pristine conditions rather they represent the best examples of high water quality and biological integrity in each of the four identified bioregions. Through this effort a network of streams, or stream reaches, have been identified throughout the commonwealth. These stream reaches were listed in water quality standards, 401 KAR 5:030 and can be accessed at: <a href="http://www.lrc.ky.gov/kar/401/005/030.htm">http://www.lrc.ky.gov/kar/401/005/030.htm</a>. One to three

biological communities (macroinvertebrates, fishes, or algae) were sampled per biosurvey. When one community only was used to make an aquatic life use support determination, either macroinvertebrates or fishes were monitored, typically the former.

A random biosurvey effort was initiated with the help of EPA's technical support group in Corvallis, Oregon. Kentucky's approach was to sample macroinvertebrates once at a minimum of 50 sites in each BMU. In 2004 nutrients and additional chemical water quality variables were added to the suite of indicators used by this program. These additional data were added to aid in the development of numeric nutrient criteria, gain a more comprehensive knowledge of what ambient water quality variable values were in each BMU, and increase the confidence of each aquatic life use assessment. This program allows KDOW to report on aquatic life use support in wadeable streams for the entire state over the five year watershed cycle. Section 305(b) use support determinations made through the probabilistic biosurvy program were determined only on segments directly monitored, whereas extrapolated use support over a given BMU was made for informational, resource conditions, and planning purposes only. This program was important both on the statewide level as well as national level, as indicated by EPA's nationwide probabilistic monitoring efforts in wadeable streams, lakes and reservoirs and a planned large rivers survey in mid-2008.

Lake and reservoir monitoring program began in the early 1980s as part of the Clean Lakes monitoring initiative. Currently KDOW monitors all significant publicly-owned lakes and reservoirs in the state (approximately 105 waterbodies). Many of the Corps of Engineers (COE) reservoirs and Kentucky Lake, a Tennessee Valley Authority (TVA) project, were typically monitored by those respective agencies per our protocol and collaborative efforts. The working relationship between KDOW and COE, Louisville and Nashville Districts, has proved to be a good cooperative effort that is beneficial to all parties by increasing available resources (e.g. COE may provide the field work and KDOW, in coordination with Division of Environmental Services (DES) provides chemical analyses).

Physicochemical and chlorophyll *a* were analyzed to determine current Trophic State status of these waterbodies. Monitoring occurs three times during the growing season (spring, summer and fall) to capture the seasonal variability that occurs and

reflects the trophic state of the resource. By monitoring these resources every five years, trends in water quality can be measured. This monitoring program collects data sufficient to determine aquatic life, secondary contact recreation and drinking water supply DUs. The majority of these resources are posted by Kentucky Fish and Wildlife Department as "no swimming" water bodies, precluding applicability of primary contact recreation monitoring.

#### 2.3 Costs Associated with Water Pollution

Putting a dollar figure on the costs associated with water pollution is difficult to determine. However, the costs associated with KPDES-permitted facilities, which are primarily comprised of industrial facilities, package wastewater treatment plants, and municipal wastewater treatment plants, are in the tens of millions of dollars considering construction, operating, maintenance, compliance, and administrative costs. Figures obtained from KDOW, Facilities Construction Branch, give some insight into the costs associated with treating household, business and industrial wastes.

Table 2.3-1. Costs to taxpayers for municipal waste water treatment facilities (planning, design and construction) for the control of pollution from houses, businesses and industries.

	Clean Water State Revolving Fund	EPA Special Appropriation
		Grants
FFY 2005	38,722,975	7,216,800
FFY 2006	20,282,027	5,925,400
Prior to FFY	400,653,831 (first loan made in	38,154,802 (first grant awarded in
2005	May 1989)	1998)
Total	\$459,658,833	\$51,297,002

However, these costs are only a portion of the total costs to society. The increased cost of technology needed to treat potable water in areas of heavy siltation/sedimentation alone may result in loss of source water supply because the cost of treatment is prohibitive, while areas of organic industrial contamination may require expensive continuous carbon-based treatment. Medical and loss of productivity costs associated with various diseases that may result from waterborne pollution are not accurately known. For example, consumption of fish flesh that has elevated levels of

mercury carries increased health risks that may be at a level to restrict consumption by children and women of childbearing age, while fish contaminated with elevated levels of PCBs carries increased cancer risks to the general population. Pollutants affect commercial fisheries where restricted consumption, or loss of resources, reduces the commercially available fish population; additionally, some members of society rely on subsistence fishing to supply a portion of their nutritional needs. Water pollution may also result in loss of revenue to governments and local businesses if recreation areas are unsafe for swimming or fishing. The shipping industry relies on barges to move many commodities around the nation, and the cost of maintaining shipping channels prone to fill due to excess sedimentation is an ongoing expense to both industries and governments.

#### 2.4 Monitoring and Assessment Issues Facing the Commonwealth

Some of the larger monitoring and assessment issues are presented below. However, the overriding issue is personnel to conduct additional monitoring tasks and use these generated data in a meaningful way throughout the various water management programs.

KDOW submitted a nutrient criteria development plan in 2004 that was satisfactory to EPA. The first waters scheduled for criteria development are wadeable streams and intrastate reservoirs. A particular need is for data from the inner bluegrass (ecoregion 711). Watersheds reflecting reference conditions are difficult to locate in this region due to the intensive land uses largely by agriculture as well as development or urbanization. This particular area has high phosphate content found in the Lexington limestone layers of the plateau that, with the addition of significant inputs of nitrogen associated with intensive livestock grazing, grasslands, and urbanization and suburbanization, has resulted in nutrient-rich streams and reservoirs. The division has begun addressing this issue through applying a 1 mg/L total phosphorus discharge limit to those waters impaired by nutrient enrichment, and increased nutrient sampling; however, greater frequency is needed to capture seasonal variations and effects on stream systems. Given the karst geology of much of the inner bluegrass, many of these streams are connected and have watersheds that are yet to be mapped and understood. To obtain

necessary additional nutrient-data KDOW has secured EPA funds to involve Western Kentucky University and USGS to monitor two Level IV ecorgions in this area (71a and 71e). Continuance of data collection and development of criteria based on the best attainable conditions will dictate those numbers in this region. Additional data are required from the mountainous region of the commonwealth for numeric nutrient criteria development. A 106 supplemental grant was awarded to Kentucky Geological Survey (KGS) to assist KDOW in physicochemical data collection in wadeable watersheds in this region that receive discharge from municipal, package and household wastewater treatment facilities or units. Part of the study design was to identify those receiving watersheds that have minimal other potential impacts, particularly from mining activities. This project was scheduled to begin in spring 2008 and run approximately one year. Biologic communities (macroinvertebrates and algae) will be collected from each station once during the appropriate biological index period. Correlation of nutrient data to community structure was the objective. It should be noted the KDOW had considerable data throughout this region; however, either nutrient data were not collected with biological data or it was collected from naturally nutrient-poor reference watersheds. This region is made up of the following river basins: upper Cumberland; upper Kentucky; Big Sandy; Little Sandy; and upper Licking.

Lake and reservoir data were relatively complete and span approximately 25 years. This program continued to characterize the trophic state of these waters during the growing season; samples were collected spring, summer, and fall. The majority of reservoirs had remained stable according to TSI, but there were trends from oligotrophic to mesotrophic occurring in some waters.

Kentucky's wetlands were primarily bottomland hardwood systems that flood seasonally. This corresponds to the winter and spring rainy season. Any excess nutrients will likely have a subtle impact on these environments since the supply of water comes from flooding rivers, and seasonal inundation. These bottomland hardwoods naturally do not hold standing surface water for a prolonged period of the year.

To date, there have been no recognizable geographic patterns in mercury levels in fish tissue. A potential strategy to aid in detecting a possible pattern may be moving toward a random monitoring scheme. Constraints may be put on the habitat population

of interest, such as 4<sup>th</sup> and 5<sup>th</sup> order wadeable streams, major streams (>5<sup>th</sup> order), etc.

States are now faced with the situation where they are asked to maintain a robust ambient monitoring program to characterize and track conditions of the state's waters (305b reporting) and at the same time collect data for TMDL development in hundreds of impaired waterbodies and segments, eventually tracking the success of implementation. Faced with these tasks, the most critical resource need at this time is additional support for the TMDL program, as much of the monitoring resources have been shifted from ambient programs into the TMDL monitoring-specific needs. Like most states, Kentucky's schedule requires hundreds (approximately 1700) of TMDLs be developed over the next decade. More staff, lab resources, and especially contractual monies, must be obtained to accomplish this workload without continued loss of ambient monitoring resources, either through additional EPA or state funding. KDOW must establish arrangements to fund TMDL planning, data collection, lab analysis, and development with internal, contractual, and interested third-party resources, including volunteer organizations.

Industrial and point source monitoring is important to the commonwealth's assessment of the effectiveness of permitted facilities adhering to their permit limits, and if the permitted limits are appropriate and protective for the receiving waters. The primary target of this monitoring program would be to gage the biological integrity in these waters. This monitoring need may only be fulfilled with significant monetary and personnel resources; however, neither of these resources will likely become sufficient within this decade. Contracting the work through a federal grant would be one way to address this need.

This permit biomonitoring program would help fulfill sections 301, 302, 303, 305, 306, 307, 308, 314 and 402 of the CWA. Milestones would be incremental, with resources initially directed to pre-permit biomonitoring. As resources increase biomonitoring would be implemented prior to application renewals. The earliest implementation would be 2014 and, given the resources needed to undertake this objective, it is currently not viewed as realistic in this timeframe.

#### Chapter 3. Surface Water Monitoring and Assessment

#### 3.1 Monitoring Program - General

Kentucky Division of Water has used NHD 1:24,000 scale maps for monitoring, planning, and assessment since 2004. As noted in Chapter 2, there are over 90,000 miles of streams in the commonwealth at this resolution. Of particular interest in this 2008 IR are new 305(b) assessments of two BMUs, the 4-Rivers - upper Cumberland and Green – Tradewater, which were the focus of monitoring in water-years 2005 and 2006, respectively. Table 3.1-1 provides population of stream miles for those two BMUs by river basin.

Table 3.1-1. Total stream miles (NHD 1:24,000 scale) of respective river basins in the 4-Rivers – upper Cumberland and Green – Tradewater BMUs.

4-Rivers - Upper Cumberland BMU, including Ohio River	
minor tributaries	21,166
upper Cumberland River sub-basin	10,433
4-Rivers sub-basin	10,733
(lower Cumberland, Mississippi, adjacent Ohi	o and Tennessee rivers)
Green – Tradewater BMU	23,795
Green – Tradewater BMU	

In this reporting cycle, primary monitoring occurred in 23 of the state's 42 eight-digit HUCs (hydrologic unit codes) established by the U.S. Geological Survey (Figure 2.1-1). Table 3.1-2 provides data on the number of assessed waterbodies, segments and types of waterbodies per the monitoring program for water-years 2005 - 2007. In the 4-Rivers - upper Cumberland BMU, those data include 20 stream segments on 16 streams in the one associated Ohio River subecoregional boundary (05140206); as well, the Green – Tradewater BMU data includes 34 stream segments on 26 streams assessed in the two adjacent Ohio River subregional boundaries HUCs (05140201, 05140202 and 05140203) (Figure 2.2-1). Most of these assessments stemmed from intensive multiagency watershed monitoring in 2005 and 2006. However, some data more than five years old were considered valid this reporting period.

Table 3.1-2. Numbers of streams, stream segments, lakes and reservoirs assessed in the Upper Cumberland – 4-Rivers and Green - Tradewater BMUs of focus during the 2005 and 2006 water-years.

<u>BMU</u>	Number of Streams	Number of Stream Segments	Number of Lakes	Number of Reservoirs	Number of Springs
Upper Cumberland & 4-Rivers	410	562	12	19	0
Green - Tradewater	311	440	0	34	10
Total	721	1002	12	53	10

The 4-Rivers - Upper Cumberland BMU has the greatest number of natural lakes found in the commonwealth. Within this BMU 31 lakes and reservoirs were monitored, including 12 natural lakes found in the Jackson Purchase region (relict coastal plain). Those reservoirs monitored and assessed in the Green – Tradewater BMU numbered 34 (Table 3.1-2).

One waterbody type KDOW added to its monitoring program this monitoring period was springs. These are significant resources in karstic regions of the state. The Green – Tradewater BMU is the largest area of karst in Kentucky. As such, this landscape has many sinkholes, caves (e.g. Mammoth Cave) and subsurface streams and rivers, including associated springs. This portion of south-central Kentucky has long been an area of significant agricultural land uses, with a recent growing urban population, especially in the Bowling Green area; therefore, there are many potential sources and conduits to groundwater or subsurface (losing) streams for pollutants to readily flow into. Given the sensitivity of groundwater, subsurface (losing) streams and associated surface water resources to land uses in this porous limestone region, monitoring significant springs was made a priority for the KDOW. This effort was undertaken by KDOW's Groundwater Branch employing the Water Quality Branch's SOP used for surface water quality monitoring programs. The locations of those monitored may be seen in Figure 3.1-1.

Spring
Streams >/= 4th Order
Streams >/= 4th Order
Reservoirs
8-Digit HUC Boundary
© City
Counties Elizabethtown VICCoy Bluehole Spling Skees Spring Goodman Springs Edmontor Gorin Mill Spring Head of/Rough River Spring Mill Spring Graham Spring ahurin Spring Leitchfield Lost River Rise Bowling/Green 30 Miles 20 10 0 6

Figure 3.1-1. Monitored springs in the Green River basin, 2006-7.

#### 3.1.1 Ambient (Long-Term) Monitoring Network

Water Quality. Kentucky Division of Water's statewide ambient water quality monitoring network consists of 70 fixed stations (Table 3.1.1-1 and Figure 3.1.1-1). This network was expanded from 44 to 70 in 1998 following the watershed approach adopted by the commonwealth in 1997. Ambient stations were located in the downstream and mid-unit reaches of USGS 8-digit hydrologic unit codes upstream of major reservoirs and in the downstream reaches of major tributaries. The 4-Rivers - Upper Cumberland BMU had 14 ambient stations and the Green - Tradewater BMU had 17 ambient water quality stations (Table 3.1.1-1). The ambient stations of a watershed management unit were sampled monthly during the water-year the unit was in phase to be monitored. During the other four water-years of the watershed cycle, sampling frequency was reduced to bimonthly to devote more monitoring and laboratory resources to the rotating watershed water quality network (discussed later). Field measurements were taken for pH, dissolved oxygen, specific conductance and temperature; samples were analyzed for nutrients, metals and pesticides and herbicides if the streams drained predominantly agricultural areas. During the recreation season of May - October water quality samples are also collected to determine if levels of pathogen-indicating bacteria may be a concern for people who may recreate in these waters. The purpose of the ambient water quality network was to assess long-term conditions and trends on rivers and the larger streams of the state. In addition to KDOW's network, long-term stations were maintained by ORSANCO on the lower Licking, lower Big Sandy, lower Green, lower Tennessee and lower Cumberland rivers and by the USGS on the lower Tennessee River. Figures 3.1.1-2, 3.1.1-3 and 3.1.1-4 give the locations of ambient monitored stations (including associated biomonitored stations) in the upper Cumberland River basin, 4-Rivers basin and the Green - Tradewater BMUs, respectively.

Sediment Quality. Sediment quality was determined at the ambient stations during the year in which monitoring occurred in a watershed management unit. At this time, sediment data supplement other data types; the data were not used for assessment, rather for screening purposes.

**Biology.** Fish, macroinvertebrate and algae data from the ambient stations provide long-term and trend information on mainstem of rivers and many major

tributaries. Most of the ambient biological stations were located on streams that also have water quality monitoring.

Fish Tissue. Fish tissue samples were obtained from 13 waterbodies or locations in the Upper Cumberland – 4-Rivers BMU and 12 waterbodies or locations in the Green – Tradewater BMU; additionally, 11 waterbodies or locations were monitored throughout Kentucky related to advisories. Tissue was analyzed for methylmercury, selenium, PCBs, chlordane, pesticides and herbicides. Results were used to determine if there were potential problems with contaminants in fish tissue that required further sampling. These results also were used to make fish consumption use support determinations. The widespread pollutant of concern in Kentucky fishes was methylmercury. The following criteria were used to determine level of use support: 0.0-0.30 ppm was full use support, greater than 0.30-1.0 ppm was partial support and greater than 1.0 ppm was nonsupport. If results were not elevated, no further fish tissue sampling was conducted. This method of assessment closely follows EPA's recommended application of basing water quality evaluation on fish tissue concentrations.

Table 3.1.1-1. Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs highlighted in bold type.

IIIgiiiigiii	inginigited in bold type.	rype						
River Basin & Stream	Station	HUC	Mile-	Location	Latitude	Longitude	Drainage (m.2)	Station Type
Big Sandy					7001	(PA)	Time 1	
*Tug Fork	PRI002	05070201	35.1	at Kermit, WV	37.8379	-82.40970	1277	hydrologic unit index site
*Tug Fork	PRI003	05070201	7.77	at Freeburn	37.56615	-82.14358	781	mid-hydrologic unit index site
*Levisa Fork	PRI006	05070202	115.0	nr Pikeville	37.46435	-82.52589	1229	hydrologic unit index site
<sup>a</sup> Levisa Fork	PRI064	05070203	29.6	nr Louisa	38.1160	-82.6002	2323	hydrologic unit index site
<sup>a</sup> Levisa Fork	PRI094	05070203	75.0	at Auxier	37.72905	-82.75436	1723	mid-hydrologic unit index site
<sup>a</sup> Beaver Creek	PRI095	05070203	95.0	at Allen	37.60280	-82.72754	239	major tributary
*Johns Creek	PR1096	05070203	26.6	at McCombs	37.6553	-82.5870	120	inflow to Dewey Res. major
								tributary
Little Sandy								
<sup>a</sup> Little Sandy River	PRI049	05090104	13.2	at Argillite	38.49053	-82.83404	539	hydrologic unit index site
Tygarts Creek								
"Tygarts Creek	PRI048	05090103	23.5	nr Lynn	38.5997	-82.9528	265	hydrologic unit index site
Cumberland River								
Cumberland River	PRI086	05130101	661.0	at Calvin	36.72244	-83.62537	519	mid-hydrologic unit index site
Cumberland River	PRI009	05130101	563.0	at Cumberland Falls	36.83558	-84.34015	1963	hydrologic unit index site
Clear Fork	PRI087	05130101	6.0	nr Williamsburg	36.72617	-84.14224	370	major tributary
*Rockcastle River	PRI010	05130102	24.7	at Billows	37.17137	-84.29673	604	hydrologic unit index site
*Horse Lick Creek	PR1051	05130102	0.1	nr Lamero	37.32011	-84.13841	62	special interest watershed
<b>Cumberland River</b>	PRI007	05130103	423.0	nr Burkesville	36.68879	-85.56670	6244	hydrologic unit index site
Buck Creek	PRI088	05130103	12.3	nr Dykes	37.0601	-84.4264	253	major tributary
<sup>a</sup> S. Fk. Cumberland R.	PRI008	05130104	44.8	at Blue Heron	36.6703	-84.5492	964	hydrologic unit index site
*Little River	PRI043	05130205	24.4	nr Cadiz	36.84104	-87.77731	268	major tributary
Red River	PRI069	05130205	49	nr Keysburg	36.64063	-86.97961	519	hydrologic unit index site

Table 3.1.1-1 (cont.). Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs highlighted in bold type

BIU	ningnred ii	nigningnied in bold type						
River Basin & Stream	Station	HUC	Mile-	Location	Latitude	Longitude	Drainage	Station Type
			point		(pp)	(pp)	(mi <sup>2</sup> )	
Kentuck River								The state of the s
*Eagle Creek	PRI022	05100205	21.5	at Glenco	38.7061	-84.8254	437	hydrologic unit index site
Kentucky River	PRI024	05100205	64.8	at Frankfort	38.2129	-84.8721	5409	hydrologic unit index site
Kentucky River	PRI066	05100205	30.5	nr Lockport	38.4450	-84.9569	6177	hydrologic unit index site
Kentucky River	PRI067	05100205	119.0	at High Bridge	37.8201	-84.7051	4587	hydrologic unit index site
*Elkhorn Creek	PRI098	05100205	10.3	nr Peaks Mill	38.2686	-84.81429	473	major tributary
<sup>a</sup> Dix River	PRI045	05100205	34.7	nr Danville	37.64176	-84.66113	318	hydrologic unit index site
Silver Creek	PRI099	05100205	5.9	nr Ruthton	37.73251	-84.43674	1111	major tributary
Kentucky River	PRI058	05100204	171.5	nr Trapp	37.84675	-84.08182	3235	hydrologic unit index site
Red River	PRI046	05100204	21.6	Clay City	37.86468	-83.93316	362	hydrologic unit index site
N. Fork Kentucky River	PRI031	05100201	49.7	Jackson	37.55127	-83.38464	1101	hydrologic unit index site
Troublesome Creek	PRI090	05100201	7.2	nr Clayhole	37.46722	-83.27936	194	major tributary
*Middle Fk. Kentucky R.	PRI032	05100202	8.4	nr Tallega	37.55505	-83.59373	536	hydrologic unit index site
South Fork Kentucky R.	PRI033	05100203	12.1	at Booneville	37.47513	-83.67082	692	hydrologic unit index site
Red Bird River	PRI091	05100203	5.5	nr Oneida	37.23690	-83.64500	192	major tributary
Goose Creek	PRI092	05100203	3.4	nr Oneida	37.23280	-83.69103	251	major tributary
Licking River								
Licking River	PRI062	05100101	226	at West Liberty	37.91470	-83.26169	335	inflow to Cave Run Reservoir
*Slate Creek	PR1093	05100101	10.0	nr Owingsville	38.1415	-83.7285	185	major tributary
<sup>a</sup> Licking River	PR1061	05100101	78.2	at Claysville	38.52058	-84.18310	1996	mid-hydrologic unit index site
N. Fork Licking River	PRI060	05100101	6.9	nr Milford	38.58123	-84.16566	287	major tributary
<sup>a</sup> S. Fork Licking River	PRI059	05100102	11.7	at Morgan	38.6033	-84.4008	838	hydrologic unit index site
<sup>a</sup> Hinkston Creek	PR1102	05100102	0.2	at Ruddles Mill	38.30471	-84.23778	259	major tributary
*Stoner Creek	PR1101	05100102	9.0	nr Ruddles Mill	38.3029	-84.2497	283	major tributary
<sup>b</sup> Licking River	PR1111	05100101	35.5	at Butler	38.7898	-84.3674	3384	hydrologic unit index site
Licking River	PR1062	05100101	226	at West Liberty	37.91470	-83.26169	335	inflow to Cave Run Reservoir
Licking River	PRI062	05100101	226	at West Liberty	37.91470	-83.26169	335	inflow to Cave Run Reservoir
						٠		

Table 3.1.1-1 (cont.). Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs

	Stanon	HUC	Mile- point	Location	(dd)	Longitude (dd)	Drainage (mi²)	Station Lype
Ohio River Tributary  *Kinniconick Creek	PR1063	05090201	10.4	nr Tannery	38.57458	-83.18811	229	major tributary
Sait Kiver	COLUM	00107100		of Chambandanilla	27 08574	95 71720	1107	hydrologic unit index site
"Salt River	PK1029	02140102	6.77	at Snepnerusville	1.70024	-07/1/70-	1117/	my more and
"Salt River	PRI052	05140102	82.5	at Glensboro	38.00231	-85.06028	173	major reservoir inflow
Brachears Creek	PR1105	05140102	1.2	at Taylorsville	38.03040	-85.35154	262	major tributary
arional Fork	PRTIO	05140102	7.4	nr Shepherdsville	38.03447	-85.65936	259	major tributary
Floyus Fork	PRI057	05140103	12.3	nr Lebanon Jct.	37.82267	-85.74787	1374	hydrologic unit index site
*Beech Fork	PRI041	05140103	48.0	nr Maud	37.83266	-85.29610	436	major tributary
,								
Green Kiver	DPIO19	05110001	0966	at Munfordville	37.2687	-85.8853	1680	hydrologic unit index site
Green Kiver	PD1076	05110001	3340	at Neatsville	37.1919	-85.1303	339	major reservoir inflow
Green Kiver	DETO/1	05110001	80 0	at White Mills	37.55536	-86.03182	351	major reservoir inflow-tributary
Noun Kiver	PP 1077	05110001	10.0	nr Bramlett	37.16790	-85.47005	264	major tributary
Kussell Creek	PPI078	05110001	63	nr Monroe	37.2264	-85.6776	250	major tributary
Little Barren ruver	PPI075	05110001	11.8	nr Huff	37.2488	-86.3612	137	major tributary
Bear Creek	CLOIN I	05110002	10	nr Woodbury	37.17069	-86.62052	2264	hydrologic unit index site
Barren Kiver	2/01VI	05110002	0	nr Rowling Green	36.93492	-86.39227	5487	major tributary
Drakes Creek	PD 1055	05110003	72.0	at Livermore	37.47832	-87.12694	6428	hydrologic unit index site
Green Kiver	250INI	05110003	17.4	nr Gus	37.12324	-86.90042	268	major tributary
Mud Kiver	PULL	05110003	1500	nr Woodhirv	37 18242	-86.61034	3136	hydrologic unit index site
Green River	PRIIO3	05110003	6.05	nr Dundee	37 54720	-86.72139	757	mid-hydrologic unit index site
Rough Kiver	PR1014	05110004	1.0	nr I ivermore	37.49934	-87.06574	1068	hydrologic unit index site
Rough Kiver	PKI034	05110004	2.0	nr West Louisville	37.72497	-87.31513	371	major tributary
Panther Creek	PRILIS	0001100	12.4	nr Sacramento	37.44179	-87.35285	578	hydrologic unit index site

Table 3.1.1-1 (cont.). Statewide primary water quality stations with upper Cumberland – 4-Rivers and Green – Tradewater BMUs

hig	ghlighted in	highlighted in bold type.						
River Basin & Stream	Station	HUC	Mile- point	Location	Latitude (dd)	Longitude (dd)	Drainage (mi <sup>2</sup> )	Station Type
Ohio River Tributary Highland Creek	PRI110	PRI110 05140102	14.0	nr Smith Mill	37.75699	-87.79514	145	major tributary
Tradewater River	PR1112	05140205	25.0	nr Piney	37.39896	37,39896 -87,90456	618	hydrologic unit index site
Tennessee River Clarks River W. Fork Clarks River	PR1106 PR1107	06040006	17.6	nr Sharpe nr Symsonia	36.96130 36.93245	-88.49322 -88.54396	310	hydrologic unit index site major tributary
Mississippi River  a, bayou de Chien  Mayfield Creek	PRI109 PRI042	08010201	13.6	nr Cayce nr Magee Springs	36.61543	-89.03025	103	major tributary major tributary

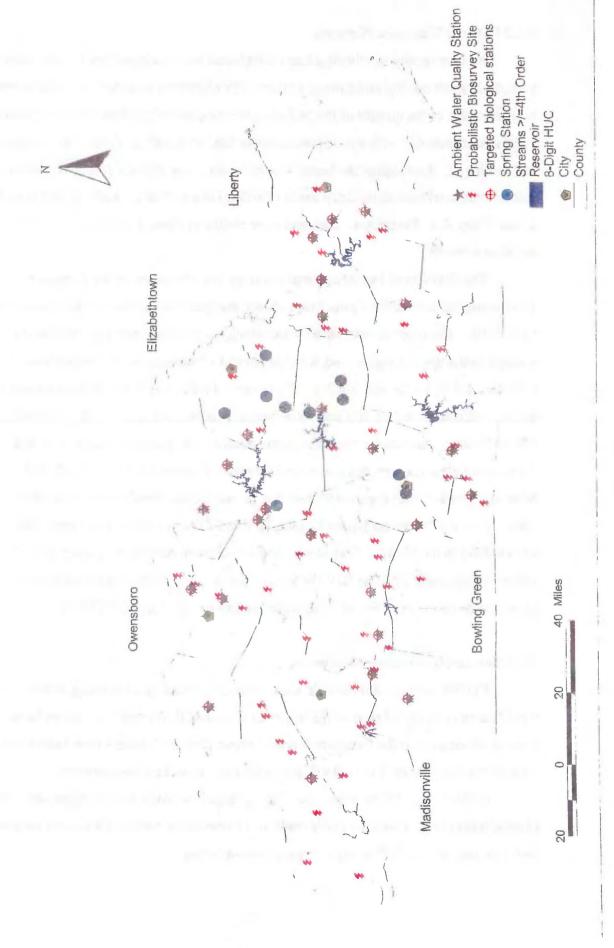
Primary Station
Streams >/=4th Order
6-Digit HUC
County Figure 3.1.1-1. Fixed (long-term) ambient surface water quality network. 80 Miles 40

Ambient Water Quality Station Probabilistic Biological Site Target Biological Sation Reservoirs\_uc.shp Streams >/=4th Order City
8-Digit HUC Harlan Figure 3.1.1-2. Targeted biological (including probabilistic sites) and ambient water quality monitoring in upper Cumberland River basin. Williamsburg 40 Miles Somerset 20 Burkesville 20

Ambient Water Quality Station Probabilistic Biological Station Lakes\_4rivers.shp Streams >/=4th Order Figure 3.1.1-3. Target biological (including probabilistic sites) and ambient water quality monitoring in 4-Rivers basin. City 8-Digit HUC Hopkinsville 40 Miles Murray Paducah 20 Hickman 2

28

Figure 3.1.1-4. Targeted biological (including probabilistic sites) and ambient water quality monitoring stations in Green - Tradewater BMU.



#### 3.1.2 Rotating Watershed Network

An interagency monitoring team established several objectives for the one-year watershed water quality monitoring stations. The objectives were to: 1) obtain an overall representation of the quality of the basin's water resources; 2) determine water quality conditions associated with major land cover or land uses such as forest, urban, agriculture and mining; 3) characterize the basin's least impacted waters; and 4) collect data for establishing total maximum daily loads (TMDLs) as required by Section 303(d) of the Clean Water Act. Parameters analyzed were similar to those described earlier for the ambient network.

The Division of Environmental Services, the laboratory of the Kentucky Environmental and Public Protection Cabinet, analyzed water quality samples collected by KDOW. The rotating watershed water quality monitoring network consisted of 16 stations in the upper Cumberland River basin and 14 stations in the 4-Rivers basin (Tables 3.1.2-1; 3.1.2-; and 3.1.2-). The Green – Tradewater BMU had 30 rotating water quality stations. Rotating stations were typically located at the downstream reaches of USGS 11-digit watersheds; however, some streams with particular issue of concern were monitored in this network for that singular reason (Figures 3.1.2-1; 3.1.2-2; and 3.1.2-3). Monthly sampling was conducted over the 12-month watershed monitoring period April 2005 – March 2006 in the Upper Cumberland and 4-Rivers BMU and April 2006 – March 2007 in the Green - Tradewater BMU to characterize water quality of each watershed represented. The KDOW follows water quality sample collection and preservation procedures found in its water quality monitoring SOP (2005).

#### 3.1.3 Swimming Advisory Monitoring

KDOW continued to sample areas with long-standing swimming advisories in three basins in 2007: 10 sites in the upper Cumberland River basin on seven streams, 18 watersheds or sites in the Northern Kentucky area (lower Licking River basin) and four sites on the North Fork Kentucky River basin from Chavies to headwaters.

In 2007 the KDOW began monitoring large reservoirs for pathogen indicator (*Escherichia coli*). This effort will result in 12 reservoirs, mostly COE dam projects, being monitored for PCR at significant recreation areas.

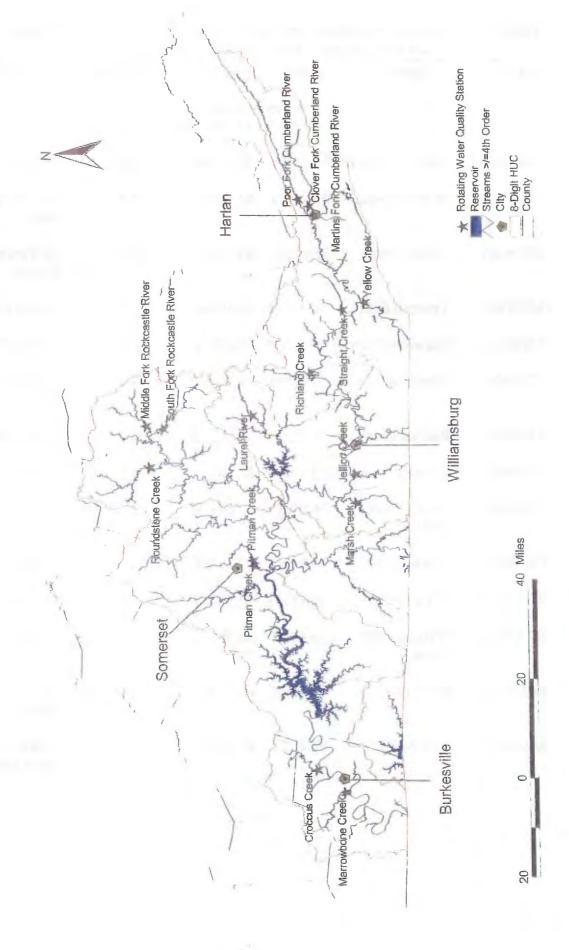
Table 3.1.2-1. Rotating watershed water quality stations.

Site ID	Stream	Latitude	Longitude	Mile Point	<b>Description</b>
	Up		erland River I — March 2000		
CRW008	Marrowbone Creek	36.78639	-85.42019	1.2	nr Leslie
CRW009	Croccus Creek	36.86561	-85.33877	2.4	nr Bakertown
CRW010	Roundstone Creek	37.33535	-84.23246	0.5	nr Livingston
CRW011	Middle Fork Rockcastle R.	37.34381	-84.08069	4.6	nr Parrot
CRW012	South Fork Rockcastle R.	37.29631	-84.09319	5.3	nr Cornette
CRW014	Laurel River	37.042	-84.04831	31.3	nr Lily
CRW015	Marsh Creek	36.74389	-84.371	7.2	nr Sand Hill
CRW016	Jellico Creek	36.74549	-84.26594	5.4	nr Duckrun
CRW017	Richland Creek	36.86901	-83.89800	1.8	nr Barbourville
CRW018	Straight Creek	36.7735	-83.66989	0.2	nr Straight Cr
CRW019	Yellow Creek	36.70981	-83.64492	1.0	nr Ponza
CRW020	Poor Fork Cumberland Riv		-83.26561	5.4	at Rosspoint
CRW021	Clover Fork Cumberland Riv	36.861 ver	-83.29181	1.9	at Golden Ash
CRW022	Martins Fork	36.84720	-83.32554	2.8	nr Harlan
CRW023	Pitman Creek	37.04573	-84.57631	5.95	at Cabin Hollow Brdg

Site ID	Stream	Latitude	Longitude	Mile Point	Description
			erland River l March 2006, o		
CRW024	Pitman Creek	37.04391	-84.59591	7.0	at Somerset STP

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Figure 3.1.2-1. Upper Cumberland River basin rotating watershed water quality stations monitored 2005-6.



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Table 3.1.2-2. Rotating watershed water quality stations in 4-Rivers (lower Cumberland, Mississippi, Ohio and Tennessee rivers) basins.

Site ID	Stream	Latitude	Longitude	Mile Point	<b>Description</b>
	(		ers Basin – March 2006	5)	
MRW001	Mayfield Creek	36.81889	-88.63039	38.6	nr Hickory
MRW002	Wilson Creek	36.93381	-88.88581	0.7	nr Cunning- ham
MRW003	Obion Creek	36.64939	-89.12261	8.7	at Whaynes Corner
MRW004	Terrapin Creek	36.50866	-88.49890	3.4	nr Bell City
ORW001	Shawnee Creek	37.01519	-89.09711	2.7	nr Wickliffe
TRW001	Cypress Creek	37.02939	-88.52219	3.1	nr Calvert City
TRW002	Panther Creek	36.80556	-88.52219	1.3	nr Hicksville
CRW001	Livingston Cr	37.14311	-88.1635	5.8	nr Dycusburg
CRW002	Muddy Fork Little River	36.91389	-87.84419	5.7	nr Cadiz
CRW003	Sinking Fork	36.84069	-87.74081	4.1	nr Cadiz
CRW004	W Fk Red R.	36.65161	-87.37769	16.1	nr Oak
CRW005	Whippoorwilll Creek	36.69690	-86.96334	4.5	nr Dot
RED001	Red River	36.67819	-86.93212	57.4	at Logan Mill Road
RED002	S Fk Red R.	36.66722	-86.89700	2.6	at Barrens Plain Road

Figure 3.1.2-2. 4-Rivers rotating water quality stations monitored 2005-6.

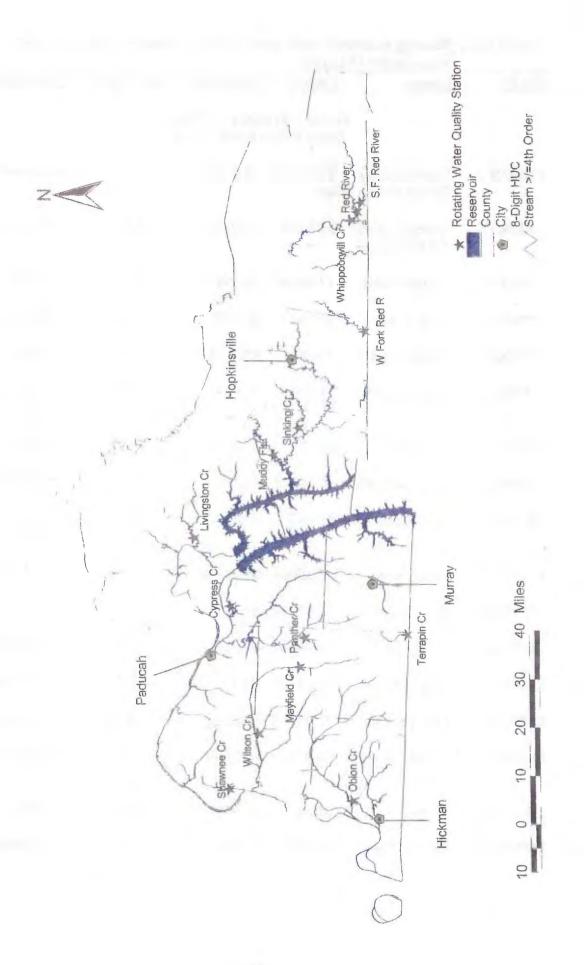


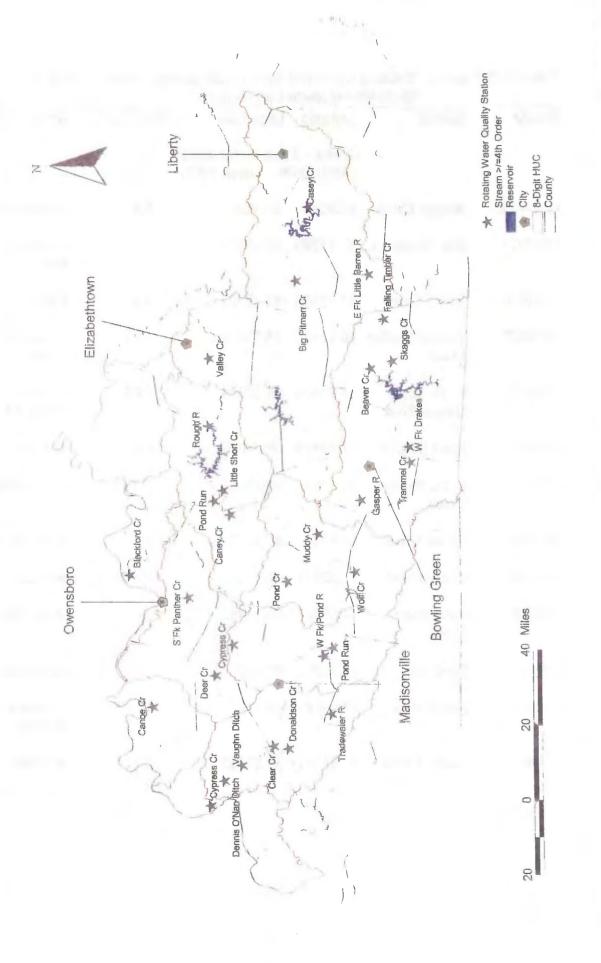
Table 3.1.2-3. Rotating watershed water quality stations, Green – Tradewater Basin Management Unit (cont.).

Site ID	Management Uni Stream	Latitude	Longitude	Mile Point	Description
	_		adewater BM – March 2007		
GRN001	Cypress Creek/ Dennis O'Nan D		-88.09751	2.1	nr Dakoven
GRN002	Relict Cypress Creek Channel	37.5304	-87.9751	2.2	nr Sturgis
GRN003	Vaughn Ditch	37.46343	-87.89834	2.3	nr Derby
GRN004	Clear Creek	37.3425	-87.8003	1.5	nr Providence
GRN005	Donaldson Cr.	37.284	-87.8103	2.3	nr Fryer
GRN006	Tradewater R.	37.123	-87.6392	104.0	nr Dawson Springs
GRN012	Deer Creek	37.573	-87.46500	3.1	Onton
GRN013	Cypress Creek	37.50908	-87.31656	3.3	nr Rumsey
GRN014	W. Fk. Pond R.	37.157	-87.3598	2.2	nr Mount Carmel
GRN017	Pond Creek	37.30068	-87.00449	1.8	nr Martwick
GRN028	Pond River	37.12222	-87.31946	60.5	nr Apex
GRN018	Wolf Lick Cr.	37.0416	-86.95414	4.2	nr Dunmore
GRN019	Muddy Creek	37.18390	-86.77307	5.2	nr Dunbar
GRN020	Gasper River	37.02207	-86.60702	12.2	nr Hadley
GRN021	W. Fk. Drakes Creek	36.83858	-86.42451	1.2	nr Boyce
GRN022	Trammel Creek	36.845	-86.3494	5.5	nr Allen Spgs
GRN023	Beaver Creek	36.9898	-85.9754	3.2	nr Glasgow

Table 3.1.2-3 (cont.). Rotating watershed water quality stations, Green – Tradewater Basin Management Unit (cont.).

Site ID	Stream	Latitude	Longitude	Mile Point	Description
			<b>Fradewater B</b> I 06 – March 200		
GRN024	Skaggs Creek	36.9073	-85.939	5.9	nr Roseville
GRN025	Big Pitman Cr.	37.27303	-85.55374	3.1	nr Greens- burg
GRN026	Casey Creek	37.22388	-85.19682	0.8	Knifely
GRN029	Falling Timber Creek	36.93916	-85.73713	11.3	nr Summer Shade
GRN030	E. Fk. Little Barren River	36.99604	-85.52349	19.6	at Mosby Ridge Rd
GRN011	Blackford Cr.	37.89885	-86.98628	3.7	nr Maceo
GRN009	S. Fk. Panther Creek	37.6794	-87.09078	1.7	nr Sutherland
GRN007	Canoe Creek	37.802	-87.6247	3.5	nr Henderson
GRN015	Caney Creek	37.52621	-88.68663	1.85	nr Olaton
GRN031	Little Short Creek	37.55447	-86.56852	0.6	at SR 736
GRN032	Pond Run	37.58713	-86.6201	2.7	nr Shreve
GRN016	Rough River	37.6098	-86.2588	129.9	at Hardin Springs
GRN027	Valley Creek	37.61141	-85.93063	2.2	nr Glendale

Figure 3.1.2-3. Green-Tradewater BMU rotating watershed water quality stations monitored 2006-7.



# 3.1.4 Biomonitoring and Biosurvey Programs

Introduction. There are four biological monitoring programs within KDOW. Those programs have the same primary purpose of assessing the aquatic life use support of streams in the commonwealth. Although each program is driven by broad objectives, together they provide a comprehensive program that addresses aquatic life use attainment from several approaches: 1) random, overall snapshot of the ambient conditions; 2) the integration of conditions in relatively large watersheds monitored for long-term trend evaluation; 3) impact assessments related to nonpoint source pollution; 4) impact assessments related to point source pollution; and 5) a regional reference program to assess least impacted streams for development and refinement of metric benchmarks used to assess lotic ecosystems.

Reference Reach Program. In 1991, KDOW began a Reference Reach (RR) program to gather data from the state's least impacted streams. Biologists first identified potential least impacted waters representative of Level-III Ecoregions. Then, data on physicochemical water quality, sediment quality, fish tissue residue, habitat condition, and biotic conditions were collected to define the potential environmental quality for the streams of a particular ecoregion; this to provide a baseline to compare other streams in the same ecoregion to those reference conditions. Data from the reference reach program provided the basis for the development of narrative and numerical biocriteria for the various ecoregions of the commonwealth; results indicated multimetric indices could be developed resulting in four bioregions. Fifty-five stream sites from seven Level-III Ecoregions were initially sampled in the spring and fall of 1992-1993. Since that time, many additional potential reference reach streams were sampled. Some were adopted as reference reach streams; others were rejected because they did not possess adequate quality to represent least impacted condition. Currently, 150 RR streams totaling approximately 1,102 miles are identified throughout the commonwealth (Table 3.1.4-1). Forty-four (141.7 miles) candidate exceptional or reference reach streams, or segments, are proposed for inclusion in 401 KAR 5:030 during the triennial review submission, 2008 (Table 3.1.4-2).

Table 3.1.4-1. Reference reach streams in Kentucky with those in bold to emphasize streams in the upper Cumberland – 4-Rivers and Green – Tradewater BMUs.

C.	-			Start	End	Total
Stream	County	Location	Basin	Segment	Segment	Miles
Hobbs Fork	Martin	Mouth to headwaters	Big Sandy	3.8	0.0	3.8
Hobbs Fork, UT	Martin	Hobbs Fork to headwaters	Big Sandy	0.55	0.0	0.55
Lower Pigeon Branch	Pike	Left Fork to headwaters	Big Sandy	1.7	0.5	1.2
Russell Fork	Pike	Clinch Field RR Yd off SR 80 to Kentucky – Virginia state line	Big Sandy	16.0	14.4	1.6
Toms Branch	Pike	Mouth to headwaters	Big Sandy	1.4	0.1	1.3
Cane Creek	Whitley	0.1 mi below Daylight Branch	Upper Cumberland	11.5	7.0	4.5
Bark Camp Creek	Whitley	U.S. Forest Service Rd 193 bridge	Upper Cumberland	7.6	2.6	5
Bad Branch	Letcher	0.2 mi above KY 932 bridge	Upper Cumberland	3.0	0.0	3
Beaver Creek	McCreary	Mouth to Freeman and Middle forks	Upper Cumberland	6.5	0.0	6.5
Brownies Creek	Bell, Harlan	Blacksnake Branch to headwaters	Upper Cumberland	16.0	9.0	7.0
Brushy Creek	Pulaski	Mouth to headwaters	Upper Cumberland	16.0	0.0	16.0
Buck Creek	Pulaski	Off Bud Rainey Rd	Upper Cumberland	62.6	28.9	33.7
Bunches Creek	Whitley	Mouth to headwaters	Upper Cumberland		0.0	3.3
Cogur Fork	McCreary	Mouth to headwaters	Upper Cumberland	7.9	0.0	7.9
Dog Slaughter Creek	Whitley	Mouth to North and South forks	Upper Cumberland	1.1	0.0	1.1
Eagle Creek	McCreary	KY 896 bridge	Upper Cumberland	6.3	3	3.3
Fugitt Creek	Harlan	Land use change to headwaters	Upper Cumberland	4.9	0.5	4.4
South Fork Dog Slaughter Creek	Whitley	1000 ft above foot bridge (Dog Slaughter Falls Trail)	Upper Cumberland	4.6	0.0	4.6
Marsh Creek	McCreary	Laurel Creek to headwaters	Upper Cumberland	26.2	8.6	17.8
Horse Lick Creek	Jackson	Mouth to Clover Bottom	Upper Cumberland	12.3	0.0	12.3
Indian Creek	McCreary	Laurel Fork to Barren Fork	Upper Cumberland	6.7	2.3	4.4
Howards Creek	Clinton	Dale Hollow Lake backwaters to headwaters	Upper Cumberland	3.4	0.8	2.6
Jackie Branch	Whitley	Mouth to headwaters	Upper Cumberland	1.7	0.0	1.7
Laurel Fork of Clear Fork	Whitley	Tennessee state line to Tiny Branch/Pine Creek	Upper Cumberland	13.0	4.2	8.8
Laurel Fork of Middle Fork Rockcastle River	Jackson	Mouth to headwaters	Upper Cumberland	12.2	0.0	12.2
Little South Fork Cumberland River	McCreary/ Wayne	River mile 35.5 to river mile 14.5	Upper Cumberland	14.5	4.1	10.4
Little South Fork Cumberland River	McCreary/ Wayne	Mouth to Lanham Branch	Upper Cumberland	35.6	0.0	35.6

	The state of the s	er Cumberland - 4-Rivers and	GICCH II	ude water	DIVICS.	
<b>S</b> .				Start	End	Total
Stream	County	Location	<u>Basin</u>	Segment	Segment	Mile
Middle Fork Rockcastle River	Jackson	Mouth to Horselick Creek	Upper Cumberland	7.8	0.0	7.8
Mud Camp Creek	Monroe/ Cumberland	UT to headwaters	Upper Cumberland	8.4	3.7	4.7
Mud Camp Creek	Cumberland	Mouth to Collins Branch	Upper Cumberland	1.3	0.0	1.3
Poor Fork Cumberland River	Letcher	Franks Creek to headwaters	Upper Cumberland	51.7	46.1	5.6
Presley House Branch	Letcher	Mouth to headwaters	Upper Cumberland	1.5	0.0	1.5
Puncheoncamp Branch	McCreary	Mouth to headwaters	Upper Cumberland	1.9	0/0	1.9
Rock Creek	McCreary	Kentucky – Tennessee state line (river mile 21.9 to White Oak Cr.	Upper Cumberland	21.5	3.9	17.8
Rock Creek, unidentified tributary	McCreary	Mouth to headwaters	Upper Cumberland	1.9	0.0	1.9
Rock Creek, unidentified tributary	McCreary	Mouth to headwaters	Upper Cumberland	1.15	0.0	1.15
Shilalah Creek	Bell	River mile 5.5 to Clear Fork Yellow Creek		5.5	0.0	5.5
Sinking Creek	Laurel	Mouth to White Oak Creek	Upper Cumberland	9.8	0.0	9.8
South Fork Dog Slaughter Creek	Whitley	Basin to Dog Slaughter Creek	Upper Cumberland	4.6	0.0	4.6
Sulphur Creek	Clinton	Dale Hollow Lake backwaters to headwaters	Upper Cumberland	5.1	1.7	3.4
Watts Branch	McCreary	Mouth to headwaters	Upper Cumberland	2.6	0.0	2.6
Watts Creek	Harlan	Basin above Camp Blanton Lake (river mile 4.3) to river mile 2.2	Upper Cumberland	4.3	2.2	2.1
Beaverdam Creek	Edmonson	KY 101-259 bridge	Green	14.0	7.6	6.4
Cane Run	Hart	River mile 6.5 to river mile 1.0	Green	6.5	1.0	5.5
Trammel Fork	Allen	Mouth to KY - TN state line	Green	30.15	0.0	30.15
ick Creek	Simpson	Mouth to headwaters	Green	9.9	0.0	9.9
eter Creek	Barren	Candy Fork to Dry Fork	Green	18.5	11.6	7.9
Caney Fork	Barren	Source to river mile 0.85	Green	6.6	0.0	6.6
Clifty Creek	Todd	Little Clifty Creek to Sulphur Lick	Green	13.2	7.7	5.5
Clifty Creek	Grayson	Barton Runt to Western KY Pkwy	Green	17.2	7.3	9.9
. Fork Little Barren River	Metcalfe	Red Lick Creek to Flat Lick Creek	Green	20.2	19/0	1.2
lk Lick C						
alling Timber Creek	Metcalfe	Land use change to headwaters	Green	15.5	7.0	8.5
iddlers Creek	Breckinridge	Mouth to headwaters	Green	5.8	0.0	5.8
orbes Creek	Christian	Mouth to UT	Green	3.9	0.0	3.9
asper River	Logan	Clear Fork to Wiggington Creek	Green	35.2	17.0	18.2
oose Creek	Casey, Russell	Mouth to Little Goose Creek	Green	8.1	0.0	8.1
reen River, UT	Adair	Land use change to headwaters	Green	3.2	0.8	2.4
alls Creek	Ohio	UT to headwaters	Green	12.1	9.6	2.5
inders Creek	Hardin	Mouth to Sutzer Creek	Green	7.7	0.0	7.7
ittle Short Creek	Grayson	Mouth to headwaters	Green	3.0	0.0	3.0

Table 3.1.4-1 (cont.). Reference reach streams in Kentucky with those in bold to emphasize those in streams upper Cumberland – 4-Rivers and Green – Tradewater BMUs

				Start	End	Total
Stream	County	Location	<b>Basin</b>	Segment	Segment	Miles
Lynn Camp Creek	Hart	Mouth to Lindy Creek	Green	8.3	0.0	8.3
McFarland Creek	Christian, Hopkins	Grays Branch to UT	Green	4.8	1.4	3.4
Meeting Creek	Hardin	Little Meeting Cr to Petty Branch	Green	13.8	5.2	8.3
Muddy Creek	Ohio	Land use change to headwaters	Green	15.5	13.0	2.5
North Fork Rough River	Breckinridge	Buffalo Creek to Reservoir dam	Green	28.1	23.44	4.66
Pond Run	Breckinridge,	Lane use change to headwaters	Green	6.8	1.4	5.4
Rough River	Hardin	Linders Creek to Vertrees Creek	Green	147.8	136.9	10.9
Russell Creek	Adair, Russell	Mouth to headwaters	Green	68.1	0.0	68.1
Sixes Creek	Ohio	Wild Branch to headwaters	Green	7.5	2.0	5.5
Sulphur Branch	Edmonson	Mouth to headwaters	Green	2.0	0.0	2.0
					12.7	9.8
W. Fork Pond River	Christian	UT to East Branch Pond River	Green	22.5		
UT, White Oak Creek	Adair	Hovious Road Crossing to SR 76	Green	3.0	0.4	2.6
Goose Creek	Casey	Off Brock Rd	Green	14.6	5.6	9.0
Drennon Creek	Henry	Flat Bottom Rd crossing	Kentucky	10.5	11.9	1.4
Indian Creek	Carroll	Hwy 36 bridge	Kentucky	0.55	4.7	4.15
Musselman Creek	Grant	Lawrenceville – Keefer Rd bridge	Kentucky	2.6	8.4	5.8
Clear Creek	Woodford	Hifner Rd bridge, 2.1 mi S of	Kentucky	4.1	19.0	14.9
Station Camp Creek	Estill	Mortonsville Off KY Hwy 1209 at Estill-Jackson County boundary	Kentucky	19.0	22.3	3.3
South Fork Station Camp Creek	Jackson	KY 89 bridge	Kentucky	5.3	48.6	43.3
Sturgeon Creek	Lee	Off Sturgeon Creek Rd	Kentucky	4.0	31.1	27.3
Sulphur Creek	Franklin	Mouth to headwaters	Kentucky	0.0	5.2	5.2
Gladie Creek	Menifee	0.2 mi upstream of bridge	Kentucky	0.0	8.4	8.4
East Fork Indian Creek	Menifee	1 mi upstream of West Fork Indian Cr	Kentucky	0.0	8.5	8.5
Wolfpen Branch	Menifee	at SR 715 bridge	Kentucky	0.0	3.3	3.3
Right Fork Buffalo Creek	Owsley	Off Whoopflarea Rd	Kentucky	0.0	11.2	11.2
Buffalo Creek	Owsley	Side road along mainstem	Kentucky	0.8	12.8	12.0
Coles Fork	Breathitt	in Robinson Forest	Kentucky	0.0	5.5	5.5
Craig Creek	Leslie	Mouth to UT	Kentucky	0.0	2.7	2.7
Elisha Creek	Leslie	Elisha Creek Road	Kentucky	0.95	3.3	2.35
Line Fork Creek	Letcher	off KY 160	Kentucky	17.3	27.5	10.2
Rock Lick Creek	Jackson	Mouth to headwaters	Kentucky	0.0	9.6	9.6
Blackwater Creek	Morgan	Eaton Creek to Greasy Creek	Licking	3.8	11.4	7.6
Brushy Fork	Pendleton	Mouth to headwaters	Licking	0.0	5.7	5.7
North Fork Licking River	Morgan	Cave Run L. backwaters to Devils Fk	Licking	14.2	9.9	4.3
Bucket Branch	Morgan	Leisure – Paragon Rd bridge	Licking	0.0	1.9	1.9
Devils Fork	Morgan	KY 711 bridge	Licking	0.0	7.8	7.8
Grovers Creek	Pendleton	Kincaid L. backwaters to UT	Licking	3.4	0.5	
Big Sinking Creek	Carter	KY 986 bridge	Little Sandy		0.0	4.5
Arabs Fork	Elliott	KY 1620 bridge	Little Sandy			
Big Caney Creek	Elliott	Grayson L. backwaters to headwaters	Little Sandy		0.0	14.9
Big Sinking Creek	Carter, Elliott	SR 986 to Clay and Arab forks	Little Sandy		10.7	4.5
Laurel Creek	Elliott	Carter School Rd Bridge	Little Sandy	14.4	7.6	6.8

Meadow Branch	S.				Start	End	Total
Middle Fork Little Sandy R.   Elliott   Mouth to Sheepskin Branch   Little Sandy   3.5   0.0   3.5	Stream	County	Location	<u>Basin</u>	Segment	Segment	Miles
Nichols Creek			Mouth to headwaters	Little Sandy	1.4	0.0	1.4
Jackson Creek   Graves   Basin   Mississippi   2.6   0.0   2.7	Middle Fork Little Sandy R.	Elliott	Mouth to Sheepskin Branch	Little Sandy	3.6	0.0	3.6
Obion Creek	Nichols Creek	Elliott	Green Branch to headwaters	Little Sandy	1.9	0.0	1.9
Dolion Creek   Hickman   Hurricane Creek to Little Creek   Mississippi   35.5   25.2   10	Jackson Creek	Graves	Basin	Mississippi	2.6	0.0	2.6
Big Sugar Creek	Obion Creek	Hickman	Hurricane Creek to Little Creek		35.5	25.2	10.3
Corn Creek, UT	Big Sugar Creek	Gallatin	I-71 to headwaters				3.6
Crooked Creek	Corn Creek, UT	Trimble	Mouth to headwaters				2.0
Double Lick Creek	Crooked Creek	Crittenden					8.1
Garrison Creek   Boone   Mouth to headwaters   Ohio   4.1   0.0   4.	Double Lick Creek		-				1.4
Miniconick Creek   Lewis   McDowell Creek to headwaters   Ohio   50.4   5.1   45							
Massac Creek   McCracken   Mouth to headwaters   Ohio   1.7   0.0   1.7	Kinniconick Creek						
Middle Fork Massac Creek   McCracken   Hines Road to headwaters   Ohio   6.2   3.15   3.0				7,017			
Second Creek  Boone Private road crossing to headwaters W. Fork Massac Creek McCracken River mile 5.4 to river mile 3.2 Ohio 5.4 3.2 2. Yellowbank Creek Breckinridge Ohio River backwaters to headwaters Ohio 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 1.4 10 11.4 11.4							
M. Fork Massac Creek W. Fork Massac Creek W. Fork Massac Creek McCracken Breckinridge Ohio River mile 3.2 Ohio 5.4 3.2 2. Ohio 11.4 1.4 10 Ohio 11.4 11.4 10 11.4 11.4 10 Ohio 11.4 11.4 10 11.4 11.4 10 11.4 11.4 10 11.4 11.4							3.05
Yellowbank Creek  Breckinridge Art-Manning Crossing Rd Wildlife Management Area  Grindstone Creek Calloway Mouth to headwaters  Panther Creek Marshall Mouth to headwaters Mouth to headwaters  Frace Creek Graves Mouth to Neadwaters Mouth to Neadwa			headwaters				2.4
Pellowbank Creek				Ohio	5.4	3.2	2.2
Wildlife Management Area  Wildlife Management Area  Wildlife Management Area  Mouth to headwaters  Tennessee  2.3  0.0  2.5  Calloway  Marshall  HWY 58 bridge  Tennessee  Tennessee  Calloway  Mouth to headwaters  Tennessee  Calloway  Mouth to headwaters  Tennessee  Calloway  Mouth to South Fork Soldier Cr.  Tennessee  Calloway  W. Fork Clarks River  Graves  Mouth to Neely Branch  Tennessee  Calloway  Wildcat Creek  Calloway  Wildcat Creek  Calloway  Mouth to Neely Branch  Tennessee  Calloway  Ralph Wright Road crossing to headwaters  Tennessee  Calloway  Grubbs Lane bridge; O.75 mi E of State Line Rd  Cast Fork Flynn Fork  Caldwell  Land use change to headwaters  Tradewater  Tradewater  Tradewater  Tradewater  Caldwell  Land use change to headwaters  Tradewater  T		Breckinridge		Ohio	11.4	1.4	10.0
Soldier Creek Marshall HWY 58 bridge Tennessee 5.3 2.6 2.  Panther Creek Calloway KY 280 bridge Tennessee 6.0 0.0 6.1  Panther Creek Calloway KY 280 bridge Tennessee 6.0 0.0 5.1  Panther Creek Calloway KY 280 bridge Tennessee 6.0 0.0 5.1  Brace Creek Marshall Mouth to South Fork Soldier Cr. Tennessee 5.3 0.0 5.1  Would to South Fork Soldier Cr. Tennessee 5.3 0.0 5.1  Would to Soldier Creek to Duncan Creek Tennessee 3.0 0.0 3.1  Would Carks River Graves Mouth to Neely Branch Tennessee 3.0 0.0 3.1  Wildcat Creek Calloway Ralph Wright Road crossing to headwaters  Blood River Calloway Grubbs Lane bridge; O.75 mi E of State Line Rd  Cast Fork Flynn Fork Caldwell Land use change to headwaters Tradewater 4.6 2.5 2.  Caldwell Land use change to headwaters Tradewater 10.2 4.5 5.  Piney Creek, UT Caldwell Mouth to headwaters Tradewater 0.0 2.9 2.  Pradewater River Christian, Hopkins Lake dam  Camp Creek to headwaters Tradewater 131.1 123.2 7.  Candlick Creek Bullitt Mouth to headwaters Tradewater 9.0 4.9 4.  Candlick Creek, UT Christian Mouth to headwaters Tradewater 1.4 0.0 1.  Cand Creek Bullitt Mouth to Greens Branch Salt 5.1 0.0 5.  Caldar Creek Bullitt Mouth to Greens Branch Salt 5.1 0.0 5.  Caldar Creek Bullitt Mouth to headwaters Salt 2.3 0.0 2.  Caltrick Marion Mouth to headwaters Salt 2.3 0.0 2.  Caltrick Marion Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  Catter Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  Catter Creek Larue 0.1 mi below West Fork, Herbert-Howell Rd  Care Creek Larue Carlowell Rd  Carloway KY 280 bridge Tennessee 6.0 0.0 0.0 5.  Caldwell Carloway Brunds Tennessee 3.0 0.0 2.  Calloway Brunds Tennessee 5.3 0.0 0.0 5.  Calloway Brunds Tennessee 5.3 0.0 0.0 5.  Calloway Brunds Tennessee 5.3 0.0 0.0 5.  Calloway Brunds Tennessee 6.7 Tradewater 4.6 0.0 1.  Calloway Brunds Tennessee 6.7 1.5 1.  Calloway Brunds Tennessee 6.7 1.5 1.  Calloway Brunds Tennessee 1.5 1.  Calloway		Breckinridge		Ohio	11.9	4.4	7.5
Panther Creek Calloway KY 280 bridge Tennessee 6.0 0.0 6.6 Panther Creek Calloway KY 280 bridge Tennessee 6.0 0.0 6.6 Panther Creek Marshall Mouth to South Fork Soldier Cr. Tennessee 2.1 0.0 2.  Soldier Creek Graves Mouth to South Fork Soldier Cr. Tennessee 5.3 0.0 5.  Frace Creek Graves Mouth to Neely Branch Tennessee 3.0 0.0 3.  W. Fork Clarks River Graves/ Soldier Creek to Duncan Creek Tennessee 2.2.7 19.7 3.  Wildcat Creek Calloway Ralph Wright Road crossing to headwaters Tennessee 6.7 3.5 3.  Slood River Calloway Grubbs Lane bridge; 0.75 mi E of State Line Rd Caldwell Land use change to headwaters Tradewater 4.6 2.5 2.  Finey Creek Caldwell Land use change to headwaters Tradewater 10.2 4.5 5.  Finey Creek, UT Caldwell Mouth to headwaters Tradewater 0.0 2.9 2.  Fradewater River Christian, Dripping Springs Br to Buntin Tradewater 131.1 123.2 7.  Fradewater River Christian Camp Creek to headwaters Tradewater 9.0 4.9 4.  andlick Creek Bullitt Mouth to Greens Branch Salt 5.1 0.0 5.  fanglin River Washington Thompson Creek to Cornishville Salt 53.7 40.1 13.  harts Run Bullitt Mouth to headwaters Salt 2.3 0.0 2.  falt Lick Creek Marion Mouth to headwaters Salt 8.4 0.0 8.  ulphur Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  titter Creek Larue 0.1 mi below West Fork, Herbert-Howell Rd	Grindstone Creek	Calloway	Mouth to headwaters	Tennessee	2.3	0.0	2.3
Panther Creek, UT Graves Mouth to headwaters Tennessee 2.1 0.0 2.  Foldier Creek Marshall Mouth to South Fork Soldier Cr. Tennessee 5.3 0.0 5.  Frace Creek Graves Mouth to Neely Branch Tennessee 3.0 0.0 3.  W. Fork Clarks River Graves/ Marshall  Wildcat Creek Calloway Ralph Wright Road crossing to headwaters  Foldier Creek Calloway Grubbs Lane bridge; 0.75 mi E of State Line Rd  Land use change to headwaters Tradewater 4.6 2.5 2.  Finey Creek Caldwell Land use change to headwaters Tradewater 10.2 4.5 5.  Finey Creek, UT Caldwell Mouth to headwaters Tradewater 10.2 4.5 5.  Fradewater River Christian, Hopkins Lake dam  andlick Creek Christian Camp Creek to headwaters Tradewater 131.1 123.2 7.  East Fork, UT Christian Mouth to headwaters Tradewater 1.4 0.0 1.  Camp Creek to headwaters Tradewater 1.4 0.0 1.  Camp Creek to headwaters Tradewater 1.4 0.0 1.  Camp Creek to headwaters Salt 53.7 40.1 13.  Cartier Creek Bullitt Mouth to Greens Branch Salt 53.7 40.1 13.  Cartier Creek Bullitt Mouth to headwaters Salt 2.3 0.0 2.  Anderson Mouth to headwaters Salt 8.4 0.0 8.  Calloway Graves Mouth to Creese Lick and Brush Cr Salt 9.7 0.0 9.  Cartier Creek Larue 0.1 mis below West Fork, Herbert-Howell Rd	Soldier Creek	Marshall	HWY 58 bridge	Tennessee	5.3	2.6	2.7
Panther Creek, UT Soldier Creek Marshall Mouth to South Fork Soldier Cr. Tennessee Soldier Creek Graves Mouth to Neely Branch Tennessee Mouth to Neely Branch Tennessee Tennessee Mouth to Neely Branch Tennessee Tennes	Panther Creek	Calloway	KY 280 bridge	Tennessee	6.0	0.0	6.0
Mouth to South Fork Soldier Cr.   Tennessee   5.3   0.0   5.5	Panther Creek, UT	Graves					2.1
W. Fork Clarks River  Graves/ Marshall  Calloway  Ralph Wright Road crossing to headwaters  Calloway  Grubbs Lane bridge; O.75 mi E of State Line Rd  Cast Fork Flynn Fork  Caldwell  Land use change to headwaters  Tradewater  Caldwell  Land use change to headwaters  Tradewater  Tradewater  Caldwell  Land use change to headwaters  Tradewater  Tradewater  Tradewater  Tradewater  10.2  4.5  5.  Cradewater River  Christian, Hopkins  Andlick Creek  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  Tradewater  131.1  123.2  7.  Candlick Creek  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  Tradewater  10.0  2.9  2.0  Tradewater  Tradewater  131.1  123.2  7.  Candlick Creek  Christian  Mouth to headwaters  Tradewater  Tradewater  Tradewater  Tradewater  1.4  0.0  1.  Cedar Creek  Bullitt  Mouth to Greens Branch  Changlin River  Washington  Thompson Creek to Cornishville  Salt  5.1  0.0  5.  Tradewater  1.4  0.0  1.  Tradewate		Marshall	Mouth to South Fork Soldier Cr.	Tennessee	5.3	0.0	5.3
Marshall  Wildcat Creek  Calloway  Ralph Wright Road crossing to headwaters  Grubbs Lane bridge; O.75 mi E of State Line Rd  Cast Fork Flynn Fork  Caldwell  Land use change to headwaters  Tradewater  Caldwell  L. Beshear backwaters to headwater 10.2 4.5 5.  Lane Water  Caldwell  Mouth to headwaters  Tradewater  Tradewater  Christian, Hopkins  Camp Creek to headwaters  Tradewater  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  131.1 123.2 7.  Candlick Creek  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  1.4 0.0 1.  Cedar Creek  Bullitt  Mouth to headwaters  Tradewater  Tradewater  Tradewater  1.4 0.0 1.  Cedar Creek  Bullitt  Mouth to Greens Branch  Salt  Salt			Mouth to Neely Branch		3.0	0.0	3.0
headwaters  Grubbs Lane bridge; O.75 mi E of State Line Rd State Line Rd Land use change to headwaters Tradewater 4.6 2.5 2. Last Fork Flynn Fork Caldwell Land use change to headwaters Tradewater 10.2 4.5 5. headwaters Tradewater River Caldwell Mouth to headwaters Tradewater River Christian, Hopkins Andlick Creek Christian Camp Creek to headwaters Tradewater 9.0 4.9 4.  Gedar Creek Bullitt Mouth to headwaters Tradewater 1.4 0.0 1. Sedar Creek Bullitt Mouth to Greens Branch Chaplin River Washington Washington Thompson Creek to Cornishville Salt 53.7 40.1 13 Carts Run Washington Wouth to headwaters Washington Wilson Creek Bullitt Mouth to headwaters Salt 2.3 0.0 2. Washington Wilson Creek Bullitt Mouth to headwaters Salt 8.4 0.0 8. Salt Lick Creek Marion Mouth to headwaters Salt 8.4 0.0 8. Salt Creek Chaple Creek Chaple Creek Marion Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9. Salt Creek Chaple Cree			Soldier Creek to Duncan Creek	Tennessee	22.7	19.7	3.0
State Line Rd  Cast Fork Flynn Fork  Caldwell  Land use change to headwaters  Tradewater  Tradewater  10.2  4.5  5.  Caldwell  L. Beshear backwaters to headwaters  Tradewater  Caldwell  Mouth to headwaters  Tradewater  Christian, Hopkins  Lake dam  Camp Creek to headwaters  Tradewater  Christian  Camp Creek to headwaters  Tradewater  Tradewater  131.1  123.2  7.  Candlick Creek  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  1.4  0.0  1.  Cedar Creek  Bullitt  Mouth to Greens Branch  Chaplin River  Washington  Thompson Creek to Cornishville  Salt  Sa	Wildcat Creek	Calloway		Tennessee	6.7	3.5	3.2
Piney Creek  Caldwell  L. Beshear backwaters to headwaters  Piney Creek, UT  Caldwell  Mouth to headwaters  Tradewater  Christian, Hopkins  Camp Creek to headwaters  Tradewater  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  131.1  123.2  7.  Candlick Creek  Christian  Camp Creek to headwaters  Tradewater  Tradewater  Tradewater  1.4  0.0  1.  Cedar Creek  Bullitt  Mouth to Greens Branch  Chaplin River  Washington  Thompson Creek to Cornishville  Salt  Sal	Blood River	Calloway		Tennessee	15.65	12.2	3.45
headwaters Piney Creek, UT Caldwell Mouth to headwaters Tradewater Christian, Hopkins Lake dam Camp Creek to headwaters Tradewater Christian Camp Creek to headwaters Tradewater Tradewater 131.1 123.2 7. Lake dam Camp Creek to headwaters Tradewater Tradewater 1.4 0.0 1. Cedar Creek Bullitt Mouth to Greens Branch Chaplin River Washington Washington Wouth to headwaters Tradewater Trade	East Fork Flynn Fork	Caldwell	Land use change to headwaters	Tradewater	4.6	2.5	2.1
Cradewater River  Christian, Hopkins  Lake dam  Camp Creek to headwaters  Tradewater  Christian  Camp Creek to headwaters  Tradewater  Tradewater  1.4  1.4  1.0.0  1.6  Cedar Creek  Bullitt  Mouth to headwaters  Tradewater  Salt  Salt	Piney Creek	Caldwell		Tradewater			5.7
Hopkins Lake dam  andlick Creek Christian Camp Creek to headwaters Tradewater 9.0 4.9 4.  andlick Creek, UT Christian Mouth to headwaters Tradewater 1.4 0.0 1.  Cedar Creek Bullitt Mouth to Greens Branch Salt 5.1 0.0 5.  Chaplin River Washington Thompson Creek to Cornishville Salt 53.7 40.1 13  farts Run Bullitt Mouth to headwaters Salt 2.3 0.0 2.  Vilson Creek Bullitt M. Carmel Church Rd, first crossing Salt 17 12.2 4.  alt Lick Creek Marion Mouth to headwaters Salt 8.4 0.0 8.  ulphur Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  tter Creek Larue 0.1 mi below West Fork, Herbert-Howell Rd				Tradewater	0.0	2.9	2.9
andlick Creek, UT  Christian  Mouth to headwaters  Tradewater  1.4  0.0  1.  Cedar Creek  Bullitt  Mouth to Greens Branch  Chaplin River  Washington  Thompson Creek to Cornishville  Salt  Salt		Hopkins		Tradewater	131.1	123.2	7.9
Redar Creek Bullitt Mouth to Greens Branch Salt 5.1 0.0 5.  Chaplin River Washington Thompson Creek to Cornishville Salt 53.7 40.1 13  Iarts Run Bullitt Mouth to headwaters Salt 2.3 0.0 2.  Vilson Creek Bullitt Mt. Carmel Church Rd, first crossing Salt 17 12.2 4.  Ialt Lick Creek Marion Mouth to headwaters Salt 8.4 0.0 8.  ulphur Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  Itter Creek Larue 0.1 mi below West Fork, Herbert-Howell Rd	andlick Creek	Christian	Camp Creek to headwaters	Tradewater	9.0	4.9	4.1
Chaplin River Washington Thompson Creek to Cornishville Salt 53.7 40.1 13  Identify Run Bullitt Mouth to headwaters Salt 2.3 0.0 2.  Vilson Creek Bullitt Mt. Carmel Church Rd, first crossing Salt 17 12.2 4.  Identify Run Bullitt Mouth to headwaters Salt 2.3 0.0 2.  Washington Thompson Creek to Cornishville Salt 2.3 0.0 2.  Identify Run Bullitt Mouth to headwaters Salt 17 12.2 4.  Identify Run Bullitt Mouth to headwaters Salt 18 12.3 12.3 12.2 12.3 12.2 12.3 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.3 12.2 12.2				Tradewater	1.4	0.0	1.4
Marts Run  Bullitt  Mouth to headwaters  Vilson Creek  Bullitt  Mt. Carmel Church Rd, first crossing  Salt  17  12.2  4.  Marion  Mouth to headwaters  Salt  Salt  17  12.2  4.  Marion  Mouth to headwaters  Salt  Salt  8.4  0.0  8.  ulphur Creek  Anderson  Mouth to Cheese Lick and Brush Cr  Salt  9.7  0.0  9.  tter Creek  Larue  0.1 mi below West Fork, Herbert-  Howell Rd				Salt		0.0	5.1
Vilson Creek Bullitt Mt. Carmel Church Rd, first crossing Salt 17 12.2 4.  alt Lick Creek Marion Mouth to headwaters Salt 8.4 0.0 8.  ulphur Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  tter Creek Larue 0.1 mi below West Fork, Herbert-Howell Rd				Salt			13.6
alt Lick Creek Marion Mouth to headwaters Salt 8.4 0.0 8.  ulphur Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9.  tter Creek Larue 0.1 mi below West Fork, Herbert-Howell Rd							2.3
ulphur Creek Anderson Mouth to Cheese Lick and Brush Cr Salt 9.7 0.0 9. tter Creek Larue 0.1 mi below West Fork, Herbert- Salt 2.7 1.7 1. Howell Rd							4.8
tter Creek Larue 0.1 mi below West Fork, Herbert- Salt 2.7 1.7 1. Howell Rd							8.4
Howell Rd							9.7
veralls Creek Bullitt Mouth to headwaters Salt 13 00 1			Howell Rd		2.7	1.7	1.0
Vest Fork Otter Creek Larue Mouth to headwaters Salt 4.7 0.0 4.		Bullitt	Mouth to headwaters	Salt	1.3	0.0	1.3

Wilson Creek	Bullitt, Nelso	n Mouth to headwaters	Salt	17.0	0.0	17.0
Table 3.1.4-1 (cont.)	). Reference re	each streams in Kentucky witl	n those in bo	ld to emp	hasize the	ose in
	streams upp	per Cumberland - 4-Rivers and	d Green - Ti	radewater	BMUs	
				Start	End	Total
Stream	County	Location	Basin	Segment	Segment	Miles
Crooked Creek	Trigg	Lake Barkley backwaters to headwaters	Lower Cumberland	9.4	4.0	5.4
Donaldson Creek	Trigg	Craig Branch to UT	Lower Cumberland	10.3	6.9	3.4
Elk Fork	Todd	Kentucky – Kentucky stateline to Dry Branch	Lower Cumberland	9.8	7.5	2.3
Sugar Creek	Livingston	Lick Creek to UT	Lower Cumberland	6.7	2.1	4.6
West Fork Red River	Christian	Carter Rd bridge	Lower Cumberland	26.5	16.3	10.2
Whippoorwill Creek	Logan	Mouth to Vicks Branch	Lower Cumberland	13.0	0.0	13.0

<sup>&</sup>lt;sup>a</sup>Candidate stream or segment included in the 2008 triennial review package

Watershed Biological Monitoring Program (WBMP). The WBMP monitored streams in a fixed-station network so long-term trends can be tracked in targeted fourth and fifth order watersheds (Figures 3.1.1-2; 3.1.1-3; and 3.1.1-4). Targeted stations were placed in the downstream reaches of fourth, fifth and occasionally sixth order (on 1:24,000 scale USGS topographic maps) watersheds. One reason for this choice was that the number of these watersheds closely matched the available monitoring resources. Another favorable attribute of this design was that these watersheds were more hydrologically accurate and uniform in size than 11-digit watersheds. A biosurvey was conducted at these stations which typically include two or three biological communities (macroinvertebrates, fishes, or diatoms) to determine the condition of wadeable streams. Also collected are nutrient samples (unionized ammonia, nitrite-nitrate, total phosphorus, and total Kjeldahl-nitrogen) in addition to bulk water quality variables (total suspended solids, chlorides, sulfates, alkalinity, hardness and total organic carbon). Physical measurements were also made at time of water quality sample collection; a multiparameter probe is used to measure pH, temperature, DO, percent DO saturation and specific conductance. Often, ambient water quality data were collected at these locations on a monthly basis during the BMU-cycle. These stations are revisited every five years.

Reference<sup>a</sup> or Exceptional<sup>b</sup> Exceptional Reference Reference Reference Reference Table 3.1.4-2. Candidate reference reach and exceptional streams and segments in the Kentucky as defined in 401 KAR 5:030. Henry, Shelby County Jackson Woodford Franklin, Franklin Anderson Clark Mercer Leslie Perry Scott Leslie Leslie Leslie Clay Clay Lee Lat-Long (upstream) 38.30562 -83.15038 37.54762 37.93369 84.99354 -84.78473 -83.11332 38.21726 83.51666 -84.26951 38.32024 37.98133 83.37233 83.50586 -83.39242 -84.76813 37.12607 84.47431 37.97570 37.00966 37.07655 83.46882 36.94948 37.7254 -83.7250 -84.85231 37.08750 37.84374 37.0177 -83.5964 37.07601 (downstream) Lat-Long 37.01756 37.97366 36.95706 -84.27256 37.53939 -84.01041 37.91802 38.33978 84.99688 -84.80238 37.13216 -83.10139 -84.48522 38.28752 37.97908 38.21315 83.51802 -84.8206 -83.7965 37.15529 37.08165 -84.76563 37.6796 37.0349 37.08173 -8351566 37.84727 -83.5399 -83.3704 Miles Total 9.6 0.75 2.7 1.7 5.2 2.7 6.0 6.2 0.9 2.6 1.4 4.0 1.0 9.4 3.3 1.3 Mile Points Segment 9.6-0.0 15.9-84.3 0.0-2.7 0.0-1.7 0.0-5.2 0.0-2.7 0.3-1.2 2.6-8.8 6.0-0.0 0.0-2.6 0.0-4.0 0.0-0.75 0.0-1.0 0.0 - 1.40.0-3.3 0.1-1.4 Segment Description Above Sediment Pond to Near Mouth to Shawnee Run Mouth to Scrabble Cr. Mouth to Headwaters Hurts Creek to Greasy Mouth to Headwaters Mouth to Headwaters Mouth to Headwaters Mouth to Headwaters Land Use Change to Mouth to West Fork Mouth to Boyd Run Mouth to Headwatrs Mouth Headwaters Mouth to UT Mouth to UT Headwaters Headwaters Creek Right Fk. Elisha Cr. Lower Howard Cr. Little Middle Fk. Kentucky River \*Spruce Branch Stream Rock Lick Cr. Sulphur Creek Gilberts Creek Honey Branch Backbone Cr. Shaker Creek Katies Creek Bear Branch Elisha Creek Craig Creek \*Middle Fk. Cherry Run Billey Fork Kentucky Basin

Basin	Stream	Segment Description	Segment Mile Points	Total	[downstream]	Lat-Long (unstream)	County	Reference <sup>a</sup> or Excentional <sup>b</sup>
Kentucky (cont.)						Time and a		
	Steeles Run	Mouth to UT	0.0-4.2	4.2	38.11101	38.06734	Fayette	Exceptional
	UT of Jacks Creek	Mouth to Headwaters	0.0-1.15	1.15	37.85200	37.85177	Madison	Exceptional
	UT of Kentucky R.	Near Mouth to Land Use Change	0.1-1.4	1.3	38.219102	38.23174	Franklin	Exceptional
	Billy Fork	Land use change to Headwaters	2.6-8.8	6.2	37.6796	37.7254	Lee, Estill	Exceptional
	Bill Oak Branch	Mouth to Headwaters	0.0	9.0	37.33551	37.33128	Scott	Exceptional
	Deep Ford Branch	Above Pond to Headwaters	0.3-1.3	1.0	37.19057	37.17650	Leslie	Exceptional
	Laurel Fork	Cortland Fork to Big Branch	2.1-3.8	1.7	37.34753	37.32790	Owsley	Exceptional
	Mikes Branch	Mouth to Headwaters	0.0-0.7	0.7	37.33903	37.33533	Owsley	Exceptional
	Watches Fork	Mouth to Headwaters	6.0-0.0	6.0	37.34461	37.34010	Owsley	Exceptional
Licking	Blanket Creek	Mouth to UT	0.0-1.9	1.9	38.65566	38.64272	Pendleton	Exceptional
	Bowman Creek	Mouth to UT	0.0-6.0	0.9	38.89256	38.89406	Kenton	Exceptional
	Cedar Creek	Mouth to N. Br. Cedar Cr.	0.0-1.7	1.7	38.47647	38.49034	Robertson	Exceptional
	Flour Creek	Mouth to UT	0.0-2.2	2.2	38.78912	38.80180	Pendleton	Exceptional
	Sawyers Fork	Mouth to Headwaters	0.0-3.3	3.3	38.84833	38.82288	Kenton	Exceptional
	*Slabcamp Creek	Mouth to Headwaters	0.0-3.7	3.7	38.09982	.38,13916	Rowan	Exceptional

Table 3.1.4-2 (cont.). Candidate reference reach and exceptional streams and segments in Kentucky as defined in 401 KAR 5:030.

Basin	Stream	Segment Description	Segment Mile Points	Total Miles	Lat-Long (downstream)	Lat-Long (upstream)	County	Reference <sup>a</sup> or Exceptional <sup>b</sup>
	Slate Creek	Mouth to Mill Creek	0.0-13.6	13.6	38.21835	38.11217	Bath	Exceptional
	UT of Shannon Cr.	Mouth to Headwaters	0.0-2.2	2.2	38.55437	38.52929	Mason	Exceptional
	Little South Fork	Land Use Change to Headwaters	1.2-5.9	4.7	38.82221	38.82854	Boone	Exceptional
	Doctors Fork	Mouth to Begley Branch	0.0-3.8	3.8	37.67561	37.64618	Boyle	Exceptional
Salt	Doctors Fork	Mouth to Begley Branch	0.0-3.8	3.8	37.67561	37.64618	Boyle	Exceptional
	Indian Creek	Mouth to UT	6.0-0.0	6.0	37.85122	37.85371	Mercer	Exceptional
	Lick Creek	Mouth to 0.1 mi below dam	0.0-4.1	4.1	37.81839 85.21555	37.82618 85.16398	Washington	Exceptional
	UT of Glens Creek	Mouth to Headwaters	0.0-2.3	2.3	37.85772	37.85101	Washington	Exceptional
Green								
	Big Brush Creek	Brush Creek to Poplar Grove Branch	13.0-17.4	4.4	37.3855	37.42748	Green	Exceptional
	Elk Lick Branch	Duck Lick Creek to Barren Fork & Edgaer creeks	3.6-11.8	8.2	36.96006	36.91647	Allen	Exceptional
	Puncheon Creek	Mouth to KY/TN State Line	0.0-4.3	4.3	36.67659	36.62955	Allen	Exceptional
	Thompson Branch	Mouth to KY/TN State Line	0.0-1.5	1.5	36.66124	36.65203	Simpson	Exceptional
Cumber- land	Left Fork Fugitt Creek	Mouth to Headwaters	0.0-1.5	1.5	36.92528	36.936699	Harlan	Exceptional

\*Reference Reach streams and segments have the greatest biological integrity and intact habitat of those streams in a given bioregion. Pennyroyal and 75th %tile for the Mississippi Valley-Interior River Lowlands bioregions. \*Streams that are already Exceptional in <sup>b</sup>Exceptional streams and segments must score "excellent" on the MBI or KIBI based on 50th %tile for Mountain, Bluegrass and 401 KAR 5:030 but are proposed for a segment change based on new data, or to conform to NHD mile points. Nonpoint Source Program (NPSP). The Kentucky Nonpoint Source Pollution Control Program's goal is to protect the quality of Kentucky's surface and groundwater from NPS pollutants, abate NPS threats and restores degraded waters to the extent that water quality standards are met and beneficial uses are supported. The NPSP is achieving this through federal, state, local and private partnerships which promote complementary, regulatory and non-regulatory nonpoint source pollution control initiatives at both statewide and watershed levels.

Nonpoint source pollution is sometimes referred to as runoff or diffuse pollution. Unlike pollution from industrial and sewage treatment plants, NPS pollution is caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-produced pollutants, finally depositing them into lakes, rivers, wetlands, coastal waters and even underground sources of drinking water. These pollutants include:

- Excess fertilizers, herbicides and insecticides from agricultural lands and residential areas;
- Oil, grease and toxic chemicals from urban runoff and energy production;
- Sediment from improperly managed construction sites, crop and silviculture lands and eroding streambanks;
- Acid mine drainage; and
- Bacteria and nutrients form livestock, pet wastes and faulty septic systems.

Atmospheric deposition and hydromodification are also sources of nonpoint source pollution. NPS pollution is the number one contributor to water pollution in Kentucky.

Monitoring of streams impacted by NPS pollutants follows KDOW standard protocol; each biosurvey conducted at these stations typically included two biological communities, macroinvertebrates and fishes, to determine the condition of wadeable streams. Also collected were nutrient samples (un-ionized ammonia, nitrite-nitrate, total phosphorus, and total Kjeldahl-nitrogen) in addition to bulk water quality variables (total suspended solids, chlorides, sulfates, alkalinity, hardness and total organic carbon). Physical measurements were also made at time of water quality sample collection; a

multiparameter probe was used to measure pH, temperature, DO, percent DO saturation and specific conductance.

Probabilistic Monitoring Program (PMP). KDOW conducts random biosurveys of streams across the commonwealth. Each year the Probabilistic Biosurvey Program Coordinator selects watersheds on the 8-digit HUC level to be monitored in a particular BMU. The target population is all wadeable streams 1<sup>st</sup> through 5<sup>th</sup> order within the HUCs of each BMU. Then a request is sent to EPA's National Health and Environmental Research Laboratory, Office of Research and Development, Corvallis, Oregon, where the EMAP Design Group uses EPA's Reach File Version 3 - Alpha (RF3-Alpha) as a sampling frame. A frequency table is established for the population candidate streams (based on stream order) across the HUCs and based on those frequencies, a random, weighted survey design is utilized to determine those streams and locations of the sample point for the study. A sample size of 50 sites with approximately an equal number in each of the four categories: 1st, 2nd, 3rd, 4th + 5th. An oversample of 200% (100 sites) for a total of 150 sites including the base sites are derived per study. This oversample provides reserve samples for alternative sites when those initial sites do not conform to target population parameters (e.g. non-wadeable, miss-mapped features), are inaccessible due to safety concerns, or to which access is denied by landowners. Standard protocol dictates that surrogate stream sample sites be selected sequentially from the oversample population when replacement of an initial sample site is necessary. Since the random design is weighted, no regard to replacement of an initial sample site with one of equivalent Strahler order is required.

A biosurvey of the macroinvertebrate community was conducted to determine condition of wadeable streams; additionally, the probabilistic program collected nutrient samples (un-ionized ammonia, nitrite-nitrate, total phosphorus, and total Kjeldahl-nitrogen) in addition to bulk water quality variables (total suspended solids, chlorides, sulfates, alkalinity, hardness and total organic carbon). Physical measurements were also made at time of water quality sample collection; a Hydrolab® multiparameter probe was used to measure pH, temperature, DO, percent DO saturation and specific conductance. For this reporting cycle, probabilistic network consisted of 100 sites (50 stations per BMU (upper Cumberland – 4-Rivers and Green – Tradewater). Those sites, along with

stream names, may be identified in Tables 3.1.4-3; 3.1.4-4; and 3.1.4-5 and Figures 3.1.4-1; 3.1.4-2; and 3.1.4-3.

Table 3.1.4-3. Key to stream names sampled and assessed in the upper Cumberland River basin using probabilistic methodology.

A Come Creek	07
4. Cane Creek	33. Big Clifty
5. Otter Creek	36. Little Poplar Creek
6. Poor Fork	37. Little South Fork
8. Sugar Camp Creek	40. Buck Creek
9; Sulphur Creek	44. Pond Creek
14. Little Laurel River	46. aUT Helton Branch
17. Ferris Fork Creek	49. Salt Lick Creek
20. Bear Creek	54. Roaring Fork
22. Sinking Creek	55. aUT Big Creek
4. Line Creek 58. Bee Lick Creek	
26. Cloverlick Creek 59. Spring Creek	
28. Roundstone Creek	64. Straight Creek
30. Bull Run	

<sup>&</sup>lt;sup>a</sup>UT= Unnamed tributary

Table 3.1.4-4. Key to stream names sampled and assessed in lower Cumberland, Mississippi, Ohio and Tennessee rivers basins using probabilistic methodology.

1. Dry Fork	43. Middle Branch North
3. Hurricane Creek	Fork Little River
7. Rockhouse Creek	47. Livingston Creek
11. aUT Mud Creek	48. Claylick Creek
13. Bayou de Chien	51. aUT Whippoorwill Creek
15. Sinking Fork	53. Truman Creek
18. Little White Creek	61. aUT Brush Creek
19. Little Cypress Creek	76. West Fork Clarks River
23. <sup>a</sup> UT to <sup>a</sup> UT Tennessee River 79. South Fork Bayou of	
21. Terrapin Creek	Chien
29. West Fork Mayfield Creek	81. Cypress Creek
31. Dry Fork Creek 82. Claylick Creek	
39. aUT Clarks River	84. Middle Fork Massac
42. Clarks River	Creek
at IT- I Impared tributers	

<sup>&</sup>lt;sup>a</sup>UT= Unnamed tributary

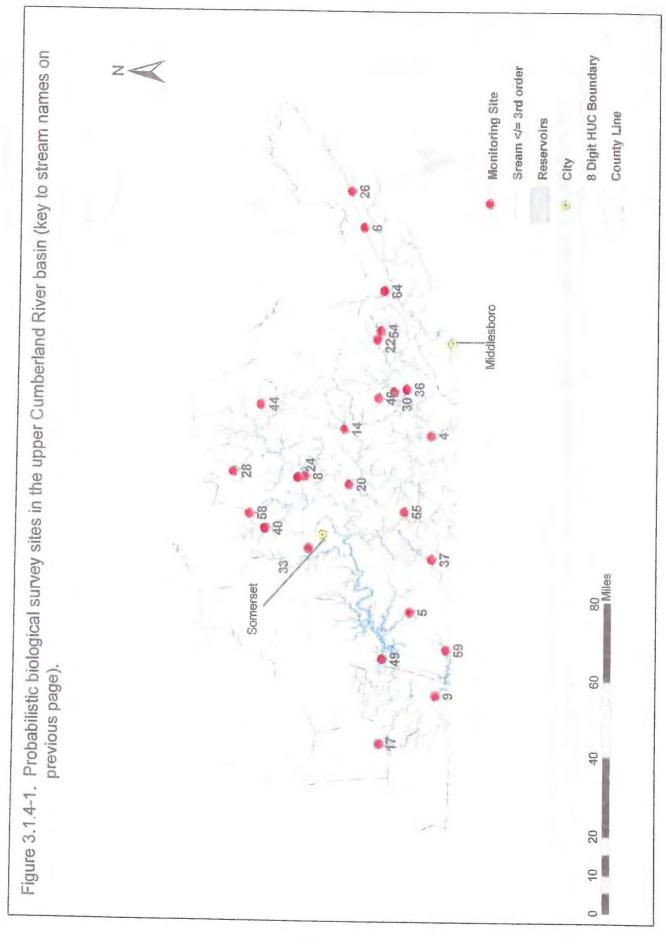




Table 3.1.4-5. Key to stream names sampled and assessed in Green – Tradewater Basin Management Unit using probabilistic methodology.

1.	Pond	Creek
	TOHO	CICCI

2. West Fork Drakes Creek

4. Dismal Creek

6. Dyerhill Creek

9. Deer Creek

11. Black Snake Branch

14. Laurel Creek

15. Russell Creek

16. \*UT Richland Creek

17. Deer Creek

18. Buck Fork Pond River

19. Blackford Creek

21. Tradewater River

23. East Fork Little Barren River

24. Billy Creek

28. Brushy Pond Creek

29. aUT Drakes Creek

30. Middle Fork Drakes Creek

31. Sulphur Creek

32. UT Gasper River

37. West Fork Donaldson Creek

39. Falling Timber Creek

40. Barnett Creek

41. North Fork Panther Creek

43. Robinson Creek

44. Wolf Lick Creek

45. aUT Cypress Creek aUT= Unnamed tributary

47. Beaverdam Creek

48. Indian Camp Creek

49. aUT to aUT Slover Creek

50. Sadler Creek

51. South Fork Little Barren River

53. Crooked Creek

55. North Fork Nolin River

57. aUT Elk Creek

59. Brush Creek

60. Muddy Creek

64. Panther Creek

65. Fredricks Ditch

69. Buffalo Creek

71. South Fork Little Barren River

72. Wright Bell Ditch

75. Big Brush Creek

77. West Fork Pond River

78. Middle Fork Drakes

Creek

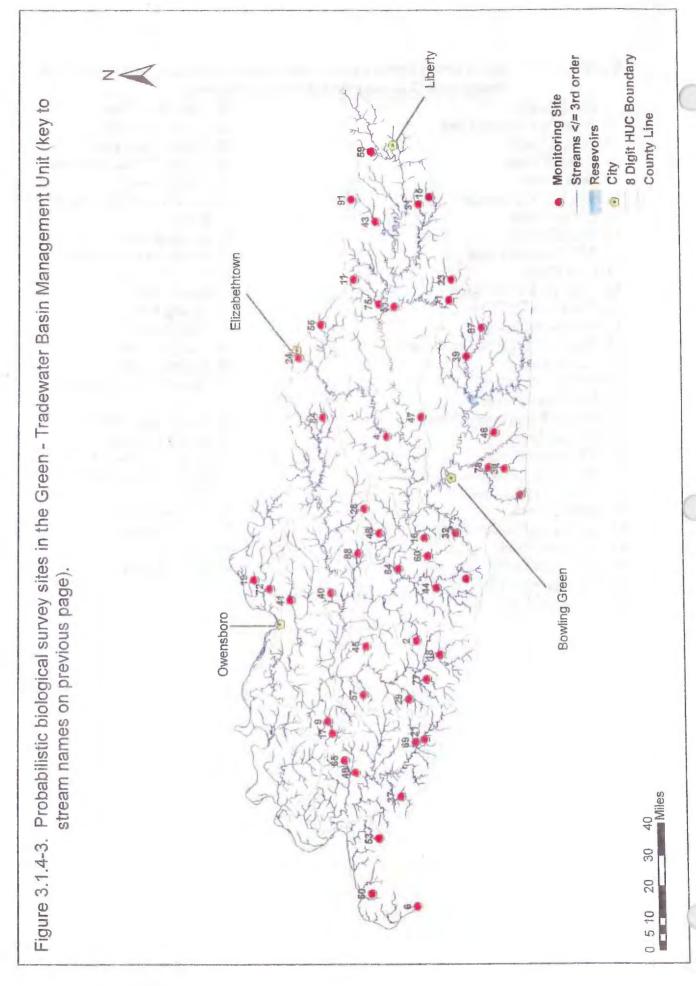
84. Meeting Creek

87. Eaton Branch

88. Muddy Creek

91. Tallow Creek

<sup>46.</sup> West Bays Fork



# 3.1.5 Lake and Reservoir Monitoring

Lakes and reservoirs are monitored over the growing season (April – October) for determination of trophic state using the Carlson Trophic State Index (TSI) for chlorophyll a. This method of determining trophic state of lakes is convenient as it allows lakes to be ranked numerically according to increasing trophic state (oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic). The growing season average TSI value is used to rank each lake.

Water quality and physical measurements were made in spring, summer and fall, typically with an interval of six to eight weeks to allow sufficient time for seasonal changes to occur. All publicly accessible lakes and reservoirs made-up the population of these resources monitored in Kentucky. Water quality variables, including nutrients (unionized ammonia, nitrite-nitrate, total phosphorus, TKN, total soluble phosphorus, soluble reactive orthophosphate and total organic carbon), chlorophyll *a*, standard variables (total suspended solids, chlorides, sulfates, alkalinity and hardness) and a profile of water column physical data (DO, pH, temperature and specific conductance) were monitored at each station per lake. The majority of these waters were small, usually several hundred acres or less in surface area; therefore, one sample station in the forebay was sufficient to characterize the status of the smaller lakes and reservoirs.

The Louisville and Nashville COE districts cooperated in monitoring their dam projects in each BMU. Additionally, Kentucky Lake, a Tennessee Valley Authority (TVA) dam project, was monitored by that agency. The water quality parameters described above were used to determine the trophic status of each reservoir. Multiple monitoring stations were placed in these large reservoirs. Often, the major in-flow and out-flow tributaries of each reservoir were monitored for water quality as well, often including pathogen indicators for recreation support determinations. These tributary streams were assessed for aquatic life use support based on physicochemical data.

Those lakes and reservoirs monitored in the Upper Cumberland – 4-Rivers and Green - Tradewater BMUs are presented in Table 3.1.4-1. Maps of use support assessment results follow in Assessment Results, Section 3.3.

				Latitude	Longitude
Engrange of Reservoir Name	Size (Acres)	Basin	County	(dd)	(pp)
Ellergy Lake	3/0	Lower Cumberland	IRIGG	36.86031	-88.01534
Hematite Lake	06	Lower Cumberland	TRIGG	36.89647	-88.04269
Honker Lake	190	Lower Cumberland	LYON	36.90976	-88.02869
Lake Barkley	45,600	Lower Cumberland	LYON	37.01799	-88.21527
Lake Blythe	68	Lower Cumberland	CHRISTIAN	36.92294	-87.49592
Lake Morris	170	Lower Cumberland	CHRISTIAN	36.92889	-87.45500
Arrowhead Lake	37	Mississippi River	BALLARD	37.0365	-89.12816
Burnt Pond	10	Mississippi River	BALLARD	37.04361	-89.11694
Flat Lake	38	Mississippi River	BALLARD	37.04278	-89.09889
Swan Pond	193	Mississippi River	BALLARD	37.012268	-89.117798
Beaverdam Lake	20	Ohio River	BALLARD	37.1425	-89.05417
Buck Lake	19	Ohio River	BALLARD	37.04028	-89.08917
Fish Lake	27	Ohio River	BALLARD	37.0554	-89.09434
Happy Hollow Lake	20	Ohio River	BALLARD	37.15167	-89.04553
Long Pond	99	Ohio River	BALLARD	37.02556	-89.1275
Metropolis Lake	36	Ohio River	MC CRACKEN	37.14779	-88.76665
Mitchell Lake	58	Ohio River	BALLARD	37.15167	-89.04583
Shelby Lake	24	Ohio River	BALLARD	37.18374	-89.03048
Turner Lake	61	Ohio River	BALLARD	37.17278	-89.04166
Kentucky Lake	48,100	Tennessee River	CALLOWAY	37.00326	-88.26727
Cannon Creek Lake	243	Upper Cumberland	BELL	36.68083	-83.70222
Chenoa Lake	37	Upper Cumberland	BELL	36.67583	-83.81944
Corbin City Reservoir	139	Upper Cumberland	LAUREL	36.970241	-84.120201
Cranks Creek Lake	219	Upper Cumberland	HARLAN	36.73907	-83.23758
Dale Hollow Reservoir	4300	Upper Cumberland	CLINTON	36.53709	-85.44618
I aka Cumberland	50.250	Unner Cumberland	RIISSELL	36 86607	-85 1451

,				Latitude	Longitude
Lake or Reservoir Name	Size (Acres)	Basin	County	(pp)	(pp)
Lake Linville	273	Upper Cumberland	ROCKCASTLE	37.38889	-84.34444
Laurel Creek Lake	88	Upper Cumberland	MC CREARY	36.69293	-84.44283
Laurel River Reservoir	0909	Upper Cumberland	WHITLEY	36.96151	-84.26492
Martin's Fork Reservoir	334	Upper Cumberland	HARLAN	36.75	-83.26111
Tyner Lake	87	Upper Cumberland	JACKSON	37.37889	-83.91306
Wood Creek Lake	672	Upper Cumberland	LAUREL	37.21367	-84.19813
Barren River Reservoir	10,000	Green River	ALLEN	36.89233	-86.12259
Briggs Lake	19	Green River	LOGAN	36.88812	-86.83244
Campbellsville City Reservoir	63	Green River	TAYLOR	37.35649	-85.34198
Caneyville City Reservoir	75	Green River	GRAYSON	37.43921	-86.46402
Freeman Lake	160	Green River	HARDIN	37.71644	-85.86987
Grapevine Lake	50	Green River	HOPKINS	37.30552	-87.47700
Green River Reservoir	8210	Green River	TAYLOR	37.25074	-85.33757
Lake Luzerne	55	Green River	MUHLENBERG	37.21278	-87.19611
Lake Malone	826	Green River	LOGAN	37.08019	-87.03289
Lake Washburn	26	Green River	OHIO	37.51812	-86.84842
Lewisburg Lake	51	Green River	LOGAN	36.97056	-86.92667
Liberty Lake	- 62	Green River	CASEY	37.32237	-84.89506
Metcalfe County Lake	22	Green River	METCALFE	37.04329	69609.58-
Mill Creek Lake (Monroe County)	109	Green River	MONROE	36.68201	-85.70103
Nolin River Reservoir	5790	Green River	GRAYSON	37.27914	-86.24699
Nortonville Lake	27.4	Green River	HOPKINS	37.18085	-87.46592
Rough River Reservoir	5100	Green River	HARDIN	37.61833	-86.49972
Salem Lake	66	Green River	LARUE	37.59129	-85.71097
Shanty Hollow Lake	135	Green River	WARREN	37.1552	-86.38988

Table 3.1.5-1 (cont.). Lakes and reservoirs monitored in the Upper Cumberland – 4-Rivers and Green-Tradewater Basin Management Units during the 2005 and 2006, respectively.

				Latitude	Longitude
Lake or Reservoir Name	Size (Acres)	Basin	County	(pp)	(pp)
Spa Lake	240	Green River	Logan	36.89571	-86.94993
Spurlington Lake	36	Green River	Taylor	37.38519	-85.25506
West Fork of Drakes Creek Reservoir	<i>L</i> 9	Green River	Simpson	36.72222	-86.5525
Carpenter Lake	64	Ohio River	Daviess	37.84587	-86.9781
Kingfisher Lake	30	Ohio River	Daviess	37.84317	-86.97757
Lake George	53	Ohio River	Crittenden	37.31034	-88.09115
Marion City Lake	38.5	Ohio River	Crittenden	37.31084	-88.09121
Mauzy Lake	84	Ohio River	Union	37.62245	-87.85535
Scenic Lake	18	Ohio River	Henderson	37.87806	-87.56222
Lake Beshear	092	Tradewater	Caldwell	37.14776	-87.68234
Lake Peewee	360	Tradewater	Hopkins	37.35011	-87.52718
Loch Mary	135	Tradewater	Hopkins	37.27343	-87.52087
Moffit Lake	49	Tradewater	Union	37.57853	-87.85481
Pennyrile Lake	47	Tradewater	Christian	37.07242	-87.66499
Providence City Reservoir	36	Tradewater	Webster	37.37583	-87.79639

# 3.2 Assessment Methodology

General Assessment Methods. Beginning with the 2005 electronic 305(b) report submittal, the commonwealth began assigning assessed uses, and any associated nonassessed uses, of stream segments and lakes to the appropriate category of the five reporting categories recommended by EPA (2005). Of those categories, two categories were divided to better define assessment results; categories 2B and 5B were added by KDOW to better track assessed segments. Those categories used by the commonwealth are listed in Table 3.2-1. Many waterbody segments had monitored data for only one use assessment, typically aquatic life use.

Table 3.2-1. Reporting categories assigned to surface waters during the assessment process.

Category	Definition
1	All designated uses for water body fully supporting.
2	Assessed designated use(s) is/are fully supporting, but not all designated uses assessed.
2B.	Segment currently supporting use(s), but 303(d) listed & awaiting EPA approved delisting, or approved/established TMDL.
3	Designated use(s) has/have not been assessed (insufficient or no data available).
4A	Segment with an EPA approved or established TMDL for all listed uses not attaining full support.
4B	Nonsupport segment with an approved alternative pollution control plan (e.g. BMP) stringent enough to meet full support level of all uses within a specified time.
4C	Segment is not meeting full support of assessed use(s), but this is not attributable to a pollutant or combination of pollutants.
5	TMDL is required.
5B	Segment is not supporting use based on evaluated data; does not require a TMDL.

When considering waters for assessment, KDOW solicited data from a variety of entities. This included other government agencies, including state agencies (e.g. Department of Fish & Wildlife) and federal agencies such as COE, F&WS, USGS, and TVA. Also, data from universities and ORSANCO were considered.

Generally, data older than five years were not considered for assessment; however, assessment decisions were made on a case-by-case basis—not all data older

than five years were excluded from consideration. Data older than five years were considered if they were the only data available for a waterbody.

A number of causes (pollutants) in EPA's 2006 IR guidance were considered pollution rather than pollutants. A waterbody found not supporting a use and shown to be impaired by pollution, without identified pollutants, does not require a TMDL, rather an alternative plan to bring the use back to full support (Category 4B). Causes considered pollution are found in Table 3.2-2. The rationale behind pollutant vs. pollution is that a pollutant is a measurable variable, and its presence above criteria results in designated use impairment. It is the causal variable, not the indicator or response variable of one or more pollutants (sedimentation/siltation, total phosphorus, ammonia, methylmercury, etc). An example of pollution is alteration in stream-side or littoral vegetative cover, a category that in and of itself may not directly attribute to impairment or water quality degradation. The loss of this vegetative integrity can result in excess nutrients and sedimentation/siltation (pollutants) that will subsequently affect biological communities, water quality, in-stream habitat and temperature. The previous example also serves to clarify why "habitat assessment (streams)" is also considered pollution. Pollutants such as sedimentation/siltation, nutrients, or water temperature are listed with those nonsupporting segments, directly identifying the pollutant(s) and associated pollution that should be addressed to restore full use support.

The cause "habitat assessment (streams)" was the most commonly reported pollution for streams not supporting aquatic life use based on biological community results. It should be noted that streams with this identified pollution make their way on the 303(d) list since it is almost never without associated pollutants such as sedimentation/siltation because riparian vegetation to abates excess sedimentation, removes excess nutrients and ameliorates water temperature. In the uncommon circumstance where "habitat assessment (streams)" was the only reported "cause," it was recognized that pollutants had not been observed or measured that were impacting the biological community(s). In these instances the cause, "impairment unknown," was listed, which as a pollutant-surrogate, places it on the 303(d) list. In these instances more intensive investigation is needed to determine individual pollutants than the initial

Table 3.2-2. List of those causes considered pollution by the KDOW (ADB numerical codes listed).

- (67) Abnormal fish histology (lesions)
- (84) Alteration in stream-side or littoral vegetative covers
- (85) Alterations in wetland habitats
- (105) Benthic-macroinvertebrate bioassessment (streams)
- (150) Chlorophyll a
- (161) Combination benthic/fishes bioassessments (streams)
- (162) Combined biota/habitat bioassessments (streams)
- (181) Debris/floatable/trash
- (205) Dissolved oxygen saturation
- (218) Eurasian water milfoil, Myriophyllum spicatum
- (227) Excess algal growth
- (228) Fish-passage barrier
- (229) Fish kills
- (230) Fishes bioassessment (streams)
- (243) Habitat assessment (streams)
- (266) Lake bioassessment
- (270) Low flow alterations
- (312) Non-native aquatic plants
- (313) Non-native fish, shellfish, or zooplankton
- (316) Odor threshold number
- (319) Other flow regime alterations
- (331) Particle distribution (embeddedness)
- (336) Periphyton (Aufwuchs) indicator bioassessments (stream)
- (368) Secchi disk transparency
- (387) Suspended algae
- (402) Total organic carbon
- (412) Trophic State Index
- (422) Dreissena polymorpha, zebra mussel
- (445) Abnormal fish deformities, erosions, lesions, tumors
- (446) Habitat assessment (lakes/reservoirs)
- (450) High flow regime
- (459) Taste and odor
- (460) Aquatic plants (native)
- (465) Fish advisory (no restriction)
- (466) Sediment screening value exceedence
- (471) Bottom deposits
- (477) Bacterial slimes
- (478) Aquatic plants (macrophytes)
- (479) Aquatic algae

biosurvey provided. In this example the waterbody or segment will be assigned to category 5 (303[d] list) with the cause, habitat assessment (streams), included in the list of impairments. It is recognized that to restore aquatic life use, pollution (e.g. riparian vegetative zone) must be rectified as part of the process in addressing the pollutant(s), in this example sedimentation/siltation.

Another group of causes considered pollution that may be recognized in stream biosurveys are those indicating non-native aquatic plants, non-native fish, shellfish, or zooplankton, for example zebra mussel, *Dreisenna polymorpha*. While these conditions are undesirable and can have a negative impact on the native plant or animal communities in a waterbody, non-natives, almost without exception, have been introduced accidentally or intentionally via commerce or recreation (ship ballasts, boating, aquarists, sportspersons [non-native trout], etc.). To develop and implement a TMDL to eliminate these non-natives would often be more damaging to the environment (e.g. biocides or mechanical removal) then leaving them in-place because they are often widespread and prevalent. For example, if the non-native carp, *Cyprinus carpio*, found in many perennial streams and reservoirs in the state, was considered a pollutant rather than pollution, a TMDL would be required to address this in thousands of stream miles and reservoir acres. These examples are instances where the occurrence of impairments considered pollution (non-natives) alone will not result in a category 5 listing, rather a category 2 listing if all biological community metrics indicate the aquatic life use is supporting.

Causes that may be indicators of nonsupport aquatic life use but are not pollutants themselves: 1) benthic macroinvertebrate bioassessment (streams); 2) chlorophyll a; 3) combination benthic/fishes bioassessment; 4) combined biota/habitat bioassessments (streams); 5) dissolved oxygen saturation; 6) excess algal growth; 7) fishes bioassessment (streams); 8) lake bioassessment; 9) periphyton (aufwuchs) indicator bioassessments (stream); 10) Secchi disk transparency; 11) suspended algae; 12) trophic state index; and 13) fish advisory – no restriction, are considered pollution. The KDOW uses macroinvertebrates and fishes routinely to make aquatic life use support determinations in streams. These biological indicators provided the data necessary to produce KDOW's multimetric indices through correlation with stressors resulting in the assignment of tolerance levels based on taxon, percent dominance of tolerant taxa, percent intolerant

taxa, such as Ephemeroptera (mayflies), feeding strategy (e.g. filterers or scrapers), as well as watershed drainage area which naturally influences the populations within each community. While these biological communities are robust environmental indicators of water quality and integrity of habitat, they are not pollutants, but a manifestation of those tolerant organisms exploiting conditions that will not support clean-water, intolerant populations. Through physicochemical data taken at time of biosurveys and habitat assessment (in-stream habitat and land use observations), the most detrimental pollutants are usually recognized as contributors to the degraded biological community. Most stream miles in Kentucky not supporting aquatic life use were impaired primarily by the pollutants sedimentation/siltation (habitat smothering), nutrient enrichment, and "cause unknown," in addition to pollution in the form of habitat alterations (often riparian zone related). All these pollutants affect in-stream habitat or physicochemical variables that manifest in the biological community structure. In cases where no pollutants were recognized, "cause unknown" is listed, which places the waterbody/segment in category 5, requiring a TMDL.

The total number of assessed stream miles was determined by adding the miles represented by the site-specific random survey (not extrapolated data) and the miles assessed by targeted monitoring. In other words, miles assessed by targeted monitoring in wadeable streams were included in miles assessed by the random survey  $(1^{st} - 5^{th})$  Strahler order). However, results were also presented separately for targeted and random (extrapolated) total miles.

### 3.2.1 Aquatic Life Use

The water quality and biological data provided by the programs described in the preceding sections were used to assess use support in rivers and streams. Table 3.2.1-1 shows the designated uses of Kentucky waters and the indicators employed to make those use support determinations. Given the comprehensive suite of parameters sampled by KDOW for many stream assessments, both biological and physicochemical, a determination can typically be made as to the cause(s) and source(s) of pollutant or pollution affecting the resource. Further study during TMDL development will lead to specific definition of causes and sources. Data were categorized as "monitored" or

"evaluated." Monitored data were derived from site-specific surveys and generally no more than five years old. Typically, data older than five years were considered "evaluated," but this did not change the assessment category a waterbody and/or segment had been assigned unless there were more recent "monitored" data. In some instances where conditions were believed to have remained mostly unchanged, monitored data collected prior to 1995 were still considered valid, and waters described by these data were categorized as monitored. Additionally, data from the random survey network were used. Like the targeted stations, each random survey station was used to assess a limited reach of stream around the sample point. Few evaluated waters remain in the assessment database. Although all efforts in the watershed initiative were to gather defensible, monitored data, there were some monitoring data more than five years old, strong anecdotal information, and extrapolation of discharge data that resulted in evaluated assessments.

Water Quality Data. Chemical data collected by KDOW and others were assessed according to EPA guidance (U.S. EPA 1997). Water quality data were compared to criteria contained in Kentucky Water Quality Regulations (401 KAR 5:031). The segment fully supported WAH use when criteria for dissolved oxygen, un-ionized ammonia, temperature and pH were not met in 10 percent or less of the samples collected. Impaired, partial support was indicated if any one criterion for these parameters was not met in 11-25 percent of the samples. A segment was impaired, not supporting, if any one of these criteria was not met in more than 25 percent of the samples.

Data for mercury, cadmium, copper, iron, lead and zinc were analyzed for exceedences of acute criteria listed in state water quality standards regulations using at least three years of data. The segment fully supported WAH use if all criteria were met at stations with quarterly or less frequent sampling, or if only one exceedence occurred at stations with monthly sampling. Impaired, partial support was indicated if any one criterion was not met more than once but in less than 10 percent of the samples. The segment was impaired, not supporting if criteria were exceeded in greater than 10 percent of the samples. The assessment criteria were closely linked to the way state and federal water quality criteria were developed. Aquatic life was considered protected if, on average, the

Table 3.2.1-1. Designated uses in Kentucky waters and the indicators used to assess level of support.

Use	Aquatic Life	Recreation	Fish Consumption	*Drinking Water
Use Core Indicators	Aquatic Life  Stream:  1-3 biological communities macroinvertebrates, diatom and fishes  Dissolved oxygen  Temperature  pH  Specific conductance  Lake/Reservoir:  Dissolved oxygen  Temperature  pH  Temperature	Stream: Pathogen indicators:	Fish Consumption Mercury PCBs	*Drinking Water Inorganic chemicals Organic chemicals Pathogen indicators: fecal coliform, E. col.
Suplemental Indicators	Specific conductance Fish kills  Chlorophyll-a Trophic State Index (TSI) Secchi depth Indicator health (vigor) Chemical Sediments	Nuisance macrophytes Nuisance macroscopic algal growth Nuisance algal blooms Suspended sediment Chemical		Odor Taste Treatment problems caused by poor water quality

<sup>\*</sup>All core indicators are based on "at the tap" MORs received from PWS

acute criteria were not exceeded more than once every three years. Data were also compared to chronic criteria. Observations that equaled or were only slightly greater than chronic criteria were not considered to exceed water quality standards. Toxic criteria were assessed based on 12 monthly samples at the rotating watershed ambient water quality network and generally 36 samples from the primary ambient water quality network. The segment fully supported WAH use if all criteria met or exceeded only once. Impaired, partial support was assessed if any criterion was not met more than once, but in less than 10 percent of samples. The segment was impaired, not supporting if criteria were exceeded in greater than 10 percent of samples.

Biological Data (streams). Decisions about use attainment for aquatic life were primarily made using biological data obtained from monitoring programs within the KDOW and other agencies. There are a number of reasons biological data are so important in making level of support decisions for aquatic life use. Biological

communities (indicators) integrate their environment and thus serve as good indicators of the conditions (physical, chemical, and habitat) they live in. The core indicators for bioassessment are outlined in Table 3.2.1-2. Level of use support was dependent on the indicator community(s) health and integrity, with supplemental physicochemical and habitat data. These results were applied for assessment purposes as outlined in Table 3.2.1-2.

Macroinvertebrates have been used extensively in water quality monitoring and impact assessment since the early 1900s. Today, macroinvertebrates are used throughout the world in water quality assessment as environmental indicators of biological integrity, to describe water quality conditions or health of the aquatic ecosystem, and to identify causes (pollutants) of impairment. This indicator community is relatively sedentary, spending a significant portion of their life cycle in the aquatic environment. Various populations of a community are dependent on multiple habitats in the water column, occupy more than one consumer level throughout the food web (herbivores, omnivores, and carnivores) and, significantly, many sensitive taxa (benthos) live in or on the sediments of streams. These characteristics and habits make this a key indicator group of their environment. KDOW defines benthic macroinvertebrates as organisms large enough to be seen by the unaided eye, can be retained by a U.S. Standard Number 30 sieve (28 mesh/inch, 600 µm openings), and live at least part of their life cycle within or upon available substrates of a waterbody. In addition to determining use support level, biomonitoring will identify those Exceptional Waters (401 KAR 5:030) (those waters that are among the most biologically diverse and represent biological integrity to a high degree in a given bioregion) occurring across the commonwealth.

The evaluation of fish community structure is an important component of biological monitoring providing reliable assessments for the CWA, Section 305(b). The Kentucky Index of Biotic Integrity (KIBI) was developed based on reference conditions and tolerances and community feeding structure of species present. Advantages of using fish as biological indicators include their widespread distribution, utilization of a variety of trophic levels, stable populations during summer months, and the availability of extensive life history information (Karr et al. 1986).

Table 3.2.1-2. Biological criteria for assessment of warm water aquatic habitat (streams) use support<sup>a</sup>.

suppo			
Indicator	Fully Supporting	Partial Support	Nonsupport
Algae	Diatom Bioassessment Index (DBI) Classification of excellent or good; biomass similar to reference/control or STORET mean.	DBI classification of fair; increased biomass (if nutrient enriched) of filamentous green algae.	DBI classification of poor; biomass very low (toxicity), or high (organic enrichment).
Macroinvertebrates	Macroinvertebrate Bioassessment Index (MBI) excellent or good, high EPT, sensitive species present.	MBI classification of fair, EPT lower than expected in relation to available habitat, reduction in RA of sensitive taxa. Some alterations of functional groups evident.	MBI classification of poor; EPT low, TNI of tolerant taxa very high. Most functional groups missing from community.
Fishes	Index of Biotic Integrity (IBI) excellent or good; presence of rare, endangered or species of special concern.	IBI fair.	IBI poor, very poor, or no fish.

<sup>&</sup>lt;sup>a</sup>Acronyms used in this table: EPT= Ephemeroptera, Plecoptera, Trichoptera; RA= relative aburdance; TNI- total number of individuals

Algal (primarily diatoms) communities are important water quality indicators, particularly as it relates to trophic status (nutrient or organic enrichment) and toxicity conditions. This indicator group is critical to the food web of streams, beginning the process of primary production through photosynthesis. The Diatom Bioassessment Index (DBI) is used to assess this indicator community.

Federally Threatened and Endangered Species. Waters with federally threatened or endangered species in November 1975 have an existing "use" of Outstanding State Resource Water, and the loss or significant decline of one of these populations constitutes an impairment of use.

Lakes and Reservoirs. Lakes and reservoirs were assessed for aquatic life by measuring several physicochemical indicators and reported fish kills. The lack of a direct biological indicator is primarily due to most of this resource being manmade, thus

supporting altered and unnatural biological communities that are composed almost exclusively of tolerant species (e.g. Tubificidae, *Chironomus* spp., *Chaoborus* spp., *Glyptotendipes* spp., etc.) that are capable of exploiting this naturally low DO-stressed environment. Thus, the core and supplemental indicators shown in Table 3.2.1-1 are of utmost importance to assure water quality conditions are suitable for supporting sportfish and associated prey fishes. Populations of these fishes are the primary concern for aquatic life use being met in these created environments. Table 3.2.1-3 outlines those criteria used in making use assessment decisions.

Trophic state was assessed in lakes and reservoirs using the Carlson Trophic State Index (TSI) for chlorophyll-a. This method is convenient because it allows lakes and reservoirs to be ranked numerically according to increasing eutrophy, and it also provides for a distinction between oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic lakes and reservoirs. The growing season (March – October) average TSI value was used to rank each lake. Areas of lakes that exhibited trophic gradients or embayment differences often were analyzed separately.

# 3.2.2 Primary Contact Recreation Use Support

Fecal coliform or *Escherichia coli* and pH data were used to indicate the degree of support for primary contact recreation (PCR) (swimming) use. PCR assessment was based on six monthly grab samples collected during the recreation season of May – October. The use fully supported if the fecal coliform bacteria criterion of greater than 400 colonies per 100 mL (greater than 240 colonies per 100 mL for *E. coli*) was not met in less than 20 percent of samples; it was impaired, partial support, if either criteria were not met in 25-33 percent of samples; and impaired, nonsupport, if either criteria were not met in greater than 33 percent of samples. Secondary contact recreation (SCR) was also assessed following the same method using fecal coliform data at the concentration of greater than 2000 colonies per 100 mL. Streams with pH less than 6.0 SU or greater than 9.0 SU were considered full support if these criteria were exceeded once, but in less than 10 percent of samples collected in the recreation season; impaired, partial support, if the standard was exceeded more than once, but in less than 10 percent of the samples during

Table 3.2.1-3. Criteria for lake and reservoir use support classification.

caregory	rish consumption	Warmwater Aquatic Habitat	Secondary Contact Recreation	Domestic Supply
Not Supporting:	(Pollutant specific)	(At least two of the following criteria)	(At least one of the following criteria)	(At least one of the following criteria)
	Methylmercury >1.00 ppm (fish tissue)	Fish kills caused by poor water quality	Widespread excess macrophyte/macroscopic algal growth	Chronic taste and odor complaints caused by algae
	PCBs >1.9 ppm (fish tissue)	Severe hypolimnetic (deepest layer in a thermally stratified lake or reservoir) oxygen depletion	Chronic nuisance algal blooms	Chronic treatment problems caused by poor water quality
		Dissolved oxygen average less than 4 mg/L in the epilimnion (upper most layer of water in a thermally stratified lake or reservoir)		Exceeds drinking water MCL
Partially Supporting: (At least	Methylmercury >0.30 - 1.00 ppm (fish tissue)	Dissolved oxygen average less than 5 mg/L in the epilimnion	Localized or seasonally excessive macrophyte/macroscopic algal growth	Occasional taste and odor complaints caused by algae
one of the following criteria)	PCBs >0.2 ppm – 1.9 ppm (fish tissue)	Severe hypolimnetic oxygen depletion	Occasional nuisance algal blooms	Occasional treatment problems caused by poor water quality
X		Other specific cause (e.g. low pH)	High suspended sediment concentrations during the recreation season	
Fully Supporting:	Methylmercury <0.30 ppm and PCBs <0.2 ppm	None of the above	None of the above	None of the above

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the recreation season; and impaired, nonsupport, if the criterion was exceeded in more than 10 percent of samples during the recreation season.

### 3.2.3 Other Data Sources

Discharge Monitoring Reports (DMRs). Discharge monitoring report (DMR) data, collected by Kentucky Pollutant Discharge Elimination System (KPDES) permit holders, were assessed through KDOW's permit compliance database. Depending on the relative sizes of the wastewater discharge, the receiving stream and the severity of the permit exceedences, it sometimes was possible to assess in-stream uses as nonsupporting either AL or PCR. Because in-stream data were usually not collected, stream assessments based only on DMR data were considered evaluated, not monitored, and these segments were assigned to category 5B.

Corps of Engineers (COE) Reservoir Projects. Dam projects on major streams in Kentucky were monitored with the cooperation of the COE. During the Interagency Monitoring and Planning Meeting those reservoirs in the BMU of focus were identified and a cooperative effort between KDOW and COE resulted. Reservoir water-quality variables were monitored over the growing season (March – October) as were major inflow and out-flow tributaries of these reservoirs. Aquatic life use support level was determined using these monitored data for reservoir and monitored tributaries. The Nashville and Louisville COE districts manage those projects in Upper Cumberland – 4-Rivers BMU and Green – Tradewater BMU, respectively.

# 3.2.3 Fish Consumption Use Support

Fish consumption, in conjunction with aquatic life use, assesses attainment of the fishable goal of the Clean Water Act. Assessment of the fishable goal was separated into these two categories in 1992 because the fish consumption advisory does not preclude attainment of the aquatic life use and vice versa. Separating fish consumption and aquatic life use support gives a clearer picture of actual water quality conditions. Table 3.2.1-1 relates those criteria used to make fish consumption use support decisions, and Table 3.2.1-3 shows the concentrations of methylmercury and PCBs that result in a specific level of support; these concentrations apply to lakes, reservoirs and streams.

Kentucky revised its methodology for issuing fish consumption advisories in 1998 to a risk-based approach patterned after the Great Lakes Initiative. The risk-based approach generally is more conservative than the Food and Drug Administration (FDA) action levels that were used previously. For example, the FDA action level for mercury was 1.0 mg/Kg, but the risk-based number for issuing an advisory is as low as 0.12 mg/Kg. As a result of this change in methodology, a statewide advisory was issued in April 2000 for children under six and women of childbearing age to not consume more than one meal per week of any fish from Kentucky waters because of mercury. However, EPA (2001a) issued a draft mercury water quality criterion expressed as a methylmercury concentration in fish tissue of 0.30 mg/Kg. Therefore, for purposes of 305(b) reporting, waters were not considered impaired unless fish exhibited methylmercury tissue concentrations of at least 0.30 mg/Kg. In other words, the fish tissue concentration triggering the statewide advisory (0.12 mg/Kg) was considered more stringent than water quality standards.

Other than the statewide advisory for mercury explained above, the following criteria were used to assess support for the fish consumption use:

- Fully supporting- no fish consumption restrictions or bans in effect;
   highest species concentration ≤ 0.30 mg/Kg
- Impaired: Partial support- "restricted consumption," fish consumption advisory in effect for general population or a subpopulation that potentially could be at a greater cancer risk (e.g. pregnant women, children); highest species concentration > 0.30 mg/Kg 1.00 mg/Kg. Restricted consumption was defined as limits on the number of meals consumed per unit time for one or more fish species
- Impaired: Not supporting- a no consumption fish advisory or ban in
  effect for general population or a subpopulation that potentially could
  be at greater risk, for one or more fish species, or a commercial fishing
  ban in effect; highest species concentration > 1.00 mg/Kg.

# 3.2.4 Drinking Water Supply

Drinking water use support was determined in several ways (Table 3.2.1-1). First, compliance with maximum contaminant levels (MCLs) in finished water was determined by the annual average of quarterly samples. These MCL data were gleaned from monthly operating reports (MORs) submitted to KDOW, Drinking Water Branch, from treatment facilities. Drinking water use assessments in reservoirs were supplemented by surveys of drinking water operators on any taste and odor problems and use of biocides (Table 3.2.1-1). In-stream water quality data generally were not available to assess drinking water use.

#### 3.2.5 Causes and Sources

Causes (pollutants and pollution) and sources were categorized according to EPA guidance. Causes for primary contact recreation, fish consumption, and water supply usually were easily identified. The majority of segments or waterbodies not supporting aquatic life use were determined by biological monitoring supplemented by monitoring of select physicochemical parameters. Causes and sources of impairment may not be evident in the field and there may be other pollutants contributing to use impairment that were not listed. Once on the 303(d) list, subsequent intensive monitoring and watershed reconnaissance of land uses will more fully identify causes and sources of impairments.

### 3.2.6 Determination of Assessment Segments

Once an assessment was made on a waterbody, an appropriate segment or portion of the waterbody representative of the monitored area was determined. Part of this determination was based on the type of monitoring (e.g. physicochemical, biological, bacteriological, fish tissue, or lake/reservoir).

Aquatic Life, Recreation and Fish Consumption Uses. This monitoring activity occured throughout the state at the Primary Ambient Water Quality Stations (Primary Network) and in the Rotating Watershed Stations particular to the BMU cycle phase. Since the Primary Network stations are located on large streams and rivers, these assessment segments are taken downstream and upstream of significant streams entering the monitored stream. Significance of tributaries is based on the watershed area and

relative volume. Another important factor considered in defining segments is significant changes in land use, such as from a contiguous forested area to a non-forested area with fragmented riparian vegetative zone. Habitat conditions along the corridor are assessed for the same reasons as physicochemical parameters for biological communities. Since many of KDOW's PCR-SCR (recreation) monitoring locations are associated with the ambient water quality network, the same rationale is used to define these segments and typically is the same as the defined segment for the accompanying aquatic life use assessment.

Waters assessed for aquatic life use with biological community data often will be of shorter segment reach since biological indicators are typically more responsive to subtle changes in water quality as they integrate these conditions over a relatively long time. Typically the smaller the watershed, a proportionately greater segment will be defined since the conditions and influences from surrounding land use were similar and localized. In larger watersheds, typically greater than five square miles, proportionately smaller assessment segments are defined because of the increased potential of pollutant sources and habitat influences. These segments often are defined by upstream and downstream tributaries judged to be of significant drainage area to the receiving stream.

Fish consumption segments are defined in a similar method as those reaches assessed using only physicochemical or bacteria data. Many fish species are relatively far ranging, and that factor has significant consideration in defining segments. Also, with the plethora of sources, and the likelihood that much of the mercury contamination in waters comes via atmospheric deposition, relatively long reaches are often defined when making these assessments. However, significant tributaries are often used to make the upstream and downstream termini, with less consideration given to habitat for the reasons given above.

Drinking Water Use. Since this use was assessed utilizing finished water data supplied by Public Water Systems (PWS), the assessed segments were usually conservative when applied to the source water. The assessment segments were typically taken from the point of withdrawal and extended upstream one mile. A few exceptions to that rule occurred when multiple uses were assessed (e.g. fish tissue, aquatic life) in the same general area of PWS withdrawal points. Those segments were usually longer (see

section above on these use assessment segments) in order to accommodate other uses that overlapped the PWS withdrawal point. For reservoirs, the assessment was applied to the waterbody.

### 3.3 Use Assessment Results, 2007-2008

Section Overview. This section of the IR presents assessment results focused primarily on two BMUs, the Upper Cumberland – 4-Rivers and Green – Tradewater, which were monitored in 2005 and 2006, respectively. However, a statewide summary updating all waters and segments assessed prior to 2005 was incorporated into overall use support summaries and statistics (10,563 miles representing approximately 12 percent of stream miles at a resolution of 1:24,000 [Table 3.3.1-1]) and is presented in the following subsection. Appendix 'A' contains a table with all assessed waters and the support level per use assessed. Targeted and random biosurvey results of streams were presented with particular focus on the two BMUs of this reporting cycle. The KDOW continues to census lakes and reservoirs in the commonwealth, and trend information on these reservoirs is presented following 25 years of data related to trophic state analyses. The COE reservoirs were monitored by that agency, and the results of those data and trophic status of trends were also provided in the lakes section.

#### 3.3.1 Statewide Assessment Results (Use Support)

Targeted Monitoring: Streams and Rivers. For this monitoring and reporting period (Upper Cumberland – 4-Rivers and Green - Tradewater BMUs) there were 563 stream segments representing 2,506 miles assessed in the Upper Cumberland – 4-Rivers BMU and 437 stream segments totaling 2,548 stream miles during the water-years of 2005-2006. These data represent years three and four of the second five-year intensive monitoring effort based on rotating BMUs. Probabilistic monitoring results are included in the targeted monitoring statistics since that method is used for both specific stream reach assessments as well as extrapolation of data for aquatic life use support in a given BMU. Miles of streams and segments that are fully supporting assessed uses (Categories 1, 2 which includes 2B) total 4,538; streams and rivers with segments not fully supporting assessed uses (Categories 4A, 4B, 4C, 5A and 5B) total 6,562 miles (Table

3.3.1-1). The uses most commonly assessed were aquatic life, primary and secondary contact recreation and drinking water. There were 9,184 total stream miles (51.5 percent) fully supporting those six designated uses (Table 3.3.1-2).

Aquatic Life Use. Nonsupport category of warm water and cold water aquatic habitat uses continues to represent the greatest number of assessed stream miles, with 4,474 combined miles (Table 3.3.1-2) representing 47 percent of stream miles assessed for aquatic life use. This increase of 8.4 percent represents an additional 733 miles compared to the 2006 IR reporting cycle (3,741 mi.) (KDOW, 2006b) The frequency of assessed miles not fully supporting is the second highest in the state (by percentage of designated use assessed miles). Compared to the 2004 305(b) report, stream miles that do not support aquatic life use have increased 1,479 miles.

Fish Consumption. The percentage of assessed stream miles that fail to support this DU is 35.3 percent (Table 3.3.1-2), compared to 58.1 percent in the 2006 IR. This is a direct effect of removing the Ohio River stream miles from the Kentucky ADB, a result of this waterbody treated as interstate waters deferring to ORSANCO's 305(b) report for the Ohio River mainstem (ORASANCO, 2008). Besides the statewide fish consumption advisory for mercury, longstanding waterbody-specific consumption advisories for fish remain in effect in several rivers and streams throughout the commonwealth (http://www.water.ky.gov/sw/advisories/). Two new waterbodies were added to the waterbody-specific consumption advisory due to both methylmercury and PCBs: Knox Creek and Fish Trap Lake, both in Pike County. Knox Creek originates in Virginia and is a tributary of Tug Fork River. Fishtrap Lake is approximately 1,100 surface acres and was formed by impounding the Levisa Fork. The fish consumption advisory includes the entire reservoir and the Levisa Fork from the reservoir backwaters to the Kentucky - Virginia state line. Virginia has a similar fish consumption advisory on Knox Creek to headwaters and a portion of Levisa Fork. The primary source of mercury entering waters is thought to be via air emissions. Because of

Table: 3.3.1-1. Size of Surface Waters assigned to reporting categories for Kentucky

Total Segments		1981	115	12	12	2	0
Total T		10,553.26	219,096.15	10.48	571.00	4.80	324,000.00
	5B	81.70	0.00	0.50	0.00	0.00	0.00
	S.	6082.77	98,866.10	10.45	256.00	1.50	0.00
	4C	1.30	459.00	0.00	0.00	0.00	0.00
	4B	0.00	0.00	0.00	0.00	0.00	0.00
Category	44	396.68	0.00	0.00	0.00	0.00	0.00
	8	185.10	0.00	0.00	0.00	0.00	324000.00
	$2B^2$	650.70	12,451.00	0.00	193.00	0.00	0.00
	2	3870.11	65,881.05	0.03	315.00	3.30	0.00
		17.30	3,890.00	0.00	0.00	0.00	0.00
<u>Waterbody</u> <u>Type</u>		RIVER (MILES)	FRESHWATER 53,890.00 65,881.05 12, RESERVOIR (ACRES)	SPRING (MILES) 0.00	FRESHWATER LAKE (ACRES)	POND (ACRES)	FRESHWATER WETLANDS (ACRES)

<sup>1</sup>Refer to Table 3.2-1 on page 47 for a definition of each reporting category
<sup>2,</sup>Total in State" sum does not include miles in this subcategory as these miles may also occur in other categories (i.e. 1, 2, 4B, 5 and 5B)

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Table 3.3.1-2. Individual designated use support summary for streams and rivers in Kentucky (miles)

Designated Use	Total in State	Total Assessed	Supporting- Attaining WQ Standards	Supporting- Attaining WQ Standards but Threatened	Not Supporting- Not Attaining WQ Standards	Not Assessed
Warm Water Aquatic Habitat	10,192.55	9,169.85	4,768.35	2.2	4,399.3	1,022.2
Cold Water Aquatic Habitat	365.01	360.61	285.81	0	74.8	4.4
Fish Consumption	10,553.26	1,244.8	805.0	0	439.8	9,308.46
Primary Contact Recreation	10,553.26	4,493.03	1,345.5	0	3,147.53	6,060.23
Secondary Contact Recreation	10,553.26	1,867.68	1,294.85	0	572.83	8,685.58
Drinking Water	869.25	684.35	684.35	0	0	184.9

interstate issues and complexity of identifying all sources of mercury, EPA is conducting national studies and will likely be involved in eventual efforts to calculate TMDLs and reduce mercury inputs by setting new mercury limits.

Polychlorinated biphenyls (PCBs) are man-made chemical products that are similar in structure. These chemicals are toxic and persistent in the environment. In 1976 Congress passed legislation that prohibits the manufacture, process and distribution in commerce of PCBs. Polychlorinated biphenyls contaminate fish flesh in six streams totaling 142.8 miles as listed below:

- Knox Creek from mouth at Tug Fork River to Kentucky Virginia state line
- Levisa Fork from Fishtrap Lake backwaters to Kentucky Virginia state line

- Mud River from Hancock Lake Dam to mouth in Logan, Butler and Muhlenberg counties
- Town Branch Creek, headwaters to mouth in Logan, Butler and Muhlenberg counties
- West Fork Drakes Creek, dam at City of Franklin to mouth in Simpson and Warren counties
- Little Bayou Creek from headwaters to mouth in McCracken County

Primary (Swimming) Contact Recreation Use. The percentage of assessed stream miles that do not support primary contact recreation (PCR) is now the highest of all uses at 70.1 percent (Table 3.3.1-2). This represents a 46.6 percent increase over 2006 number of assessed miles not supporting recreation uses. This designated use also represents the second highest number of assessed stream miles, 4,493.03 (Table 3.3.1-2). Note that this designated use applies during the recreation months of May through October.

There continues to be a number of swimming advisories on segments of streams and rivers in Kentucky. Below are the waterbodies and segments where advisories exist. Fish consumption advisories on the Ohio River may be found in Section 3.3.3. One may also access this information at: <a href="http://www.water.ky.gov/sw/advisories/swim.htm">http://www.water.ky.gov/sw/advisories/swim.htm</a>.

### Upper Cumberland River Basin

- Cumberland River from SR 2014 bridge to Pineville SR 66 bridge and from SR 219 bridge to Harlan
- Martins Fork from Harlan to Cawood Water Plant
- Catrons Creek
   Clover Fork

### Upper Cumberland River Basin (cont.)

- Straight Creek
- Poor Fork from Harlan to Looney Creek
- Looney Creek from mouth to Lynch Water Plant Bridge

#### Lower Licking River Basin

- Banklick Creek
- Threemile Creek

## North Fork Kentucky River Basin

North Fork Kentucky River upstream of Chavies to source (headwaters)

secondary Contact Recreation Use. Secondary contact recreation designated use applies year-round, and criteria for support of this use are based on fecal coliform standard of 2000 colonies/mL in streams, lakes and reservoirs. There are 572.83 miles not supporting this use out of 1867.68 miles of streams assessed. This represents 30.7 percent of assessed waters that do not support this designated use. Compared to 2006 results, this is an increase of 50.4 percent. With the implementation of *E. coli* as the indicator organism for recreation-monitored waters, the SCR use will have decreasing number miles assessed since there are no EPA-recommended criteria based on *E. coli*. No comparison for years prior to the 2006 IR can be made as no assessments for the SCR use in flowing waters were made based on pathogens. In streams and rivers, the secondary contact recreation standard is applied to protect people from incidental water contact or partial body emersion that may occur in such activities as fishing and boating.

**Drinking Water Use.** Drinking water standards apply to the source water at point of intake. Drinking water use support was assessed by review of the average quarterly results for contaminants as reported in MORs (monthly operating reports that are required by the Safe Drinking Water Act). The average annual result of these quarterly data is determined for compliance purposes. The MCLs (maximum contaminant levels) are based on concentration of each contaminant in the finished product distributed for public consumption. Of those streams assessed, all were fully supporting drinking (domestic) water use.

Probability Monitoring: Aquatic Life Use. A simple question has been asked throughout the 35-year history of the Clean Water Act: "What is the condition (health) of the nation's waters?" Various studies have been undertaken to answer that question. However, findings concluded that while agencies have been good at collecting data about site-specific conditions of states' waters, there exist no data to determine the overall condition and trend of the waters on a national scale. A national study was undertaken to answer that question and related questions (Are water quality [fishable and swimmable] conditions improving? Are there new issues and threats related to aquatic ecosystem health or any successes?) to help citizens determine if more money and resources need to go toward water quality issues, or if the billions of dollars being spent to curb and control pollution is simply not working.

hydromodifications); 2) agriculture; 3) urban or municipal; 4) "source unknown;" and 5) mining (Table 3.3.1-4). For the first time, habitat related (other than hydromodifications) sources are the leading contributor of causes per assessed river mile in the commonwealth. Agriculture sources displaced "source unknown" in 2006 as the number one contributor and is now second, associated with 2,777 miles of nonsupporting streams in Kentucky. The category "Waste Disposal" has the greatest increase of miles since the last biennium, nearly fourfold increase in total miles (609 miles currently). This increase is followed closely by "Urban Municipal" and "Residential Related," each an approximate increase of 2x over the same period of time (KDOW, 2006b). These statistics are the result of grouping related sub-categories under broad categories to better reflect those significant sources that contribute to impairment of streams in the state.

Individual use support by major river basin is shown in Table 3.3.1-5. This overview of the commonwealth's major river basins shows the greatest percentage of assessed river miles not supporting aquatic life use is found in the Mississippi River Basin. The Big Sandy River has the second greatest percentage of nonsupporting miles followed by the Tradewater River basin, the lower Cumberland River basin and the Ohio River minor tributaries. Those particular basins (Mississippi, Big Sandy, lower Cumberland, Ohio, and Tradewater) are each in areas of intensive land use. The Big Sandy River Basin is one of the most intensive coal producing areas, and the lower Cumberland, Mississippi River, Ohio River minor tributaries and Tradewater River watersheds are in areas of large-scale crop production. Approximately one-third or less of assessed stream miles in the Mississippi and Big Sandy, lower Cumberland and Tradewater basins, and about 40 percent of assessed river miles in the Tradewater River basin, fully support aquatic life use (Figure 3.3.1-1).

The most problematic basins for miles of nonsupporting primary contact recreation are: Tennessee (94.4 percent); Mississippi (94.1 percent); Salt (85.6 percent); Big Sandy (83.5 percent); and Tygarts (82.2 percent) (Table 3.3.1-5). Compared to the 2006 IR, basins with an increase in percentage of assessed miles supporting PCR are the upper Cumberland, Tradewater, Tennessee and lower Cumberland (Figure 3.3.1-2). These basins (with the exception of Big Sandy) have one common denominator: widespread agriculture. The Tennessee and Mississippi basins are intensely managed for agriculture, especially row

cropping of soybeans and corn and livestock (primarily cattle) production. Data reported on in the 2004 305(b) report identified the Big Sandy River Basin as having a high percentage of stream miles not supporting PCR primarily because of the high percent of monitored streams where frequent observations were made of straight-pipes from houses that discharged both gray and black water directly into streams. The associated pathogens with the straight-pipe discharge have no effect on the aquatic life as they target warmblooded hosts. The upper Cumberland River basin has long been a problematic area for pathogen-related water quality concerns. This region is mountainous with dense populations residing in the narrow stream valleys, the only areas suitable for human settlement and commerce. This landform does not have adequate soil types (shallow, rocky) or land available outside floodplains for proper septic treatment. However, a significant change in this region over the past 10 years has been afforded through federal grant dollars becoming available to the area for constructing regional and cluster wastewater treatment facilities. This has successfully moved communities to these treatment facilities and out of floodplain and direct river discharge of untreated sewer water from straight-pipes.

To better contrast the changes of designated use (specifically aquatic life and primary contact recreation) support to the last 305(b) cycle on a basin-scale, Figure 3.3.1-2 illustrates the relative change in designated use support between the two periods. This graph highlights that while this reporting cycle is focused on the Upper Cumberland – 4-Rivers and Green Tradewater BMUs, this report includes a comprehensive statewide update to all BMUs. Those basins that have a positive percent change (increase in full support) considering both DUs are: Green; lower and upper Cumberland; Mississippi; Tennessee; and Tradewater. The greatest decline in assessed DU is the Salt, Licking and Kentucky basins for both DUs (Figure 3.3.1-2). A sure reason for this decline is attributable to intensive TMDL-related monitoring studies in certain 303(d) listed watersheds during this 305(b) reporting cycle.

Table 3.3.1-3. Ranking of causes (pollutants) to Kentucky rivers and streams.

la	ole 3.3.1-3. Ranking of causes (politicality) to Rentucky river	rs and streams.
	Cause	Total Size
1.	Sedimentation/Siltation	
2.	Fecal coliform $+ E. coli$ (pathogen indicators)	
3.	Nutrient/eutrophication biological indicators	
4.	Habitat assessment (streams)*	
5.	Cause unknown	730.35
6.	Organic enrichment (sewage) biological indicators	
7.	Total dissolved solids	704.62
8.	Physical substrate habitat alterations	478.4
9.	Other flow regime alterations*	
10.	Sulfates	288.22
11.	Methylmercury	270.9
12.	pH	269.08
13.	Benthic-macroinvertebrates bioassessment (streams)*	257.60
	Turbidity	
	Iron	
	Particle distribution (embeddedness)	
	Specific conductance	
	Phosphorus (total)	
19.	Oxygen, dissolved*	118.35
	Polychlorinated biphenyls	
	PCB in fish tissue	
	Total suspended solids (TSS)	
	Alteration in stream-side or littoral vegetative covers*	
	Chloride	
	Nitrate/nitrite (nitrite + nitrate as N)	
	Mercury in fish tissue	
	Lead	
	Aquatic algae*	
	Copper	
	Dissolved oxygen saturation*	
	Nonative fish, shellfish or zooplankton	
	Temperature, water*	
33.	Fishes bioassessment (streams)*	41.60
34	Cadmium	40.20
35	Ammonia (un-ionized)	33.90
36	Total Kjeldahl nitrogen (TKN)	14.40
	Zinc	
	Mercury	
39	Non-native aquatic plants*	10.10
	Nitrogen (total)	
41	Aquatic plants (macrophytes)*	0.20
	Chloride	
	BOD, carbonaceous	
	Manganese	
77.	wanganese	

Cause	Total Size
45. Ethylene glycol	
46. Nickel	3.60
47. Chromium (total)	2.60
48. Nitrates	0.20
*Pollution rather than pollutants	
Table 3.3.1-4. Probable sources of impairment to Kentucky rive	
Source Categories	<u>Miles</u>
Habitat Related (other than hydromodification)	
Loss of riparian habitat	1335.4
Channelization	
Streambank modifications/destabilization	526.2
Site clearance (land development or redevelopment)	
Dredging (e.g. navigation channels)	
Habitat modification – other than hydromodification	14.1
Category total	
Agriculture	
Unspecified	
Non-irrigated crop production	659.7
Crop production (crop land or dry land)	369.3
Managed pasture grazing	189.2
Grazing in riparian or shoreline zones	117.4
Irrigated crop production	84.9
Rangeland grazing	82.5
Animal feeding operations (NPS)	41.6
Manure runoff	21.9
Unrestricted cattle access	15.6
Permitted runoff from confined animal feeding operation	ns (CAFOS)5.0
Crop production with subsurface drainage	4.5
Dairies (outside milk parlor areas)	3.6
Specialty crop production	3.6
Category total (agriculture)	2,776.5
Irban or Municipal	
Municipal point source discharges	829.7
Discharges from municipal separate storm sewer systems	
Urban runoff/storm sewers	360.4
Unspecified urban stormwater	
Sanitary sewer overflows (collection system failures)	
Wet weather discharges (point source and combination of	
stormwater, SSO or CSO)	
Municipal (urbanized high density area)	77.7

Source Categories	<u>Miles</u>
Impervious surface/parking lot runoff	25.4
Combined sewer overflows	6.5
Category total	
Source Unknown (total)	<u>2,342.5</u>
Mining	
Surface mining	756.0
Subsurface (hardrock) mining	
Coal mining	
Acid mine drainage	
Impacts from abandoned mine lands (inactive)	
Heap-leach extraction mining	78.5
Coal mining (subsurface)	
Mine tailings	
Dredge mining	
Reclamation of inactive mining	
Sand/gravel/rock mining or quarries	6.6
Reclamation of inactive mining	5.9
Category total (mining)	<u>1,671.5</u>
Residential Related	
Package plant or other permitted small flows discharges	443.0
On-site treatment systems (septic systems and similar	
decentralized systems)	358.7
Sewage discharges in unsewered areas	
Rural (residential areas)	
Unspecified domestic waste	
Residential districts	13.3
Category total	
Waste Disposal	
Inappropriate waste disposal	440.8
Landfills	
Septage disposal	
Illegal dumps or other inappropriate waste disposal	
Category total	

Table 3.3.1-4 (cont.). Probable sources of impairment to Kentucky rivers and streams. Source Categories Miles Miscellaneous Drainage/filling/loss of wetlands 4.8 NPS pollution from military base facilities (other than port facilities.....2.6 Golf courses 4.8 Category total 527.4 Erosion and Sedimentation Channel erosion/incision from upstream hydromodifications.......53.2 Category total 425.4 Silviculture Woodlot site management .......43.6 **Transportation** Highway/road/bridge runoff (non-construction related) 273.3 Highways, roads, bridges, infrastructure (new construction)......90.3 Category total 365.3 Industrial Industrial/commercial site stormwater discharge (permitted)......79.0 Category total 194.9

Table 3.3.1-4 (cont.). Probable sources of impairment to Kentucky rive	ers and streams.
Source Categories	Miles
Fuel or Energy Related (other than coal)	
Petroleum/natural gas activities	31.2
Petroleum/natural gas production activities (permitted)	13.7
Category total	<u>44.9</u>
Hydromodifications: dams or impoundments (stream flow)	
Dam or impoundment	22.2
Impacts from hydrostructure flow regulation/modification	14.2
Upstream impoundments (e.g. NRCS structures)	
Category total	40.0

Table 3.3.1-5. Number of river miles assessed and level of support by use in each major river basin. Those basins in bold type are emphasized in this reporting cycle.

Basin	Total		Partially	
	Assessed	Supporting	Supporting	Not Supporting
Big Sandy				
Aquatic Life	644.4	210.8	274.8	159.7
Fish Consumption	66.6	48.4	15.3	0.0
-	288.1	95.2	21.0	219.5
Primary Contact Rec.	48.0	0.0	2.5	45.5
Secondary Contact Rec.	48.1	48.1	0.0	0.0
Drinking Water				
	1000			
Green River				
Aquatic Life	1869.8	1075.6	440.3	354.0
Fish Consumption	338.3	176.2	101.0	61.1
Primary Contact Rec.	1043.3	422.3	206.9	424.2
Secondary Contact Rec.	616.4	362,3	81.6	172.5
Drinking Water	274.5	255.4	0.0	0.0
Kentucky River				
Aquatic Life	1835.9	1053.6	569.3	213.0
Fish Consumption	326.4	176.3	138.9	11.2
Primary Contact Rec.	903.0	208.8	160.6	533.6
Secondary Contact Rec.	428.5	405.6	5.9	17.0
Drinking Water	169.0	169.0	0.0	0.0
Zimming Water	105.0	105.0	0.0	0.0
Licking River				
Aquatic Life	756.6	390.1	223.6	143.0
Fish Consumption	55.4	55.4	0.0	0.0
Primary Contact Rec.	476.1	149.4		
Secondary Contact Rec.	155.7	115.1	75.5	251.3
Drinking Water			39.9	0.7
	36.3	36.6	0.0	0.0
Little Sandy				T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Aquatic Life	210.7	108.3	85.9	16.5
Fish Consumption	25.6	25.6	0.0	0.0
Primary Contact Rec.	62.3	60.6	0.0	1.7
Secondary Contact Rec.	0.0	0.0	0.0	0.0
Drinking Water	14.3			
Dilliking water	14.3	14.3	0.0	0.0

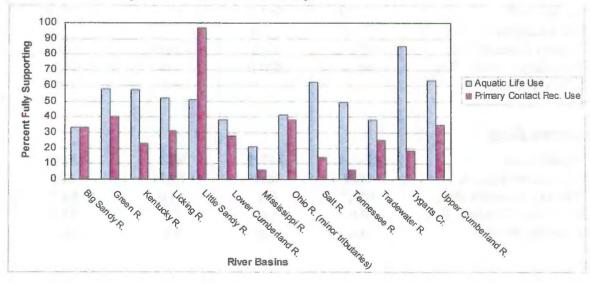
Table 3.3.1-5 (cont.). Number of river miles assessed and level of support by use in each major river basin. Those basins in bold type are emphasized in this reporting cycle.

	ng cycle.			
Basin	Total Assessed	Supporting	Partially Supporting	Not Supporting
			**	
Lower Cumberland				
Aquatic Life	354.9	135.1	126.8	90.4
Fish Consumption	48.8	39.4	9.4	0.0
Primary Contact Rec.	179.2	50.2	38.6	93.0
Secondary Contact Rec.	2.4	0.0	2.4	0.0
Drinking Water	33.2	33.2	0.0	0.0
Mississippi River		+		
Aquatic Life	275.7	57.6	117.4	100.7
Fish Consumption	93.9	93.9	0.0	0.0
Primary Contact Rec.	63.2	3.7	12.2	47.25
Secondary Contact Rec.	5.4	0.0	0.0	5.4
<b>Drinking Water</b>	0.0	0.0	0.0	0.0
Ohio Divon (minon triba)	0.0	0.0	0.0	0.0
Ohio River (minor tribs)				
Aquatic Life	489.7	203.1	144.5	142.2
Fish Consumption	29.6	22.4	0.0	7.2
Primary Contact Rec.	159.1	60.3	12.6	86.2
Secondary Contact Rec.	79.4	60.9	0.0	18.5
Drinking Water	0.0	0.0	0.0	0.0
Salt River				
	1070 (	((1)	250.2	1761
Aquatic Life	1070.6 73.3	664.2	250.3	156.1
Fish Consumption		47.0	14.3	12.0
Primary Contact Rec. Secondary Contact Rec.	471.6 247.2	67.8	119.0	284.8
Drinking Water	5.2	228.0 5.2	0.0	19.2
Diffiking water	3.2	3.2	0.0	0.0
Tennessee River				
Aquatic Life	295.1	143.5	98.9	52.8
Fish Consumption	26.4	15.1	11.3	0.0
Primary Contact Rec.	109.7	6.2	39.0	64.5
Secondary Contact Rec.	0.0	0.0	0.0	53.6
Drinking Water	0.0	0.0	0.0	0.0

Table 3.3.1-5 (cont.). Number of river miles assessed and level of support by use in each major river basin. Those basins in bold type are emphasized in this

reportir	ng cycle		-3-	
Basin	Total	Lane.	Partially	
100 040	Assessed	Supporting	Supporting	Not Supporting
Tradewater River				
Aquatic Life	292.8	110.4	71.6	110.8
Fish Consumption	0.0	0.0	0.0	0.0
Primary Contact Rec.	145.9	36.4	0.0	109.5
Secondary Contact Rec.	105.4	34.8	17.0	53.6
Drinking Water	0.0	25.8	0.0	0.0
Tygarts Creek				
Aquatic Life	113.3	96.2	16.0	1.1
Fish Consumption	56.3	10.6	0.0	45.7
Primary Contact Rec.	55.6	9.9	0.0	45.7
Secondary Contact Rec.	0.0	0.0	0.0	0.0
Drinking Water	10.6	10.6		0.0
Upper Cumberland				
Aquatic Life	1320.3	835.2	254.3	230.9
Fish Consumption	104.55	91.9	12.4	0.0
Primary Contact Rec.	535.7	184.9	51.6	299.2
Secondary Contact Rec.	178.6	88.6	4.0	86.0
Drinking Water	86.5	86.5	0.0	0.0

Figure 3.3.1-1. Aquatic life and primary (swimming) contact recreation use support by major river basins in Kentucky.



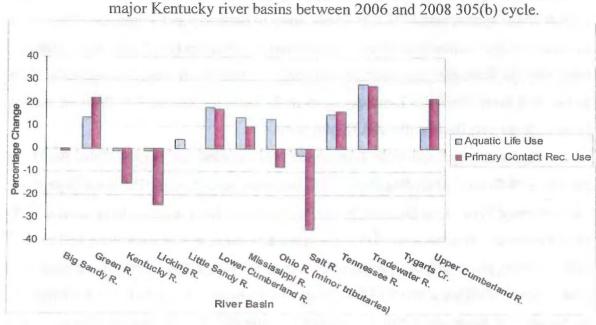


Figure 3.3.1-2. Percent change regarding full support level (based on stream miles) in

# 3.3.2 Use Assessment Results for 305(b) Reporting Cycle 2007 and 2008

Upper Cumberland - 4-Rivers BMU. This BMU is divided in two primary basins, the upper Cumberland River in southeast and south Kentucky and 4-Rivers in southcentral and west Kentucky. The Cumberland River basin rises in southeast Kentucky near the Kentucky - Virginia border in Letcher County on the southeast slope of Pine Mountain. It drains much of southeast Kentucky, enters Tennessee below Burkesville, Kentucky, then re-enters the commonwealth in west Kentucky just west of Fort Campbell military base, discharging (30,441 cubic feet per second) into the Ohio River near Smithland after flowing 687 miles from the source waters. The entire drainage basin is 18,081 square miles and drains parts of Kentucky and Tennessee. The Cumberland and Tennessee rivers parallel each other, and both discharge into the Ohio River within nine linear miles of each other.

The diverse physiographic characteristics of these two portions of the BMU have influenced the ecoregions and diversity of plants and animals immensely. These two regions of the state are characterized by low mountains (Black Mountain elevation 4,145 ft.) and high plateau in the upper Cumberland River watershed transitioning to cypress swamps, bottomland hardwoods and coastal plain regions in southwest and west Kentucky where these rivers discharge, draining a region bound roughly from north to south from southwest New York to north Alabama and east to the southern Appalachian provence of

Virginia. The upper Cumberland River basin drains approximately 6,250 square miles and overall drains approximately 18,000 square miles in Kentucky and Tennessee. The mainstem of the Cumberland River is approximately 700 miles (1,127 km) long. Major tributaries (in Kentucky) include: 1) South Fork; 2) Little South Fork; 3) Rockcastle River; and 4) Red River. Principal Kentucky cities in the basin are: Harlan; Middlesboro; Corbin; London Somerset; Burkesville; and Hopkinsville.

The Mississippi, Ohio and Tennessee rivers complete that portion of this BMU known as "4-Rivers" (including the lower Cumberand River basin). These are large rivers; the Tennessee River is the largest tributary of the Ohio. The Tennessee River drains 40,876 square miles covering portions of seven southeastern states as it courses along 652 river miles draining physiographic regions as diverse as the Blue Ridge Mountains to coastal plain where it discharges into the Ohio River near Paducah. The Ohio River discharges into the Mississippi River near Cairo, Illinois at river mile 981. It is the largest tributary of the Mississippi with an average discharge volume of 281,000 cubic feet per second draining 189,422 square miles of watershed extending from New York to Alabama. This river represents an aquatic climatic transition zone as it courses along the periphery of the humid subtropical and humid continental climatic zones integrating fauna and flora of both zones. The Mississippi River is the largest river in the US, both in system length (2,320 miles) and drainage area (1,151,000 square miles). It flows along Kentucky's western border with Missouri for 68 miles.

Following are highlights of data and statistical analyses related to the two BMUs of emphasis for this particular 305(b) cycle, both targeted and probability-based water quality and biosurveys to determine aquatic life use and other monitoring results as they relate to each of the four designated uses. Appendix 3.A contains a complete table of monitoring results for each specific water body and segment as related to streams and rivers. This table contains all significant information in abbreviated form providing a quick reference for each assessed water body or segment, the level of support, pollutants, related and sources. For refinement to the degree of use support, nonsupport miles were further subdivided into partial support and nonsupport categories based on physicochemical, MBI or KIBI scores and are reflected in this 305(b) assessment. This assists KDOW and the public in recognizing the relative degree of potential pollutant and habitat impacts on each system.

Appendix 3.B contains reach indexing maps of these assessment results based on NHD 1:24,000 scale data for this BMU.

Causes, Sources and Land Uses. Causes (pollutants) and sources of pollutants or pollution particular to the Upper Cumberland – 4 Rivers BMU are listed in Table 3.3.2-1. The upper Cumberland and lower Cumberland River have similar causes and sources of impairment even though the two "basins" drain different physiographic provinces and varied drainage land uses particular to each portion of the basin. These physiographic regions between the upper and lower basins have differing landscape and geologic characteristics. The upper basin drains approximately 5,200 square miles within Kentucky, primarily in the Cumberland Plateau and Mountains physiographic region, which encompasses about 10,500 square miles. This region is a highly dissected plateau with steep slopes and narrow sinuous valleys. The geologic stratigraphy is composed mainly of sandstone, shale and coal. Thus, the pH is slightly lower in this region (decidedly so on the south slope of Pine Mountain) as compared to most of the state with less buffering capacity of those waters. The primary land uses in this region are deep and surface mineral (coal) extraction, forest-related activities and small-scale livestock grazing, with small cities dotting the landscape in the valleys. The limestone strata are primarily in that portion of this basin that flows through the eastern Pennyroyal. This landscape is rugged, as it is the foothills of the Cumberland Plateau, having fertile broad bottomland in the river valleys where most of the agriculture is practiced. The terrain has significant karst with sinkholes, caves and underlying streams that increases the sensitivity of the watersheds to surface uses. In landscapes of significant resource extraction, sedimentation and dissolved solids (specific conductance) and pH are often the prevailing pollutants as vegetation is removed and bare soil and geologic strata are exposed. Elevated total dissolved solids are a particular concern in these waters that often have low buffering capacity and are naturally infertile. In areas of significant land disturbance and exposure of geologic strata, an abundance of ions from minerals such as iron, magnesium and calcium are liberated into the water column, along with other metals. These three impairments of issue within the BMU, along with related habitat disruption or loss, account for 487 miles of the 843 miles (58 percent) impacted by the top five pollutants in the upper Cumberland basin (Table 3.3.2-1). The mentioned significant land uses in this basin are reflected in identified

sources of the pollutants. The top three sources are loss of riparian habitat, surface mining and legacy coal extraction; however, the largest portion of pollutant-sources identified went unrecognized and thus is listed as "source unknown" (38 percent) (Table 3.3.2-1).

The lower Cumberland basin is composed of one HUC (05130205) with a drainage area of 1,351 square miles. This watershed is located in the western Pennyroyal Physiographic Region. The landscape is of similar type, although the topography is less rugged and mean elevations are lower with less karstic conditions. Land use is primarily agriculture, with a significant acreage cultivated for corn and soybean production; livestock grazing occurs to a lesser degree. Recreation related uses are associated with Lake Barkley, a large COE reservoir created by damming the mainstem Cumberland River, and adjacent Land Between the Lakes recreation area (US Forest Service). This reservoir located in west Kentucky and Tennessee has 57,920 total water-surface acres with 42,780 water-surface acres in Kentucky. The largest city in this basin is Hopkinsville, with nearby Fort Campbell Military Base to the south. Identified pollutants for this basin are primarily pathogens (bacteria), sedimentation/siltation and nutrient/eutrophication biological indicators, constituting 73 percent of affected stream mileage (Table 3.3.2-1). Primary sources of these pollutants are identified as agriculture, source unknown and crop production, which represents 73 percent of sources identified per affected stream mile (Table 3.3.2-1).

The remainder of this BMU covers the Jackson Purchase region, an area bound on the west by the Mississippi River, north by the Ohio River and east by the Tennessee River. This region is alluvial with loess soils deposited from glaciated areas to the north. Geologically the region is part of the Mississippi River delta, associated with the Gulf Coastal Plain of the southeast US that extends from the mouth of the Mississippi River up to the mouth of the Ohio River. The primary land use on this broad floodplain is row cropping, primarily corn and soybeans. Much of the natural systems of this area have been altered by this intensive agricultural use, particularly the draining of swamps and bottomland hardwoods for crop production.

Table 3.3.2-1. Number of assessed river miles of the top five causes and sources in the major river basins within the 4-Rivers BMU and Green-Tradewater Rivers BMU.

River Basin	Miles	3/2/10/20	Miles
Lower Cumberland		THE PERSON ASSESSED.	
Causes		Sources	
Pathogens	129.0	Agriculture	320.4
Sedimentation/Siltation	124.1	Source Unknown	197.6
Nutrient/Eutrophication Biological Indicators	108.3	Crop Production (Crop Land or Dry Land)	170.2
Cause Unknown	77.7	Municipal Point Source Discharges	138.5
Organic Enrichment (Sewage) Biological Indicators	53.0	Non-irrigated Crop Production	117.6
Mississippi River			
Sedimentation/Siltation	177.35	Channelization	251.7
Other Flow Regime Alterations	76.8	Loss of Riparian Habitat	239.4
Pathogens	64.95	Agriculture	155.8
Nutrient/Eutrophication Biological Indicators	51.65	Source Unknown	137.4
Habitat Assessment (Streams)	41.2	Non-irrigated Crop Production	132.9
Tennessee River			
Pathogens	103.5	Source Unknown	207.2
Cause Unknown	78.6	Agriculture	144.45
Sedimentation/Siltation	48.0	Channelization	64.5
Nutrient/Eutrophication Biological Indicators	37.6	Non-irrigated Crop Production	63.6
Iron	24.0	Crop Production (Crop or Dry Land)	58.8
Upper Cumberland			
Sedimentation/Siltation	307.55	Source Unknown	322.95
Pathogens	271.0	Loss of Riparian Habitat	299.95
pН	89.98	Surface Mining	239.1
Specific Conductance	89.25	Legacy Coal Extraction	164.7
Nutrient/Eutrophication Biological Indicators	85.35	Agriculture	141.85
Ohio River Minor Tributaries (4-Rivers & Green-Tradewater BMU)			

Table 3.3.2-1. Number of assessed river miles of the top five causes and sources in the major river basins within the 4-Rivers BMU and Green-Tradewater Rivers BMU.

River Basin	Miles		Miles
Ohio River Minor Tributaries (4-Rivers & Green-Tradewater BMU			
Causes		Sources	
Nutrient/Eutrophication Biological Indicators	86.2	Loss of Riparian Habitat	136.4
Sedimentation/Siltation	77.6	Agriculture	103.5
Pathogens	68.5	Industrial Point Source Discharges	96.0
Physical Substrate Habitat Alteration	56.4	Source Unknown	94.6
Cause Unknown	44.6	Inappropriate Waste Disposal	88.8
Green River			
Pathogens	554.65	Source Unknown	718.5
Sedimentation/Siltation	485.45	Loss of Riparian Habitat	556.3
Physical Substrate Habitat Alteration	282.6	Agriculture	415.85
Nutrient/Eutrophication Biological Indicators	196.7	Channelization	391.6
Cause Unknown	176.55	Non-irrigated Crop Production	334.3
Tradewater River			
Sedimentation/Siltation	108.8	Channelization	169.7
Pathogens	81.65	Source Unknown	161.5
Nutrient/Eutrophication Biological Indicators	53.9	Loss of Riparian Habitat	155.7
Other Flow Regime Alterations	49.3	Surface Mining	144.7
Physical Substrate Habitat Alteration	45.5	Non-irrigated Crop Production	102.1

The Tennessee River drainage in Kentucky is an area identified by two eight-digit HUCs, (06040005 and 06040006), with a total drainage of 1,041 square miles. The largest tributary in this portion of the Tennessee River is the Clarks River, which discharges to the Tennessee River four miles above its confluence with the Ohio River.

The Ohio River minor tributaries are identified by one eight-digit HUC (05140206) and drains 326 square miles. The two principle streams in this drainage are Massac and

Humphrey creeks; the greatest linear distance from the southern watershed boundary to the Ohio River is about 17 miles.

The Mississippi River drainage is bound by three eight-digit HUCs, 08010100, 08010201 and 08010202 encompassing 1,203 square miles. The Obion and Mayfield creeks watersheds are the principal drainages directly discharging into the Mississippi River in the Jackson Purchase (of course excluding the Ohio River).

The most significant pollutant in this region of great rivers is "sediments/siltation," accounting for 359 affected stream miles. Pathogen indicators impact 237 stream miles, and nutrients also are identified as a significant pollutant in this basin, with 175 stream miles affected. Significant sources of these pollutants are agricultural sources (596 stream miles), loss of riparian habitat (376 stream miles) and "channelization" (canalization) (316 stream miles). Those pollutant-sources make sense from a relational association. Sediment/siltation, pathogens and nutrients are closely associated; where one is prevalent, particularly sedimentation/siltation, the others are found also, and the loss of riparian habitat nearly paralleling sedimentation/siltation in this basin. This pollutant affects more stream miles than any other in this BMU, as well as Kentucky and the nation. Soils, particularly clays, have high negative charges and thus adsorb cations readily, and these constituents are then transported to receiving streams where habitat buffering provided by riparian vegetation has been lost. As wetlands were ditched and drained, the delayed result was streams and ditches that filled in with sediments, resulting in substantial flooding and erosion. The result is an ongoing cycle of filling and dredging of these stream channels. Soils in this region are particularly susceptible to erosion since they are of particularly fine material (sands and silts) from wind-carried loess.

### Upper Cumberland River Basin

Targeted Monitoring: Aquatic Life Use. The targeted monitoring effort resulted in 835 miles of 1320 miles (63 percent) assessed for aquatic life in the upper Cumberland River basin as fully supporting (Table 3.3.2-3). This use may be considered the most sensitive to impairments of all uses that apply to streams and lakes because all ecological elements of the aquatic environment must be of a sufficient level of integrity and quality to support aquatic communities dependent on the resource, (both water quality and in-stream

and out-of-stream habitat). While the majority of miles assessed at targeted monitoring locations for aquatic life were assessed based on biological monitoring, some of those miles were assessed using water physicochemical data at long-term and rotating watershed locations.

One additional stream in the Cumberland River basin is proposed as a RR stream in the 2008 Triennial Review (Table 3.1.42). It should be noted as each cycle phase is repeated, a fewer number of stream miles will likely be added to the reference reach list since there has been a concerted effort to locate all least impacted streams. However, identifying new stream segments as exceptional (401 KAR 5:030) will be a part of KDOW's overall monitoring strategy.

Targeted Monitoring: Fish Tissue. Fish tissue samples were analyzed for mercury and PCB contamination in the upper Cumberland River basin. Of the 105 miles assessed for fish consumption, 92 (about 88 percent) were in full support (Table 3.3.1-5). Approximately 13 miles (12 percent) were not fully supporting this use.

Targeted Monitoring: Primary (Swimming) Contact Recreation. Water column samples were analyzed for the presence and quantity of E. coli or fecal coliform colonies to assess this use support. There were 536 river miles assessed in the upper Cumberland River basin (Table 3.3.1-5). Of those river miles, 185 (35 percent) (Figure 3.3.1-1) were fully supporting and 351 miles (65 percent) were partially or not supporting (Table 3.3.1-5). The upper Cumberland River basin (above Pineville) has had a long-standing swimming advisory based on pathogens that remains in effect as of this cycle phase (see section 3.3.1). There were two primary issues related to this high concentration of fecal coliform colonies: municipal point source discharges, with a number of bypasses at wastewater treatment facilities, and straight-pipes discharging untreated household wastewater. Both sources can be tied to topography of the region, which is mountainous with narrow valleys associated with stream and river courses. These valleys provide much of the suitable land where housing can exist with reasonable access. However, available land to construct septic systems with needed lateral lines typically does not exist. The soils in these bottomlands often are poorly drained, further restricting proper on-site treatment in rural areas. A related scenario exists for the wastewater treatment facilities, which often are built in the flood zone of rivers, as these areas provide the limited sites to seat a facility. There is now

a concerted effort in this region to construct regional wastewater treatment plants; this is being realized through federal grant moneys being made available to this economically depressed region.

**Targeted Monitoring: Domestic Water Supply.** All miles (86.5) assessed in the upper Cumberland River basin were fully supporting this use (Table 3.3.1-5).

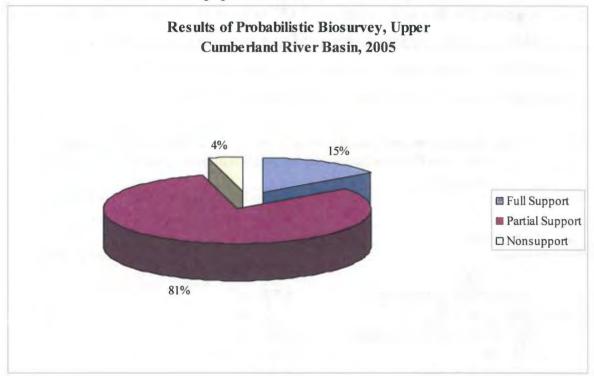
**Probability Biosurvey of BMU.** A biosurvey of the upper Cumberland River basin was performed according to EMAP and Kentucky SOP protocol (Methods for Assessing Biological Integrity Of Surface Waters in Kentucky), 2006. Because of significant refinement and calibration to KDOW's MBI, comparisons to the 2000 results were problematic and not comparable; therefore, drawing trend information comparisons between the two monitoring years was not possible. As Table 3.3.2-3 conveys, out of 5,599 miles of target stream resources, 4,361 miles were represented in the probability analysis. Once the probability data were extrapolated, 653 miles or 15 percent of wadeable streams in this BMU were fully supporting aquatic life use, while 3531 miles or 81 percent of wadeable streams were partially supporting, and four percent (177 miles) were not supporting the aquatic life use (Table 3.3.2-3 and Figure 3.3.2-1).

Table 3.3.2-2. Aquatic use attainment results based on the 2003 probability biosurvey of the upper Cumberland River basin (all numbers rounded to nearest integer).

Project ID	Upper Cumberland – 4-Rivers BMU
	(Upper Cumberland River Basin)
Target Population	Streams Strahler Order 1-5
Sample Frame	EPA River Reach File 3 (1:100,000 Scale)
Type of Water body	Wadeable Streams
Size of Defined Stream Population	6,890 mi
Size of Non-Defined Population	2,529 mi
Size of Defined Sampled Population	4,361 mi
Designated Use	Aquatic Life
Attaining Full Use Support	653 mi
Not Attaining Full Use (partial support)	3,531 mi
Not Attaining Full Use (nonsupport)	177
Indicator	Biology (Macroinvertebrates)
Assessment Date	2005
Precision	90% at 95% Confidence Level

Probability and Targeted Monitoring Compared (Aquatic Life Use). Probability and targeted monitoring results differed in the upper Cumberland River basin (Table 3.3.2-3). In this basin, the reference reach and other target-focused programs identified 280 miles, or 21 percent of those streams monitored and assessed, as candidates for and RR waters (Tables 3.1.4-1 and 2). This has been the focus of targeted biomonitoring since the late 1990s, and it became the significant focus with the inception of the rotating BMU strategy in 1998. However, during the 2005 water-year the focus shifted toward concentrating on water bodies and segments 303(d)-listed. In the BMU-wide assessment data, including all monitoring efforts from 2005 and prior targeted monitoring results

Figure 3.3.2-1. Proportions of aquatic life use support in the Upper Cumberland River basin based on probability biosurveys. Pie chart represents the entire defined stream population (Strahler order 1-5) in the basin.



account for 1320 miles of assessed waters and include 835 miles (63 percent) full support for aquatic life use, 254 miles (19 percent) partial support and 231 (18 percent) nonsupport (Table 3.3.2-3). In those numbers is significant stream mileage where assessment results are based solely on physicochemical data. The number of water bodies assessed on these data alone are small, but this monitoring occurs on large streams of Strahler order 6 and greater. The streams with only physicochemical data are generally large (> 5<sup>th</sup> order) rivers

that provide a considerable amount of dilution, and the chances are small of collecting water at the time any one particular pollutant passes with a concentration high enough to exceed water quality criteria. Of those stream miles assessed with only physicochemical data none in this basin were determined to be less than full support. Probability monitoring design selects an equitable number of Strahler order 1 and 2 streams, in addition to Strahler order 3 - 5. These smaller watersheds show stress in biological communities to relatively smaller-scale perturbations than the large watersheds, which can often assimilate more disturbances relative to watershed size. Also, the approach to locating sample locations differs significantly between the two biological programs. The targeted stations are located in the best available stream reach regardless of the monitoring program (Sections 3.1.1-3), whereas the probabilistic approach is designed to randomly detect the prevailing habitat and associated biological conditions in a defined stream population (like Strahler order watersheds) at randomly select locations throughout the study area (BMU) without regard to prevailing in-stream habitat.

Table 3.3.2-3. Comparison of probability and targeted monitoring results for aquatic life use in the upper Cumberland River basin.

run su	port	Partial Sup	Partial Support		Nonsupport	
obability	Target	Probability	Target	<b>Probability</b>	<b>Target</b>	
653	835	3531	254	177	231	
15	63	81	19	4	18	
	obability	Full Support robability Target 653 835 15 63	obabilityTargetProbability6538353531	obabilityTargetProbabilityTarget6538353531254	obabilityTargetProbabilityTargetProbability6538353531254177	

# 4-Rivers Basin (Lower Cumberland, Lower Ohio [minor tributaries], Mississippi and Tennessee)

Targeted Monitoring: Aquatic Life Use. The targeted monitoring effort resulted in 539 miles (of 1,415 miles) (38 percent) assessed for aquatic life use in the 4-Rivers basins as fully supporting (Tables 3.3.2-5). In this region of intensive agriculture and soil type, determining the support level of aquatic life use will often be inconclusive or may be difficult with less than biological community structure evaluation. This due is to the fact that in large areas with row cropping as dominant land use, the results of chemical monitoring are gratly affected by the timing of agricultural land management. Pesticide and herbicide applications (under proper, prudent use) often are only applied after pest

management data signal the damage is approaching economic threshold where chemical treatment is cost-effective. Thus, if chemical monitoring is not timed to coincide with these agricultural practices, the effects will go unnoticed in conventional physicochemical monitoring. While the majority of miles assessed at targeted monitoring locations for aquatic life were assessed based on biological monitoring, some of those miles were assessed using physicochemical data at long-term and rotating watershed locations. Most of these stations are large watersheds of greater than 5<sup>th</sup>-Strahler order; determining appropriate biological monitoring indicators and protocol are under development on a national level.

**Fish Tissue.** Fish tissue samples were analyzed for mercury and PCB contamination in the 4-Rivers basins. This designated use was assessed on 199 stream miles; of those miles assessed, 86 percent were full support and 14 percent were less than full support (Table 3.3.1-5). Of the three basins considered in this portion of the BMU, the only basin with less than 75 percent not fully supporting this use was the Tennessee River basin with a 57 percent (15 miles out of 26 miles) full support level.

Targeted Monitoring: Primary (Swimming) Contact Recreation. Water column samples were analyzed for the presence and quantity of fecal coliform colonies to assess this use support. There were 511 river miles assessed in these basins for PCR (Table 3.3.1-5). Of those river miles, 120 (24 percent) (Figure 3.3.1-1) were fully supporting and 391 miles (76 percent) were partially or not supporting this use. The majority of those stream miles not supporting this designated use were located in the Mississippi or Tennessee river basins. While all basins in this region are in predominantly agricultural production, these two particular basins comprise the Jackson Purchase region which is intensively managed for this single industry. There were two primary sources related to this high concentration of bacteria colonies, agriculture and loss of riparian habitat. Where agriculture is an intensive land use, the loss of protective riparian vegetation (habitat) is most prevalent. Through efforts of the KDOW and federal agencies, funding (cost share and grants) and education for riparian zone-specific protection is ongoing, although there is much work left to do.

**Targeted Monitoring: Domestic Water Supply.** All miles assessed in the 4-Rivers basins fully supported this use (Table 3.3.1-5).

**Probability Biosurvey of 4-Rivers Basins.** The 4-Rivers basins were sampled according to EMAP and Kentucky SOP (Methods for Assessing Biological Integrity Of Surface Waters in Kentucky), 2006. Because of significant refinement and calibration to KDOW's MBI, comparisons to the 2000 results were problematic and not comparable; therefore, drawing trend information comparisons between the two monitoring years was not possible. As Table 3.3.2-4 conveys, out of 7,443 miles of target stream resources, 5,600 miles were represented in the probability biosurvey and analysis. The target stream mileage population (1,843 miles) is greater than the sampled target population since not all miles in a study area can be accessed for many reasons, most commonly a result of miss-mapped or identified features, but also less commonly due to physical risk in accessing certain areas. Once the probability data were extrapolated, 254 miles or 17 percent of wadeable streams in this BMU were fully supporting aquatic life use, while 5,346 miles, 83 percent of wadeable streams were not fully supporting that use (Table 3.3.2-5 and Figure 3.3.2-2).

Table 3.3.2-4. Aquatic life use attainment results based on the 2005 probability biosurvey of the 4-Rivers basins (numbers rounded to nearest integer).

Project ID	4-Rivers Basins Probability Survey
Target Population	Streams Strahler Order 1-5
Sample Frame	EPA River Reach File 3 (1:100,000 Scale)
Type of Water body	Wadeable Streams
Size of Defined Population	7,443 mi
Size of Non-Defined Population	1,843 mi
Size of Defined Sampled Population	5,600 mi
Designated Use	Aquatic Life
Attaining Full Use Support	565 mi
Not Attaining Full Use (nonsupport)	2,630 mi
Not Attaining Full Use (partial support)	2,404 mi
Indicator	Biology (Macroinvertebrates)
Assessment Date	2005
Precision	90% at 95% Confidence Level

Figure 3.3.2-2. Proportions of aquatic life use support in the 4-Rivers basins, 2005, based on probability biosurveys. Pie chart represents the entire defined stream population (Strahler order 1-5) in the basin.

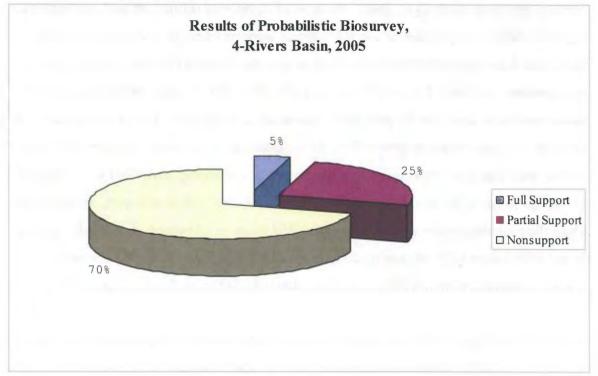


Table 3.3.2-5. Comparison of probabilistic and targeted monitoring results for aquatic life use in the 4-Rivers basins.

	****						
	Full Su	pport	Partial Suj	port	Nonsupp	oort	
	<b>Probability</b>	Target	<b>Probability</b>	Target	Probability	Target	
Miles	254	539	1389	488	3,957	386	
Percent	17	38	57	35	26	27	

Probability and Targeted Monitoring Compared (Aquatic Life Use). Probability and targeted monitoring results compare more closely in the 4-Rivers basins (Table 3.3.2-5) than in the upper Cumberland River basin. In the region identifying RR-quality waters has been difficult given the intensively managed land. There have been 98 miles (seven percent) of targeted streams identified as RR quality; a small fraction meeting those criteria as compared to many basins in the commonwealth (three times fewer stream miles as compared to the Upper Cumberland River basin) (Table 3.1.4-1). During this second cycle, the BMU monitoring strategy has focused more in watersheds with 303(d)-listed waters for purposes of TMDL development. This focus is beginning to bring the

nonsupport stream mile curves assessed between the targeted and probability programs closer as the nonsupport miles increases in the targeted monitoring program. In the BMU-wide assessment data from all monitoring efforts through 2005, targeted monitoring results account for 1,413 miles of assessed waters and includes 539 miles (38 percent) full support of aquatic life use, 488 miles (35 percent) partial support and 386 (27 percent) nonsupport (Table 3.3.2-5). This contrasts with only 17 percent of miles fully supporting in the probabilistic monitoring, which statistically is applied to the entire representative defined sample population, while the targeted assessments include cumulative results from previous years, with a bias toward those RR waters. Even with this bias, the relative similarity between results of the two monitoring approaches indicates the overall poor condition of aquatic habitat in these basins. This is a strong reflection of the wide-scale manipulation of the aquatic and stream-side environment in this region.

With all basins, significant stream mileage exists where assessment results are based solely on physicochemical data. The number of water bodies assessed on these data alone are small, but this monitoring occurs on large streams of Strahler order 6 and greater. These large watersheds (by volume) provide a considerable amount of dilution, and the chances are small of collecting water at the time any one particular pollutant passes with a concentration high enough to exceed water quality criteria. Of those stream miles assessed with only physicochemical data, few were determined to be less than full support, although the 4-Rivers basins did have a higher number of stream miles not fully supporting based on results from this program. This was due to the geology, resultant water chemistry (soft, lower buffered and pH normally less than 7.0 SU), particularly with regard to metals, and associated land uses.

Probability monitoring design selects an equitable number of Strahler order 1 and 2 streams, in addition to Strahler order 3 - 5. These smaller watersheds show stress in biological communities to relatively smaller-scale perturbations than the large watersheds, which can often assimilate more disturbances relative to watershed size. Also, the approach to locating sample sites differs significantly between the two biological programs. The targeted stations are located in the best available stream reach regardless of the monitoring program (Sections 3.1.1-3), whereas the probabilistic approach is designed to randomly detect the prevailing habitat and associated biological conditions in a defined stream

population (like Strahler order watersheds) at randomly selected locations throughout the study area (BMU) without regard to prevailing in-stream habitat.

Green - Tradewater Rivers BMU. Two major river systems are combined to form this BMU (Figure 2.2-1). The Green River is the largest intrastate river system (i.e. mainstem of the river is wholly in Kentucky) in the commonwealth, draining an area of 9,807 square miles, including a small area of north-middle Tennessee. This river originates in Lincoln County on the southwest face of Hall's Gap in south-central Kentucky. It flows for 300 miles after which it discharges into the Ohio River. There are four significant tributaries along this course: Nolin River; Barren River; Rough River and Pond River. The Green River basin flows through the Pennyroyal and Shawnee Hills (Western Coal Field) physiographic regions. A good portion of the basin associated with the mid-river valley is significantly karstic, with Mammoth Cave the prominent feature of this vast cave network. This feature makes the Green River basin particularly susceptible to land uses since the Swiss-cheese latticework of underground channels results in surface water runoff quickly reaching groundwater with little opportunity for natural filtration that would occur in nonkarst geology. These subterranean streams often form gaining streams discharging into surface water flows. In 1969 the COE created an 8,200 acre flood-control reservoir on the Green River mainstem, Green River Lake, which is located in the upper portion of the basin in south-central Kentucky. Most of the Pennyroyal (all but the southeastern quarter) is drained by this river system and is rolling terrain with associated broad, fertile bottomlands.

The Shawnee Hills is a region of hilly upland of relatively high relief and contains many swamps and bottomland hardwoods due to the poorly drained valleys. This physiographic region is often referred to the Western Coalfield due to the significant coal deposits. At one time Muhlenberg County was the largest coal producing county in the nation, and the lower Green River was an important shipping corridor for this mined resource; the river can be navigated by commercial barge traffic up to lock and dam #3 (river mile 108.5).

The Tradewater River drains the western portion of the Shawnee Hills region and originates in northern Christian County, about eight miles north of Hopkinsville. The Tradewater is a low-gradient stream flowing through swampland characterized by cypress trees. This river is a tributary of the Ohio River. It is 132 miles long and drains 932 square

miles, discharging into the Ohio River approximately five miles southwest of Sturgis. This portion of the physiographic region is similar to that described in the above paragraph. As with the lower Green River basin, the Tradewater River basin has had much surface coal mining, especially during the 1970s and 1980s.

Causes, Sources and Land Uses. The top five causes (pollutants) and their sources in this BMU, identified for each river basin, are shown in Table 3.3.2-1. As one might expect, these two basins are mirror images of each other with respect to pollutants and sources (Table 3.3.2-1). Pathogen-indicating bacteria and sedimentation/siltation are the two most prevalent pollutants; however, pathogen indicators are pollutants only with regard to PCR and SCR uses. Pathogen causes affect 33 percent of assessed miles (555) in the Green River basin and 24 percent (82 miles) in the Tradewater River basin. Similarly, sedimentation/siltation associated with aquatic life habitat use affects 29 percent (486 miles) and 32 percent (109 miles) of assessed stream miles in the Green and Tradewater rivers basins, respectively. The leading sources of these pollutants strongly correlate to extensive agricultural and mining land uses. As with the 4-Rivers basins, agricultural, loss of riparian habitat and canalization (channelization) account for 67 percent of identified causes (pollutants and pollution), affecting 2,126 miles combined. Those additional causes associated with aquatic life habitat commonly occur in areas associated with agriculture and mining, particularly the nutrient/eutrophication, sedimentation/siltation and physical substrate habitat alteration. One of the most detrimental effects of stream habitat integrity affecting aquatic life use support level is the source "Loss of Riparian Habitat" identified as one of the top three most common source of impairment in the BMU (Table 3.3.2-1). This is a source that is often a direct result of other land use-related sources of impairments such as agriculture and resource extraction, and it is a major contributing factor to sedimentation and siltation.

Targeted Monitoring: Aquatic Life Use. The targeted monitoring effort resulted in 1,389 stream miles out of 2653 miles (52 percent) assessed for aquatic life use in the Green – Tradewater River BMU fully supports this use (Tables 3.3.2-7). This is a region of intensive agriculture and mining, two land uses that typically are not found mutually in other parts of the state. The upper and middle section of the Green River basin (which accounts for about two-thirds of this BMU) is mostly rural and small-scale agriculture in

the form of livestock grazing with limited row cropping. As with all BMUs, physical and chemical monitoring form the primary basis for stream assessments for this use in large streams greater than 5<sup>th</sup> Strahler order. However, most pollutants included in the physicochemical monitoring will go undetected without also assessing biological communities such as macroinvertebrates that are integrators of these episodic pollutants. Agricultural chemicals in particular are intra-seasonally specific since pesticide and herbicide applications often are only applied after pest management data signal the damage is approaching economic threshold where chemical treatment is cost-effective. Thus, if chemical monitoring is not timed to coincide with these agricultural practices, the effects will go unnoticed during the growing season in conventional physicochemical monitoring. To better assess large rivers, appropriate biological indicators and protocol are under development on a national level.

There are 333 miles of RR streams identified in this BMU, the overwhelming majority of those miles in the Green River basin (Table 3.1.41). An additional 18.4 stream miles in the Green River basin are candidate exceptional waters (Table 3.1.42) and will be submitted for inclusion in 401 KAR 5:030 in the triennial review of 2008. These miles of candidate exceptional stream segments represent less than one percent of the total number of miles assessed for aquatic life use in this BMU. However, taken with the 333 miles of RR streams, this represents a significant percentage (13 percent) of assessed stream miles in the BMU. Given that finding RR streams was a priority in the first BMU cycle, it is likely additional RR stream miles will be relatively few as targeted monitoring emphasis shifts to TMDL monitoring. However, identifying new stream segments as exceptional (401 KAR 5:030) will be a part of KDOW's overall monitoring strategy.

Targeted Monitoring: Fish Tissue. Fish tissue samples were analyzed for mercury and PCB burden in the Green – Tradewater BMU. Of the 338 miles surveyed, 52 percent of sampled stream miles were found to be supporting (Table 3.3.1-5). The two pollutants of issue were mercury and PCBs. These nonsupporting water body segments are found in portions of these streams: Mud River; Town Branch; Drakes Creek; Green River; and West Fork Drakes Creek.

Targeted Monitoring: Primary (Swimming) Contact Recreation. Water column samples were analyzed for the presence and quantity of *E. coli* and fecal coliform colonies

to assess this use. There were 1,348 stream miles assessed in this BMU and 39 percent of those stream miles fully support that use (Table 3.3.1-5). Even though this is a mostly rural area, it contains extensive livestock grazing and row cropping in an area of extensive karst. Agriculture has the greatest combined source of these pollutants in this BMU (Table 3.3.2-1).

**Targeted Monitoring: Domestic Water Supply.** Out of 300 miles assessed in this BMU, all of those stream miles are fully supporting this use (Table 3.3.1-5).

Probability Biosurvey of Green - Tradewater BMU. The Green - Tradewater BMU was sampled according to EMAP and KDOW SOP (Methods for Assessing Biological Integrity Of Surface Waters in Kentucky), 2006. Because of significant widespread drought conditions in this BMU in 2003, comparisons to those results were problematic; therefore, trend information comparisons between the two monitoring years were not made. Thus, many headwater streams in 2003 that might have been expected to be part of the survey were excluded because of those drought conditions. As Table 3.3.2-6 shows, out of 9,991 miles of target stream resources, 9,445 miles were represented in the probability analysis. Once the probability data were extrapolated, 2,607 miles or 28 percent of wadeable streams in this BMU were fully supporting aquatic life use, while 6,837 miles or 72 percent of wadeable streams were not fully supporting that use (Table 3.3.2-7 and Figure 3.3.2-3). This probability survey did find a considerably greater aquatic life use support level for this basin as compared to the upper Cumberland River and 4-Rivers basins (15 and 17 percent, respectively). These findings are not confounding considering these two BMUs and the intense land uses that are found in environmentally damaging on a large-scale that is ongoing in the Upper Cumberland – 4-Rivers BMU. The mountainous upper Cumberland basin also supports a delicately balanced aquatic habitat given the physical and chemical characteristics of its ecosystem. However, it should be noted the Green River basin is home to sensitive, uncommon aquatic fauna, especially the subterranean forms in the well-developed underground river systems.

Table 3.3.2-6. Aquatic use attainment results based on the 2004 probability biosurvey of the Green – Tradewater Rivers BMU.

Project ID	Green – Tradewater BMU Probability Survey		
Target Population	Streams Strahler Order 1-5		
Sample Frame	EPA River Reach File 3 (1:100,000 Scale)		
Type of Water body	Wadeable Streams		
Size of Target Population	9,991 mi		
Size of Non-Target Population	8,865 mi		
Size of Target Sampled Population	9,445 mi		
Designated Use	Aquatic Life		
Attaining Full Use	2,607 mi		
Not Attaining Full Use	6,837mi		
Indicator	Biology (Macroinvertebrates)		
Assessment Date	2005		
Precision	93% at 95% Confidence Level		

## Probability and Targeted Monitoring Compared (Aquatic Life Use).

Probability and targeted monitoring results differed the least in this BMU, as compared to the Upper Cumberland – 4-Rivers BMU (Table 3.3.2-7). In this basin, there are 333 miles or 13 percent of targeted stream miles identified as RR aquatic habitats (Table 3.1.3-1). In this water-year, a number of miles were assessed as follow-up surveys on designated reference reach stream segments to monitor the conditions through cycle phases. As is the order of targeted monitoring within KDOW programs, a significant portion of the targeted streams are Strahler order 4 or greater watersheds, whereas probability monitoring design selects an equitable number of Strahler order 1-5 streams. These smaller watersheds manifest stress in biological communities to relatively smaller-scale perturbations than large watersheds, which can often assimilate more disturbances relative to watershed size. Also, the approach to locating sample stations differs significantly between the two biological programs. The targeted stations are located in the best available stream reach, whereas the probabilistic approach is designed to randomly detect the prevailing habitat and associated biological conditions in a defined stream population (like Strahler order watersheds) at randomly selected locations throughout the study area. To illustrate this, the Green - Tradewater BMU has 333 miles of RR streams, with 284 of those miles in the Green River basin alone. Reference reach stream miles are often representative of a fragment of the watershed that is an outstanding example of habitat and aquatic

communities. These types of occurrences are an example of the biased monitoring strategies inherent to targeted monitoring that the probabilistic program avoids through random, unbiased design and protocol.

Figure 3.3.2-3. Proportions of aquatic life use support in Green - Tradewater Rivers BMU based on probability biosurveys. Pie chart represents the entire defined stream population (Strahler order 1 – 5) in the basin.

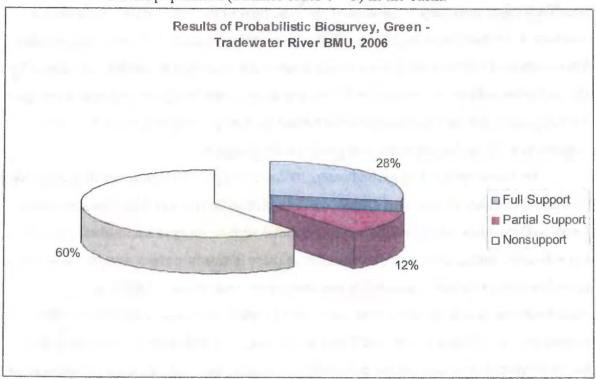


Table 3.3.2-7. Comparison of probabilistic and targeted monitoring results for aquatic life use in the Green – Tradewater Rivers BMU (Note: percentages rounded to nearest integer).

		6 11100 801).				
	Full Support		Partial Support		Nonsupport	
	Probability	Target	Probability	Target	<b>Probability</b>	Target
Miles	2,607	1,389	1,109	657	5,728	607
Percent	28	52	12	25	60	23

Integrated Surface and Groundwater Quality Assessment of Large Karst

Springs in the Green River Basin. The purpose of this project was to assess the nonpoint source (NPS) impacts to groundwater in the Green – Tradewater River BMU, and to

integrate ground- and surface water quality information with biological data to better define the nexus between the two flow systems. Groundwater and surface water are conjunctive systems, no where more directly so than in karst terrain. Surface water assessments in the well-developed karst terrain of the sinkhole plain are limited due to a lack of flowing surface streams. Therefore, karst basins represent large unassessed areas of contribution to the Green River basin. For example, Gorin Mill Spring, south of Munfordville, Kentucky, contributes approximately 10 percent of the base flow of the Green River. Subsurface conduits drain these karst basins that discharge to surface waters at discrete large springs. This integrated surface water/groundwater assessment addresses the deficiency caused by the lack of significant stream segments that can be assessed using conventional techniques. This approach also provides needed information on spring conditions relative to NPS impacts to both the surface water and groundwater programs.

To assess surface and groundwater, 10 karst springs with significant discharge were monitored monthly for one year (Table 3.3.2-8). Site selection was based on identifying large, well-developed karst basins where perennial surface streams are limited, and where large discrete springs discharge the drainage of these basins to surface waters. Other site selection criteria include accessibility and landowner cooperation. Additional considerations include whether these sites would provide new data, will support other programs (e. g., 305[b], TMDL, wellhead protection, etc.), and whether land use in the basins represents nonpoint source pollutants of concern. The drainage areas for most karst basins were previously identified. Additional groundwater tracer testing was conducted for two un-delineated basins.

Table 3.3.2-9 shows the uses assessed for springs and the miles from those assessments in the proper use support-level. The major cause (pollutants) found to exceed water quality standards for assessed springs in the Green River basin for warm water aquatic life use is "nutrient/eutrophication biological indicators" which accounts for 91 percent of causes. Primary contact recreation use assessment using *E. coli* as the indicator found 95 percent of spring miles not supporting that use. Given the nature of springs draining large, indeterminate watersheds, source of these causes are listed as "source unknown" and will be identified in intensive watershed monitoring related to TMDL

development. Landowners or operators of these resources received copies of sample results with explanatory letters and other relevant material.

Table 3.3.2-8. Springs monitored in the Green River basin during water-year 2006-2007.

Spring Name	County	Karst Basin	Base Flow	
and the second		Area (mi <sup>2</sup> )	Discharge (ft <sup>3</sup> /s)	
Gorin Mill	Hart	152.4	24.0	
Graham	Warren	122.3	19.8	
Lost River Rise	Warren	58.8	12.4	
Nolynn	Larue	56.4	4.6	
McCoy	Hart	34.1	12.7	
Skees Karst Window	Hardin	27.5	6.4	
Mahurin	Grayson	25.3	2.1	
Head of Rough River	Hardin	17.3	2.8	
Goodman	Hardin	14.7	4.6	
Mill	Grayson	7.1	3.9	

Table 3.3.2-9. Individual designated use support summary for springs in Kentucky, 2008.

<u>Designated</u>	Total in	Total	Supporting	Not	Size of
<u>Use</u>	State	Assessed	Water Quality	Supporting	Resource
	(miles)	(miles)	Standards	Water Quality	Not
			(miles)	Standards (miles)	Assessed (miles)
Warm Water					
Aquatic	10.48	10.45	5.0	5.45	0.03
Habitat					
Fish	10.48	0	0	0	10.48
Consumption	10.48	U	U	U	10.48
Primary					
Contact	10.48	9.95	0	9.95	0.53
Recreation					
Secondary	-				
Contact	10.48	0	0	0	10.48
Recreation					
Domestic	0.03	0.02	0.02	0	0
Water Supply	0.03	0.03	0.03	0	U

#### 3.3.3 Ohio River

ORSANCO assessed uses in the 664 miles of the Ohio River main stem that forms Kentucky's northern boundary and a summary of those findings are presented in the ORSANCO 2008 305(b) report. No reaches of the Ohio River fully support all uses. Drinking water and aquatic life use are fully supported in all river miles. Eighteen

segments along this reach were not fully supporting primary contact recreation use due to pathogens. Of the 664 miles that form Kentucky's northern border, those 18 segments represent 350 miles (53 percent) that did not fully support the use. This limited support was often a result of combined sewer overflows (CSOs) during and immediately following rainfall events in and downstream of urban areas. All miles of the Ohio River partially supported the fish consumption use because of limited fish consumption advisories for PCBs and dioxin.

3.3.4 Assessment Results of Lakes and Reservoirs: Focus on Upper Cumberland – 4-Rivers and Green – Tradewater Rivers BMUs

**Introduction.** Since the initiation of the rotating basin approach in 1998, the commonwealth's significant publicly-owned lakes and reservoirs are monitored over a five-year cycle instead of the previous seven- to eight-year cycle. During this two-year reporting period, 50 lakes and reservoirs were monitored (maps located in Appendix C) and four were carry forward assessed reservoirs from 2000-01 water-years due to access restrictions in the Upper Cumberland – 4-Rivers BMU and Green – Tradewater BMU.

Designated uses in lakes consist of Warm Water Aquatic Habitat (WAH) (sometimes in conjunction with Cold Water Aquatic Habitat (CAH) in lakes with a two-story fishery) and Primary and Secondary Contact Recreation (PCR and SCR). Many reservoirs also have a domestic water supply (DWS) use. Indicators monitored or sampled for analysis to determine lake or reservoir health (water quality) may be found in Table 3.2.1-1.

3.3.4.1 Assessment of Trophic State and Use Support.

Trophic status was assessed in lakes by using the Carlson Trophic State Index (TSI) for chlorophyll a. This method is convenient because it allows lakes to be ranked numerically according to increasing eutrophy, and it also provides for a distinction between oligotrophic, mesotrophic, eutrophic, and hyper-eutrophic lakes. The growing season (April – October) average TSI value was used to rank each lake. Areas of lakes that exhibited trophic gradients or embayment differences often were analyzed separately. Use support in lakes was determined by criteria listed in Table 3.2.1-3.

### 3.3.4.2 Results

**Statewide.** Table 3.3.4.2-1 through 3.3.4.2-9 present statewide summaries of use support, impairments (causes) and sources of impairments of reservoirs, ponds and lakes in the state. The water quality assessment of lakes includes more than 95 percent of the publicly-owned lakes, ponds and reservoirs acreage of Kentucky (Table 3.3.4.2-1). Seventy-four of 127 lakes, ponds and reservoirs (58 percent) fully support their uses, and 53 (42 percent) do not support one or more uses. On an acreage basis, approximately 73 percent (778,108 acres) of the 1,072,470 designated uses-assessed acres fully support uses, and approximately 27 percent (294,362 designated use-acres) do not support one or more uses (Table 3.3.4.2-1 – 3).

Table 3.3.4.2-1. Individual use support summary for Kentucky reservoirs.

<u>Use</u>	Total Size	Size Assessed	Size Fully Supporting	Size Fully Supporting but Threatened	Size Not Supporting	Size Not Assessed
Warm Water Aquatic Habitat	219,135	217,811	209,093	0	8,781	1,324
Cold Water Aquatic Habitat	2,410	2,410	2,410	0	0	0
Fish Consumption	216,135	204,664	112,209	0	92,455	14,471
Primary Contact Recreation Water	219,135	62,149	61,930	0	219	156,986
Secondary Contact Recreation Water	219,135	213,497	200,773	0	12,724	5,638
Domestic Water Supply	194,217	192,692	191,031	0	1,661	1,525

Table 3.3.4.2-2. Individual use support summary for Kentucky lakes.

<u>Use</u>	Total Size	Size Assessed	Size Fully Supporting	Size Fully Supporting but Threatened	Size Not Supporting	Size Not Assessed
Warm Water Aquatic Habitat	571	571	342	0	229	0
Fish Consumption	571	63	0	0	63	508
Primary Contact Recreation Water	571	0	0	0	0	571
Secondary Contact Recreation Water	571	317	317	0	0	254

Table 3.3.4.2-3. Individual use support summary for Kentucky ponds.

Use	Total Size	Size Assessed	Size Fully Supporting	Size Fully Supporting but Threatened	Size Not Supporting	Size Not Assessed
Warm Water Aquatic Habitat	4.8	0	0	0.0		4.8
Fish Consumption	4.8	4.8	3.3	0.0	1.5	0.0
Primary Contact Recreation Water	4.8	0.0	0.0	0.0	0.0	
Secondary Contact Recreation Water	4.8	0.0	0.0	0.0	0.0	4.8

Methylmercury and mercury in fish tissue were the most frequently identified pollutant, accounting for the most lake, pond and reservoir acres impacted (92,520 or statistically 100 percent of acres not supporting fish consumption use) (Table 3.3.4.4-6). Nutrients/eutrophication biological indicators and pH were the second and third most frequent impairments. A list of those causes and sources is presented in Tables 3.3.4.2-7-

9. Sources "unknown" were most commonly identified as it relates to impairments affecting Kentucky's reservoirs and lakes; this related to the high frequency of mercury in fish tissue and methylmercury identified as the primary pollutant. This pollutant enters aquatic environments from multiple pathways. Ponds also had "unknown" as the most common source (Table 3.3.4.2-9) due to methylmercury. A fish consumption advisory for PCBs is in place on one reservoir of considerable size (Green River Lake), resulting in a high percentage of lake acres impacted by priority organics (Table 3.3.4.2-4). Agriculturalrelated sources, along with municipal point sources and septic systems, were the most commonly identified sources related to nutrient impairments (Tables 3.3.4.2-7 and 8). The indicator pH was the fourth most frequent "pollutant" with respects to reservoir and lake impairment. The listing of pH for standards exceedence affects CAH, WAH and PCR and SCR uses (Table 3.3.4.2-4). Dissolved oxygen was displaced to fifth most frequent "pollutant" in these waters (Table 3.3.2-4 and 5). A related problem was the pollutionindicator, dissolved gas super-saturation, which often occurs with excess nutrients during daylight hours as photosynthesis from excess algae occurs. Naturally shallow lake or reservoir basins, or those that have excessive sedimentation resulting in shallow basins, often provide suitable habitat for the proliferation of nuisance aquatic weeds that impair secondary contact recreation and account for the fifth highest cause of use nonsupport. Natural conditions such as manganese releases from anoxic hypolimnetic water (deepest water-layer in stratified reservoirs and lakes) and nutrients (resulting in high production of aquatic macrophytes and plankton) in runoff from relatively undisturbed watersheds affect domestic water supply and secondary contact uses, respectively. Suspended solids from surface mining activities have decreased in severity as a source from previous years but continue to impede full secondary contact recreation use in one eastern Kentucky reservoir (Buckhorn Lake).

Trophic state was determined for the number of acres and lakes for the four possible categories of TSI. For this presentation of data, a distinction between lakes (natural waterbodies) and reservoirs (manmade lakes or impoundments) is made. Tables 3.3.4.2-10 and 11 present these results.

Table 3.3.4.2-4. Number of acres of Kentucky reservoirs, lakes and ponds affected by individual causes (pollutants).

Communication (portutality).	T . 1 C'		
Cause	Total Size		
Methylmercury	78,313		
Mercury in Fish Tissue	14,142		
Nutrient/Eutrophication Biological Indicators	9,724		
pH	8,489		
Oxygen, Dissolved	8,388		
PCB in Fihs Tissue	8,210		
Dissolved Gas Supersaturation	3,864		
Total Suspended Solids (TSS)	3,040		
Sedimentation/Siltation	2,417		
Organic Enrichment (Sewage) Biological Indicators	1,264		
Taste and Odor	1,171		
Aquatic plants (macrophytes)	711		
Chlorophyll-a	548		
Habitat Assessment (Streams)	339		
Manganese	317		
Aquatic Algae	169		
Dissolved oxygen saturation	64		
Impairment Unknown	43		

Table 3.3.4.2-5. Number of acres of Kentucky lakes (natural) affected by causes (pollutants).

Cause	Total Size
Oxygen, dissolved	229
Nutrient/Eutrophication Biological Indicators	229
Methylmercury	36
Mercury in fish tissue	27

Table 3.3.4.2-6. Number of acres of Kentucky ponds affected by cause (pollutant).

Cause	Total Size
Methylmercury	1.5

Table 3.3.4.2-7. Sources of causes (pollutant) to Kentucky reservoirs.

Table 3.3.4.2-7. Sources of causes (pollutant) to Ker	ntucky reservoirs.
Source	Total Size
Atmospheric Deposition - Toxics	68,888
Source Unknown	43,470
Upstream Source	12,724
Agriculture	9,151
Industrial Point Source Discharge	8,210
Municipal Point Source Discharges	6,129
Surface Mining	4,270
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	4,232
Livestock (Grazing or Feeding Operations)	3,356
Internal Nutrient Recycling	3,212
Natural Sources	2,877
Rural (Residential Areas)	317
Littoral/shore Area Modifications (Non-riverine)	512
Impacts from Abandoned Mine Lands (Inactive)	219
Unspecified Urban Stormwater	170
Non-irrigated Crop Production	169
Crop Production (Crop Land or Dry Land)	137
Grazing in Riparian or Shoreline Zones	99
Habitat Modification - other than Hydromodification	99
Septage Disposal	98
Golf Courses	78
Streambank modifications/destabilization	37
Post-development erosion & sedimentation	37
Contaminated Sediments	18

Table 3.3.4.2-8. Sources of causes (pollutant) to Kentucky lakes (natural).

Source	Total Size
Natural Sources	193
Agriculture	193
Non-irrigated crop production	36
Atmospheric deposition – toxics	36
Rural (residential areas)	36
Source Unknown	27

Table 3.3.4.2-9. Source of cause (pollutant) to Kentucky ponds.

Source	Total Size
Source Unknown	1.5

Table 3.3.4.2-10. Trophic state of reservoirs in Kentucky

Trophic State	Number of Lakes	Total Size
Oligotrophic	10	62,602
Mesotrophic	30	23,161
Eutrophic	54	131,705
Hypereutrophic	1	317
Dystrophic	0	0

Table 3.3.4.2-11. Trophic state of lakes in Kentucky

Trophic Status	Number of Lakes	Total Size
Oligotrophic	0	0
Mesotrophic	0	0
Eutrophic	9	308
Hypereutrophic	3	263

Upper Cumberland River Basin. The fact that the majority of Kentucky's oligotrophic (infertile, low primary production) reservoirs are located in this basin is related to the geology of this mountainous and high plateau basin. Of the fully supporting reservoirs in this basin, two are eutrophic, three are mesotrophic and one is oligotrophic (Tables 3.3.4.2-12). In this basin, there were 11 reservoirs monitored or evaluated (evaluated for DWS only), nine were fully supporting uses and three did not support fully all uses (Table 3.3.4.2-12 – 14). Of reservoirs fully supporting uses, the trend in trophic state is decreasing toward a less nutrient-enriched system on five reservoirs, stable on two and increasing on two as compared to data from 2000. Of those reservoirs less than full support of one or more uses, one reservoir is stable and another is slightly increasing in trophic state (Table 3.3.4.2-12-14). Nutrient/eutrophication biological indicators is the most common impairment affecting water quality conditions in these reservoirs (Tables 3.3.4.2-13 and 14). Excess nutrients (phosphorus and nitrogen) eventually result in depleted or lowered DO in the water column. Sources of those impairments are listed in Tables 3.3.4.2-13 and 14.

Table 3.3.4.2-12. Upper Cumberland River Basin reservoirs that fully support assessed uses.

	uses.			Esstua	
Lake	Acres	County	Trophic State	Eutro- phication Trend	<u>Uses</u>
Cannon Creek	243	Bell	Oligotrophic	Stable	C/WA H FC SCR DWS
Cranks Creek	219	Harlan	Oligotrophic	Increasing (degrading)	WAH SCR
Dale Hollow Reservoir	4300	Clinton	Oligotrophic	Decreasing (improving)	WAH FC P/SCR DWS
Linville	273	Rockcastle	Eutrophic	Stable	C/WA H FC P/SCR DWS
Laurel Creek	88	McCreary	Mesotrophic	Decreasing (degrading)	WAH FC P/SCR DWS
Laurel River	6060	Whitley & Laurel	Oligotrophic	Decreasing (improving)	WAH, CAH, SCR, DWS
Martin's Fork	334	Harlan	Mesotrophic	Decreasing (improving)	C/WA H FC P/SCR DWS
Tyner	87	Jackson	Mesotrophic	Increasing (degrading)	WAH FC P/SCR DWS
Wood Creek	672	Laurel	Oligotrophic	Decreasing (improving)	WAH FC P/SCR DWS

Table 3.3.4.2-13. Upper Cumberland River basin reservoirs partially supporting assessed uses.

	Source	Post-development erosion and	sedimentation, streambank modi-	fication/destabilization, shallow	lake/reservoir basin	Internal nutrient recycling,	municipal point source	discharges, agriculture			Atmospheric deposition - toxics		
	Cause (pollutant)	Aquatic plants (macrophytes)				Chlorophyll a,	nutrient/eutrophication	biological indicators, organic	enri-chment (sewage) biological	indicators	Methylmercury		
Impaired	Use	SCR				WAH					FC		
Trophic State Impaired	$p(\leftrightarrow \downarrow \uparrow)$	Mesotrophic	\$	(stable)		Mesotrophic	(insufficient	trend data)			Oligotrophic	<b>←</b>	(degrading)
(	County	Bell				Laurel					Pulaski,	Russell,	Wayne
	Acres	37				139					50,250		
	Lake/Reservoir Acres	Chenoa				Corbin City					Cumberland 50,250 Pulaski,		

<sup>a</sup>Symbols represent decreasing, increasing or stable as it relates to trophic state trend

Table 3.3.4.2-14. Upper Cumberland River basin reservoirs not supporting assessed uses.

Source of Impairment	Internal nutrient recycling, municipal point source discharges, agriculture
Cause of Impairment	Nutrient/eutrophication biological indicators, organic indicators (sewage) biological indicators, taste and odor
<u>Use</u> Impaired	DWS
Trophic State	Mesotrophic (insufficient trend data)
County	Laurel
Acres	139
Lake/Reservoir Acres County	Corbin City

4-Rivers Basins. There were 10 lakes and reservoirs monitored in 2005. Of those 10, six are fully supporting assessed uses, four are partially supporting assessed uses and one is not supporting assessed uses (Tables 3.3.4.2-15-17). Of the fully supporting lakes and reservoirs (in the 4-Rivers basins, five are eutrophic and one is mesotrophic (Tables 3.3.4.2-15). The trends in trophic state of all reservoirs that fully support uses are increasing, with the exception of Blythe Lake (mesotrophic) as compared to 2000 data (Table 3.3.4.2-15). The remaining lakes and reservoirs are less than fully supporting all assessed uses (Tables 3.3.4.2-16 and 17). These lakes most commonly are less than full support for SCR based on proliferation of aquatic macrophytes over a substantial portion of open-water area. This can be attributed to shallow basins in meso- to eutrophic trophic state. However, an important trend concerning these lakes is that of decreasing trophic state in all but one, which had insufficient data to make a trend determination (Tables 3.3.4.2-16 and 17). Methylmercury and mercury (in fish tissue) are found to be at levels above criteria in both lakes where fish flesh was analyzed for contaminants. Hematite Lake (reservoir) has excess nutrients (phosphorus and nitrogen) that result in the depletion of adequate DO in the water column through excess primary (phytoplankton) production; conversely, the excess algal growth will result in super-saturation of DO during photosynthesis (Table 3.3.4.2-17).

Table 3.3.4.2-15. 4-Rivers basins (lower Cumberland, lower Ohio, Mississippi and Tennessee rivers) lakes and reservoirs that fully support assessed uses.

Uses	WAH, FC, SCR	WAH, FC, P/SCR, DWS	WAH, FC, SCR	WAH, P/SCR, DWS	WAH, FC, SCR	WAH, FC, P/SCR, DWS
Eutrophication Trend	Increasing (degrading)	Increasing (degrading)	Decreasing (improving)	Increasing (degrading)	Increasing (degrading)	Increasing (degrading)
<u>Trophic</u> State	Eutrophic	Eutrophic	Mesotrophic	Eutrophic	Eutrophic	Eutrophic
County	Trigg	Lyon	Christian	Christian	Ballard	Calloway
Acres	370	45,500	68	170	61	48,100
Lake	Energy	Barkley	Blythe	Morris	Turner	Kentcuky

Table 3.3.4.2-16. 4-Rivers basins (lower Cumberland, lower Ohio, Mississippi and Tennessee rivers) Kentucky River Basin lakes and reservoirs that partially support assessed uses.

		management of the form of the second				
			Trophic	Use		
Lake	Acres	County	State $(1 + 1)^a$	Impaired	Cause of Impairment	Source of Impairment
Hematite	06	Trigg	Mesotrophic	SCR	Aquatic plants	Littoral/shore area
			$\rightarrow$		(macrophytes)	modifications, natural
			(degrading)			sources, shallow
						lake/reservoir basin
Honker	190	Lyon	Mesotrophic	SCR	Aquatic plants	Littoral/shore area
			$\rightarrow$		(macrophytes)	modifications, natural
			(degrading)			sources, shallow
						lake/reservoir basin
Fish	27	Ballard	Eutrophic (insufficient	WAH, FC, SCR	Mercury in fish tissue	Source unknown
			trend data)			
Metropolis	36	McCracken	Eutrophic	WAH,	Methylmercury,	Atmospheric
			$\rightarrow$	FC, SCR	dissolved oxygen,	deposition, internal
			(degrading)		nutrient/eutro-	nutrient recycling,
					phication biological	non-irrigated crop
					indicators	production, rural
						(residential area),
						shallow lake/reservoir
						basin

<sup>a</sup>Symbols represent decreasing, increasing or stable as it relates to trophic state trend

Table 3.3.4.2-17. 4-Rivers basins (lower Cumberland, lower Ohio, Mississippi and Tennessee rivers) reservoir not supporting assessed uses.

Source of Impairment	ource	unknown	The state of the s
Cause of Impairment	Dissolved oxygen, So	ion	biological indicators
Use Impaired	WAH		
Trophic State $(\downarrow, \uparrow, \leftrightarrow)^a$	Mesotrophic	<b>→</b>	(improving)
County	Trigg		
Acres	06		
<u>Lake</u>	Hematite		

<sup>a</sup>Symbols represent decreasing, increasing or stable as it relates to trophic state trend

Green - Tradewater Rivers BMU. There were 29 reservoirs monitored in this BMU, the largest number of monitored publicly-owned reservoirs and lakes in the five BMUs. Twenty of those reservoirs are fully supporting their assessed uses (Table 3.3.4.2-18), and nine are partially supporting one or more assessed uses (Table 3.3.4.2-19). Of those fully supporting reservoirs, 16 are eutrophic and four are mesotrophic; there are no monitored oligotrophic reservoirs in this BMU (Tables 3.3.4.2-18). The trend in trophic state of five reservoirs that fully support uses is increasing (degrading), nine are stable and six are decreasing (improving) compared to 2000 data (Table 3.3.4.2-15). The remaining reservoirs (nine) are less than fully supporting all assessed uses (Tables 3.3.4.2-19). As a group, these lakes are less than full support for a variety of uses, and indicate no recognized pollutant-trend on a BMU basis. Secondary contact recreation use is impaired from a proliferation of aquatic macrophytes over a substantial portion of open-water area sedimentation/siltation and excess nutrients (Table 3.3.4.2-19). The other most frequently impaired use is fish consumption due to mercury tainted fish flesh. An important trend of note concerning the reservoirs in this BMU is that 20 of those reservoirs monitored in this cycle have decreasing or stable (improving or holding steady) trophic trend; whereas, six reservoirs are increasing (degrading) per trophic state (Tables 3.3.4.2-18-19). Those reservoirs with insufficient data to determine trophic state trend were not monitored due to lack of access as of this monitoring cycle. Nutrients and excessive sedimentation/siltation are two pollutants of additional concern with these reservoirs.

Table 3.3.4.2-18. Green – Tradewater Rivers BMU reservoirs that fully support all assessed uses.

				Eutrophication	
Lake	Acres	County	Trophic State	Trend	Uses
Barren River	10,000	Allen	Eutrophic	Increasing (degrading)	WAH, FC, P/SCR, DWS
Briggs	19	Logan	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Freeman	160	Hardin	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Grapevine	50	Hopkins	Mesotrophic	Stable	WAH, FC, SCR
Washburn	26	Ohio	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Liberty	79	Casey	Mesotrophic	Decreasing (improving)	WAH, FC, SCR, DWS
Metcalfe County	22	Metcalfe	Eutrophic	Stable	WAH, FC, SCR
Mill Creek	109	Monroe	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Nolin River	5,790	Grayson	Eutrophic	Stable	WAH, FC, P/SCR, DWS
Salem	99	Larue	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Shanty Hollow	135	Warren	Eutrophic	Stable	WAH, FC, SCR
Spurlington	36	Taylor	Eutrophic	Decreasing (improving)	WAH, FC, SCR
Beshear	760	Caldwell	Eutrophic	Stable	WAH, FC, P/SCR, DWS
Peewee	360	Hopkins	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Loch Mary	135	Hopkins	Mesotrophic	Stable	WAH, FC, SCR, DWS

Table 3.3.4.2-18 (cont.). Green – Tradewater Rivers BMU reservoirs that fully support all assessed uses.

Lake	Acres	County	Trophic State	Eutrophication Trend	<u>Uses</u>
Moffit	49	Union	Eutrophic	Stable	WAH, FC, SCR
Pennyrile	47	Christian	Mesotrophic	Decreasing (improving)	WAH, FC, SCR
Kingfisher	30	Daviess	Eutrophic	Stable	WAH, FC, SCR
George	53	Crittenden	Eutrophic	Increasing (degrading)	WAH, FC, SCR, DWS
Mauzy	84	Union	Eutrophic	Stable	WAH, FC, SCR

lake/reservoir basin Upstream source, Upstream source, source discharge, Source unknown Source unknown Source unknown source unknown Natural sources, Natural sources, Source of Industrial point natural sources agriculture agriculture shallow Dissolved oxygen, dissolved oxygen Mercury in fish tissue, PCB in fish nutrient/eutro-phication biological Nutrient/eutrophication biological saturation, nutrient/eutrophication Sedimentation/siltation, aquatic sedimentation/siltation, habitat Cause of Impairment Sedimentation/siltation, Table 3.3.4.2-19. Green - Tradewater Rivers BMU reservoirs that partially support assessed uses. Mercury in fish tissue Mercury in fish tissue plants (macrophytes) assessment (lakes) Chlorophyll a, indicators indicators tissue SCR, DWS Impairment WAH SCR DWS SCR FC FC FC **Frophic State** Mesotrophic Mesotrophic improving) insufficient insufficient  $(\downarrow,\uparrow,\leftrightarrow)^a$ (degrading) Eutrophic Eutrophic trend data) Eutrophic trend data) Eutrophic Eutrophic Eutrophic (stable) (stable) (stable) Muhlenberg County Grayson Taylor Taylor Daviess Hardin Logan Logan Acres 8,210 5,100 826 240 75 55 63 4 Caneyville City Campbellsville Rough River Green River Carpenter Luzerne Malone Lake City Spa

<sup>a</sup>Symbols represent decreasing, increasing or stable as it relates to trophic state trend

sediments, internal

recycling

Contaminated

Nutrient/eutrophication biological

WAH

indicators

insufficient

Eutrophic

Henderson

18

Scenic

(stable)

trend data)

biological indicators

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# Appendix A. 305(b) Statewide Assessment Results for Kentucky through 2008 305(b) Cycle

			The second second			ł	ł			
Abbott Creek 0.0 to 3.2	Bio Sabrit Rivar	Water Body Type	8-Digit HUC	County	WAHICAH	PCR SCR	R Fish Consumedian			
Arkanass Creek 0.0 to 3.6	Blo Cardo Olive	RIVER	5070203	FLOYD	58-NS	-	+	eda.	Charles Date	Designated Uses
Amold Fark 0.0 to 2.6	Bin Candy River	RIVER	5070203	FLOYD	S-NS	200	200	7	7/30/2004	WAH, FC, PCR, SCR
Barnetts Creek 0.0 to 1.6	DIN OBUGA KINEL	RIVER	5070203	KNOTT	S-NS	-	2	9	12/10/2003	WAH, FC, PCR, SCR
Bear Creek Of to 1 9	Big Sandy River	RIVER	5070203	JOHNSON	900	200	23	0	12/10/2003	WAH, FC. PCR. SCR.
Beaver Creek 0.0 to 7.1	Big Sandy River	RIVER	5070204	LAWRENCE	A.De	S C C	3	6	7/3/2004	WAH, FC. PCR. SCR.
Bia Creek 0.0 to 1.9	dig Sandy River	RIVER	5070203	FLOYD	S.De	S S S S S S S S S S S S S S S S S S S		6	1/20/2003	WAH, FC, PCR, SCR
Creak 10.7 tn 45.1	Big Sandy River	RIVER	5070201	PIKE	250	C STORY		69	1/21/2004	WAH, FC, PCR SCR
Bio Creek 7.3 to 10.7	Big Sandy River	RIVER	5070201	PIKE	S PR	D-No	0	n	1/16/2004	WAH, FC, PCR, SCR
Big Mine Creek 14 to 3 g	Big Sandy River	RIVER	5070201	PIKE	2.02	200	0	0	11/25/2003	WAH, FC, PCR, SCR
Bin Mine Create 5 8 to 8 4	Big Sandy River	RIVER	5070203	MAGOFFIN	200	+		0	11/21/2003	WAH, FC, PCR, SCR
Rio Sando Bivar O O to 27 4	Big Sandy River	RIVER	5070203	MAGOFFIN	200	0	0	e	1/27/2004	WAH, FC. PCR. SCR.
Bill D Brooch O O to 4	Big Sandy River	RIVER	5070204	BOVD	000	200	2	m	11/10/2003	PCR
Diamen 0.0 to 1.1	Big Sandy River	RIVER	5070203	MAINT	01-0	X-F8 3	2-55	12	1/20/2004	WAH FC PCR SCR
Blackberry Creek 1.2 to 5.9	Blg Sandy River	RIVER	SOTION S	MACH	2-NS	in in	F2	es	12/10/2003	WAH EC OCO
Blaine Creek 35.0 to 40.8	Big Sandy River	RIVER	EUNIOUS A	LANGERINE	2-1-5	en en	3	m	7/30/2004	WAH FO CO.
Blaine Creek 41.6 to 43.0	Bio Sandy River	DIVICED	5070700	LAWNENCE	2-FS	5-NS 3	3	3	12000M	איאר ביי יכי מייי
Blaine Creek 44.0 to 48.4	Blo Sandy River	BAVED	5070704	LAWRENCE	5-63	3 3	9	60	11/25/2002	WANT OF TOR SOR
Blaine Creek 8.1 to 17.4	Big Sandy Rivar	DAVED	5070700	LAWKENCE	S-NS	5-NS 5-NS		3	2/12/2004	WANT TO POR SOR
Brushy Fork 0.0 to 10.0	Bio Sandy Rivar	DAVED	9070700	CAWRENCE	S-NS	2-FS 3	m	en	11/13/20073	MAN TO TON OUR
Buck Branch 0,0 to 2.6	Bio Sandy Rivar	DAVED	20/0503	PINCE	S-NS	3 3	69	m	TRADOOM	WAT, TC, PCR, SCR
Buffalo Creek, 0,0 to 1.8	Hin Sandy Blue	DA MEN	20/0503	FLOYD	5-NS	3	67		12/10/2004	WAN, FC, PCR, SCR
Caleb Fork 0.0 to 1.2	Rio Rends Dises	MVER	50/0203	FLOYD	5-NS	3	en		Transport	WAT, TC, PCR, SCR.
Caney Fort 0.0 to 7.5	Rio Rende Diver	RIVER	9070203	FLOYD	S-NS	60	3		19/10000	WAH, PC, PCR, SCR
Cat Fork 0.0 to 6.7	DIS COUNTY LIVE	MOVER	5070203	KNOT	2-58	9	ec		494000000	WAH, PC, PCR, SCR
Clear Creek, 0.0 to 4.9	Rin Sandy Oliver	HIVER	5070204	LAWRENCE	2-53	3	3	0 177	SHOOM	WAH, PC, PCR, SCR
Coldwater Fork 2.1 to B.B	Bin Read, Direct	MINER	5070203	FLOYD	S-NS	69	6	6	10110000	WAT, PC, PCK, SCH
Dewey Lake	Sin Santa City	KIVEK	5070201	MARTIN	S-PS	69	en		44/47/0001	7 5
Dry Creek 0.0 to 4.0	Dia Canto Civil	MESEKVOIK	5070203	FLOYD	2-FS	3 5-PS			3/8/2/04	WAR, PC, PCR, SCR
Elithorn Creek 0.0 to 10.8	Die Gendy Ryer	KIVER	5070203	KNOTT	5-PS	3	60	en	12/10/2003	WANT, P.C. PCR, SCR
Flahirao Rasarvoir	Dir Oanty River	HIVER	5070202	PIKE	5-PS	5-NS 3	3		1 MANAGORA	CAN, PC, PCR, BCR
Frasure Creek 0.0 to 5.2	Bio Sendy River	HESERVOIR	5070202	PIKE	2-FS	3 2-58	2	m	W50000 - 1810008	WALL SO DOD SON
Georges Creak 0.0 to 0.9	Bio Sandy Diver	CHARD	5070/053	FLOYD	5-PS	3 3	ėą.	63	12/10/2003	WAN TO BOD SO
Georges Creek 0.9 to 6.5	Bid Sandy River	GAVED	50/0203	LAWRENCE	5-63	9	64	3	7/30/2004	WAH FO DOR BOD
Goose Creek 0.0 to 2.2	Bio Sandy River	PINER	5000000	NORWEGE	2-53	3	3	63	11/17/2003	WAH FC PCR SCR
Greeny Creek 0.0 to 4.8	Big Sandy River	RIVER	£070203	CLOTO	94-0	0	6	m	12/10/2003	WAH, FC, PCR, SCR
Griffin Creek 0.0 to 2.5	Big Sandy River	RIVER	5070203	AMOENICE	200	0	3	60	7/30/2004	WAH, FC. PCR. SCR
lobbs Fork 0.0 to 2.0	Big Sandy River	RIVER	5070201	MADTIN	2-12	0	en	es.	7/30/2004	CAH, FC, PCR, SCR
Hobbs Fork 2.0 to 3.8	Big Sandy River	RIVER	5070201	MARTIN	926	9 0	6	m	1/27/2004	WAH, FC, PCR, SCR
Creek 0,0 to 3.5	Big Sandy River	RIVER	5070204	LAWRENCE	A De	200	70 0	0	11/21/2003	WAH, FC, PCR, SCR
Hood Creek 3.6 to 5.4	Big Sandy River	RIVER	5070204	LAWRENCE	2.58	90	7 0	0	1/27/2004	WAH, FC, PCR, SCR
CO COUNT CLEOK U.O. ID D.A	Big Sandy River	RIVER	5070204	BOYD	S.NS	9 6	2 6	91	11/21/2003	WAH, FC, PCR, SCR
Co Darri Creek U.4 to 2.4	Big Sandy River	RIVER	5070204	BOYD	S-NS	9 60	2 5	200	12/10/2003	WAH, FC, PCR, SCR, DWS
Michell Creek, U.O.10 3,0	Big Sandy River	RIVER	5070202	PINE	000	9 60	200	2	12/10/2003	WAH, FC, PCR, SCR
India Creek 0.0 to 1.7	Big Sandy River	RIVER	5070203	PINCE	S-0-5	9 69	20	90	11/13/2003	الم
The Court of the C	Big Sandy River	RIVER	5070203	FLOYD	S-NS	60	er.	00	**************************************	WAY, P.C. PCR, BCR
Johns Report 00 to 1 E	Big Sendy River	RIVER	5070203	NOSINHOL	S-NS	60		o en	GARDON	WAH, FC, PCK, SCR
Johns Creak Onto 5 8	DIG SBridy River	RIVER	5070203	FLOYD	5-NS	9	272	10	12/10/2003	WALL BY DOG OF BOTH
Other Creek 24 0 to 30 7	Big Sendy River	RIVER	5070203	FLOYD	5-NS	0	23	(*)	8/3/2003	WALL DO DOD DOD
Johns Creek 34 4 to 42 5	DIG SENDY KIVE	KIVER	5070203	PINE	5-PS	5-NS 3	2-58	63	1/21/2004	WALL SO GOO SOO
Johnson Branch 0 0 to 0 9	Die General River	KIVEK	5070203	PIKE	S-NS	3	20	6	11/20/2003	WAH EC PCD SCD
Innes Fork Of to 9.4	Dig Sendy River	KIVER	5070202	PIKE	2-F8	60	3	n	10/27/2003	WAH EC DOD SOD
Know Creak 0.0 to 7.9	Bio Septi Dies	KIVEK	5070203	KNOT	5-PS	63	3	60	12/10/2003	WAH FC PCR SCR
Left Fork Beaver Creek 0.0 to 11.4	Bio Sanch River	DAVED	DOLUZUT BOTTON	PINE	200	5-P5	2.FS	3	8/3/2004 - 1/31/2008	WAH. FC. PCR. SCR.
Left Fork Beaver Creek 13.6 to 18.7	Bio Sandy River	RIVER	SUZU USUS	FLOYD	200	0	m	60	12/10/2003	WAH, FC, PCR, SCR
Left Fork Blaine Creek 0.0 to 2.1	Bio Sandy River	RIVER	FINTHSOM	AMBENICE	240	-		n	11/17/2003	WAH, FC, PCR, SCR
Left Fork Middle Creek, 0.0 to 8.4	Big Sandy River	RIVER	5070203	FLOVD	2000	040		0	1/27/2004	WAH, FC, PCR, SCR
Levisa Fork 0.0 to 5.8	Big Sandy River	RIVER	5070203	LAWRENCE	24.5	+		200	ZISZOOM	WAH, FC, PCR, SCR
Levisa Fork 116.0 to 124.4	Big Sandy River	RINER	5070202	PINE	5-NS		0 6	K-F3	1/21/2004	WAH, FC, PCR, SCR
Fork 5.8 to 15.3	Big Sandy River	RIVER	5070203	LAWRENCE	5-PS		8.00	9 0	BANKA	WAH, FC, PCR, SCR
Levise Fork 15.3 to 38.9	Big Sandy River	PINED	- Caracana							

Weterpoory and Segment	Basin	Water Body Time								
Levisa Fork 65.2 to 99.9	Big Sandy River	DIVED	SOLUTION STATE	County	WAHCAH	PCR S	SCR Fish Consumption	DWS	Assess Date	
Little Cat Fork 1.1 to 3.7	Big Sandy River	DAVED	2070703	JOHNSON	2-F8	-	-	+	4 10 5 10 10 10	Designated Uses
Little Paint Creek 3.2 to 6.4	Big Sandy Diver	MINER	\$070/0c	LAWRENCE	2-FS	9		2 "	44 202000	WAH, FC, PCR, SCR
Little Paint Creek 6.4 to 11.6	Blo Sandy River	RATED	5070203	JOHNSON	S-PS	-			11000003	WAH, FC PCR SCR
Long Branch 0.0 to 2.0	Big Sandy River	DA/ED	5070203	JOHNSON	5-PS	S	5-NS	0 67	2/13/2004	WAH, FC, PCR, SCR
Lower Elk Fork 0.4 to 2.4	Bio Sandy River	DA/CD	2070702	FLOYD	S-NS	က		3	11/12/2003	אינון דין דין אינון
Lower Laurel Fork 0.0 to 7.9	Big Sandy River	RIVER	1020/06	PIKE	2-FS	က		6	11/17/2003	WALL FO POR SOR
Lower Pigeon Branch 0.6 to 1.9	Big Sandy River	RIVER	507000	LAWKENCE	S-PS	3	3	3	2/13/2004	WAN EC BOD OOR
Merrowbone Creek 1.4 to 11.3	Big Sandy River	RIVER	5070202	TINE DIVE	2-55	0		0	10/27/2003	WAH FC POR SCR
March County Lake	Big Sandy River	RESERVOIR	5070201	MADTIN	2 6	20	3	6	11/13/2003	WAH FC PCR SCR
Middle Creek 0.0 to 4.5	Big Sandy River	RIVER	5070203	FLOVO	24.5	20	3	6	1/1/1998	WAH. FC. PCR. SCR.
Middle Fork Rockcastle Creek 0.0 to 16.8	Big Sandy River	RIVER	5070201	MADTIN	200	20		3	8/3/2004	WAH FC PCR SCR
Million Creek 0,0 to 6,4	Big Sandy River	RIVER	5070203	MONNO	200	20	3	3	11/25/2003	WAH FC PCR SCR
Mud Creek 0.0 to 2.7	Big Sandy River	RIVER	5070203	NO SULLOS	SN-C	2		3	11/12/2003	CAH FC PCR SCR
Nets Creek 0.0 to 3.1	Big Sandy River	RIVER	5070203	AMPENIOR	SN-C	+	9	3	2/13/2004	WAH FC PCR SCR
Open Fork 6.4 to 11.3	Big Sandy River	RIVER	5070203	TAVARENCE	1	+		9	8/3/2004	WAH EC PCP SCD DAVE
Otter Creek 0.0 to 0.5	Bla Sandy River	RIVER	507000	MORGAN	1	S	5-NS 3	6	1/15/2004	WAH EC POR SCB
Paddle Creek 0,0 to 1,4	Bio Sandy River	DAVED	201020	LOTO	SN-C	m	9	8	12/10/2003	WAN EC DOD GOD
Paint Creek 0.0 to 7.9	Bio Sandy River	DIVED	201020	BOYD				8	12/10/2003	WAH EC BOD GOD
Paintsville Reservoir	Bio Sandy Diver	1.5	20/0203	NONHOS		S-NS	3	6	11/13/2003	WALL ET DOO OOD
Penther Fork 0.0 to 3.72	Bio Candi Dies	ACSERVOIR	5070706	NOSNHOC	2-FS		-C	3	3/5/2003	WALL TO DOD DOD
Peter Creek 0.0 to 5.8	DAY CHES SIG	KIVEK	2070201	MARTIN	5-PS			6	44.05.0003	MATI TO TOR SOR
Plosonroat Fork 0.0 to 1.3	DIN SERVICE RIVER	KIVER	5070201	PKE	S-NS	6	3		Bramon	CAT, PCK, SCK
Pond Charles 34 To 9 7	Dig Sandy Kiver	RIVER	5070201	MARTIN	S-NS	-		0 0	900000	WAH, FC, PCR, SCR
Design Court Of to 4 a	Big Sandy River	RIVER	5070201	PIKE	5-PS	-		2 0	6/3/2004	WAH, FC, PCR, SCR
Purchase During Control	Big Sandy River	RIVER	5070203	FLOYD	2-FS		000	200	11/1/2003	WAH, FC, PCR, SCR
Fundament Branch U.U to 3.6	Big Sandy River	RIVER	5070203	KNOTT	S-PS	+	200	200	2/16/2004	WAH, FC, PCR, SCR
Kilicopon Crieek 5,6 to 7.4	Big Sandy River	RIVER	5070203	PIKE	200	+		2	12/10/2003	WAH, FC, PCR, SCR
Kight Fork Beaver Creek 0.0 to 17.4	Big Sandy River	RIVER	5070203	FLOVD	1	+		60	11/17/2003	WAH, FC, PCR, SCR
Right Fork Beaver Creek 30.3 to 33.4	Big Sandy River	RIVER	5070203	KNOTT	1	0	0	က	11/13/2003	WAH, FC, PCR, SCR
Robinson Creek 0.0 to 2.1	Big Sandy River	RIVER	5070202	DIVE	+	-		၉	11/17/2003	WAH, FC, PCR, SCR
Rock Fork 0.0 to 7.0	Big Sandy River	RIVER	5070203	בו טאט	1	20	m	9	8/14/2002	WAH, FC, PCR, SCR
Rockcastle Creek 0.0 to 3.7	Big Sandy River	RIVER	5070204	AMOENIOE	+	2	6		12/10/2003	WAH, FC. PCR. SCR
Rockcastle Creek 13.25 to 15.3	Big Sandy River	RIVER	5070204	MADTIN	+	2-FS	6	3	11/20/2003	WAH, FC. PCR. SCR.
Rockcastle Creek 3.7 to 13.25	Big Sandy River	RIVER	5070204	MANITAL	SIS	2	6	3	8/3/2004	WAH, FC. PCR. SCR.
Rockhouse Fork 0.0 to 6.3	Big Sandy River	RIVER	5070204	MAOTIN	0	2	2-FS	0	1/14/2004	WAH, FC, PCR, SCR
Russell Fork 0.0 to 4.2	Big Sandy River	RIVER	5070202	DIVE	200	1		က	11/12/2003	WAH, FC, PCR, SCR
Russell Fork 12.9 to 16.0	Big Sandy River	RIVER	5070202	DIKE	1	0	9	6	1/16/2004	WAH, FC, PCR, SCR, DWS
Russell Fork 6.2 to 9.2	Big Sandy River	RIVER	5070202	PIKE	2.50	2 6	2	2-FS	1/15/2004	WAH, FC, PCR, SCR
Salisbury Branch 0.0 to 1.8	Big Sandy River	RIVER	5070203	KNOTT	2 00	2 6	200	3	11/25/2003	WAH, FC, PCR, SCR
Salt Lick Creek 0.0 to 6.8	Big Sandy River	RIVER	5070203	FIOVD	200	2 6	200	69	12/10/2003	WAH, FC, PCR, SCR
Shelby Creek 0.0 to 6.1	Big Sandy River	RIVER	5070202	PIKE	+	2.50		0	12/10/2003	WAH, FC, PCR, SCR
Shelby Creek 6.1 to 13.3	Big Sandy River	RIVER	5070202	PIKE	t	-		20	11/25/2003	WAH, FC, PCR, SCR
Simpson Branch 0.0 to 1.8	Big Sandy River	RIVER	5070203	FLOVD	200	+		63	8/14/2002	WAH, FC, PCR, SCR
Sizemore Branch 0.0 to 2.0	Big Sandy River	RIVER	5070203	FLOYD	S NC	2 0	200	60	12/10/2003	WAH, FC, PCR, SCR
Spewing Camp Branch 0.0 to 3.1	Blg Sandy River	RIVER	5070203	FLOYD	1	U	A A A	200	12/10/2003	WAH, FC, PCR, SCR
Steele Creek 0.0 to 2.4	Big Sandy River	RIVER	5070203	FLOYD		+-	200	200	2/6/2004	WAH, FC, PCR, SCR
Stephens Branch 0.0 to 2.6	Big Sandy River	RIVER	5070203	FLOYD	S-NS	+		200	12/12/2003	WAH, FC, PCR, SCR, DWS
Torrigeon branch U.O to above 1.1	Big Sandy River	RIVER	5070203	NOSNHOC	m	+		0 6	12/10/2003	WAH PC PCR SCR DWS
Toms Dendi 0.0 to 1.0	Big Sandy River	RIVER	5070202	PIKE	2-FS	en		0 0	40,077,0000	WAN FO PCK SCK
Time Creat Court on	Big Sandy River	RIVER	5070203	JOHNSON	S-PS	3	3		RAZONA	WAN TO POR SON
The Cost 74 0 to 77.7	Big Sandy River	RIVER	5070201	LAWRENCE	2-FS	2-FS	3		100000	WALL CO DOD SOO
Ton Ends 78 25 to 84 4	Big Sandy River	RIVER	5070201	MARTIN		e	3-PS	9	11/25/2003	WAH EC BOD SOD
Tim Body 400 to 44 &	Big Sandy River	RIVER	5070201	PIKE		S-NS	3	0	1/20/2004	WAH EC POP ACE
Turkey Creak Of the & a	Big Sandy River	RIVER	5070201	MARTIN		5-NS	3	60	1/20/2004	WAH FC PCP SCP
Upper Pideagn Branch 0.0 to 2.1	Bio Good: Bitter	KNEK	2070203	FLOYD	S-NS	3	3	6	12/10/2003	WAH. FC. PCR. SCR.
Whites Creek 0.6 to 3.5	Bio Sandy Diser	KIVEK	2070202	PIKE	S-NS	6	3	က	10/27/2003	CAH. FC. PCR. SCR
Wilson Creek 0.0 to 2.9	Bio Sandy River	NIVER	5070702	BOYD	2-FS	0	3	က	9/22/2003	WAH, FC, PCR, SCR
Wolf Creek 0.0 to 6.5	Big Sandy River	RIVER	5070201	MADTIN	SN-G	6		6	12/10/2003	WAH, FC, PCR, SCR
Wolf Creek 17.6 to 20.5	Big Sandy River	RIVER	5070201	MARTIN	1	200	200	70	1/16/2004	WAH, FC, PCR, SCR
Wolf Creak 6.5 to 17.6	Big Sandy River	RIVER	5070201	MARTIN	S-NS	2 6	200	2 6	11/25/2003	WAH, FC, PCR, SCR
								2	11/23/2003	CAH, FC, PCK, SCK

Waterbody and Segment	Basin	The state of the s								
Wolfpen Branch 0.0 to 1.7	Eld Sandy River	TVETST BODY IVDS	8-Digit HUC	County	WAHICAH	PCR S	CR Fish Consumited	- 10		
Yatesville Reservoir	Big Sandy River	BESERVOIS	9070202	涺	8-NS	6	3	Den Dans	d.	Designated Uses
Adams Fork 0.0 to 4.6	Graen River	DAVED	2070204	LAWRENCE	2-FS	60		200	11/17/2003	WAH, FC, PCR, 8CR
Adams Fork 8.9 to 9.8	Green River	MIVER	5110004	OHIO	5-PS	9	3 0	79 5	3/5/2003	WAH, FC, PCR, SCR
Alexander Creek 0.0 to 3.6	Grand Bloom	KIVER	5110004	OHIO	2-68	3	9 0	-	3/1/2003	WAH, FC, PCR, SCR
Alexander Creek 3.6 to 7.1	Grann Diver	KIVER	5110001	EDMONSON	2-53	en	2 6	0	3/1/2003	WAH, FC, PCR, SCR
Austin Creek 2.8 to 3.6	Green River	KIVER	5110001	EDMONSON	2-FS	67	9 10	20	11/12/2002	WAH, FC, PCR, SCR
Bacon Creek 0.2 to 17.2	Green Rivar	DAVER	5110003	LOGAN	5-25	63		26	2002/2011	WAH, FC, PCR, SCR
Bacon Creek 27.1 to 32.6	Green River	PAVED	5110001	HART	2-4-8	5-NS	3 2-FS	9 67	SALDONA ACADEMONT	WAH, FC, PCR, SCR
Bacon Creek 17.2 to 27.1	Green River	RIVER	LOOOL P	HART	245	5-NS	0	3	347000	WAH FC PCR SCR
Becon Creek 32.6 to 33.5	Green River	RIVER	20001	HART	5-PS	S-NS	3	-	2006/2003	WAH, FC, PCR, SCR
Barnett Creek 0.0 to 3.5	Green River	RIVER	5440001	LARUE	SB-NS	58-NS	3	en	100900001	WAH, FC, PCR, SCR
Barnett Creek 3.5 to 10.4	Green River	RIVER	5040004	OHIO	2-58	60	3	6	3/4/2003	PCR.
Barran River 0.0 to 8.4	Green River	PINED	20000	OHIO	2-FS	62	3	9 64	40000000	
Barren River 104.9 to 119.4	Green River	DIVED	2010002	BUTLER	245		2-58	er.	1/4/9/00	WAH, FC, PCR, SCR
Barren River 29.6 to 35.0	Green Bluer	DAVED	5000010	ALLEN	2-FS	5-NS 54	5-NS		20074	WAH, FC, PCR, SCR
Barren River 35,0 to 44.0	Green River	DAVED	20002	WARREN	3	-		100	214 (2000)	WAH, FC, PCR, SCR
Berran River 8.4 to 15.1	Green River	DAVED	20002	WARREN	9	Ě	8	2-58		WAH, FC, PCR, SCR
	Green River	DAVED	5110002	WARREN	2-FS	3	3	1		WAH, PC, PCR, SCR
Barren River Reservoir	Green River	BESEBVOIR	2110002	ALLEN	2-13	1	60	10	10/19/2008	WALL ET DOD OOD THE
Barren Run 0.0 to 6.1	Green River	BAYED	20000	ALLEN	2-FS	3 24	2-FS 2B(5)	m	1/28/2008	WALL OF DOG OOD
Bat East Creek 3,4 to 7.5	Green River	BANED	5445000	LARUE	2-53	9	8	67	3/1/2003	WALL TO POR SOR
But East Creek 0.0 to 3.3	Green River	BAVED	6440003	MUHLENBERG	5-PS	6	3	60	12/17/2002	WALL OF BOTH SON
Bays Fork of Barren River 6.2 to 15.5	Green River	RNEG	5440000	MUNICHBERG	2-b3	2-FS 3	3	m	12/17/2002	WAH ET DOG SOO
Bear Creek 14,7 to 22,4	Green River	RIVER	5440004	ALLEN	5-PS	m	60	6	10/1/2007	WAH EC DOD SOO
Bear Creek 22.4 to 30.6	Graen River	RIVER	K440004	EDWONSON	SAS		3	60	2/28/2003	WAH EC DOD GOD
Bear Creek 8.05 to 12.7	Green River	RIVER	5140001	GRAYSON	S-PS	-	3	63	3/1/2003	EC DOD
Beaver Creek 16.2 to 28.6	Graen River	RIVER	5440000	CUMONSON	2-45	2-FS 2-FS	60	60	17222008	
Beaver Creek 8.5 to 15.5	Green River	RIVER	5440000	BACOCK	240	69	63	2-FS	3/1/2003	WAH FC PCR SCR
Beaverdam Creek 0.0 to 14.5	Green River	RIVER	5110001	FOMONSON	242	5-NS	67	69	1/16/2006	WAH, FC, PCR, SCR
Beech Creek 0.0 to 3.9	Green River	RIVER	5110003	MUHI ENBERG	AA NO		67	9	11/12/2002	WAH, FC, PCR, SCR
DIG ENUM CREEK U.D ID D.O	Green River	RIVER	5110001	GREEN	A De	AM-ND AM-ND	No.	6	2/14/2006	WAH, FC, PCR, SCR
Die Bruth Creek 13.0 to 17.4	Green River	RIVER	5110001	GREEN	258	S-NS S-FS	0	17	10/28/2007	WAH, FC, PCR, SCR, DWS
Blo Briesh Creek 2.0 to 7.1	Green River	RIVER	5110001	GREEN	0	245 245	9 0	0	10/27/2007	WAH, FC, PCR, SCR
Big Creek 3 9 to 92	Green River	RIVER	5110001	GREEN	63	4	2 65	20	11/27/2007	WAH, FC, PCR, SCR
Bio Pitman Creak O.0 to 13 9	Green River	RIVER	5110001	ADAIR	5-PS	5-PS 5-PS	9 60	2 6	214 2000 40000000	WAH, FC, PCR, SCR
Big Pitmen Creek 27.5 to 32 B	Green Pover	RIVER	5110001	GREEN	2-45		(6)	9 00	3075003 - 10/30/2007	
Blg Pitman Creek 13.9 to 17.8	Green River	HIVER	5110001	TAYLOR	5-PS	-	67	07	3/1/2003	WAN, PC, PCR, SCR
Big Pitman Creek 17.8 to 23.65	Green River	RIVER	100011	GREEN	67	5-PS 2-FS	83	643	10/30/2007	WAN TO BOO SOO
Big Rendy Creek 7.2 to 12.4	Green River	RIVER	5110001	BITTED	200	S-NS 2-FS		m	10/30/2007	WAN FC. PCR. SCR.
Billy Creek 0.0 to 4.8	Green River	RIVER	5110001	HARDIN	200	1		m	3/1/2003	WAH, FC, PCR, SCR
Black Shake Branch 1.6 to 2.9	Green River	RIVER	5110001	TAYLOR	2000	000	2-FS	0	3/1/2003 - 10/30/2007	WAH, FC, PCR, SCR
Brier Creat Of to 40	Green River	RIVER	5110002	LOGAN	SB-NS	100		200	10/30/2007	WAH FC, PCR, SCR
Brione Lake	Green River	RIVER	5110006	MUHLENBERG	4A-NS	4A-NS 4A-NS	NS 3	9 60	24479003	WAH, FC, PCR, SCR
Brush Creek 0.0 to 8.1	Green river	MESERVOIR	5110003	LOGAN	2-FS	3 2-FS	3	69	11/14/2008 - 11/14/2008	WAN, FC, PUR, SCH
Brush Craek 0.0 to 2.15	Graen River	RIVER	5110001	CASEY	5-PS	-	673	60	10/30/2007	WAN EC BOB 608
Brush Fork QO to 4.4	Green River	RIVER	100011	GREEN	2		en en	m	10/30/2007	WAH FC PCR SCR
Brushy Pond Creek 1,4 to 5.0	Green River	RAFE	2000	DITTER	S-NS	S-NS S-NS	3	60	12/17/2002	WAH, FC. PCR. SCR.
Buck Creek 0.0 to 8.0	Green River	RIVER	10005	MAI EAM	248	9	60	63	10/30/2007	WAH, FC, PCR, SCR
Buck Creek 1.9 to 8.1	Green River	RIVER	5110006	CHRISTIAN	200	2000	m .	173	3/1/2003	WAH, FC, PCR, SCR
Buck Fork 13.0 to 19.3	Green River	RIVER	5110006	CHRISTIAN	S. D. S.	K.NR. 3	m c	0	3/1/2003	WAH, FC, PCR, SCR
BUCK FORK U.D to 5.8	Green River	RIVER	5110006	TODD	5-PS	200	2		3/1/2003	WAH, FC, PCR, SCR
Buller Ends 23 to 40	Graen River	RIVER	6110005	DAVIESS	5-PS	3		9 0	TOTAL STATE OF THE PARTY OF THE	WAH, FC, PCR, SCR
Calbour Creak Of to 28	Crean River	RIVER	5110001	ADAIR	S-NS	5-NS 2-FS	5	. 67	1031/2007	WAH FC PCR SCR
Campbellaville City Reservnir	Green Biver	PERENOIS	5110001	CASEY	5-75		10	en	3/1/2003	WAH, FC. PCR. SCR.
Cane Run 0.0 to 3.7	Green River	RIVER	5110005	DAVIEGE	10 00 00 00 00 00 00 00 00 00 00 00 00 0	3 5-PS	63	en	11/13/2008	WAH, FC, PCR, SCR
Cane Run 0,8 to 6,5	Green River	RIVER	6110001	HART	2,65	200	me	0	12/17/2002	WAH, FC, PCR, SCR
Caney Creek 0.0 to 3.6	Green River	RIVER	5110003	MUHLENBERG	5-PS	3 6	2 0	2 6	SVT4/2007	WAH, FC, PCR, SCR
							0	9	1201112002	WAH, FC, PCR, SCR

Green River   RIVER   5110004	\$110004 \$110004 \$110004 \$110004 \$110004 \$110001 \$110001 \$110001 \$110000 \$110000 \$110000 \$110000 \$110000 \$110000	OHIO 2-F5 OHIO 2-F5 OHIO 3 MUHLENBERG 3 MUHLENBERG 5-NS OHIO 3 BARREN 2-FS GRAVSON 3-FS	2-FS 2-88 3-NS 3	Fish Consumption D	123/2008 1723/2008 3/1/2003 4/1/1908	WAH, FC, PCR, SCR WAH FC PCR, SCR
Green River   RIVER   5110006	5110004 5110003 5110004 5110004 5110001 5110001 5110001 5110002 5110004 5110004 5110004		2-15 5-NS 3-15	0 0 0		WAH, FC, PCR, SCR
Green River   RIVER   5110004	5110004 5110004 5110004 5110001 5110001 5110001 5110001 5110002 5110004 5110004	111	2-42 3-43 3-43	6 6		WAH FC BCB CCB
Green River   RIVER   5110004	5110004 5110004 5110004 5110001 5110001 5110001 5110001 5110002 5110003 5110003 5110003	111	SN-C	0		
Green River	5110004 5110001 5110001 5110001 5110001 5110001 5110001 5110002 5110004 5110004	1	9		-	WAH, FC. PCR. SCR.
Green River         REVER         5110002           Green River         RESERVOIR         5110004           Green River         RIVER         5110001           Green River         RIVER         5110001           Green River         RIVER         5110001           Green River         RIVER         5110000           Gre	\$110004 \$110001 \$110001 \$110001 \$110001 \$110001 \$110002 \$110002 \$110002	1	CLC	6	4/1/1998	WAH, FC. PCR. SCR
Green River   RESERVOIR   5110004	\$110004 \$110001 \$110001 \$110001 \$110001 \$110002 \$110002 \$110004	1	7	6	-	WAH, FC, PCR, SCR
Green River   RIVER   5110001	5110001 5110001 5110001 5110001 5110001 5110002 5110003 5110004		2 0	200	-	WAH, FC, PCR, SCR
Green River   RIVER   5110001	\$110001 \$110001 \$110001 \$110001 \$110002 \$110003 \$110004	2	2	200	+	WAH, FC, PCR, SCR
Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110003   Green River RIVER 5110003	\$110001 \$110001 \$110001 \$110002 \$110003 \$110004		63		2002/22/1- 1002/05/01	WAH, FC, PCR, SCR
Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110003	5110005 5110001 5110002 5110002 5110004 5110001	CASEY 2-FS	8		1021/2007	WAH FC PCR SCR
Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110003   Green River RIVER 5110004   Green River RIVER 5110003   Green River RIVER 5110004   Green River RIVER 5110003   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110005	202222	z	8 3	6	3/12003	WATER FOLDER SOR
Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110003	20222		3	2	12/3/2002	WAN FO POR SOR
Green River RIVER 5110002   Green River RIVER 5110003   Green River RIVER 5110006	2 2 2 2 2		S 5-NS 3	3 3	3/1/2003	WAH EC BOD 600
Green River RIVER 5110004	9 69 69		3 3	3	10/1/2007	WAN ED BOB OOB
Green River RIVER 5110004	00 00		3 3	60	11/12/2002	WALL FO TON SON
Green River RIVER   5110006	0	×	3	6	11/12/2002	WAN TO DO SON
Green River RIVER   5110006			60	3	3/1/2003	WAN EC BCB SCB
Green River RIVER 5110005	0	HOPKINS 5-NS		9	12/17/2002	WAH EC POR SOR
Green River RIVER 5110005	0		48-NS 4A-NS	NS 3	2/29/2006	WAH EC POR SCR
Green River   RIVER   5110005	10		S-NS	3 3	3/1/2003	WAH EC POR SOR
Green River RIVER 5110005   Green River RIVER 5110005   Green River RIVER 5110005   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110000	5110006		S 5-NS 5-NS	3 3	1/10/2008	WAN EC BOD SOD
Green River RIVER 5110004	2110008	MUHLENBERG 5-PS		38	4/1/1998	WAH EC POR SOR
Green River RIVER 5110005   Green River RIVER 5110005   Green River RIVER 5110001   Green River RIVER 5110002	9110008		S 5-PS 5-PS	3 3	3/1/2003	WAH EC PCP SCP
Green River   RIVER   5110005	5110004	GE	8	3 3	3/1/2003	WAH EC POP ACE
Green River RIVER 5110005   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110006	51		S 2-FS 2-F8	3 3	1/9/2008	WAH FC PCR SCR
Green River   RIVER   5110001	9110005	WEBSTER 28(5)		3 3	11/5/2007	WAH EC PCR SCR
Green River RIVER 5110001	9110005	-	S-NS		3/1/2003	WAH, FC. PCR. SCR
Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110003   Green River RIVER 5110003   Green River RIVER 5110003   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110005   Green River RIVER 5110002   Green River RIVER 5110005   Green River RIVER 5110005   Green River RIVER 5110005   Green River RIVER 5110005	2110001	1	60	3	11/5/2007	WAH, FC, PCR, SCR
Green River   RIVER   5110006	-	1	7		3/1/2003	WAH, FC, PCR, SCR
Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110002	100	HODKINS AA NO	24.45	ń	1/18/2008	WAH, FC, PCR, SCR
Green River RIVER 5110006 Green River RIVER 5110002 Green River RIVER 5110001 Green River RIVER 5110001 Green River RIVER 5110001 Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110003 Green River RIVER 5110003 Green River RIVER 5110003 Green River RIVER 5110003 Green River RIVER 5110004 Green River RIVER 5110005	100	1	1	200	2/14/2008	WAH, FC, PCR, SCR
Green River RIVER 5110002 Green River RIVER 5110001 Green River RIVER 5110001 Green River RIVER 5110001 Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110000	in or	W	200		3/1/2003	WAH, FC, PCR, SCR
Green River   RIVER   5110005	51		9		347/2003	WAH, FC, PCR, SCR
Green River RIVER 5110001   Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110006   Green River RIVER 5110002	51	WEBSTER 5-NS	000	2 6	3/1/2003	WAH, FC, PCR, SCR
Green River RIVER 5110001	5		5-PS 5-	Se	2/28/2003 - 11/20/2007	WALL FO DOD GOD
Green River RIVER 5110001   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110006   Green River RIVER 5110006   Green River RIVER 5110002   Green River RIVER 5110002   Green River RIVER 5110004   Green River RIVER 5110004   Green River RIVER 5110006   Green River RIVER 5110000   Green River RIVER 5110000   Green River RIVER 5110000   Green River RIVER 5110000	5		2-FS	3.3	10/1/2007	WAH EC POR SOR
Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110009 Green River RIVER 5110009 Green River RIVER 5110000				E 3	11/30/2007	WAH FC PCR SCR
3.2   Green River   RIVER   5110001	0	2	e e	8	3/1/2003	WAH FC PCR SCR
Green River RIVER 5110006	0		8		12/3/2007	WAH, FC. PCR. SCR
Green River   RIVER   5110008	200		m (	e e	10/1/2004	WAH, FC, PCR, SCR
Green River RIVER   5110003	200	HODICING	1	e	3/1/2002	WAH, FC, PCR, SCR
Green River RIVER 5110002	100	10GAN 2.50	0-W2	m e	7/16/2001	WAH, FC, PCR, SCR
Green River RIVER 5110002	5110008	.BG	4	m e	11/12/2002	WAH, FC, PCR, SCR
Green River RIVER 5110004	5110002	-		6	SUZING	WAH, FC, PCR, SCR
Green River RIVER 5110004	5110002		2-F8 2-		102001 - 1102001	WAN FC PCK SCK
Green River   RIVER   5110008	5110004	35	0	0 60	11/12/2002	WALL ED DOG SOD
Green River RIVER 5110005			5-NS 5-		12/17/2002 - 11/6/2007	WAH EC POR SOR
Green River RESERVOIR 5110005 Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110005 Green River RIVER 5110005	0	Z	m	3	12/3/2007	WAH. FC. PCR. SCR
Green River RIVER 5110002	20 4	-	69	E	3/1/2003	WAH, FC, PCR, SCR
Green River RIVER 5/10002 Green River RIVER 5/10002 Green River RIVER 5/10005 Green River RIVER 5/10001	-	HARUIN 2-FS	3	9	1/28/2008	WAH, FC, PCR, SCR
Green River RIVER 5110002 Green River RIVER 5110002 Green River RIVER 5110001	0 10	-	1	-	3/1/2003	WAH, FC, PCR, SCR
Green River RIVER 5110005 Green River RIVER 5110001	200		2+2	2 2 2	3/1/2003 - 1/18/2008	WAH, FC, PCR, SCR
Green River RIVER 5110001	51			2 6	3112003	WAH, PC, PCR, SCR
			5-NS 5-	3 3	3/1/2003 - 11/6/2007	WAH FC. PCR. SCR.
SPRING 6110001			5-NS	3 3	1/25/2008	WAH, FC, PCR, SCR
Green River SPRING 5110001		HART A.DE	2000		11/12/2001	, PCR, SC
Graen River SPRING SHOOP		N		200	1/25/2008	WAH, FC, PCR, SCR

Grapevine Lake Grassy Creek 2.1 to 4.4 Green River 108.5 to 151.2 Green River 151.2 to 170.4 Green River 2.10.5 to 250.3	Green Diver	Water Body Type	8-Diak HUC	Comme			ı				
Freshy Creek 2.1 to 4.4 Freen River 105.5 to 151.2 Freen River 151.2 to 170.4		01010000		County	WAHICAH	PCR SC	R Fish Consumption	office DMrs	Assessed Bart		
Freen River 109.5 to 151.2 Freen River 151.2 to 170.4 Freen River 210.5 to 250.3	Green River	PARED	5110006	HOPKINS	2-FS	3 2-FS	-	+	44/44/200e	Designated Usy	
ireen River 151.2 to 170.4 ireen River 210.5 to 250.3	Green Diver	LINER	9000LLC	OHO	SN-S	60		0 0	244 2000	WAH, FC, PCR, SCR	CR
keen River 210.5 to 250.3	Creen Diver	KIVEK	5110003	BUTLER	60			200	3/1/2003	WAH FC PCR SCR	28
	County Division	KIVER	5110001	WARREN	2-FS	60	600	24.5	3/1/2003 - 1/8/2008	WAH FC PCR SCR	2
Green River 250.3 to 254.3	Green Diver	RIVER	5110001	HART	2-FS	2-FS 2-FB		2.50	3/1/2003 4/8/2000	WAH IC PCR SCR	N. C.
Green River 254.4 to 270.0	Graen River	BAVED	5110001	HART	2-F8			3	1/20/2002	WAH IC PCR S	5 6
Green River 270.0 to 276.2	Green River	RIVER	5440004	GREEN	2-FS	-	3	e	1/8/2008	MAN CO CO CO	200
	Green River	RIVER	5110001	TAVIOR	2-FS	2-FS 2-FB		က	1/8/2008	WAH EC POB SCR	200
Green River 328.5 to 344.95	Green River	RIVER	5110001	ADAID	2-1-2	-	S-FS	2-FS	1/9/2008	WAH FC PCR R	9
Green Kiver 309.6 to 366.6	Green River	RIVER	5110001	CACEV	740	2-FS 2-FS		8	1/9/2008	WAH FC PCR SCR	0
	Green River	RIVER	5110001	ININ	242	m		3	11/12/2002	WAH EC PCP &	9
Green River 45.3 to 55.2	Green River	RIVER	5110005	MAJ EAN	Z-F.S	en		2-FS	1/9/2008	WAH EC POP CO	100
Green River 63.4 to 71.9	Green River	RIVER	5110005	MCLEAN	2-5	0		2-FS	1/8/2008	WAH EC POR SOR	DIAZO
Green River 0.2 to 28.2	Green River	RIVER	E44005	MCLEAN	m	6	9	2-FS	1/8/2008	WAH EC DOD COD	CAAC
Green River 276.2 to 283.2	Green River	RIVED	+	DOUBLESON	2-58	-		6	1772008	WAH ED ODO	100
Green River 71.9 to 94.4	Green River	PIVED	1	GREEN	m	2-FS 2-FS	S 2-FS	3	1/8/2008	CAN ET DOG 6	K 0
Green River Reservoir	Green River	RESERVOID	1	MUNICENBERG	2-FS	-		2-FS	1/8/2008	WAN EC BOD COD	
Groves Creek 0.0 to 6.4	Graen River	BAVED	Seasone .	IAYLOR	2-FS	3 2-FS		2-FS	10/23/2006	WAH EC POP A	50
Halls Creek 6.8 to 9.6	Green River	BIVED	2440004	WEBSIEK	S-NS	63	3	3	3/1/2003	WAH EC POR A	
Havana Creek 0.0 to 1.9	Graan Rivar	DAVED	1000	OHO	5-PS	3	3	6	1/28/2008	WAH EC POD &	
Head of Rough River Spring 154.85 to 155.8	Graen Rivar	Spoint	000000	WEBSIER	S-PS			9	3/1/2003	WAH EC BOR R	0
Hickman Creek 0.8 to 3.2	Graen Biver	DAVED	900010	HARDIN	5-PS	5-NS 3	3	60	1/25/2008	WAH EC DOD o	
Indian Camp Creek 0.1 to 3.1	Green Siver	DAVED	10001	CASEY	8	3	3	2-FS	11/8/2007	WAH EC DOR GOD	50
Indian Camp Creek 3.1 to 10.4	Grand Diver	NIVER	SUMULE	BUTLER	SB-PS	2-FS 3	69	6	3/1/2003 - 11/6/2007	WALL ET OCK	
ndian Creek 0.0 to 7.5	SALVING COMMENT	KIVER	5110003	BUTLER	5-PS	63	60	60	11/R/2007	NAME OF THE PARTY	K 5
Odian Creak OS to 52	Green River	RIVER	5110003	WARREN	2-FS	3		6	2445003	SALA OF TANK	N. S.
Search Charles Collection	Green Kiver	RIVER	5110002	MONROE	2-FS			9 (	24 2003	WAH, CAH, P.C. P.CR, SCR	SCR
Marie Court Of the 4 B	Green River	RIVER	5110006	MUHLENBERG	S-NS	un't	000	2 0	3/1/2003	WAH, FC, PCR, SCR	œ
Mine Creek C.O.D. I.O.	Green River	RIVER	5110006	MUHLENBERG	5-NS	S.N.S.		0	3/1/2003	WAH, FC, PCR, S	2
MER POR U.U 10 1.1	Green River	RIVER	5110004	GRAYSON	S-NS	1		200	3/1/2003	WAH, FC, PCR, S	æ
Breek Policy Policy D. U. D. 10 2.4	Green River	RIVER	5110004	OHO	S-NS	+	0 0	200	371/2003	WAH, FC, PCR, SCR	2
Joes Branch U.U to 4.4	Green River	RIVER	5110005	DAVIESS	5 PS			7	3/1/2003	WAH, FC, PCR, SCR, DW	DWS
Jose Run 0,0 to 4.8	Green River	RIVER	5110005	DAVIESS	S-PS	2 6	200	m (	12/17/2002	WAH, FC, PCR, SCR	DWS
ANDOREK Creek U.0 to 2.1	Green River	RIVER	5110005	DAVIESS	3	or.		200	2002// 1/21	WAH FC PCR SCR	æ
ANDREA CLUID B. 1	Green River	RIVER	5110005	WEBSTER	S-NS	e		2 0	SUZZUS	WAH FC PCR S	æ
	Green River	RESERVOIR		MUHLENBERG	2-FS	1		2 00	37/7/003	WAH, FC, PCR, S	œ
ate Methylan	Green River	RESERVOIR	5110003	LOGAN	2-FS	3 2.FS	S.De	200	444440000	WAH, FC, PCR, SCR	2
averal Press of the different of the Co.	Green River	RESERVOIR	-	OHIO	2-FS	3 2.FS		2 6	447447000	WAH FC, PCR SCR	ox I
Author Create Of to 14 B	Green River	RIVER	5110003	LOGAN	2-FS	+		0 6	44.820007	WAH PC PCR S	×
Mark Clean Cold II.o	Green Kivar	RIVER	5110003	OHIO	5-PS	60		3 6	2/4 (2004)	WAH, FC, PCR, SCR	2
Designation of the state of the	Green River	RESERVOIR	5110003	LOGAN	3		er.	0 60	3/11/2001	WAH FC PCK, SCR	X C
bet Const. Of to 10.5	Green Kiver	RESERVOIR	5110001	CASEY	2-FS	3 2-FS	60	en	11/14/2008	WALL TO TOR OCK	× 9
Int Creat October 2	Grean River	RIVER	5110002	SIMPSON	2-58	3	en	en	11/12/2002	WALE OF BOD ON	200
Ich Creek & Oto 12 8	Green River	RIVER	5110005	HENDERSON	5-NS	3	m	67	3/1/2001	WALL EC BOD SOO	200
Linders Creek 0.0 to 7.9	CHARLE DIVIN	RIVER	5110005	HENDERSON	5-NS	3	3	6	2/1/2008	WAH EC POR SCR	0
Lindy Craek 0.0 to 0.9		CHACO	5110004	HARDIN	2-58	6	က	က	10/1/2007	WAH. FC. PCR. SCR.	o c
Line Creek 0.0 to 7.2	Grann Diver	DAVED	TOOOTE	HARI	S-PS	0	3	က	3/1/2003	WAH FC PCR SCR	α
Little Barren River 0.0 to 9.8	Grann Blunc	ONVED	2110002	MONKOE	2-58	9	63	က	3/1/2003	WAH FC PCR S	œ
little Barren River 9.8 to 15.7	Green Bluer	DAVED	0110001	GREEN	2-FS	-	23	8	1/2/2008	WAH FC PCR SCR	0
Little Beaverdam Creek 0.0 to 11.4	Grann Bluer	DAVED	0110001	GREEN	0	5-NS 5-NB	8	က	1/2/2008	WAH FC PCR SCR	0
Little Brush Creek 3.2 to 13.2	Green River	DAVED		WARKEN	5-PS	-	8	60	11/14/2007	WAH FC PCR S	o.
Little Cypress Creek 0.0 to 10.1	Green River	DAVED	5445000	GREEN MARKETAN	2-1-5	S	20	ო	10/1/2007 - 11/14/2007	WAH FC PCR SCR	×
Little Muddy Creek 6.6 to 12.9	Green River	RIVER	1	BITTI CO	200	1	60	e	12/7/2002	WAH FC PCR SCR	S.
Little Muddy Creek 5.2 to 8.8	Green River	RIVER	5110002	BITTER	200	200	200	0	3/1/2001	WAH, FC, PCR, SCR	8
ittle Pitmen Creek 10.1 to 11.2	Green River	RIVER	5110001	TAYLOR	25.6	9	200	0	3/1/2003	WAH, FC, PCR, S	α
Ittle Pitman Creek 0.0 to 10.1	Green River	RIVER	5110001	TAYLOR	2.58	ANS ADS	000	0	2/5/2007	WAH FC PCR SCR	æ
ttle Russell Creek 0.0 to 5.1	Green River	RIVER	5110001	GREEN	2-58	+	9 00	2 6	/002/L/LL /002/L/UL	WAH FC PCR S	œ,
Little Short Creek 0.0 to 3.1	Green River	RIVER	5110004	GRAYSON	2-F8	+	0	2 60	10/1/2007	WAH FO POR SOR	× 0
Charle Creek O.C. to 2.4	Green River	RIVER	1	ALLEN	2-FS	3	60	m	3/1/2003	WAH EC DOD CO	
20 00 00 00 00 00 00 00 00 00 00 00 00 0	Green Payer	RIVER	-	MUHLENBERG	5-PS		69	m	10/1/2007	WAN EC OCO CO	200

Waterbody and Segment	Besin	Water Body Type	8-Dioit HIIC	County	MALUNAN	- 1-	ŀ	- 1			
Long Falls Creek V.D 10 7.0	Green River	RIVER	5110005	MCLEAN	S DS	אלה מאיז	LISH CO.	DWS	Assess Date	Designated Uses	
Lond Fork O S to 1 7	Green River	RIVER	5110005	MCLEAN	S-PS	S-NS S-NS		200	12/17/2002	WAH, FC, PCR, SCR	
Long Lick Creek 4.6 to 7.2	Green Kiver	RIVER	5110002	MONROE	2-FS	4_		2 6	3/1/2003	WAH, FC, PCR, SCR	
Lost River Rise (9000-0054)	Green Kiver	RIVER	5110004	BRECKINRIDGE	S-NS	-	000	0 6	347003	WAH, FC, PCR, SCR	
Lynn Camp Creek 0.0 to 8.3	Green River	SPRING	5110002	WARREN	2-FS	S-NS		0	1 DAPONE	WAH, FC, PCR, SCR	
Mehurin Spring (9000-0202)	Graen Diver	KIVEK	5110001	HART	2-FS	SN-9 SN-9	SX SX	6	12/8/2007	WALL CO DO SON	
McClure Fork of Bear Creak 3.1 to 4.1	Green River	RIVER	51 10004	GRAYSON	2-F8	1	3	6	1/24/2006	WAH FC PCR SCR	
McCoy Bluehole Spring (9000-0792)	Green River	SPRING	5110001	HADT	SN-9c		3	က	12/6/2007	WAH, CAH, FC, PCR, SCR, DWS	
McFarland Creek 1.5 to 5.0	Green River	RIVER	5110006	CHRISTIAN	250	SN-C		m	1/25/2008	WAH FC PCR, SCR	
McGrady Creek 0.0 to 1.9	Green River	RIVER	5110004	OHIO	5.0c	1	200	0	11/12/2002	WAH, FC, PCR SCR	
Meadow Creek 0.0 to 0.8	Green River	RIVER	5110001	GREEN	2,50	2-13	200	6	3/1/2003	WAH, FC, PCR, SCR	
Meadow Creek 0.8 to 7.4	Green River	RIVER	51 0001	GREEN	2 50	1		60	3/1/2003	WAH, FC, PCR, SCR, DWS	
Meeting Creek 5.2 to 14.0	Green River	RIVER	5110004	HARDIN	5 DC	1	90	60	3/1/2003	WAH, FC, PCR, SCR	
Mercane County Lake	Green River	RESERVOIR	5110001	METCALFE	2.58	6		200	12/6/2007	WAH, FC, PCR, SCR, DWS	
Middle Fork of Drakes Creek 0.0 to 7.8	Green River	RIVER	5110002	WARREN	5.PS	+		200	11/14/2008	WAH, FC, PCR, SCR	
Middle Fork of Unikes Creek 12.0 to 18.3	Green River	RIVER	5110002	ALEN	2.55	+	200	200	12/6/2007	WAH, FC, PCR, SCR	
Middle Pitman Creek 0.0 to 7.7	Green River	RIVER	5110001	GREEN	2-FS	W.		2 6	12/6/2007	WAH, FC, PCR, SCR	
MICCIE PRIMIN CIESK B.Z to 10.1	Green River	RIVER	5110001	TAYLOR	2-FS	+		2 6	/002/07	WAH, FC, PCR, SCR	
Mill Creek U.O to 2.6	Green River	RIVER	5110001	TAYLOR	2-FS	+	2 6	2 0	7002/07/	WAH, FC, PCR, SCR	
Mill Crook U.U to 4.2	Green River	RIVER	5110004	OHO	3	U.		200	5002/L/S	WAH, FC, PCR, SCR	
MMII Creek 6.0 to 7.0	Green River	RIVER	5110002	MONROE	6	1		200	SULZUUS	WAH, FC, PCR, SCR	
Mill Creek Lake (Monroe County)	Green River	RESERVOIR	5110002	MONROE	2.FS	200	U	24.7	12/6/2007	WAH, FC, PCR, SCR	
Mill Spring (9000-1193)	Green River	SPRING	5110001	GRAYSON	2-FS	U		2-L2	11/14/2008	WAH, FC, PCR, SCR	
Motts Lick Creek 0.0 to 3.3	Green River	RIVER	5110003	LOGAN	2.FS	1	2	2	9002/62/1	WAH, FC, PCR, SCR	
Mud River 30.9 to 52.2	Green River	RIVER	5110003	LOGAN		10		200	3/1/2003	WAH, FC, PCR, SCR	
Mud River 52.2 to 64.0	Green River	RIVER	5110003	LOGAN		1		20	172/2008	WAH, FC, PCR, SCR	
Mud River 9.1 to 30.9	Green River	RIVER	51 10003	MUHLENBERG	S-NS	0	(C)Q7	2 0	3772003	WAH, FC, PCR, SCR	
Mud River 0.0 to 9.1	Green River	RIVER	5110003	MUHLENBERG	3	+		200	172/2008	WAH, FC, PCR, SCR	
Muddy Creek 0.0 to 5.9	Green River	RIVER	5110003	BUTLER	2-FS	es.		2 4	1/18/2007	WAH, FC, PCR, SCR	
Muchay Creek 1.8 to 4.8	Green River	RIVER	5110004	OHIO	S-NS		3	2 67	2/28/2003	WALL FO POR SOR	
Michael Charles of the Africa	Green River	RIVER	5110004	OHO	5-PS				2/19/2008	WALL CO OCE	
Minddy Creek 0.5 to 15.5	Green River	RIVER	5110003	BUTLER	5-PS	6	6	0	12/6/2007	WAH EC DOD ACE	
Muddy Creak Off to 50	Green Kiver	KIVER	51 0004	OHO	2-FS	3	3	6	11/12/2002	WAH FC PCR SCR	
Muddy Fork 00 to 4.6	Creen River	KIVEK	5110004	OHO	S-PS	3	3	6	8/2/2003	WAH, FC. PCR. SCR. DWS.	
Name Creek 2.6 to 4.1	Green Diver	RIVER	9000	MUHLENBERG	2-FS	8	8	9	12/17/2002	WAH, FC. PCR. SCR	
No Creek 0.5 to 9.2	Green Diver	RIVER	90000	HOPKINS	S-NS	9	8	3	3/1/2003	WAH, FC. PCR. SCR.	
Nolin River 88.2 to 98.5	Green Diver	RIVER	54,0004	OHIO	2-FS	e	6	e+	3/1/2003	WAH, FC, PCR, SCR	
Notin River 0.0 to 7.7	Green Diver	DAVED	1000	HAKUIN	2-FS	6	9	6	3/1/2003	WAH, FC, PCR, SCR	
Nolin River 37.6 to 86.2	Green River	RIVER	54 0004	LADONSON	2+8	-		က	10/25/2007	WAH, FC, PCR, SCR	
Nolin River Reservoir	Green River	RESERVOIR	51,0001	CDAVEON	2-1-X	1		2-FS	3/1/2003 - 10/25/2007	WAH, FC, PCR, SCR	
Nolynn Spring (9000-2673)	Green River	SPRING	5110001	APLIE	200	01-1	24.0	1-FS	10/24/2007	WAH, FC, PCR, SCR	
North Branch of South Fork of Panther Creek 0.0 to 4.2	Green River	RIVER	5110005	HANCK	S No	0-10	+	0	1/25/2008	WAH, FC, PCR, SCR	
North Fork of Barnett Creek 0.0 to 2.3	Green River	RIVER	51 10004	OHO	80-5	+	0 6	2 0	SUZZILIS	WAH, FC, PCR, SCR	
North Fork of Nolin River 3.0 to 7.0	Green River	RIVER	5110001	LARUE	S-NS	200		25.0	42772007	WAH, FC, PCR, SCR	
North Fork of Parither Creek 4.2 to 9.1	Green River	RIVER	5110005	DAVIESS	S-PS	S			3/120003 - 12/12/00	WALL ED BOD SON	
North Fork of Parines Creek 0.0 to 4.2	Green River	RIVER	5110005	DAVIESS	2B(5)	3	9	67	10/1/2007	WAH EC BCB CCB	
North Early of Bound Blues 44.4 to 24.6	Green River	RIVER	5110004	BRECKINRIDGE	2-FS	6	3	က	12/7/2007	WAH FC PCR SCR	
North Fork Panthar Creak 9 7 to 12 7	Green River	KIVEK	51 0004	BRECKINRIDGE	2-FS	9	6	3	10/1/2007	WAH, FC. PCR. SCR.	
Nortorville Lake	Green River	RESERVOID	5410005	DAVIESS	S-PS	60		3	12/17/2002	WAH, FC, PCR, SCR, DWS	
Old Panther Creek 0.4 to 5,7	Green River	RIVER	24.000	DAMEGE	200	+		9	1/29/2008	WAH, FC, PCR, SCR	
Old Panither Creek 5.7 to 8.8	Green River	RIVER	5110005	DAVIESS	S N S	-	000	0	3/1/2003	WAH, FC, PCR, SCR	
Otter Creek 0.0 to 6.3	Green River	RIVER	5110008	HOPKINS	S-NS	2 60	2 6	2	3/1/2003	WAH FC PCR SCR	
Panither Creek 0.1 to 3.0	Green River	RIVER	5110005	DAVIESS	S-NS	v	-	0 6	4 POPODO	WAH, TC, PCK SCK	
Parither Creek 17.9 to 20.4	Green River	RIVER	5110005	DAVIESS	S-NS	6		2 60	12/17/2002	WALL FO POR SOR	
Parither Creek 0.0 to 3.6	Green River	RIVER	5110003	BUTLER	S-PS	60	3	3	11/2/2008	CAH, FC, PCR, SCR	
Peter Creek 14.2 to 21.0	Green River	RIVER	5110005	DAVIESS	3	S-NS	60	က	3/1/2003	WAH, FC, PCR, SCR	
Pettys Fork 0.0 to 6.1	Green River	RIVER	5110001	ADAID	2-7	7 00		60	11/12/2002	WAH, FC, PCR, SCR	
			1000110	ALVAN	240	7	20	3	3/1/2003 - 10/30/2007	WAH, FC, PCR, SCR	

Waterbody and Segment	Basin	Water Bods Time	A 501 11 11 11 10							
Pigeon Creek 0.0 to 3.4	Green River	RIVER	5110004	Comunic	WAHICAH	PCR SCR	Fish Consumption	DWS	Assess Date	Designated lines
Pleasant Run 0.0 to 2.0	Green River	RIVER	511000R	UCDIVINO	2	8	- 6	ဗ	3/1/2003	WAH FC PCR SCR
Pleasant Run 2.0 to 7.8	Green River	BAKED	644000	SALVENING	S-N-S	4A-NS 4A-NS		က		WAH ET DED GED
Plum Creek 0.0 to 1.7	Green River	RIVER	5440000	MUNICIPALITY OF	AA-NS	4A-NS 4A-NS		60	4/1/1998	WAH EC DOD GOD
Plum Creek 1.7 to 3.9	Green River	RIVER	514000B	MUTENBERG	SN-S		6	m	3/1/2003	WAH EC POR SOR
Pond Creek 0.0 to 4.8	Green River	RIVER	5110003	MOTENBERG	SN-C	-		က	3/1/2003	WAH FC PCR SCR
Pond Creek 14.4 to 18.1	Green River	RIVER	5110003	MULI ENDERG	2-12		3	9	1/18/2008	WAH FC PCR SCR
Pond Creek 18.1 to 22.1	Green River	RIVER	5110003	MINITERNOLIS	200			9	12/31/2007	WAH, FC. PCR. SCR
Port Creek 4.8 to 7.8	Green River	RIVER	5110003	MUHLENBERG	S No	SH-NS 4A-NS		0	12/31/2007	WAH, FC, PCR, SCR
Bood Creek 44 24-44 4	Green River	RIVER	5110003	MUHLENBERG	SNS	AA NE AA N	200	9	12/17/2002	WAH, FC, PCR, SCR
Pord Desir DOLL 20	Green River	RIVER	5110003	MUHLENBERG	SNS	AA NE AA NE		2	12/31/2007	WAH, FC, PCR, SCR
Para Direct Apr. 20.0	Green River	RIVER	5110008	MCLEAN	S D S			2	12/31/2007	WAH, FC, PCR, SCR
Board Blues O 04- 4 O	Green River	RIVER	5110006	HOPKINS	S-PS	250 250		200	3/1/2003	WAH, FC, PCR, SCR
POND KING U.O. 10 T.O.	Green River	RIVER	5110006	HOPKINS	2	-		20	1/18/2008	WAH, FC, PCR, SCR
Port Diver 57 71- 64 0	Green River	RIVER	5110008	MUHLENBERG	5-PS		2 6	7 0	3/1/2003	WAH, FC, PCR, SCR
Porto Niver 5/ / 10 01.2	Green River	RIVER	5110008	CHRISTIAN	2-FS	c		200	4/1/1886	WAH, FC, PCR, SCR
PUND KINNE 01.2 to 71.4	Green River	RIVER	5110008	MUHLENBERG	S-PS	2.ES 3	200	2 6	1/18/2008	WAH, FC, PCR, SCR
Para Run 0.0 10 0.0	Green River	RIVER	5110004	OHO	2-FS	1	2 6	+	3/2/2003	WAH, FC, PCR, SCR
Property Grant Col. 49	Green River	RIVER	5110001	TAYLOR	3	1	2 6	200	1017/2007 - 1/23/2008	WAH, FC, PCR, SCR
Design Creek Co to 4.3	Green River	RIVER	5110002	ALLEN	2-FS		2	+	SULZUIS	WAH, FC, PCR, SCR
Nember Creek U.U to 3.0	Green River	RIVER	5110003	OHIO	5-NS	NS AA		2 6	SULZUUS	WAH, FC, PCR, SCR
PL 12 OF 12	Green River	RIVER	5110005	DAVIESS	5-PS			2 6	0007/h177	WAH, FC, PCR, SCR
PUNDES CIBER U.U to 2.2	Green River	RIVER	5110005	DAVIESS	SN-S	-	0 6	3 6	49/47/2003	WAH, FC, PCR, SCR
Principal Creek 2.2 to 7.5	Green River	RIVER	5110005	DAVIESS	S-NS		0 60	2 6	42/47/2002	WAH, FC, PCR, SCR
Andriend Slough U.D 10 4.8	Green River	RIVER	5110005	HENDERSON	SN-S	-	0 6	3 0	214 10000	WAH, PC, PCR, SCR
Robinson Creek 13.5 to 16.1	Green River	RIVER	5110001	TAYLOR	2-FS	-	0 6	0 0	404 2000	WAH, FC, PCR, SCR
Moonagen Craek 8.8 to 10.8	Green River	RIVER	5110001	TAYLOR	5-PS	+	0 6	2 6	10111000	WAH, FC, PCR, SCR
ROCKY C186K 4.6 to 12.2	Green River	RIVER	5110003	MUHLENBERG	2-FS	+	0 60	2 6	404 2007	WAH, FC, PCR, SCR
Rough River U.U to 10.4	Green River	RIVER	5110004	MCLEAN	S-NS	140		3 6	400007 40000	WAH, FC, PCR, SCR
Rough River 27.2 to 25.9	Green River	RIVER	5110004	OHIO	3	2-FS 3		9 67	3/10/03	WAN FC. PCK, SCK
Down Diver 20 8 to 20 8	Green River	RIVER	5110004	HARDIN	2-FS	5-PS 3	e	63	11/12/2002 - 10/25/2007	WAH EC BOD GAD
Dough Diver 65 4 to 84 9	Green River	RIVER	5110004	OHO	3		m	S	1/2/2008	WAN EC DOD COM
Rough River 67 0 to 90.3	Green River	RIVER	5110004	OHIO	SN-9	5-NS 5-NS	3	6	1/2/2007 - 1/2/2008	WAH FC PCR SCR
Rough River Reservoir	Green River	DESERVICIO	\$000tte	BRECKINKIDGE	2-FS	+		6	10/24/2007	WAH, FC, PCR, SCR
Round Stone Creek 0.0 to 10.2	Green River	RIVER	5110001	HADT	2-L	2-FS 2-FS		2-FS	10/23/2007	WAH, FC, PCR, SCR
Russell Creek 0.0 to 7.2	Green River	RIVER	5110001	CREEN	2-13	2 000	200	e (	3/1/2003	WAH, FC, PCR, SCR
Russell Creek 12.8 to 24.1	Green River	RIVER	5110001	GREEN	2-58		200	7 0	12/18/2007	WAH, FC, PCR, SCR
Russell Creek 23.8 to 40.0	Green River	RIVER	5110001	ADAIR	2-FS	5-NS 5-PS		2 6	42/48/2003	WAH, FC, PCR, SCR
Kusses Creek 40.0 to 42.2	Green River	RIVER	5110001	ADAIR	2-FS	S-NS S-NS		+	3/1/2003 - 12/18/2007	WAN CO DOD SOR
Dissent Creek 42.2 to 00.4	Green River	RIVER	5110001	ADAIR	2-FS	-		S	12/18/2007	WAH EC POR SOR
Dissell Creek 7.3 to 4.3 9	Green Kiver	RIVER	5110001	ADAIR	2-FS	Н		-	12/18/2007	WAH FC PCR SCR
Salem   ake	Seen River	KIVEK	5110001	GREEN	2-FS	S		6	12/18/2007	WAH. FC. PCR. SCR
Salt lick Creek Of to 14	Control City	KESEKVOIK	T000TT6	LARUE	2-FS	7		3	11/14/2008	WAH, FC, PCR, SCR
Salt Lick Creek 0.0 to 3.7	Green River	RIVER	5440003	WAKKEN	SN-0	9	80	6	3/1/2003	WAH, FC, PCR, SCR
Salt Lick Creek 1.8 to 4.6	Green River	RIVER	5110002	MONDOF	2-50	+	60	6	12/17/2002	WAH, FC, PCR, SCR
Sand Lick Creek 0.0 to 4.0	Green River	RIVER	5110003	MIHI FNREDG	6 00	200	20	0	3/1/2003	WAH, FC, PCR, SCR
Shanty Hollow Lake	Green River	RESERVOIR	5110001	WARREN	2.50			7	12/17/2002	WAH, FC, PCR, SCR
Sixes Creek 0.0 to 7.5	Green River	RIVER	5110003	OHIO	2-FS	+	2 6	2 6	11/14/2006	WAH, FC, PCR, SCR
Skaggs Creek 5.5 to 23.3	Green River	RIVER	5110002	BARREN	2-5	S	0 60	2 60	10020001	WAH, FC, PCR, SCR
Skees KW#1 (9000-1398)	Green River	SPRING	5110001	HARDIN	S-PS		60	6	17500A	WAH SO DOD SOD
Smith Creek 0.0 to 4.4	Green River	RIVER	5110004	OHIO	2-FS	3	3	6	3/1/2003	WAH FC PCR SCR
South Fort 0.0 to 2.2	Green River	RIVER	5110001	CASEY	2-FS	e e	3	60	3/1/2001	CAH, FC. PCR. SCR
South End Mollo Blue Of to 8.4	Green River	RIVER	5110001	CASEY	2-F8		3	9	3/1/2003	WAH, FC, PCR, SCR
South Fork of Beaver Creek 0.0 to 3.2	Green River	KIVER	5110001	DADOCAL	2-FS	+	6	m	3/1/2001	WAH, FC, PCR, SCR
South Fork of Little Barren River 0.0 to 23.1	Green River	RIVER	5110001	METCALFE	2,58	-		m (	10/22/2007	WAH, FC, PCR, SCR
South Fork of Little Barren River 23.1 to 30.1	Green River	RIVER	5110001	METCALFE	S-PS	5-PS 2-FS	2 60	2 6	12/18/2007	WAH, FC, PCR, SCR
South Fork of Penther Creek 0.0 to 2.4	Green River	RIVER	5110005	DAVIESS	S-PS	-		6	1/22/2008	WAH EC DOB SCD
South Fork of Panither Creek 14.0 to 18.3	Green River	RIVER	5110005	DAVIESS	3	-		8	3/1/2003	WAH FC PCR SCR
									A HEAVE	TANK LO, FOR, OUR

HATCHER   17,10000	Waterbody and Segment	Basin	Water Body Type	8-Digit HUC	County	MAUCAU	ŀ					
Control   Cont	South Fork of Panthar Creek 2.4 to 9.55	Green River		5110005	DAVIESS	S-NS	PCR SCR	Fish Consumption	DWS	Assess Date	Designated Uses	
Control   Cont	South Fork of Russell Creek O to 8 4	Green River	RIVER	5110005	DAVIESS	S-PS	+	200	0	12/1/2001	- 4	
Control   Cont	Spa Lake	Green River	RIVER	5110001	GREEN	2-FS	+	2 67	1	12/17/2002		_
Control Delta   Control Delt	Spurlington Lake	Green Siver	RESERVOIR	5110003	LOGAN	2-FS	-	6	1	119/2002 - 12/13/200 11/14/2000		
Control   Cont	Sputzman Creek 1.3 to 4.4	Green River	PINED	5110001	TAYLOR	2-FS	H	8	0 60	11/14/2008	WAH, FC, PCR, SCR	
Control Repair   Repair   Stroom   Adults   Stroom   Adults   Stroom   Adults   Stroom   St	Sulphur Branch 0.0 to 3.0	Green River	RIVER	2000115	HENDERSON	5-PS		3	60	11/12/2002	WAH EC BOR ACE	
Control Roy	Sulphur Creek 0.0 to 10.7	Green River	RIVER	5110001	ADAID	2-FS	+	3	3	10/1/2007	WAH, FC. PCR. SCR.	
1.2.   Other River   Nices   Strictory   ALLEN   2-75   0   0   0   0   0   0   0   0   0	Sulphur Creek 10,7 to 15,4	Green River	RIVER	5110001	ADAIR	250	+	8	က	12/19/2007	WAH, FC, PCR, SCR	
Colored Brown   Colored Brow	Sulphur East Oracle 8 2 to 70	Green River	RIVER	5110002	ALEN	2.58	+	70	60	12/19/2007	WAH, FC, PCR, SCR, DWS	_
Control	Sunday Count & Blo 40.9	Green River	RIVER	5110002	ALLEN	2-FS	+	200	0	3/1/2003	WAH, FC, PCR, SCR	
Comment	Sweanstakes Brooch 4 0 to 4 0	Green River	RIVER	5110001	GRAYSON	S-PS	0 60	200	7 0	3/1/2003	WAH, FC, PCR, SCR	
Section   Committee   Commit	Sycamore Create Onto 1 &	Green River	RIVER	5110005	DAVIESS	5-PS	3	2 6	2 0	3/1/2003	WAH, FC, PCR, SCR	
1.	Taylor Fork 0.0 to 4.0	Green River	RIVER	5110001	EDMONSON	SN-S		3	2 6	3/4/2002	WAH, FC, PCR, SCR	
CHART, 19, 12, 23         CHART, 19, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	Thompson Branch 0.0 to 1.5	Green Dine	KIVER	5110001	GRAYSON	S-NS	3	3	0	3/1/2003	WAH, PC, PCR, SCR	
Const. 13 to 12 to 13 to	Three Lick Fork 0.0 to 3.3	Green Diver	KIVEK	5110002	SIMPSON	2-FS	3	8	6	9/13/2007	WALL FOR SOR	
Ower 2 to 10	Town Branch 0.0 to 6.2	Green River	NIVER	5110004	OHO	S-NS	3	8	67	3/1/2003	WAH EC BOD SON	
CHANK 0.0 to 2.4.0         Green Plying         PRIGES         5 (10000         MARKEN         2.5         3         3         2.5         3.7         2.7         3.7         2.7         3.7         2.7         3.7         2.7         3.7         2.7         3.7         <	Trace Fork of Little Pitman Creek 1.3 to 2.3	Green River	RIVER	5110003	LOGAN	0	3	SN-9	6	12/19/2007	WAH FC PCR SCR	
Come ALO to 20.06         Creen River         FRIGES         51 (1000)         ALYMENT         2.45         3         3         3 (11000)         3 (11000)           2.8         Green River         FRIGER         51 (1000)         FRICKINGO         2.45         3         3         3         31 (110000)           2.8         Green River         FRIGER         51 (1000)         FAMILION         2.45         3         3         3         31 (110000)           2.8         Green River         FRIGER         51 (1000)         FAMILION         2.45         3         3         3         31 (110000)           10.1         Green River         FRIGER         51 (1000)         FAMILION         2.45         3         3         3         31 (1100000)           2.1         Green River         FRIGER         51 (1000)         FAMILION         5.48         3         3         3 (11000000)           2.1         Green River         FRIGER         51 (10000)         FAMILION         5.48         3         3         3 (11000000)           2.2         Green River         FRIGER         51 (10000)         FAMILION         5.48         3         3         3 (110000000)           2.2 <td< td=""><td>Trammel Creek of Drakes Creek 0.0 to 24.0</td><td>Green River</td><td>RIVER</td><td>5440000</td><td>MAGDEN</td><td>5</td><td></td><td>6</td><td>2-FS</td><td>12/19/2007</td><td>WAH FC PCR SCR</td><td></td></td<>	Trammel Creek of Drakes Creek 0.0 to 24.0	Green River	RIVER	5440000	MAGDEN	5		6	2-FS	12/19/2007	WAH FC PCR SCR	
Septem River         RVER         \$110000         BRECKNIRTOR         2.75         3         3         3         3110200           10 6.3         Green River         RVER         \$110000         TWVIERS         \$15000         APR         \$10000         APR         \$100	Trammel Creek of Drakes Creek 24.0 to 30.6	Green River	RIVER	5110002	VAKKEN	Z-FS	2-FS 3	9	က	1/18/2008	WAH, FC, PCR, SCR	
2.8         Chenk River         RIVER         51 (1000)         MAILES         5 (1000)         ALAS         5 (1000)         A	Tules Creek 5.2 to 13.5	Green River	RIVER	5110004	RECKINDINGE	27.7	200	69	က	11/12/2002	WAH, FC, PCR, SCR	
19.23         Grain River         RIVER         51 (1000)         TAVLOR         2 FB         3 B <td>Two Mile Creek 0.0 to 4.7</td> <td>Green River</td> <td>RIVER</td> <td>5110005</td> <td>DAVIESS</td> <td>2-1-2</td> <td>m c</td> <td>60</td> <td>0</td> <td>3/1/2003</td> <td>WAH, FC, PCR, SCR</td> <td></td>	Two Mile Creek 0.0 to 4.7	Green River	RIVER	5110005	DAVIESS	2-1-2	m c	60	0	3/1/2003	WAH, FC, PCR, SCR	
1979   1979	Upper Brush Creek 0.0 to 2.8	Graen River	RIVER	5110001	TAYLOR	2-1-3	3 50	60 0	m	12/17/2002	WAH, FC, PCR, SCR	_
10   10   10   10   10   10   10   10	UT OF WANTE CIEK CREEK 0.0 to 3.3	Green River	RIVER	5110001	ADAIR	2.58	2 0 0	200	60	3/1/2003	WAH, FC, PCR, SCR	
Color   Color   River   River   Strick   Stric	IT to Build by a Creek 0 0 to 1 3	Green River	RIVER	5110001	EDMONSON	2-FS	0 60	200	20 0	12/20/2007	WAH, FC, PCR, SCR	
0.16 of 16         CHARLE         FFTOOT         ADANT         6.PS         3         4         4         1         4<	III to Butter Brooch 00 to 17	Green River	RIVER	5110001	CASEY	2-FS	3	9 6	2 6	10/29/2007	WAH, FC, PCR, SCR	
0.14         CHANGER (Name)         FANER         5110000         MANIENBRIGG         6-PS         3         3         3         3         310000           0.14         Green Rhwer         RAVER         5110000         MANIENBRIGG         6-PS         3         3         3         3         3         3         3         3         1110000           2.2         Green Rhwer         RAVER         5110000         HAPRINS         5-PS         3         3         3         3         1110000           1.0         Green Rhwer         RAVER         5110000         HAPRINS         5-PS         3         3         3         111142000           1.0         Green Rhwer         RAVER         5110000         HAPRINS         5-PS         3         3         3         111142000           2.0         Green Rhwer         RAVER         5110000         HAPRINS         5-PS         3         3         3         11142000           3.1         Green Rhwer         RAVER         5110000         HAPRINS         5-PS         3         3         3         11142000           4.0         Green Rhwer         RAVER         5110000         HAPRINS         2-FS         3 <td>UT to Cool Springs Create 0.0 to 1.8</td> <td>Green River</td> <td>RIVER</td> <td>5110001</td> <td>ADAIR</td> <td>5-PS</td> <td></td> <td>0</td> <td>9 60</td> <td>3/1/2004</td> <td>WAH, FC, PCR, SCR</td> <td></td>	UT to Cool Springs Create 0.0 to 1.8	Green River	RIVER	5110001	ADAIR	5-PS		0	9 60	3/1/2004	WAH, FC, PCR, SCR	
Second River   Strict   Committee   Strict   S	UT to Cyones Creek Of to 14	Green River	RIVER	5110001	ADAIR	S-NS		3	2 67	3/1/2003	WAH, FC, FCR, SCR	
0.0         Green River         RNERA         5110000         MUHERIBERGA         5-PS         3         3         3         11/14/2007           2.2         Green River         RNER         5110000         HOPKINS         5-PS         3         3         3         3         1/16/2007           3.1         Green River         RNER         5110000         HOPKINS         5-PS         3         3         3         3         1/16/2007           3.1         Green River         RNER         5110000         HOPKINS         5-PS         3         3         3         1/16/2007           3.1         Green River         RNER         5110000         HOPKINS         5-PS         3         3         3         1/16/2007           3.0         Green River         RNER         5110001         CASEY         5-PS         3         3         3         1/16/2007           3.0         Green River         RNER         5110001         CASEY         5-PS         3         3         3         3/17/2009           3.0         Green River         RNER         5110001         LANES         5-PS         3         3         3         3/17/2009           3.0	UT to Cypress Creek 0.0 to 9.1	Green River	KIVER	5110006	MUHLENBERG	S-PS	3	3	60	12/17/2002	WAH FC PCR SCR	
2.2         Genen River         RIVER         5110000         HOPKINS         548         3         3         3         1114/2007           1.1         Green River         RIVER         5110000         HOPKINS         548         3         3         3         1114/2007           3.1         Green River         RIVER         5110000         HOPKINS         548         3         3         3         1114/2007           3.1         Green River         RIVER         5110000         HOPKINS         548         3         3         3         1116/2000           1.0         Green River         RIVER         5110000         LOGAN         2+FS         3         3         3         1116/2000           1.0         Green River         RIVER         5110001         GANESY         54-RS         3         3         3         1116/2000           1.0         Green River         RIVER         5110001         GANESY         54-RS         3         3         3         1116/2000           1.0         Green River         RIVER         5110001         GANKES         5-RS         3         3         3         311/2000           1.0         Green River         <	UT to Dorsey Run 0.0 to 1.0	Green River	PIVER	2110006	MUHLENBERG	SPS	e e	ന	60	10/31/2007	CAH. FC. PCR. SCR.	
Green River         RIVER         \$110000         HOPKINS         5+PS         3         3         3         44/19590           3.1         Green River         RIVER         \$110000         HOPKINS         5+PS         3         3         3         44/19590           3.1         Green River         RIVER         \$110000         HOPKINS         5+PS         3         3         3         44/19590           3.2         Green River         RIVER         \$110000         HOPKINS         5+PS         3         3         3         44/19590           1.8         Green River         RIVER         \$110001         AOMESS         59-NS         3         3         3         11/16/2007           1.8         Green River         RIVER         \$110001         AOMESS         59-NS         3         3         11/16/2007           1.0         Green River         RIVER         \$110001         AOMESS         59-NS         3         3         11/16/2007           1.0         Green River         RIVER         \$110001         HARDIN         2-FS         3         3         3         11/16/2007           1.0         Green River         RIVER         \$1100001	UT to Drakes Creek 0.0 to 2.2	Green River	RIVER	54 1000R	HARDIN	SN-RS	9	6	က	11/14/2007	CAH, FC, PCR, SCR	
Green River         RIVER         \$110000         HÖPRINS         \$-5	UT to Elk Creek 0.0 to 1.0	Graen River	RIVER	5110008	HODKING	200	m (	m	9	11/5/2007	WAH, FC, PCR, SCR	
Common National Common Natio	UT to EIK Creek 0.0 to 2.6	Green River	RIVER	5110008	HOPKINS	200	O-NG	9	6	4/1/1998	WAH, FC, PCR, SCR	
3.1         Green River         RIVER         \$110000         HOPKINS         3         5-NS         3         3         4/17000           9.9         Green River         RIVER         \$510000         GASEY         2.FS         3         3         3         4/17000           1.8         Green River         RIVER         \$510001         GASEY         2.FS         3         3         3         1/18/2007           1.8         Green River         RIVER         \$510001         GASEY         2.FS         3         3         3         1/18/2007           1.0         Green River         RIVER         \$510001         GASEY         2.FS         3         3         3         1/18/2007           1.0         Green River         RIVER         \$510001         TAVLOR         2.FS         3         3         3         1/18/2007           1.0         Green River         RIVER         \$510001         EDMONSON         3         3         3         3         1/12000           1.9         Green River         RIVER         \$510001         EDMONSON         3         3         3         3         1/12000           1.0         Green River         RIVER	UT to Flet Creek 0.0 to 3.1	Green River	RIVER	5110008	HOPKINS	S-NS	2 6	200	77	11/5/2006	WAH, FC, PCR, SCR	
2.9         Green River         RVER         \$110002         LOCAN         2.FS         3         3         3         1.182007           2.9         Green River         RVER         \$5110001         CASEY         2.FS         3         3         3         1.182007           2.9         Green River         RVER         \$5110001         CASEY         2.FS         3         3         3         1.182007           1.6         Green River         RVER         \$5110001         CASEY         2.FS         3         3         3         1.182007           1.0         Green River         RVER         \$5110001         LANEDIN         2.FS         3         3         3         1.182007           1.0         Green River         RVER         \$5110001         LANDIN         2.FS         3         3         3         1.12000           1.0         Green River         RIVER         \$5110001         LANDIN         2.FS         3         3         1.12000           1.0         Green River         RIVER         \$5110001         LANDIN         2.FS         3         3         3.112000           1.1         Green River         RIVER         \$51100001         <	TT to Camer Blue O O to 3 4	Green River	RIVER	5110006	HOPKINS	9		2 67	2 6	3/1/2003	WAH, FC, PCR, SCR	
2         Green River         RIVER         5110001         CASEY         68-NS         3         3         3         1202007           1.8         Green River         RIVER         5110001         CASEY         2-FS         3         3         3         1/10/2007           1.8         Green River         RIVER         5110001         CASEY         2-FS         3         3         3         1/10/2007           1.0         Green River         RIVER         5110004         LANDIN         2-FS         3         3         3         1/10/2007           1.0         Green River         RIVER         5110004         LANDINS         2-FS         3         3         3         1/10/2003           1.0         Green River         RIVER         5110004         LANDINS         3         3         3         1/10/2003           1.1         Green River         RIVER         5110004         LANDINS         5         3         3         1/10/2003           1.1         Green River         RIVER         5110003         MULLER         5-NS         3         3         1/11/2003           1.1         Green River         RIVER         5110003         MULLER	UT to Green River 0.0 to 0.	Green River	RIVER	5110002	LOGAN	2-FS		000	0 62	11/8/2007	WAH, FC, PCK, SCK	
1.8         Green River         RIVER         5110001         CASEY         2+FS         3         3         3         11/6/2007           1.8         Green River         RIVER         5110004         DAVIESS         58-NS         3         3         3         3         1/1/2003           1.0.0 to 0.6         Green River         RIVER         5110004         LANDIN         2+FS         3         3         3         3/1/2003           1.0.0 to 0.6         Green River         RIVER         5110001         LANDINSON         3         3         3         3/1/2003           1.0         Green River         RIVER         5110001         LANDINSON         3         3         3         3/1/2003           1.0         Green River         RIVER         5110001         LANDINSON         3         3         3         3/1/2003           1.0         Green River         RIVER         5110002         BUTLER         5-NS         3         3         3/1/2003           1.1         Green River         RIVER         5110002         BUTLER         5-NS         3         3         3/1/2003           1.1         Green River         RIVER         5110002         BUTLER	UT to Green River 0.0 to 3.2	Green Diver	KIVEK	5110001	CASEY	SN-89	3	3	6	12/8/2007	WAH EC DOD ACD	
(a)         Green River         RVIER         5110004         LANDIN         2-FS         3         3         3         317203           (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	UT to Hatter Creek 1.2 to 1.8	Green River	RIVED	5440004	ADAIR	2-FS	3	က	3	11/6/2007	WAH FC PCR SCR	
Composition   Creen River   River   Fitocot   HARDIN   Capta   Capta	UT to Jose Branch 0.0 to 2.8	Green River	RIVER	5110005	DAMESS	2+2	0	8	3	3/1/2003	WAH, FC, PCR, SCR	
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	UT to Mays Run 0.0 to 0.4	Green River	RIVER	5110004	HARDIN	SD-NS	+	3	6	11/8/2007	WAH, FC, PCR, SCR	
9         Green River         RIVER         5110001         EDMONSON         3         5B-NS         5 B-NS         5 B-NS         3         3         3         3 SIA12008           16         Green River         RIVER         5110001         HARDIN         5B-NS         3         3         3         3         12772007           1.4         Green River         RIVER         5110003         MUHIENIERS         5-NS         3         3         3         3         12772007           1.7         Green River         RIVER         5110002         BUTLER         5-NS         3         3         3         12772007           1.7         Green River         RIVER         5110002         BUTLER         5-NS         3         3         3         12772007           1.7         Green River         RIVER         5110002         WARREN         5B-NS         3         3         3         17192007           1.0         Green River         RIVER         5110002         WARREN         5B-NS         3         3         3         17192007           1.0         Green River         RIVER         5110003         UHIO         5-NS         3         3         3	UT to Middle Pitmen Creek 0.0 to 0.6	Green River	RIVER	5110001	TAYLOR	2-53	+	6	0	3/1/2003	WAH, FC, PCR, SCR	
Common National Nat	UT to Notice Black of Ethological	Green River	RIVER	5110001	EDMONSON				2 6	371/2003	WAH, FC, PCR, SCR	
Compact   Comp	LIT to North Ends of Parither Creek 0.0 to 0.7	Green River	RIVER	5110001	HARDIN				9 67	12/7/2007	WAH, FC, PCK, SCR	
0-1.7         Green River         RIVER         51 10002         BRECKING         2-FS         3         3         3         3/1/2003           1-1.7         Green River         RIVER         5110002         BUTLER         5-NS         3         3         3         3         1/1/2002           1.7         Green River         RIVER         5110001         GREEN         4-NS         3         3         3         1/1/2002           1.7         Green River         RIVER         5110001         TATLOR         5-RS         3         3         3         1/1/2002           1.9         Green River         RIVER         5110002         WARREN         5-RS         3         3         3         1/1/2002           2.9         Green River         RIVER         5110002         WARREN         5-RS         3         3         3         1/1/2002           3.9         Green River         RIVER         5110002         OHIO         5-RS         3         3         3         1/1/2003           3.9         Green River         RIVER         5110002         LOGAN         5-NS         3         3         3         3/1/2003           3.9         Green River<	UT to Pond Creek 0.0 to 2.4	Green River	KIVER	1	DAVIESS	58-NS	3	9	6	12/7/2007	WAH FC POR SCB	
0 1,7         Green River         RIVER         5110004         BUTLER         5-NS         3         3         3         11/12/2002           11/7         Green River         RIVER         5110001         GREEN         4A-NS         3         3         3         12/13/2007           1.7         Green River         RIVER         5110001         TAYLOR         2-FS         3         3         3         12/13/2007           1.9         Green River         RIVER         5110002         WARREN         5-RS         3         3         3         12/13/2007           1.0         Green River         RIVER         5110002         ALLEN         5-RS         3         3         3         12/13/2007           1.0         Green River         RIVER         5110002         ALLEN         5-RS         3         3         3         12/13/2007           1.0         Green River         RIVER         5110002         LOGAN         5-NS         3         3         3         3/1/2003           1.0         Green River         RIVER         5110007         HARDIN         5-NS         3         3         3         3/1/2003           1.0         Green River	UT to Pond Run 0.0 to 0.8	Graen River	PINED	+	MUHLENBERG	S-NS	-	က	3	3/1/2003	WAH. FC. PCR. SCR	
Creek 0.0 to 0.6   Green River   RIVER   5110001   GREEN   4A-NS   3   3   3   3   12/13/2007	UT to Richland Creek 0.0 to 1.7	Green River	RIVER	+	RITTER	Z-LS	m c	0	3	11/12/2002	WAH, FC, PCR, SCR	
1,7         Green River         RIVER         5110001         TAYLOR         2-FS         3         3         3         3         1/12002           16 0.25         Green River         RIVER         5110002         WARREN         58-NS         3         3         3         3         12/12007           3.9         Green River         RIVER         5110002         ALLEN         5-RS         3         3         3         12/12007           1 Cem River         RIVER         5110003         OHIO         5-NS         3         3         3         12/12000           1 Cem River         RIVER         5110003         OHIO         5-NS         3         3         3         1/2/12000           1 Green River         RIVER         5110002         LOGAN         5-NS         3         3         3         1/2/12000           Green River         RIVER         5110001         HARDIN         5-NS         3         3         3         1/12000           Green River         RIVER         5110001         HARDIN         5-NS         3         3         3         3/1/12003           Resen River         RIVER         5110001         HARDIN         5-NS         <	UT to South Fork of Russell Creek 0.0 to 0.6	Green River	RIVER	5110001	GREEN	AA-NS	1	m (c	67	12/13/2007	WAH, FC, PCR, SCR	
LOLZO         Green River         RIVER         51 (0002)         WARREN         58-NS         58-NS         3         3         1/21/3/2007           3.9         Green River         RIVER         51 (10002)         ALLEN         5-PS         3         3         3         1/21/9/2007           Cheek 0.0 to 2.2         Green River         RIVER         51 (10002)         ALLEN         5-PS         3         3         3         1/21/9/2007           1 Camp Creek 0.0 to 0.8         Green River         RIVER         51 (10002)         OHIO         5-NS         3         3         3         1/21/2000           1 Si 0 1.9         Green River         RIVER         51 (10002)         HARDIN         5-NS         3         3         3         1/12003           Green River         RIVER         51 (10001)         HARDIN         3         5-NS         3         3         3/1/2003           Green River         RIVER         51 (10001)         HARDIN         5-NS         3         3         3/1/2003	UT to Tallow Creek 0.0 to 1.7	Green River	RIVER	5110001	TAYLOR	2-FS		2 67	20 00	1731/2002	WAH, FC, PCR, SCR	
Clean River         RIVER         5110003         BUTLER         58-NS         58-NS         3         3         12/19/2007           Clean River         RIVER         5110003         OHIO         5-NS         3         3         3         12/19/2007           Clean River         RIVER         5110003         OHIO         5-NS         3         3         3         3         12/19/2007           Green River         RIVER         5110003         OHIO         5-NS         3         3         3         3         1/1/2003           Green River         RIVER         5110002         LOCAN         5-NS         3         3         3         3/1/2003           Green River         RIVER         5110001         HARDIN         5-NS         3         3         3/1/2003           Green River         RIVER         5110001         HARDIN         5-NS         3         3         3/1/2003	III to Walch Chart Of to 0	Green River	RIVER	5110002	WARREN	П		300	3 67	12/13/2007	WANT, P.C. P.CK, S.C.K	
Clean River         RIVER Green River         5110002         ALLEN S-PS         3-RS         3-S         3-S         3-S         12/19/2007           1 Camp Creek 0.0 to 0.8         Green River         RIVER RIVER         5110002         UOGAN         5-NS         3-S         3-S         3-S         3-S/1/2003           1.9 to 1.9         Green River         RIVER RIVER         5110002         LOGAN         5-NS         3-S         3-S         3-S/1/2003           Green River         RIVER RIVER         5110001         HARDIN         5-NS         5-NS         3-S         3-S         3-S/1/2003           Green River         RIVER RIVER         5110001         HARDIN         3-NS         3-S         3-S         3-S/1/2003           Green River         RIVER RIVER         5110001         HARDIN         5-NS         3-S         3-S         3-S/1/2003	UT to West Bavs Fork	Creen Kiver	RIVER	5110003	BUTLER	П		9	m	12/19/2007	CAH FC. PCR. SCR. DWS	
Compose   Comp	UT to West Fork of Lewis Creek 0.0 to 2.2	Green River	RIVER	20002	ALLEN	S-PS		6	3	12/19/2007	WAH, FC. PCR. SCR. DWS	
Sept.   Green River   RIVER   5110002   LOGAN   5-NS   3   3   3   3   3   3   3   3   3	UT to West Prong of Indian Camp Creek 0.0 to 0.8	Green River	RIVER	5110003	CHO	SN-G SN AS		60	3	3/1/2003	WAH, FC, PCR, SCR	
Green River         RIVER         51 0001         HARDIN         5-PS         5-NS         3         3         3 1/2003           Green River         RIVER         51 0001         HARDIN         3         5-NS         3         3         3 3/12003           HARDIN         5-NS         3         3         3         3/12003           Altzooa         HARDIN         5-NS         3         3         3/12003	UT to Wiggington Creek 0.9 to 1.9	Green River	RIVER	5110002	LOGAN	S-NS		200	m -	12/20/2007	CAH, FC, PCR, SCR, DWS	
Green River RIVER 5110001 HARDIN 3 5-NS 3 3 3/1/2003 3/1/2003	Valley Creek U.O to 3.6	Green River	RIVER	5110001	HARDIN			9	2 60	4/23/2008	WALL FC PCR, SCR, DWS	_
Green NVER 5110001 HARDIN 5-NS 3 3 3/1/2003	Valley Creek 84 to 10 8	Green River	RIVER	5110001	HARDIN		5-NS 3	3	9	3/1/2003	WAH EC POR SCE	
		Green Kiver	KIVER	5110001	HARDIN	5-NS	3	3	9	3/1/2003	WAH. FC. PCR. SCR. DWS	

Waterbody and Segment										
-Walters Creek 0.0 to 2.5	user.	Water Body Type	8-Digit HUC	County	WAHICAH	000	eco Fire o	ŀ		
Welch Creek 0.0 to 18.4	See	RIVER	5110001	LARUE	2-FS	100	CIBIL CO.	SW DWS	Assess Date	Designated Uses
West Fork of Drakes Creek 0.0 to 23.3	Green River	RIVER	5110003	BUTLER	2.FS	0 0	-	69	3/1/2003	WAH, FC. PCR. SCR.
West Fork of Drakes Creek 28.7 to 32 1	Green River	RIVER	5110002	SIMPSON	2-FS	2.50	200	60	3/1/2003	WAH, FC. PCR. SCR.
West Fork of Drakes Creek Reservoir	Green Kiver	RNER	5110002	SIMPSON	2.58	640	Show	6	1/4/2008 - 1/18/2008	WAH, FC. PCR. SCR
West Fork of Pond River 1.8 to 8.7	Steen Kiver	RESERVOIR	5110002	SIMPSON		0 0	6	0	12/19/2007	WAH, FC. PCR. SCR
West Fork of Pond River 20,3 to 26.0	See King	RWER	5110008	CHRISTIAN	5-PS	or.	0	Z-FS	1/29/2008	WAH, FC, PCR, SCR
West Fork of Pond River 8.7 to 20.3	Company of the Compan	KIVER	5110006	CHRISTIAN	S-NS	+		200	1/10/2008	WAH, FC, PCR, SCR
Wolf Branch Ditch 0.0 to 4.1	Green Bluer	KIVER	5110006	CHRISTIAN	2-FS	2-FS	0 60	200	12/20/2007	WAH, FC, PCR, SCR
Wolf Lick Creek 0.0 to 14.6	Green River	CONTRO	5000110	DAVIESS	S-PS	n	3	0 6	42475000	WAH, FC, PCR, SCR
Amolds Creek 0.0 to 10.8	Kantucky River	DAMED	5110003	LOGAN	5-PS	2-FS	3	0 6	41487000	WAH, FC, PCR, SCR
Back Creek 0.0 to 4.7	Kentucky River	DAVER	5100205	GRANT	5-PS	9	9	2 6	1/10/2000	WAH, FC, PCR, SCR
Bailey Run 0.0 to 2.9	Kentrolog Direc	RIVER	5100205	GARRARD	2-FS	9		9 0	SAN ISTIL	WAH, FC, PCR, SCR
Bells Branch 0.0 to 4.9	Kartistis Diss	KIVER	5100205	ANDERSON	5-PS	m	3	2 6	886L//LM	WAH, FC, PCR, SCR
Bells Fork 8.3 to 11.3	Nemuczy Kiver	RIVER	5100205	BOYLE	m	5-NS		2 0	10/1/2004	WAH, FC, PCR, SCR, DWS
Bauchman Creak 0.0 to 4.8	Nemucky Kiver	RIVER	5100201	KNOTT	S-NS	6	200	2	1/31/2008	WAH, FC, PCR, SCR
Residence End Of to 27	Kentucky River	RIVER	5100205	LINCOLN	6	SNC	0 0	2	9/17/1999	WAH, FC, PCR, SCR
Response Ent 24 to 60	Kentucky River	RIVER	5100205	FAYETTE	4A.PS	200	200	9	2/1/2006	WAH, FC, PCR, SCR
Banks Day of the Co.	Kentucky River	RIVER	5100205	FAYETTE	2.50	0 6	24.2	2	12/15/1989	WAH, FC, PCR, SCR
Description of the Control	Kentucky River	RIVER	5100205	WOODFORD	S No	3 0	2-1-2	0	12/29/1999	WAH, FC, PCR, SCR
Deed I rok U.U to 8.U	Kentucky River	RIVER	5100202	ESI IE	200	2	0	69	3/3/2005	WAH, FC, PCR, SCR
Deech Fork Keservoir	Kentucky River	RESERVOIR	5100204	POWEL	24.0	2 0	2-FS	m	12/29/1989	WAH, FC, PCR, SCR
Benean Creek 0.0 to 4.6	Kentucky River	RIVER	5100205	FRANKIN	2004	2	200	2-FS	3/18/2005	WAH, FC, PCR, SCR
Benson Creek 22.1 to 25.7	Kentucky River	RIVER	5100205	ANDERSON	000	2 0	200	6	7/23/1989	WAH, FC, PCR, SCR
Benson Creek 4.6 to 6.7	Kentucky River	RIVER	5100205	FRANKI IN	6 70	200	200	0	9/17/1989	WAH, FC, PCR, SCR
Benson Creek 6.7 to 13.4	Kentucky River	RIVER	5100205	CDANK! IN	240	20	69	3	7/23/1989	WAH, FC, PCR, SCR
Berea Water Supply Reservoir	Kentucky River	12	5100204	MADIODIN	2-10	77	9	3	7/23/1989	WAH, FC. PCR. SCR.
Bert Combe Lake	Kentucky River	RESERVOIR	5100203	WADISON AND IN	200	0	0	2-FS	3/7/2005	WAH FC PCR SCR
Big Calaboose Creek 0.0 to 2.2	Kentucky River		5400004	150	2+2	2	9	2-FS	3/21/2004	CAH FC PCR SCR
Big Caney Creek 0.3 to 8.0	Kentucky River	RIVER	5400004	MOLTE	2+2	6	9	9	3/6/2001	WAH FC PCR SCR
Big Creek 0.0 to 3.1	Kentucky River	RIVER	5100201	DEFORM	Sd-c	0	9	က	10/25/1989	WAH FC PCR SCR
Big Creek 0.0 to 4.3	Kentucky River	RIVER	5100003	CI AV	2	60	9	3		WAH, FC. PCR. SCR.
Big Dan Branch 0.0 to 1.2	Kentucky River	RIVER	£400000	3	2-12	3	9	3	12/19/1999	WAH, FC. PCR. SCR
Big Double Creek 0.0 to 4.4	Kentucky River	RIVER	5100203	24.5	2+8	63	0	က	12/29/1999	WAH, FC, PCR, SCR
Big Laurel Creek 3.6 to 6.4	Kentucky River	RIVER	5100000	TADIAN.	2+2	60	9	၈	1/1/2004	CAH, FC. PCR. SCR
Big Middle Fork Elisha Creek 0.0 to 1.5	Kentucky River	RIVER	5100002	NATAN	2+2	0	3	9	10/4/2004	WAH, FC, PCR, SCR
Big Sinking Creek 0.0 to 14.1	Kentucky River	RIVER	5400004	EOTU -	2+2	9	0	9	1/1/2005	WAH, FC. PCR. SCR. DWS
Big Twin Creek 0.0 to 3.8	Kentucky River	RIVER	5100205	CHACK	242	2	60	60	12/29/1999	CAH, FC. PCR. SCR
Big Willard Creek 0.0 to 4.5	Kentucky River	RIVER	5100201	DEBOY	2010	7	69	63	7/23/1999	CAH, FC, PCR, SCR
Bill Branch 0.0 to 0.3	Kentucky River	RIVER	5100202	ESIE	2 5	200	9	6	9/15/1999	WAH, FC, PCR, SCR
Billey Fork 2.6 to 8.8	Kentucky River	RIVER	5100204	IEE	2 50	2 0	200	60	1/1/2005	WAH, FC, PCR, SCR
Black Creek 0.0 to 4.0	Kentucky River	RIVER	5100204	POWELL	25.5	2 6	700	m	10/4/2004	WAH, FC, PCR, SCR
Brue Lick 0.0 to 4.1	Kentucky River	RIVER	5100205	NIN		E No	200	200	3/6/2001	WAH, FC, PCR, SCR
Bolen Branch 0.0 to 2.1	Kentucky River	RIVER	5100201	KNOTT	2.50	200	200	20	2/1/2006	WAH, FC, PCR, SCR
Boftz Lake	Kentucky River	RESERVOIR	5100205	GRANT	202	0 0	200	.,	9/20/1999	WAH, FC, PCR, SCR
Boone Creek 0.0 to 7.4	Kentucky River	RIVER	5100205	FAYETTE	2-FS	9 6	2 6	2 6	3/22/2004	WAH, FC, PCR, SCR
Boone Creek 7.4 to 12.6	Kentucky River	RIVER	5100205	FAYETTE	S-PS	S.N.S	2 6	2 0	3/4/2005	WAH, FC, PCR, SCR
Boone Fork 1.5 to 3.3	Kentucky River	RIVER	5100201	BREATHITT	2-FS		2 6	2 0	8881/21/71	WAH, FC, PCR, SCR
Drugh Creek 0.0 10 5.0	Kentucky River	RIVER	5100204	POWELL	S-PS	6	3	2 6	SARING AC	WAH, FC, PCR, SCR
Bruth Creek U.V. 10 S. /	Kentucky River	RNER	5100205	OWEN	2-FS	60	3	2 6	7/4/4000	WAH, FC, PCR, SCR
Buck Creek V.O 10 2.3	Kentucky River	RIVER	5100204	ESTILL	2-FS	9	3	2	00000000	WAH, FC, PCK, SCR
Buck Creek 0.0 to 4.0	Kentucky River	RIVER	5100203	OWSLEY	2-FS	co	9	2 6	777914000	WAH, FC, PCR, SCR
Buck Run 0.0 to 5./	Kentucky River	RIVER	5100205	OWEN	2-FS	6		9 6	4/4/2005	WAH, FC, PCR, SCR
Buckness Creek 2.4 to 6.8	Kentucky River	RIVER	5100201	BREATHITT	S-PS	6	900	9 67	3/4/2005	WAN, PC, PCK, SCK
Buckhow Lake	Kentucky River	RIVER	5100201	BREATHITT	S-NS	S-NS	60	67	2/3/2008	WAH EC DOD GOD
Buffalo Crack 0.0 to 1.8	Nermicky River	RESERVOIR	5100202	PERRY	2-FS	3 5	PS	2-FS	8/15/2005	WAH EC POR SOR
Bull Creek 0.0 to 2.0	Kartheto River	RIVER	5100203	OWSLEY	2-FS	60	3	က	3/4/2006	WAH, FC. PCR. SCR.
Buil Creek 0.0 to 4.1	Kentucky River	RIVER	5400000	LEGI IE	200	200	en en	60	7722/1988	WAH, FC, PCR, SCR
Bullock Pen Creek 0.0 to 1.5	Kentucky River	RIVER	5100205	BOONE	2.55	200		60	12/13/1999	WAH, FC, PCR, SCR
Bullock Pen Lake	Kentucky River	RESERVOIR	5100205	GRANT	S-PS	2 67	2 6	200	7/72/1999	WAH, FC, PCR, SCR
Bullakin Creek 0.0 to 13.9	Kentucky River	RIVER	5100203	CLAY	2-FS	, 67	2 60	2-12	3/22/2004	WAH, FC, PCR, SCR
								2	IWI/Jass	WAH, FC, PCR, SCR

Waterbody and Segment	Besin	Weter Rock: Time	011111111111111111111111111111111111111								
Campton City Lake	Kentucky River	RESERVOIR	5100204	County	WAHCAH	PCR SCR	R Fish Consumption	DWS	Assess Date	Designated Hear	
Cane Creek 0.0 to 3.1	Kentucky River	RIVER	5100204	POWELL	2-13	3 2-	8	-	3/18/2005	WAH, FC, PCR, SCR	-
Care Creek C.O.10 8.5	Kentucky River	RIVER	5100201	BREATHITT		1		m	12/15/1999	WAH, FC, PCR, SCR	T
Care Run U. 10 3.0	Kentucky River	RIVER	5100205	SCOTT	1	200		m	9/15/1999	WAH, FC, PCR, SCR	1
Care Din Of to 47.4	Kentucky River	RIVER	5100205	SCOTT	1		200	0	9/20/1999	WAH, FC, PCR, SCR	f
Canal Crack Of to 1 &	Kentucky River	RIVER	5100205	FAYETTE	S-NS	S-NS		200	1/1/1889	WAH, FC, PCR, SCR	
Cance Creek 0 to 0.5	Kentucky River	RIVER	5100205	OWEN	S-PS	1		3 0	6861111	WAH, FC, PCR, SCR	7
Cart Creek Reservoir	Kentucky River	RIVER	5100202	BREATHITT	2-FS	-	200	2 6	9000000	WAH, FC, PCR, SCR	_
Carr Fork 0.0 to 5.9	Networky River	KESERVOIR	5100201	KNOTT	S-PS		S		8/18/2005	WAH, FC, PCR, SCR	-
Carr Fork 15.6 to 28.4	Kentucky River	KIVER	5100201	PERRY	m	4A-PS 4A-PS		en	8/30/2005	WALL ED BOB SOR	-
Carr Fork 5.9 to 8.9	Kerdinchi Bires	KIVEK	5100201	KNOTT	2-FS			3	8/19/2005	WALL EC DOD OCO	1
Cat Creek 0.0 to 8.0	Kantucky Direc	KIVEK	5100201	PERRY		4A-NS 2-FS		6	8/18/2006	CAH EC OCO COO	_
Cavanaugh Craek 0.0 to 8.8	Kantucky River	DAVED	\$00000	POWELL	S-PS	3		6	3/4/2005	WAH FC PCR SCR	F
Cedar Creek 0.0 to 4.2	Kartucky River	DAVED	5100204	JACKSON	2-FS	6		6	9/20/1989	WAH. FC. PCR. SCR.	-
Cedar Creek 0.0 to 9.4	Kantucky Rivar	RIVED	5100203	LINCOLN	2-FS	-		က	4/1/1989	WAH FC PCR SCR	_
Cedar Creek Lake	Kentucky River	RESERVOIR	5400205	NEW COME	Seps	2-FS 2-FS		က	1/1/2005	WAH FC. PCR. SCR	
Chambers Fork 0.7 to 1.1	Kentucky River	RIVER	5400004	LINCOLN	2-1-2		2	က	6/3/2004 - 1/18/2006	WAH, FC. PCR. SCR	-
Cherry Run 0.0 to 0.9	Kentucky River	RIVER	5100204	WOLLE	200	j		က	10/4/2004	WAH FC PCR. SCR	-
Chester Creek 0.0 to 2.8	Kentucky River	RIVER	5100204	WO! EE	2-13	200		3	3/4/2005	WAH, FC, PCR, SCR	_
Chimney Top Creek 0.0 to 4.4	Kentucky River	RIVER	5100204	WOLFE	2.50	+		6	3/4/2005	WAH FC PCR, SCR	
Clarks Creek 0.0 to 5.2	Kentucky River	RIVER	5100205	GRANT	2 50	-		6	1/6/2000	WAH, FC, PCR, SCR	
Clarks Run 0.7 to 4.0	Kentucky River	RIVER	5100205	BOYLE	5-13 5-DG	S AND	200	60	10/4/2004	WAH, FC, PCR, SCR	
Clarks Run 4.0 to 6.3	Kentucky River	RIVER	5100205	BOYLE	S-NS			m 0	11/15/2007 - 1/31/2008	WAH, FC, PCR, SCR	
Clarks Run 6.3 to 14.3	Kentucky River	RIVER	5100205	BOYLE	S-PS	1		70	1/31/2002 - 11/15/2007	WAH, FC, PCR, SCR	_
CLEYNICK CLOSK U.O TO 5.5	Kentucky River	RIVER	5100205	OWEN	2-FS			2 6	#30/2003 - 1/31/2008	WAH, FC, PCR, SCR	-
Clear Creek U.U to 9.0	Kentucky River	RIVER	5100205	WOODFORD	2-FS	-		2 6	3440003	WAH, FC, PCR, SCR	-
Clim: Creat Of the 20	Kentucky River	RIVER	5100201	BREATHITT	2-FS	9 6	9	9 60	3/4/2005	WAH FC PCK, SCR	-
Coles Fork Of to & &	Kentucky River	RIVER	5100204	WOLFE	2-FS			3	3/8/2001	WAH EC POB SCO	-
Colles Fork 24 th R.3	Kertucky River	RIVER	5100201	BREATHITT	2-FS	3	23	6	5/19/1998	WAH FC PCR SCR	1
Cooe Fork 0.0 to 1.9	Kentucky River	KIVEK	5100203	CLAY	5-PS			en	12/13/1999	WAH. FC. PCR. SCR.	1
Conner Creek 22 to 5.0	Kentucky River	KIVEK	5100201	BREATHITT	5-PS	3		က	9/15/1999	WAH. FC. PCR. SCR.	_
Copper Creek 0.0 to 2.2	Karthulu Dine	KIVEK	5100205	ROCKCASTLE	S-PS	9		3	3772004	WAH, FC. PCR. SCR.	-
Corinth Lake	Kenticky River	DESERVOID	5100205	LINCOLN	6		60	9	2/4/2008	WAH, FC, PCR, SCR	_
Cow Creek 0.0 to 2.7	Karducky River	PANED	5100200	GRANI	2-FS	3		6	8/3/2004	WAH, FC, PCR, SCR	1
Cow Creek 0.0 to 2.7	Kentucky River	RIVER	5100003	CHACLEY	2-1-2	+		6	12/15/1999	WAH, FC, PCR, SCR	1
Craig Creek 0.1 to 4.0	Kentucky River	RIVER	5100205	WOODEDBD	01-7	-		m	7/22/1999	WAH, FC, PCR, SCR	-
Crans Creek 0.0 to 5.4	Kentucky River	RIVER	5100203	CLAV	5 De	3 6		0	8/20/2005	WAH, FC, PCR, SCR	-
Crooked Creek 0.0 to 7.3	Kentucky River	RIVER	5100204	ESTILL	2.FS	+		,	10/4/2004	WAH, FC, PCR, SCR	-
Crystal Creek 0.0 to 2.3	Kentucky River	RIVER	5100201	LEE	5-PS	9 60	200	2 6	272/2000	WAH, FC, PCR, SCR	-
CURRING CROSK B./ TO TO./	Kentucky River	RIVER	5100202	LESLIE	S-PS	-			377003	WAN FC, PCK, SCK	_
Div Diver O O to 3 4	Kentucky River	RIVER	5100201	KNOTT	2-FS	'n		3	9/30/2005	WAH EC POR SCR	-
Dix River 33 3 to 36 1	Kentucky River	KWER	5100205	GARRARD	2-FS	3	9	3	2/21/2005	WAH. FC. PCR. SCR.	_
Dix River 36.1 to 43.8	Kentucky River	DIVED	3100203	GARKARD	Z-FS	Ci.		6	2/23/2005 - 1/31/2008	WAH, FC, PCR, SCR	_
Dix River 64.3 to 73.35	Kentucky River	RIVER	5100205	INCOM N	26	S S S S S S S S S S S S S S S S S S S	-	0	1/31/2008	WAH, FC, PCR, SCR	
Dix River 73.35 to 78.7	Kentucky River	RIVER	5100205	ROCKCASTLE	6	S-NS	-	2 6	1/31/2008	WAH, FC, PCR, SCR	-
Dog Fork 0.0 to 2.3	Kentucky River	RIVER	5100204	WOLFE	2-FS			0 60	1/10/2000	WAH EC POR SCR	_
Denous Creek B.7 to 42.2	Kentucky River	RIVER	5100205	LINCOLN	2-FS	5-NS 3		m	4/1/1999 - 2/4/2008	WAH FC PCR SCR	_
Drowning Creek 0.0 to 9.45	Kardincky River	KIVEK	5100205	HENRY	2-FS			က	3/7/2005	WAH, FC, PCR, SCR	_
Dry Run 0.0 to 3.1	Kentucky River	RIVER	5100205	SCOTT	2-12 7-05	E E		0	1772000	WAH, FC, PCR, SCR	
Duck Fork 0.0 to 4.8	Kentucky River	RIVER	5100204	TEE	2-FS	+		2 6	12/16/1989	WAH, FC, PCR, SCR	_
Eagle Creek 15.3 to 28.5	Kentucky River	RIVER	5100205	OWEN	2-FS	S	2 8	2 62	2022/2005	WAH, FC, PCR, SCR	_
Engle Creek 50.8 to 58.5	Kentucky River	RIVER	5100205	GRANT	S-PS	2-FS 2-FS		67	2021/2005	WAH EC BOD ACD	-
Eagle Creek 31.6 to 36.5	Kentucky River	RIVER	5100205	GRANT	S-NS	1	3	6	2/3/2006	WAH. FC. PCR. SCR	_
Fast Fork Mill Creek 0.0 to 3.1	Kentucky River	RIVER	5100204	MENIFEE	2-FS		8	6	12/1/1899	WAH, FC, PCR, SCR	_
East Fork Otter Creek 0.0 to 2.7	Kantucky Rivar	RIVER	5100205	MADISON	2-1-0	000	9	0	7723/1989	WAH, FC, PCR, SCR, DWS	
East Hickman Creek 12.8 to 14.0	Kentucky River	RIVER	5100205	FAVETTE	0-1-0	0	200	7	12/17/1899	WAH, FC, PCR, SCR	-
			-	71.4	2	O-MO	2	2	1/20/2000	WAH, FC, PCR, SCR	$\neg$

Waterbody and Segment	+									
East Hickman Creek 4.2 to 10.2	Diagram A	Water Body Type	8-Digit HUC	County	WAH/CAH	ŀ	Н			
Edward Branch 0.0 to 1.7	National River	RIVER	5100205	FAYETTE	S-PS	S No	LIST CONSUMDROUN	OWS	Aggess Date	Designated Uses
Elisha Creek 0.8 to 1.8	Kentucky Kive	KIVER	5100204	MENIFEE	2-FS		200	6	1/24/2000	WAH, FC, PCR, SCR
Elk Creek 0.0 to 1,8	Namucky RIVE	RIVER	5100203	LESLIE	2-FS	0 0	200	2	3/8/2001	WAH, FC. PCR. SCR. DWS
Elkhorn Creek 0.0 to 18.2	Kentucky River	RIVER	5100205	OWEN	200	+	3	6	3/4/2005	WAH FC PCR SCR
Ekhorn Creek 0.8 to 3.7	Kentucky River	RIVER	5100205	FRANKI IN	2,50	+	2	ဇ	9/19/1989	WAH FC PCR SCR
Elmer Davis Lake	Kentucky River	RIVER	5100202	LESLIE	2.50	20(2) 24-2	5-PS	က	3/1/2005	WAH, FC. PCR. SCR.
Emily Run 00 to 39	Kentucky River	RESERVOIR	5100205	OWEN	200	+	m	9	9/30/2005	WAH FC PCR SCR
Evans Fork 00 to 30	Kentucky River	RIVER	5100205	CARROLL	2.50	200	2	m	6/3/2004	WAH, FC. PCR. SCR.
Falling Rock Branch 0.0 to 0.7	Kentucky River	RIVER	5100204	ESTILL	250	+	2	60	4/1/1999	WAH, FC. PCR. SCR
Fishbond Lake	Kentucky River	RIVER	5100201	BREATHITT	2,50	-	2	9	3/7/2005	WAH, FC. PCR. SCR.
Five Mile Creek 00th 27	Kentucky River	RESERVOIR	5100201	LETCHER	2.50	200	60	m	3/7/2005	WAH, FC, PCR, SCR
Flat Crack Of to 7.4	Kentucky River	RIVER	5100205	HENRY	2.50	200	2	က	6/3/2004	WAH, FC. PCR. SCR
For Mile Coat Of 2 2	Kentucky River	RIVER	5100205	FRANKI IN	6 00	7	60	9	9/21/1999	WAH FC PCR SCR
Eneman Code O 0 to 4 4	Mantucky ideas	MINEN	COZOOLC	CLARK	6		ch	1 6	WITTOOR	WAH, PC. PCR. SCR.
English Colonia	Kentucky River	RIVER	5100202	RREATURT	2 6	200	6	9		WAH FC PCR SCR
ring branch U.U to 3.4	Kentucky River	RIVER	5100005	THE COMP	2+2	-	8	က	12/17/1999	WAH EC PCD CCD
ridzen creek U.U to 13.9	Kentucky River	RIVER	5100201	RDEATURE	200	20	9	m	2/1/2008	WAH EC PCP SCP
Came Parm Lake	Kentucky River	RESERVOIR	5100205	EDANICI IN	24.0	60	6	8	10/4/2004	WAH EC DOD SCD
Ceneral Butler State Park Lake	Kentucky River	RESERVOIR	5100205	CADDOL	2	+	2-FS	3	1/31/2008	WAH EC PCD CCD
Gilberts Big Creek 0.0 to 5.1	Kentucky River	RIVER	5400000	CARROLL	2-FS		6	6	8/3/2004	WAH EC BOD SO
Gilberts Creek 0.0 to 1.2	Kentucky River	RIVER	5400005	LESCIE		3	9	6	9/21/1999	WALL CO DOD SOO
Gliberts Creek 0.0 to 1.25	Kantucky River	DAVED	200000	LINCOLN			3	6		WALL TO DOD DOD
Gliberts Creek 0.0 to 2.6	Kentucky River	DAVED	200000	LINCOLN	6	5-NS 3	6	6	1/31/2008	WALL TO DOD DOD
Gilmore Creek 0.0 to 5.5	Kantucky River	DAVED	COZONIC	ANDERSON			6	en	SOUCOUR	איאין דכי רכה טכה
Gladie Creek 0.37 to 7.28	Kantucky River	DIVER	502000	WOLFE		e	6		307001	WAY, TC, PCK, SCR
Glenns Creek 0.0 to 5.2	Kantucky Diver	AIVER	5100204	MENIFEE					3777008	WAH, FC, PCR, SCR
Goose Creek 0.0 to 1.8	Kentralia Direct	RIVER	5100205	FRANKLIN	-	-		0 6	77774608	WAH, FC, PCR, SCR
Goose Creek 0.0 to 8.3	New Mucky Kiver	KIVER	5100205	SHELBY			0 6	0 0	70014000	WAH, FC, PCR, SCR
Goose Creek 1 R5 to 4.2	Nemuczy Kiver	RIVER	5100203	CLAY		2		2 0	BBB 17711	WAH, FC, PCR, SCR
Goose Creek 18 9 to 19 0	Namucky Kiver	RIVER	5100205	SHELBY	1	1		2 6	SULTANDO	WAH, FC, PCR, SCR
Granny's Branch 00 to 23	Nemucky Kiver	RIVER	5100203	CI AV	E	-		2	207111202	WAH, FC, PCR, SCR
Granavina Craak Of to 1 4	Kentucky River	RIVER	5100203	CLAY.	C.1-7	0	. 10	2-1-2	4140,0000	NOO 'NO I 'THE
Green Rich October	Kentucky River	RNER	5100201	PERRY	S-NS	3	0 00	0 0	00070171	WAH, FC, PCR, SCR, DWS
Green Create Of to 100	Kentucky River	RIVER	5100205	GRANT	2-FS		9 60	2 0	8413/1888	WAH, FC, PCR, SCR
Create Create 42 4 to 22 B	Kentucky River	RIVER	5100202	LESLIE	2-FS		2 6	2 6	BARLOLA.	WAH, FC, PCR, SCR
Crises Count Of to 25.	Kentucky River	RIVER	5100202	LESLIE	2-FS	+	2 0	2 0	12/13/1989	WAH, FC, PCR, SCR
Cristofeton Control of the 40	Kentucky River	RIVER	5100205	WOODFORD	2-FS		2	20	BRALKZK	WAH, FC, PCR, SCR
Mark Brown 07 to 1.9	Kentucky River	RIVER	5100205	FRANKLIN	2.FS	0 0	200	20	3/7/2005	WAH, FC, PCR, SCR
Hermone End. O to 4.0	Kentucky River	RIVER	5100205	STT	2-FS	+	2 6	9	3/22/2005	WAH, FC, PCR, SCR
Henrico Fort of Dis Blass Of the 45 pg	Kentucky River	RIVER	5100203	KNOX	2-FS		2 6	2 0	10/4/2004	WAH, FC, PCR, SCR
Handing End of Div Diver 45 BE to 24 45	Kentucky River	RIVER	5100205	LINCOLN	1	S-NS	2 6	2 6	372/2005	WAH, FC, PCR, SCR
Handing Fork of Div Divers 24 45 to 57 6	Kentucky River	RIVER	5100205	LINCOLN		S-NS	2 6	200	77/11999 - 2/4/2008	WAH, FC, PCR, SCR
Handing Early of Div Bluer 57 & to 55 5	Kentucky River	RNER	5100205	LINCOLN		5-NS	0 0	+	0142000	WAH, FC, PCR, SCR
Handwick Court of the 20	Kentucky River	RIVER	5100205	LINLN	1	S-NS	0 6	2 0	2/4/2008	* WAH, FC, PCR, SCR
Harle Creat Of the 25	Kentucky River	RIVER	5100204	POWELL		S.NS	0 0	2 0	24200	WAH, FC, PCR, SCR
Nade Forb 2 5 to 1 5	Kentucky Kiver	KIVEN	9100209	LINCOLN	- e	S.NS		c	O'ALIDONA.	man, i.e., i.e., sen
Heicher Coek 00 to 1.2	NAME OF THE PARTY	HIATA.	2000005	MADISON	01-00	2		e.	1050000	WAY PU PUR BUT
Hetton Creek 0.0 to 4.2	Nemucky Kiver	RIVER	5100204	POWELL	2-FS	9	8		SAROOM	WAN, PC, PCR, SCR
Hawas Fork 0.0 to 4.4	Namucky River	KIVER	5100204	POWELL	5-PS	3	6	67	300001	WAN, TC, PCR, SCR
He Creek 0.0 to 3.5	Kenticky River	RIVER	5100201	BREATHITT	SN-S	3	9	67	9/10/1999	WAL EC DEB SCR
Hell For Certain Creek 0.0 to 2.1	Kantincky River	KIVEK	5100201	TEE	5-PS	3	3	0	9/15/1999	WAH EC DOD GOD
Herrington Lake	Kantincky River	PECEDIADIO	2020202	LESUE	2-FS	3	3	6	12/14/1999	WAH EC PCP SCD
Hickman Creek 6.0 to 25.5	Kantucky River	PACETAVOIR	5100205	GARRARD		S	S-PS	2-FS	3/18/2005	WAH EC POR SOR
Hickman Creek 0.0 to 6.0	Kantucky Rivar	DAVED	500000	JESSAMINE	S-PS	8	က	3	10/4/2005	WAH FC PCR SCR
Hines Creek 0.1 to 1.9	Kentucky River	PINED	5100200	JESSAMINE	5-PS		3	က	2/3/2008	WAH FC PCR SCR
Holly Creek 0.0 to 6.2	Kentucky River	RIVER	540000	MADISON	2-FS	8	3	က	3/22/2005	CAH. FC. PCR. SCR.
Honey Branch 0.0 to 1.4	Kentucky River	RIVER	5400000	WULTE	200	9	9	က	3/22/2005	WAH, FC. PCR. SCR.
Hopper Cave Branch 0.0 to 1.8	Kentucky River	RIVER	5100204	IACKSON	2-13	200	8	6	3/1/2003	WAH, FC, PCR, SCR
Horse Creek 0.0 to 8.3	Kentucky River	RIVER	5100203	CLAY	5.05	2 6	70 0	0	3/22/2005	WAH, FC, PCR, SCR
Hoys Fork 0.0 to 3.8	Kentucky River	RIVER	5100204	ESTILL	2-FS		2 60	7 0	10/4/2004	WAH, FC, PCR, SCR
HURRING CROOK U.U.10 Z.6	Kentucky River	RIVER	5100201	BREATHITT	S-NS	3 6	2 6	2 00	2/2/2000	WAH, FC, PCR, SCR
							0	2	AULIANA	WAH, FC, PCR, SCR

Control   Cont	Waterbody and Segment	Basin	Water Body Type	B.Dieb Hill	Contract		1	H			
Figure   F	Indian Creek 0.0 to 5.4	Kentucky River	RIVER	5400006	CADDOLL	WAHICAH	PCR SC		Н	Assess Date	Designated Items
	ndian Creek 2.6 to 7.8	Kentucky River	RIVER	5100204	MENICEE	2-t-S	+	1		3/22/2005	WAH. FC. PCR. SCR.
Commany River   Friend   Commany River   Com	ndlan Fork 0.0 to 3.3	Kentucky River	RIVER	5100205	SHEIDS	250	-		6	10/4/2004	WAH. FC. PCR. SCR.
Figure   F	essemine Creek 0.0 to 5.3	Kentucky River	RIVER	5100205	IESCAMINE	7 - 2	8		က	3/22/2005	WAH, FC. PCR. SCR.
No.   No.	orn Carpenier Fork 0.0 to 1.2	Kantucky River	RIVER	5100201	RREATHIT	2-12	m (	1	6	7/1/1998	WAH, FC, PCR, SCR
Commany Rev.   NUMBER   STOCKAM	OTHER DIS ISS	Kentucky River	RIVER	5100204	WOLFF	5.De	200	3	6	3/22/2005	WAH, FC, PCR, SCR
Marketing Rayer   Rivers   Storond   DAVIEL   2-45   S   S   S   S   S   S   S   S   S	Const. of the San	Kentucky River	RIVER	5100204	POWELL	S-NS	+	200	60	10/4/2004	WAH, FC, PCR, SCR
Commonly New   First   5100203	Cation Creak On to 4.0	Kentucky River	RIVER	5100204	POWELL	2-FS	-	2 (1	2 0	3/2/2001	WAH FC PCR SCR
Commission Research   Commission Research	Sens Fork 0.0 to 1.8	Nemacky River	RIVER	5100203	CLAY	2-FS	-	9 673	9 6	40/4/2004	WAH FC PCR SCR
Commission   Formary Prince   Control   Commission   Co	Centucky River 0.3 to 11.5	New Michael	KIVER	5100203	CLAY	2-FS		67		5/1/100A	WANT FO. PCK, SCK
Commany River   Commany Rive	Centucky River 11.6 to 53.4	Name and Advant	KNER	5100205	OWEN	က		S-NS	0 6.	3/0/2005	WAT FC PCK SCR
Figure   F	Gentucky River 121.0 to 121.4	Kantucky Kiver	RIVER	5100205	OWEN	2-FS		2-FS	6	3/3/2/00	WALL FO POR SOR
Commany Plane   Commany Plan	Bentucky River 121.4 to 138.7	Manufacture Direct	RIVER	5100205	MERCER	6	L	3	2-FS	3/10/2008	CALL FOR DOD SOR
Manualy River   Minches   Minches	antucky River 154.0 to 210.0	Kanholou Divar	KIVER	5100205	GARRARD	1-FS	-		1-FS	2/28/2005	אאאו בר פרם פרם
Formulary Reveal   Formulary R	entucky River 223,35 to 224,35	Kantharka Dhan	RIVER	COZOCIC	JESSAMINE	2-FS	-		2-FS	3/10/2005	WALL EC BOD SON
Company River   NUMBER   STOCKO   FEATUR   2-55   2-45   2   2   2   2   2   2   2   2   2	entucky River 225.9 to 253.7	Manhada Direc	KIVER	5100205	ESTILL	3			2-FS	3/10/2005	איאין דלי דלא טלא
Company Repair   Figure   Fi	antucky River 53.5 to 118.2	New House	KIVER	5100204	ESTILL	9				3/10/2006	WAT, PC, PCK, SCK
Company Repair   Free	nob Lick Branch 0.0 to 2.8	Kentucky Niver	KIVEK	5100205	FRANKLIN	2-FS			2-FS	20202005	WALL EC BOD SON
Commandy River   Comm	noblick Creek 0.0 to 4.8	Kentucki Direc	RIVER	5100204	ESTILL	2-FS			6	10/8/2004	WALE CO. CO. SOO
Manualy River   Reservors   100000   Manualy River   1000000   Manualy River   100000   Manualy River   1000000   Manualy River   100000   Manualy River   100000   Manualy River   100000   Manualy River   100000   Manualy River   1000000   Manualy River   10000000   Manualy River   10000000   Manualy River   10000000   Manualy River   1000000   Manualy River   10000000   Manualy River	acy Creek 0.0 to 7.25	Kachicky Kiver	KIVEK	5100205	LINCOLN	2-FS			6	7/22/1999 - 2/4/2008	WAH EC BOD SON
Common   C	ake Reba	Kentucky Niver	KIVER	5100204	WOLFE	5-PS	9	3	3	3/22/2005	WAH EC DOD COD
Figure   F	oke Veca	Contract NIVE	KESEKVORK	5100205	MADISON	S-NS	3	67	6	6/3/2004	WAH EC OCO SOO
Manuacy River   NUMBER   5100203   CANA   S.P.   S.   S.   S.   S.   S.   S.	Ines Run 0.0 to 0.5	Kentucky Kiver	KESEKLOIK	5100205	MADISON		3	67	2-FS	3/23/2005	WAH EC BOB SO
Contacts   Name	Aurel Creek 38 to 4.8	New Michael	KIVEK	5100205	SCOTT		5B-NS 3	67	6	2/8/2/0/B	MAN CO CO CO CO
Countable No.   Countable No	Numal Fork D 0 to 4.2	New House	KIVEK	5100203	CLAY		6	m	63	9/29/1999	WALL OF DO ONE
Control Review   Five   Five	eatherwood Creek 0.0 to 4.2	Kardington Oliver	KIVEK	5100203	OWSLEY	M	3	69	m	3/22/2005	WAH EC BOB SOD DIANG
Manuacky River   RIVER   5100202   PERRY   2-F5   3   3   3   3   3   3   3   3   3	atherwood Creek 0 8 to 8 2	Kerket Kiver	KIVEK	5100201	BREATHITT		9	6	60	8/1/1998	WAN ED BOD SON
Value   Name	etherwood Creek 1.7 to 3.2	Kentucky Niver	RIVER	FOZOUTC	PERRY	2-FS	2-FS 3	3	e	12/21/1999	WAH EC PCB SCB
Vertically River   RIVER   5100203   UNSLEY   2-FS   3   3   3   3   3   3   3   3   3	Comples Run 0.0 to 1.9	Kenthada Dhar	AIVER	2020016	PERRY	2-FS	9	3	6	12/17/1999	WAH EC PCP SCP
1.5	Branch 0.0 to 1.0	Kachicky Divar	RIVER	5100205	SCOTT			m	m	12/17/1989	WAH FC PCR SCR
Ventucity River   RIVER   5100203   LETCHER   2-FS   3   3   3   3   3   3   3   3   3	ft Fork Big Double Creek 0.0 to 1.5	Kentucky River	NIVER	5100205	WOODFORD			6	က	2/8/2008	WAH. FC. PCR. SCR.
Kentucky River   River   5100203   CWSLEY   2+FS   3   3   3   3   3   127/14/1999	It Fork Buffalo Creek 0.0 to 3.1	Kantucky Niver	NIVER	5100203	CLAY	2-FS	3	ന	60	3/22/2005	WAH FC PCR SCR
Vertickey River   River   Strozot   LETCHER   5-NS   3   3   3   3   3   3   3   3   3	It Fork Elisha Creek 0.0 to 3.9	Kentucky River	PIVER	5100203	OWSLEY	2-FS	8	m	6	12/14/1989	WAH, FC. PCR. SCR.
Color	it Fork Island Creek 0.0 to 5.0	Kentucky River	RIVER	5100203	CLESLIE	2-1-2	m	m	က	3/22/2005	WAH, FC, PCR, SCR
Controlly River RESERVOR 5100205	n Fork Milistone Creek 1.6 to 2.9	Kentucky River	RIVER	5100203	CWSLET	200	m (	m	m	4/1/1989	WAH, FC, PCR, SCR
Manuacky River RIVER 6100205 CARROLL 6-PS 3 3 3 3 1000204	kington Reservoir No. 4 9 (Jacobsen Reservoir)	Kentucky River	RESERVOIR	5100205	FAVETTE	2-0		60	6	3/22/2005	WAH, FC, PCR, SCR
Manualay River RIVER 5100201 LETCHER 5-PS 3 3 3 3 1008/2004	* Creek 0.0 to 5.4	Kentucky River	RIVER	5100205	CARROLL	S C C	2 6	7	2-FS	3/7/2005	WAH, FC, PCR, SCR
Manuacky River   RIVER   5100201   LETCHER   2-FS   3   3   3   4/1/399	Ne Fork 9.1 to 11.6	Kentucky River	RIVER	5100201	LETCHER	5-PS	9 60	2 6	20 00	10/6/2004	WAH FC PCR SCR
Controlled River   RIVER   5100203   CLAY   3   3   3   3   3   3   3   3   3	W FOR 11.0 10 Z/.0	Kentucky River	RIVER	5100201	LETCHER	2-FS	5-PS 3	0 65	2 6	4/4/4008	WAH, FC, PCR, SCR
Manuacky River   RIVER   5100203   LESLIE   2-FS   3   3   3   3   3   3   3   3   3	He Middle Fort Flishs Creat Of to 0.75	Kentucky River	RIVER	5100203	CLAY	ო	3	0 00	9 67	Deelilik	WAN FU PUR SUR
Manucky River RIVER   5100201   BREATHIT   2-FS   3   3   3   3120205   3   3   3   3   3   3   3   3   3	He Militaret Branch O O to 1 2	Kemucky River	RIVER	5100203	LESLIE	2-FS		60	(7)	3/22/2005	WAH EC BOD SON
Variable River   River   5100204   LEE   2-FS   3   3   3   3   3   4/1/1999	de Sexton Creek 0.0 to 2.8	Kantinday Raver	KIVER	5100201	BREATHITT	2-FS	9	6	6	3/22/2005	WAH FO POR SOR
Markey River RIVER   5100204   Library   2-FS   3   3   3   3   3   3   3   3   3	de Sinking Creek 0.0 to 4.0	Kantucky Rivar	RIVER	5100203	CLAY	2-FS	3	m	9	4/1/1989	WAH, FC. PCR. SCR.
Manuacky River River River Sitozzad Owisley 2-FS 3 3 3 3 1/1/1899   1/1/189	ile Shanile Creek 0.0 to 5,3	Kentucky River	DIVER	5100204	TEE	2-FS	en en	9	က	9/30/1999	WAH, FC. PCR. SCR.
Semble   Kentucky River   RIVER   5100204   CUARK   5-15   3   3   3   3   3   1/1/1999   CUARK   5100204   CUARK   5-100204   BREATHITT   5-100204   S-100204   BREATHITT   5-100204   S-100204   BREATHITT   5-100204   S-100204   BREATHITT   5-100204   S-100204   S-100204   BREATHITT   5-100204   S-100204   S-10	the Sturgeon Creek 0.0 to 2.8	Kentucky River	RIVER	5100202	Olare EV	24.0	1	60	6	3/22/2005	WAH, FC, PCR, SCR
Kentucky River         RIVER         5100201         PERRY         5-NS         3         3         3         3         342000           Kontucky River         RIVER         5100204         CLARK         3         3         3         3         104/2005           Kontucky River         RIVER         5100203         CLAYY         2-FS         5-NS         3         3         3         104/2005           Kontucky River         RIVER         5100201         BREATHITT         5-PS         3         3         3         3         2/2/2/2005           Kantucky River         RIVER         5100201         BREATHITT         5-PS         3         3         3         2/6/2/2006           Kantucky River         RIVER         5100201         BREATHITT         5-PS         3         3         3         2/6/2/2006           Kantucky River         RIVER         5100201         PERRY         5-NS         3         3         3         2/6/2/2006           Kantucky River         RIVER         5100201         PERRY         5-NS         3         3         3         3/1/1999           Kantucky River         RIVER         5100201         PERRY         5-NS         3	is Sturgeon Creak 4.8 to 6.8	Kentucky River	RIVER	5100204	OWSI FY	2.50	-	200	0	1/1/1999	WAH, FC, PCR, SCR
Kentucky River         RIVER         5100204         CLARK         3         3         3         3         3         3         1002004           Kentucky River         RIVER         5100205         LINCOLN         2-FS         5         3         3         3         3         3         10442005           Kentucky River         RIVER         5100201         BREATHITT         2-FS         3         3         3         3.0071899           Kentucky River         RIVER         5100201         BREATHITT         2-FS         5-NS         2-FS         3         3         2.022006           Kentucky River         RIVER         5100201         BREATHITT         5-NS         3         3         2.022006           Kentucky River         RIVER         5100201         RIVER         5	ie Willard Creek 0.0 to 2.5	Kentucky River	RIVER	5100201	PERRY	SN-S	-	200	0	2/3/2000	WAH, FC, PCR, SCR, DWS
Kontucky River         RIVER         5100205         LINCOLN         2-FS         5-NS         3         3         3         104/2005           Kontucky River         RIVER         5100203         CLAY         2-FS         3         3         3         3         300/1999           Kontucky River         RIVER         5100201         BREATHITT         2-FS         5-NS         3         3         3/20/2005           Kontucky River         RIVER         5100201         BREATHITT         2-FS         3         3         2/22/2005           Kontucky River         RIVER         5100201         RAVOTT         5-NS         3         3         3         2/22/2006           Kontucky River         RIVER         5100201         PERRY         5-NS         3         3         3         2/22/2006           Kontucky River         RIVER         5100201         PERRY         5-NS         3         3         3         2/2/2006           Kontucky River         RIVER         5100201         PERRY         5-NS         3         3         3         3         3/1/1999           Kontucky River         RIVER         5100201         PERRY         5-PS         3         3 <td>D Lick Creek 0.0 to 2.6</td> <td>Kentucky River</td> <td>RIVER</td> <td>5100204</td> <td>CLARK</td> <td>8</td> <td>-</td> <td>) [67</td> <td>2 6</td> <td>TUO/ZUO4</td> <td>WAH FC, PCR, SCR</td>	D Lick Creek 0.0 to 2.6	Kentucky River	RIVER	5100204	CLARK	8	-	) [67	2 6	TUO/ZUO4	WAH FC, PCR, SCR
Kentucky River         RIVER         \$100201         BREATHITT         5-FS         3         3         3         3001/399           Kentucky River         RIVER         \$100201         BREATHITT         5-FS         3         3         3         32/22/005           Kentucky River         RIVER         \$100201         BREATHITT         2-FS         5-NS         2-FS         3         3         2/22/2005           Kentucky River         RIVER         \$100201         RIVET         \$-FS         3         3         3         2/22/2006           Kentucky River         RIVER         \$100201         RIVET         \$-FS         3         3         3         2/6/2006           Kentucky River         RIVER         \$100201         PERRY         \$-FS         3         3         3         3/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-FS         3         3         3/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-FS         3         3         3/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-FS         3         3         3/6/2006	201 Creek U.D to 3.15	Kentucky River	RIVER	5100205	LINCOLN	2-FS	'	9	) (*	10/4/2005	WAT, FC, FCK, SCK, DWS
Kentucky River         RIVER         \$100201         BREATHITT         \$-FS         3         3         3722/2005           Kentucky River         RIVER         \$100201         BREATHITT         2-FS         5-NS         2-FS         3         3         2/22/2005           Kentucky River         RIVER         \$100201         KNOTT         5-PS         3         3         3         1062204           Kentucky River         RIVER         \$100201         PERRY         5-PS         3         3         3         2/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-PS         3         3         3         3/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-PS         3         3         3         3/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-PS         3         3         3/6/2006           Kentucky River         RIVER         \$100204         POWELL         2-PS         3         3         3/6/2006	ig roth to to a se	Kentucky River	RIVER	5100203	CLAY	2-FS	!	3	9	9/30/1999	WAH EC BOD SCD
Namicacy River   NIVER   5100201   BREATHIT   2-FS   5-NS   2-FS   3   3   2/22/2005   2/62/2006   2	Chank Office 7	Karaucky Kiver	RIVER	5100201	BREATHITT	5-PS		3	6	3/22/2005	WAH FC PCR SCR
Normal Street	tt Creek 3.7 to 8.95	Kantucky River	KIVEK	5100201	BREATHITT	2-FS	-		က	2/22/2005	WAH, FC. PCR. SCR. DWS
Manuady River RIVER 5100201 NOVELTY 5-NS 3 3 3 3 1082004   Normalady River RIVER 5100203 OWSLEY 5-NS 3 3 3 3 2602006   Normalady River RIVER 5100204 POWELL 2-FS 3 3 3 3 3 3 602001   Normalady River RIVER 5100204 POWELL 2-FS 3 3 3 3 3 602001   Normalady River RIVER 5100204 POWELL 2-FS 3 3 3 3 3 602001   Normalady River RIVER 5100204 POWELL 2-FS 3 3 3 3 3 602001   Normalady River RIVER 5100204 POWELL 2-FS 3 3 3 3 3 602001   Normalady River RIVER 5100204   Normalady RIVER 5100204   Normalad	tts Creek 0.4 to 1.0	Kentucky River	RIVER	5100201	BREATHITT	S-NS		6	က	2/8/2006	WAH FC PCR SCR
Kantucky River RIVER 5100204 OWSLEY 5-PS 3 3 3 3 4/11990     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 4/11990     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 4/11990     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11990     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11990     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kantucky River RIVER 5100204 POWELL 2-FS 3 3 3/11/2000     Kant	tts Creek 1.2 to 6.0	Kentucky River	RIVER	5100201	NACI	S	+	60	en .	10/6/2004	WAH FC PCR SCR
Kentucky River RIVER	wer Buffalo Creek 0.0 to 2.4	Kantucky River	RIVER	5100203	OWSLEY	200	2 6	77	9	2/6/2006	WAH, FC, PCR, SCR, DWS
Kentlucky River RIVER 5100201 LEE 2-FS 3 3 3 9 9/5/2001	wer Cana Creek 0.0 to 2.8	Kentucky River	RIVER	5100204	POWELL	2-FS	9 67	2 60	2 6	2/1/1999	WAH FC PCR SCR DWS
NOTIFICAL POWER STOCK POWELL 2-FS 3 3 3	Wer Devil Creek 0.0 to 4.5	Kantucky River	RIVER	5100201	LEE	2-FS	3	60	c	9/15/1000	WAH EC BOB SOB
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WET FROOD DESIRED U.C TO 1.0	Kentucky Hover	RIVER	5100204	POWELL	2-FS	3 3	3	3	1/11/1998	WAH FC PCR SCR
									ı		

Waterbody and Segment	al and	200								
Lower Howard Creek 2.65 to 6,2	Kentucku River	Water Body Iybe	S-Digit HUC	County	WAHICAH	PCR S	SCR Fish Consumption	NAME IN		
Lower Thomas Lake	Kentucky River	DESERVATION	5100205	CLARK	SN-G				12/17/1900	Designated Uses
Lulbegrud Creek 0.0 to 7.3	Kanhuda Dise	ALCOLATOR A	2100205	OWEN	3			250	20000000	WAH, FC, PCR, SCR, DWS
Lulbagrud Creek 16.9 to 22.2	Kartholin Dive	KIVER	5100204	CLARK	5-PS	-	-	2-13	3/23/2005	WAH FC PCR SCR DWS
Lulbagrud Creek 7.3 to 16.9	Kantucky Niver	KIVEK	5100204	MONTGOMERY	ဗ	3	0	2 6	REGULLON	WAH, CAH, FC, PCR, SCR
Lythes Fork 0.0 to 14.7	Manhody Diver	KIVEK	5100204	POWELL	2-FS			0 0	Amenda	WAH FC PCR SCR DWS
Maces Creek 0.0 to 0.2	Kentucky Nive	KIVEK	5100205	SCOTT	2B(5)	6	3	0 0	SACASOOL	WAH, FC, PCR, SCR
Marble Creek 0.05 to 3.9	Kantucky River	KIVEK	5100201	PERRY	2-FS			0 6	420444000	WAH, FC, PCR, SCR
McConnell Run 0.0 to 4,4	Kentucky River	DIVER	5100205	JESSAMINE	5-PS	ო	9	0	3/10/2005	WAH, FC, PCR, SCR
McKinnay Branch 0.0 to 1.9	Kentucky River	DAVED	5400005	SCOTT	5-PS			0	12/17/1990	WALL FOR SOR
Meadow Creek 0.5 to 3.7	Kentucky River	DAVED	5000015	LINCOLN	8		9	67	2/1/2008	WAN, TC, TCR, SCR
Middle Fork Kentucky River 36.9 to 43.8	Kentucky River	DAZE	5100203	OWSLEY	5-PS	-	9	6	10/8/2014	MAN, PC, PCK, SCK
Middle Fork Kentucky River 6.4 to 12.6	Kentucio River	NIVER	2020202	PERRY	2-FS	_	2-FS 3	6	3/2/2005	WAY, TC, PCK, SCK
Middle Fork Kentucky River 75.4 to 75.9	Kentucky River	DAVED	5100202	TEE	2-FS	-	2-FS 3	67	2030005	WAN, FC, FCK, SCK
Middle Fork Kentucky River 75.9 to 84.3	Kentucky Sher		5100202	LESLIE	3	-	69	2-FS	3/1/2005	WALL FOR SOR
Middle Fork of Kentucky River 87.0 to 73.4	Manhacky Need	RIVER	5100202	LESTIE	2-FS	-	3		30000000	WARI FC FCR SCR DWS
Middle Fork Quicksand Creek 0.0 to 10.0	Kentucky Nivel	KIVEK	5100202	LESLIE	5-PS	5-PS 2-FS	FS	6	30000	WAN TO POR SOR
Middle Fork Red River 12.9 to 15.4	Manhacky Niver	RIVER	5100201	KNOTT	2-FS	-	3	6	0001/1000	WAY TO POR SOR
Middle Fork, Kentucky River 61.5 to 64.2	Manthally Divos	RIVER	2100204	WOLFE	2-FS	3	63		SPANOR	WAT TO, PUR SUR
Mill Creek 0.0 to 3.3	Kantucky Niver	RIVER	5100202	LESUE	2-FS	-	5-NS	6	8/18/2005	WALL FOR SCR
Mill Creek 0.0 to 5.7	Kantinday Dise	Chica	1020016	LETCHER	S-NS		63	m	1077204	WALL ED DOG COD
Mill Creek 0.5 to 8.3	Manhaday Niver	RIVER	9100209	CARROLL	2-FS		3	6	4/1/1900	WALL FO DOD SON
Mill Creek Lake (Powell County)	Kentinday Kiver	RIVER	5100205	OWEN	2-FS	3	69		SUSSECUE	WAN, TC, TCK, SCK
Millers Creek 0.0 to 5.7	Kantinday Dise	RESERVOIX	5100204	POWELL	2-FS		3	2-FS	6/3/2004	WALL OF LONG
Millseat Branch 0.0 to 1.85	Manufacture Direct	KIVER	9100204	LEE	2-FS		9	67	12/17/1999	WALL FO DOD OOD
Modes Branch 1.8 to 5.7	Manhaday Alver	RIVER	5100201	BREATHITT	2-FS		3	6	3232005	WALL EC DOD COD
Morris Creek 0 1 to 3 7	Neimony Kive	KIVEK	5100205	BOYLE	5-PS	3		6	3/41/2005	WALL FO DOD SOD
Moseby Branch 0.0 to 2.2	New HUCKY PUYER	RIVER	5100204	POWELL	6	m	3	3	20041110	MAN, TC, TCR, SCR
Muddy Creek 0.0 to 20.2	Marriadory River	KIVER	5100205	OWEN	SN-9	6		3	9/18/1999	WALL EC BOD SON
Muddy Creek 20 2 to 29 2	Marriagy River	KIVER	5100205	MADISON	2-FS		2	3	12/1/1999	WALL FO DOD SON
Muncy Creek 2.7 to 4.7	Nemucky River	RIVER	5100205	MADISON	2-FS	i		0	122000	WALL EC DOD GOD
Museelman Creek DO to 9.0	New RUCA) KIVE	KIVEK	5100202	LESLIE	5-NS	9	8	67	AU00000	WALE CO. CO.
N Fithon Creek Rt O to 72 75	Nemucky Kiver	RIVER	5100205	GRANT	2-FS			67	3030006	WALL TO DOD SOR
Noland Creek 0.05 to 1.2	Kantingsy River	KIVER	5100205	FAYETTE	S-PS	5-NS 3		e	10/4/2005	WALL EC DOD OOD
North Behaon Creek 0.8 to 2.0	Manual Control	KIVEK	5100204	ESTILL	5-PS		6	6	3/11/2005	WALL ED GOOD GOOD
North Elkhorn Creek 0.7 to 7.4	Kentucky River	KIVEK	5100205	FRANKLIN	S-PS	m		3	4/1/1999	WALL ET BOR GOOD
North Elkhorn Creek 33.6 to 34.6	Kenturky River	RIVER	5100205	FRANKLIN	2-FS		3	0	7/24/2003	WAH FC PCB SCB
North Fork Lulbeand Creek 0.0 to 2.4	Kentucky River	NIVER DAVED	5020000	SCOTT	n		3	2-FS	3/11/2006	WAH FC PCR SCP
North Fork North Benson Creek 0.0 to 2.2	Kantucky Rivar	PAYED	5100004	MONIGOMERY	2-FS	3		ю	3/2/2001	WAH. FC. PCR. SCR.
North Fork of Kentucky River 1.3 to 2.3	Kantucky Rivar	RIVER	510000+	LEGE	i	1	3	6	4/1/1999	WAH, FC, PCR, SCR
North Fork of Kentucky River 104.1 to 105.1	Kentucky River	RIVER	5100201	PEDDY	1	4A-NS	-	2-FS	3/11/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 131.0 to 132.0	Kentucky River	RIVER	5100201	FTCHED	T	1		2-FS	3/14/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 145,5 to 147,9	Kentucky River	RIVER	5100201	FTCHER	T	AA-NO		2-FS	3/14/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 147.9 to 162.0	Kentucky River	RIVER	5100201	LETCHER	S N S	AA NE	200	200	9/28/2005	WAH, FC, PCR, SCR
North Fork of Kentucky River 2.3 to 35.6	Kentucky River	RIVER	5100201	LEE		AA-NS	6	2-L3	3/14/2005	WAH, FC, PCR, SCR
North East of Manual Dises 47.5 to 47.2	Kentucky River	RIVER	5100201	BREATHITT	2-FS	ci	1	2 67	2002/2005	WAH FC PCK SCR
North Each of Restricts Diseas 48 2 to 40.4	Kentucky River	RIVER	5100201	BREATHITT				2-58	3/14/2005	MAH CO CO CO
North Fork of Kentucky River 0.0 to 1.3	Ventucky River	RIVER	5100201	BREATHITT		4A-NS 3	3	69		WAH EC BOR SCR
North Fork of Kentucky River 105,1 to 131.0	Kartucky River	BAKED	5400004	LEE				ю		CAH. FC. PCR. SCR.
North Fork of Kentucky River 132.0 to 145.5	Kentucky River	RIVER	5100001	FERRI	7	4A-NS	m	ო		WAH, FC, PCR, SCR
North Severn Creek 0.0 to 2.1	Kentucky River	RIVER	5100205	OWEN	T	2		0		WAH, FC, PCR, SCR
Otter Creek 0.0 to 4.1	Kentucky River	RIVER	5100205	MADISON	5-F3	200		0	10/7/2004	WAH, FC, PCR, SCR
Owaley Fork Lake	Kentucky River	RESERVOIR	5100205	MADISON	2,50	670 670	7	2	2/22/2005	WAH, FC, PCR, SCR
Paint Lick Creek 0.0 to 7.5	Kentucky River	RIVER	5100205	GARRARD	2-FS	2 60	2 6	2+2	6/3/2004	WAH, FC, PCR, SCR
Paint Lick Creek 7.5 to 22.2	Kentucky River	RIVER	5100205	MADISON	2-FS		9 65	2 6	8881/CZ/UL	WAH, FC, PCR, SCR
Parbown Lake	Kentucky River	RESERVOIR	5100201	BREATHITT	S-NS	6	3	0 67	APPONT.	WALL FO POR SOR
Parker Crack Of to 4.1	Kentucky River	RIVER	5100204	WOLFE	2-FS	63	3	9	3/8/2001	WAH FC PCR SCR
Plum Branch 0.0 to 3.9	Kantucky River	RIVER	5100205	LINCOLN	0	S-NS	60	က	2/4/2008	WAH, FC, PCR, SCR, DWS
Polls Creek 0.0 to 4.7	Kentucky River	RIVER	5100202	POWELL	S de s	63 6	0	m	1/1/2005	WAH, FC, PCR, SCR
			O I Change	LEGIS	01-0	2	2	m	8/30/1889	WAH, FC, PCR, SCR

Waterbody and Seament	Basin	Water Body Tune								
Potter Fork 0.0 to 4.4	Kentucky River	RIVER	5400004	County	WAHCAH	+	SCR Fish Consumption	DWS	Assess Date	Designated lines
Puncheon Camp Creek 0.0 to 3.2	Kentucky River	RIVER	5100000	ROCATUITY	SN-0	2		က	9/30/1999	WAH EC PCB SCP DIAGE
Curckend Greek 0 0 to 17.0	Kentucky River	RIVER	5100201	REFATAIT	S de la	+		e	12/21/1999	WAH FC PCP SCP
CUICKSEING Creek 21.7 to 30.8	Kentucky River	RIVER	5100201	RREATHIT	200	+	2-FS 3	m	2/22/2005	WAH FC PCR SCR
Par Blad Blad Control of 12	Kentucky River	RIVER	5100205	CPANT	200	+	3	၈	2/8/2008	WAH. FC. PCR. SCR.
Red List Creat Of to 8 4	Kentucky River	RIVER	5100203	CLAY	2.50	+		0	9/16/1989	WAH, FC, PCR, SCR
Red River 21 8 to 30 7	Kentucky River	RIVER	5100204	MADISON	2-PS	+	200	m	3/1/2005	WAH FC PCR SCR
Red River 31.0 to 32.0	Kentucky River	RIVER	5100204	POWELL	2-FS	2.FS 2.	2-53	200	2/22/2005	WAH FC PCR SCR
Red River 50.1 to 60.9	Namincky River	RIVER	5100204	POWELL	60	-		2000	3/3/2005	WAH FC PCR SCR
Red River 64.1 to 67.6	Kenticky River	RIVER	5100204	POWELL	2-FS			200	3/4/2005	WAH FC PCR SCR
Red River 70.0 to 83.9	Marthurin Diver	RIVER	5100204	WOLFE	5-PS	3	m	6	10/1/2004	WAT FO POR SOR
Red River 89.5 to 93.4	Kentholy Diver	RIVER	5100204	WOLFE	5-PS		6	67	10/1/2004	WAN TO POR SOR
Richland Creek 0.0 to 0.8	Kachicky River	RIVER	5100204	WOLFE	5-PS	1	9	9	3/14/2005	WAN TO TON, SOR
Right Fork Big Double Creek 0.0 to 2.1	Kantucku Divas	RIVER	5100205	OWEN	5-PS	6	9	62	1/12/2000	WALL CO GOOD COLOR
Right Fork Buffalo Creek 0.0 to 2.1	Kentucky River	DAVER DAVED	5100203	CLAY	2-FS		3 3	67	3/3/2005	WAH EC DOD COD
Right Fork Elisha Creek 0.0 to 3.3	Kantucky Rivar	DAVED	5100000	OWSLEY	5-PS	9	3	60	10/7/2004	WAH EC POR SOR
Right Fork Lacy Creek 0.0 to 2.2	Kantucky River	DAVED	2100203	LESTIE	2-FS			e	3/15/2005	WAN EC DOD OCD
Right Fork Millstone Creek 0.0 to 1.8	Kantucky Rivar	PIVED	5100204	WOLFE	50	m	3	3	10/4/2005	WAH FC PCR SCR
Rouring Fork 0.0 to 0.9	Kentucky River	DAVED	5400204	LE LONEX	S-NS			9	3/15/2005	WAH FC PCR SCR
Rockbridge Fork 0.0 to 3.3	Kentucky River	PIVED	200000	BREAIN	2-FS	-		က	3/15/2005	WAH FC PCR SCR
Rockhouse Creek 0.0 to 3.6	Kentucky River	DAVED	2100204	WOLFE	25-12	i		e	3/15/2005	WAH FC PCR SCR
Rockhouse Creek 4.0 to 5.2	Kentucky River	RIVER	5400300	LE CHEK	2-62	S	m	6	9/20/1999	WAH. FC. PCR. SCR.
Rose Fork 0.0 to 3.1	Kentucky River	PINED	5100502	בבארוב	6	-		e		WAH FC PCR SCR
Royal Springs 0.7 to 0.73	Kentucky River	CDOMIC	200000	WOLVE	S-NS	m		6	10/5/2005	WAH FC PCR SCR
Salt Fork 0.0 to 0.8	Kentucky River	DAVED	2100202	110	0			2-FS	3/15/2005	WAH FC PCR SCR
Salt River of Stornile Creek 0.0 to 4.5	Kentucky River	ON/ED	2100204	MENIFEE	2-53			9	3/6/2001	WAH FC PCR SCR
Sand Lick Fork 0.0 to 5.0	Kentucky River	DAVED	2100202	HENRY	S-PS			6	7/22/1989	WAH FC PCR SCR
Sand Ripple Creek 0.1 to 3.9	Kentucky River	DIVED	5400006	POWELL	4A-NS	60		3	12/21/1989	WAH FC. PCR. SCR.
Sawdridge Creek 0.0 to 3.35	Kentucky River	DIVED	5100200	HENKY	2-FS			က	3/15/2005	WAH FC PCR SCR
Severn Creek 0,55 to 1,35	Kentucky River	RIVER	5400205	OWEN	2-53	1	3	ဂ	3/15/2005	WAH, FC. PCR. SCR.
Severn Creek 1.35 to 3.0	Kentucky River	RIVER	5100205	OWEN	000	7		2-FS	3/15/2005	WAH, FC, PCR, SCR
Sexton Creek 0.1 to 17.2	Kentucky River	RIVER	5100203	CIAV	2-L3	0		m	3/15/2005	WAH, FC, PCR, SCR
Shaker Creek 0.1 to 1.4	Kentucky River	RIVER	5100205	MERCER	2,58	+	2-1-2	m (	2/22/2005	WAH, FC, PCR, SCR
Shallow Ford Creek 5.9 to 6.9	Kentucky River	RIVER	5100205	MADISON	58-NS	1		200	3/15/2005	WAH, FC, PCR, SCR
Sherry Rock Fork 0.0 to 0.8	Kentucky River	RIVER	5100201	BREATHITT	2-FS	t		2 0	0002/92/1	WAH FC, PCR, SCR
Shar Crack O to 44 4	Kentucky River	RIVER	5100202	LESTIE	2-FS	3		2 (	10/8/2003	WAH, FC, PCR, SCR
Silver Creek 41 2 to 20 B	Kentucky River	RIVER	5100205	MADISON	2-FS	S	2-FS 3	64	SUPPOR	WAN FO PCK, SCK
Silver Creak I ake II guest ake	Kennicky River	RIVER	5100205	MADISON	5-PS			6	3/15/2005	WALES BOOK OF TANK
Silver Creak Lake (Lipper Lake) No. 2	Kentucky Kiver	RESERVOIR	5100205	MADISON	3	65	6	2-FS	3/4/2005	WAH EC POP SON
	Kanting Niver	KESEKVOIK	9100209	MADISON	0		3	2-FS	1/1/2005	WAH FC PCR SCR
Snow Creek 0.0 to 3.9	Karterior Street	RIVER	5400004	HENRY	2-FS	90		က	2/21/2003	WAH FC PCR SCR
South Benson Creek 0.0 to 5.4	Kentucky River	AIVER	5100204	POWELL	S-PS	60	3	က	10/8/2004	WAH FC. PCR. SCR.
South Elkhorn Creek 5.0 to 16.6	Kentucky River	DIVED	5100205	FRANKLIN	2-53	1		က	4/1/1999	WAH FC PCR SCR
South Elkhorn Creek 16.6 to 34.5	Kentucky River	RIVER	5100205	WOODEDE	200			0	3/16/2005	WAH FC PCR SCR
South Elithorn Creek 34.5 to 52.7	Kentucky River	RIVER	5100205	WOODFORD	200	1		m	3/16/2005	WAH FC PCR SCR
South Fork Kentucky River 11.7 to 18.9	Kentucky River	RIVER	5100203	OWSI EY	2.50	2.50		7	3/16/2005	WAH FC PCR SCR
South Fork Quicksand Creek 0.0 to 16.9	Kentucky River	RIVER	5100201	BREATHITT	SN-S	+	000	2-1-2	2/23/2005	WAH, FC, PCR, SCR
South Fork Red River 0.0 to 3.9	Kentucky River	RIVER	5100204	POWELL	4A-NS	63		2 6	12/2/1/2004	WAH, FC, PCR, SCR
South End River Same Create Of to 0.8	Kentucky River	RIVER	5100204	POWELL	4A-NS	63	3	3	12/22/1989	WAN ET DED SED
South Fork Station Carro Creak of to 28.3	Kentucky River	RIVER	5100204	JACKSON	2-FS	60	3	6	12/15/1999	WAH EC POR SOR
Source Creek 0.1 to 6.3	Kardindo Direc	RIVER	5100204	JACKSON	2-FS	63	3	က	2/2/2000	CAH FC PCR SCR
Spring Fork 3.1 to 6.9	Kentucky River	RIVER	5100203	BOTLE	S S S	0	63	က	3/16/2005	WAH FC PCR SCR
Spruce Branch 0.0 to 1.8	Kantucky River	RIVER	5400000	DECAINII	SN-C	0	9	က	9/10/1999	WAH, FC, PCR, SCR
Squabble Creek 0.0 to 4.7	Kentucky River	RIVER	5100202	PERRY	2-F3	000		e .	3/1/2003	WAH, FC, PCR, SCR
Stanford City Lake (Rice Lake)	Kentucky River	RESERVOIR	5100205	LINCOLN	2-FS	9 69	200	200	10/11/2004	WAH FC PCR SCR
State Koad Fork U.D to 4.0	Kentucky River	RIVER	5100204	WOLFE	2-FS	3	3	2 67	377001	WAH FO DOD BOD
Statement Reach 0.8 to 1.8	Kentucky River	RIVER	5100204	MCKSON	5-PS	2-FS 2-I	2-FS 3	60	2/22/2005	WAH FC PCR SCR
	Kentilicky River	RIVER	5100205	GRANT	58-PS	6	3	6	1/28/2000	WAH, FC, PCR, SCR

Steeles Run 0.0 to 4.2	Kentucky Direc	Water Body Ivpe	8-Diak HUC	County	WAHICAH	PCR S	CR Fish Consumotion	Davie C		
Steer Fork 0.0 to 2.7	Kentucky River	NIVER	5100205	FAYETTE	2-FS	3	3	1	SAME DATE	Designated Uses
Stevens Creek 0.0 to 14.4	Kentucky Biver	NIVER	9100204	JACKSON	2-FS	3	69	0 0	200000000000000000000000000000000000000	WAH, FC, PCR, SCR
Stevens Creek 14.4 to 17.1	Kentucky River	RIVER	5100205	GRANT	9	60	3	0 6	COOZAGI AC	WAH, FC, PCR, SCR
Stillwater Creek 0.0 to 3.5	Kanhoku Disar	KIVEK	5100205	OWEN	S-PS	63		2 6	40/49/4000	WAH, FC, PCR, SCR
Stinnett Creek 1.3 to 4.7	Kantacky Diver	KIVEK	2100204	WOLFE	5-PS	9	2	0 6	2/42/1999	WAH, FC, PCR, SCR
Stump Cave Branch 0.0 to 2.4	Kentucky River	DAVED	2020016	LESLIE	S-NS	9	3	6	10/11/2004	WAH, FC, PCR, SCR
Sturgeon Creek 8.0 to 12.2	Kantucky River	DAVED	2100204	POWELL	4A-NS	3	9	6	4/1/100R	WAT, TC, FCR, SCR
Sugar Creek 0.6 to 5.4	Kentucky River	BAVED	5100204	LEE	5-PS	3	3	0	10/11/2004	WALL FOR SCR
Sugar Creek 4.8 to 6.0	Kentucky River	RIVER	5100205	LESCIE	2-FS	9	3	6	1/1/2005	WAH EC BOD SOD
Sulphur Creek 0.0 to 1.4	Kentucky River	RIVER	5100205 540020E	CARRAND	S-PS	-	3	3	10/13/2004	WAH EC BOB SOR
Swift Camp Creek 0.0 to 13.8	Kentucky River	RIVER	5100503	TENKY	S-NS		3	က	4/1/1999	WAH EC POD SCO
Tate Creek 0.0 to 6.5	Kentucky River	DAVED	5100005	WOLFE	5-PS	က	3	0	11/1/1998	WAN EC BOB SOB
Tate Creek 6.5 to 11.5	Kentinder River	DIVER	5000016	MADISON	S-NS		3	3	12/22/1999	WALL ED BOD SON
Ten Mile Creek 0.0 to 2.9	Kantucky Diver	RIVER	5100205	MADISON	2-FS		0	6	12/22/1000	WAY TO, POR, SOR
Three Forks Creek 0.0 to 7 R	Manuary Nivel	KIVEK	5100205	GRANT	S-PS	5-PS 2-	2-FS 3		300000010	אברי רכי רכא מכא
Town Remoch 0.0 to 9.2	New MUCKY KIVE	KIVER	5100205	GRANT	5-PS	-		0 0	ONE PARODO	WAH, PC, PCR, SCR
Town Branch 10 R to 10 4	Kentucky River	RIVER	5100205	FAYETTE	S-PS	U.	3	200	BARLACIAS P	WAH, FC, PCR, SCR
Town Breach 0.2 to 40 E	ABRICKY RIVER	RIVER	5100205	FAYETTE	S-PS		000	0 0	CONTRACTOR OF THE PROPERTY OF	WAH, FC, PCR, SCR
Town Creek 2 Etc 2 E	Kentucky River	RIVER	5100205	FAYETTE	S-NS	u	0 0	0 0	2007/6/7	WAH, FC, PCR, SCR
Treat Each Office of	Kentucky River	RIVER	5100205	HENRY	58-NS	1	2 6	2 0	1/18/2000	WAH, FC, PCR, SCR
Trace row U.13 to 2.4	Kentucky River	RIVER	5100201	KNOTT	2-FS	U.	S C C	2 0	CONTRACTOR	WAH, FC, PCR, SCR
Transferre Creek U.U to 45.1	Kentucky River	RIVER	5100201	BREATHITT	S-NS	+	2.FS	2 0	COOZIALIO	WAH, FC, PCR, SCR
I WO MILE CREEK U.D to 3.1	Kentucky River	RIVER	5100205	OWEN	67	+	2 6	2 (	2/28/Z/UD	WAH, FC, PCR, SCR
Upper Devil Creek 0.0 to 1.0	Kentucky River	RIVER	5100201	WOLFE	S-PS	-	000	2 0		WAH, FC, PCR, SCR
Upper Hood Branch 0.0 to 1.6	Kentucky River	RIVER	5100204	POWELL	2.50	+	200	200	8/15/1988	WAH, FC, PCR, SCR
Upper Howard Creek 0.0 to 3.2	Kentucky River	RIVER	5100205	CLARK	S De	2 6	200	20	1/18/2000	WAH, FC, PCR, SCR
Upper Twin Creek 0.0 to 3.6	Kentucky River	RIVER	5100202	RREATHITT	200	2 0	200	60	12/22/1989	WAH, FC, PCR, SCR
UT to Baughman Fork 0.0 to 1.1	Kentucky River	RIVER	5100205	EAVETTE	AA NIC	2 0	200	n	12/22/1999	WAH, FC, PCR, SCR
UT to Cane Run 0.0 to 3.5	Kentucio River	PINED	£40000E	POOT	CN-NO	-	m	က	7/5/2003	WAH, FC, PCR, SCR
UT to Cawood Branch 0.0 to 2.1	Kentucky River	RIVER	8400000	1000	200	20	9	0	1/21/2000	WAH, FC, PCR, SCR
UT to Cedar Creek 0.0 to 1.4	Kentucky River	RIVER	540020E	CHART	24-7	20	60	က	1/1/2005	WAH, FC, PCR, SCR
UT to Clear Creek 0.0 to 4.3	Kentucky River	RIVED	54000E	NEW CONTRACTOR	242	60	2	က	3/4/2005	WAH, FC, PCR, SCR
UT to Engle Fork 0.0 to 0.5	Kentucky River	DAVED	2100203	WOODLOKE STORE	2-FS	63	3	က	1/18/2000	WAH. FC. PCR. SCR.
UT to Flat Creek 0.0 to 1.5	Kantucky River	DIVED	5100201	PERKT	S-NS	0	3	6	10/13/2004	WAH, FC. PCR. SCR
UT to Glenns Creek 0.0 to 1.9	Kentucky River	DAVED	2100202	LINGUIS	2-1-2	6	8	9	3/7/2005	WAH, FC. PCR. SCR
UT to Hanging Fork 0.0 to 1.3	Kentucky River	DAVED	3100203	WOODFOKD	2-FS	e	3	6	3/22/2005	WAH, FC. PCR. SCR.
UT to Jacks Creek 0.0 to 1.15	Kentheley River	DAVED	2100203	CASET	2+2	2	9	3	10/13/2004	WAH, FC. PCR. SCR
UT to Kentucky River 0.1 to 1.4	Kentucky River	DAVED	5100205 540000E	MADISON PARISON	2-FS	0	3	က	3/22/2005	WAH, FC, PCR, SCR, DWS
UT to Line Fork 0.0 to 0.6	Kenttacky River	DIVED	5400004	FRANKLIN	Z-FS		8	6	3/22/2005	WAH, FC, PCR, SCR
UT to N. Elithorn Creek 0.0 to 5.6	Kentindo Biver	DAVED	5100201	LEICHEK	2+5	0	3	က	3/22/2005	WAH, FC, PCR, SCR
UT to North Branch Lulbegrud Creek 0.0 to 2.2	Kentucky River	RIVER	5100200	MONTGOMEDY	Sales	m (	8	6	10/14/2004	WAH, FC, PCR, SCR, DWS
UT to Smith Fork 0.0 to 0.55	Kentucky River	RIVER	5100205	MADICON	CN-C	200	200	6	2/7/2006	WAH, FC, PCR, SCR, DWS
UT to Swift Camp Creek 0.0 to 1.5	Kentucky River	RIVER	51005004	MADISON	214	200	200	0	3/18/2005	WAH, FC, PCR, SCR, DWS
UT to Tanyard Branch 1.0 to 1.8	Kentucky River	RIVER	5100203	CI AV	O-NO	2 0	200	9	10/14/1999	WAH, FC, PCR, SCR, DWS
UT to Upper Howards Creek 2.1 to 2.7	Kentucky River	RIVER	5100205	CLARK	2.58	2 6	200	200	10/13/2004	WAH, FC, PCR, SCR
Walker Creek 0.0 to 5.4	Kentucky River	RIVER	5100201	LEE	2-FS	+	200	200	2002/41/J	WAH, FC, PCR, SCR, DWS
Wainut Meadows Branch 0.0 to 3.9	Kentucky River	RIVER	5100205	MADISON	3	-		2 6	IO FWI SAN	WAH, FC, PCK, SCR
War Creek 0.0 to 3.1	Kentucky River	RIVER	5100201	BREATHITT	2-FS		3	0 60	0/15/1000	WAN, PC, PCK, SCK
War Fork 0.0 to 13.8	Kentucky River	RIVER	5100204	JACKSON	2-FS		3	67	12/15/1000	WAH EC BOD GOD
West Fork Mill Creek U.D to 1.0	Kentucky River	RIVER	5100205	CARROLL	5-PS		3	6	7/23/1999	WAH EC BOR SCD
West Fork Other Creek U.D. 10 2.8	Kentucky River	RIVER	5100205	MADISON	2-FS	8	3	m	12/17/1989	WAH EC POR SOR
West Fork Sugar Creek 0.0 to 2.6	Kentucky River	RIVER	5100205	GARRARD	2-FS	0	3	0	3/3/2005	WAH EC POR SCR
West michael Creek U. 10 3.0	Kentucky River	RIVER	5100205	JESSAMINE	5-PS	S-PS	9	9	1/24/2000	WAH FC PCR SCR
West Tricking Creek 5.0 to 5.0	Kenticky River	RIVER	5100205	JESSAMINE	5-PS	9	3	က	1/18/2000	WAH, FC. PCR. SCR.
White Oak Creat Office 7	Nemicky River	KIVER	5100205	GARRARD	S-PS	3	3	က	9/16/1999	WAH, FC. PCR. SCR.
White Oak Creek 00 to 28	Kentucky River	KIVEK	5100204	ESTILL	0	-	3	Н		
White Oak Creek 0.0 to 3.4	Kentucky River	מאאס	5100205	GAKKAKD	SN-S	1	9	6	10/14/2004 - 1/31/2008	
Wilgreen Lake	Kentucky River	RESERVOIR	5100205	MADISON	SAS.	SN-0	200	+	2/1/2006	
Winchester Reservoir (Lower Howards Creek)	Kentucky River		5100205	CLARK	9	9 69	2 60	2,50	3000000	WAH FC PCR, SCR
Wolf Run 0.0 to 4.1	Kentucky River	RIVER	5100205	FAVETTE	5-PS	S-NS	3		1/13/2000	WALE FOR BOD CON
								,	WINESON	איאח, רט, רטה, סטה, טיים

Control   Revert   RIVER   STOOTO   LEGIE   LEGING   RIVER   STOOTO   LEGIE   LEGING   RIVER   STOOTO   RIVER   RIVER   STOOTO   RIVER   STOOTO   RIVER   RIVER   STOOTO   RIVER   STOOTO   RIVER   RIVER	Waterbody and Segment	Glasin	Marter Brede Trees								
Control   Cont	Wolfpen Creek 0.0 to 3.3	Kentucky Rivar	DATE DOOR INDE	P-DIDIL HUC	County	WAHICAH	Н	H	н	The state of	
Colored   Colo	Woolen Creek 0,0 to 3,0	Kentucky River	DAVED	5070010	MENIFEE	2-F8	3	3	+	SCHOOL VIEW	Designation Uses
1.00   1.00	A.J.Jolly Lake (Campbell County Lake)	Licking River	RESERVOID	5100202	LESUE	5-PS			9 6	SACOTORIO CONTRACTORIO	WAH, FC, PCR, SCR, DWS
1,000,00   1,000,00	Vilson Creek 0.0 to 4.9	Licking River	BANED	2100101	CAMPBELL	2-F8	-		. 6	RICHARDON A	WAH, FC, PCR, SCR
1.00	Sanklick Creek 0.0 to 3.5	Licking River	BAVED	5100101	FLEMING	8-NS				205/2004	WAH FC PCR, SCR
1,000   1,00	Banklick Creek 3.5 to 8.2	Lichter River	DAVED	1000010	KENTON	S-PS		100	0	THE PROPERTY.	WAH FC PCR SCR DWS
1,000   1,00	Banklick Creek 8,2 to 19,2	Licking River	DAVED	5100101	KENTON	S-NS			9 (*)	Areanone	WAH FC PCR SCR DWS
Colong Name   Regist   STOCOTO   MARRINGER   STOCOTO   MARRINGER	Seaver Creek 10.0 to 14.4	Licking River	RIVER	5100101	KENTON	5-PS	5-PS	0	9 69	SOUND AND AND AND AND AND AND AND AND AND A	WAH FC, PCR SCR
1,000,00   1,000,00	Server Creek 7.6 to 15.4	Licking River	RIVER	Sennene Asposne	MENIPEE	5-PS	o	60	m	3/12/2001	WAH EC BOR SOR DWS
1.0	Sacks Creek 0.0 to 3.4	Licking River	RIVER	200000	HARRISON	2-FS	m	69	6	10/19/2005	WAL FO DOE SOR, DWS
1.00   1.00	Hackwater Creek 3.8 to 11.7	Ucking River	RIVER	2100102	BOUMBON	5-PS		3	3	8/1/2000	WAH EC BOD SOR DIVE
Colored National Colo	lanket Creek 0,0 to 1.9	Lidong River	RIVER	K400404	MORGAN	2-FS		FS	0	9/20/2005	WAN EC DOD COD DING
6.0         Licking Rever         FRIEND         6 (2007)         REMINISTER         6 (2007)         8 (2007)         REMIN	Done Creek 0.0 to 5.0	Licking River	RIVER	2100100	PENDLETON	2-F8		20	0	3/4/2005	WAH EC DOD GOD
Color   Colo	otta Fork 0.0 to 2.1	Licking River	DIVED	200000	BOURBON	5-PS	69	67	67	BAAZOOO	WALL EC DOS SON SAME
1.0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Owman Creek 0.0 to 6.0	Licking River	DAVED	1000101	MENIFEE	2-FS	en	3	0	400AMONA	WAN TO FOR SCR DWS
Colored Review   Friend   Colored Review	roke Leg Creek 0.0 to 1.0	Lickton River	DIVER	10toole	KENTON	2-FS	63	m	100	SUNCACUL	WAT TO POR SOR
Comparison   Com	roke Leg Creek 1.0 to 4.4	Linking Division	RIVER	1010010	MORGAN	S-PS	3	3		40memore	WAH, FC, PCR, SCR
Color   Colo	rushy Fork 0.0 to 2.2	CLANING NIVE	KIVEK	5100101	MORGAN	S-PS	63			CONTRACTOR	WAH, FC, PCR, SCR
1,000,00   MANUAL MACHINE	rushy Fork 0.7 to 5.6	LICKING KINEL	RIVER	5100101	FLEMING	2-58	61		0 0	DV24/ZVV3	WAH FC PCR SCR
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	rushy Fork 0.0 to 5.8	LICKING KIVE	RIVER	5100101	MENIFEE	2.48	63	2 6	000	ON STAND	WAH, FC, PCR, SCR
Control   Cont	ucket Branch 0 0 to 1 0	LICANG KIVET	RIVER	5100101	PENDLETON	5-PS	177	2 00	200	TUZDAZADO	WAH, FC, PCR, SCR
Colong River   FRICER   STOOTO   ROWAN   2-75   5-10   5-10   5-10   5-10	ull Fork 2 4 to 4.4	LIGHTING RIVER	RIVER	5100101	MORGAN	2-58	177		000	0002500	CAH FC PCR SCR
2.         LOGING River         RAFER         6100101         IMAGORNIA         G-85         5-85 </td <td>umine Fork 0.0 to 3.25</td> <td>LICKING HIVE</td> <td>RIVER</td> <td>5100101</td> <td>ROWAN</td> <td>2-58</td> <td>(7)</td> <td></td> <td>2 0</td> <td>SWAWAGO</td> <td>CAH, FC, PCR, SCR</td>	umine Fork 0.0 to 3.25	LICKING HIVE	RIVER	5100101	ROWAN	2-58	(7)		2 0	SWAWAGO	CAH, FC, PCR, SCR
Library River   FREEWORK   STOOTO   MARGAM   5-15   3   3   3   3   3   3   3   3   3	aney Creek 0.0 to 4.2	LICENTING POWER	RIVER	5100101	MAGOFFIN	S-NS			2 67	100000000	WAH, FC, PCR, SCR
Color	artisle Water Supply Lake	Localing royal	RIVER	5100101	MORGAN	5-PS			2 6	2004000	CAH FC, PCR, SCR
Color	nekey Fork 0.0 to 2.3	Locality Paver	KESEKVOIR	5100102	NICHOLAS	e	en		2,58	4 CHARDONE	MAN CAN FO POR SOR
Color	sesidy Creek 0.0 to 3.9	LACANING POWER	MIVER	5100101	MORGAN	S-NS			2 00	ADDITION OF THE PERSONS	WAH, CAH, FC, PCR, SCR, DW.
Color Reverence   Color Reve	sealdy Creek 0.5 to 5.0	Liebing River	KIVER	5100101	FLEMING		11		en	1/1/2004	WALL FOR SOR
Color   Colo	ave Run Lake	Liching River	DESERBITORIO	5100101	NICHOLAS	m			m	( Partie )	WAN EC DOD SOR
Colored River   Colored Rive	adar Creek 0,0 to 1,7	Liciting River	DOVED	חוסוסום	ROWAN	2-FS			m	1/3/2008	CAH FIT BOR GOOD
Licking River   River   Front   Licking River   River   Front   Licking River   River   Front   Fron	visity Crastic 0.0 to 4.3	Licking River	RAFE	100000	ROBERTSON	2-58			6	10/27/2005	WAH FC PCR SCR
Heing River   River   Signio   February   Signio   S	artos Run 0.0 to 2.1	Lictolng River	RIVER	A100101	MANOWAN	0000	0		e	5/12/2001	WAH, FC. PCR. SCR.
1	ffee Creek 0.0 to 4,1	Lictoria River	RIVER	5100101	MOBOAN	2010	200	9	6	10/27/2005	WAH, FC, PCR, SCR
Licking River   RIVER   5/00/102   GRANT   2-FS   3   3   3   3   4/2/2000	ooks Branch 0.0 to 2.9	Licking River	RIVER	5100101	MONTGOMERY	2.58	7 5	200	0	9/20/2005	WAH, FC, PCR, SCR
10.04.0   Licking River   RIVER   5100102   ELEMING   5FS   4A-PS   3   3   3   10.2712005	oper Run U.U to 10.1	Licking River	RIVER	5100102	BOURBON	SN	+	200	73 6	4/28/2004	WAH, FC, PCR, SCR
Uniting River   RIVER   5100101   FLEMING   5-PS   44-PS   3   3   3   4702000	Sopertown Creek U.U to 4.8	Licking River	RIVER	5100102	GRANT	2-FS	+	200	73 6	8/2/2000	WAH, FC, PCR, SCR
Second	PARTICIPATION OF 10 3.0	Licking River	RIVER	5100101	FLEMING	1		0 6	2 6	10/27/2005	CAH, FC, PCR, SCR
Liching River   RIVER   5100101   ROWAN   2-FS   3   3   3   3   4922001   M	When Creat Of to 50	Licking River	RIVER	5100101	FLEMING	!	1		2 6	AZUZUZI AZUZUZI	WAH, FC, PCR, SCR
9.1         Licking River         RIVER         5100101         NONOTOT         2-FS         3         3         3         4/9/2001           3.6         Licking River         RIVER         5100102         HARRISON         2-FS         3         3         3         4/9/2001           3.6         Licking River         RIVER         5100101         KENTON         2-FS         3         3         3         4/1/2000           1.6         Licking River         RIVER         5100101         KENTON         2-FS         3         3         3         4/1/2000           Licking River         RIVER         5100101         KENTON         2-FS         3         3         3         3         3/1/2000           Licking River         RIVER         5100101         KENTON         5-FS         3         3         3         3         3/1/1/2005           Licking River         RIVER         5100101         MORGAN         5-FS         3         3         3         3         3         3/1/1/2005           Annext         Licking River         RIVER         5100101         MORGAN         5-FS         3         3         3         3         3/1/1/2005	and Creek 5.9 to 10.0	Licking Royal	RIVER	5100101	ROWAN	2-FS			0	SUCCOCAS	WALES DOD ONE DELLO
B.B.         LICHING River         RIVER         \$100102         HARRISON         2.FS         3         3         3         3         4/4/2000           1.66         LICHING River         RIVER         \$100102         HARRISON         2.FS         3         3         3         3         3/10200           1.04         LICHING River         RIVER         \$100101         MORGAN         2.FS         3         3         3         3/10200           1.04         LICHING River         RIVER         \$100101         MORGAN         5.PS         3         3         3         3/10200           1.04         RIVER         \$100101         ROWAN         5.PS         3         3         3         4/8/2001           1.04         RIVER         \$100101         ROWAN         5.PS         3         3         3         4/8/2001           1.04         RIVER         \$100101         MORGAN         5.PS         3         3         3         4/8/2001           1.04         RIVER         \$100101         MORGAN         5.PS         3         3         3         1/1/12006           1.04         RIVER         \$100101         MORGAN         5.PS         3	boked Creek 0.0 to 9.1	Licking River	KIVEH	5100101	ROWAN	2-FS	-		m	4/9/2001	WAH EC DOD BOD
Licking River RIVER   5100101   FRATISON   2-FS   3   3   3   3   3   3   3   3   3	boked Creek 0.5 to 8.8	Licking River	DAVED	5100101	NICHOLAS	6	-		m	8/14/2000	WAH FC PCR SCR
Licking River         RIVER         5100101         MORGAN         2+FS         3         3         36/2001           Licking River         RESERVOIR         5100101         KENTON         2+FS         3         3         3         3         3/2/2005           Licking River         RIVER         5100101         KENTON         5+PS         3         3         3         3         4/1/1986           Licking River         RIVER         5100101         MORGAN         5+PS         3         3         3         4/1/1986           Licking River         RIVER         5100101         MORGAN         5+PS         3         3         3         4/1/1986           Licking River         RIVER         5100101         MORGAN         5+PS         3         3         3         4/1/1986           Licking River         RIVER         5100101         MORGAN         5+PS         3         3         3         1/1/2005           Licking River         RIVER         5100101         MORGAN         5+PS         3         3         1/1/2005           Licking River         RIVER         5100101         FLEMING         5+PS         3         3         1/1/2005	Lison Creek, 0.0 to 8,6	Licking River	BAVED	20100102	MAKKISON	2-FS	-		m	10/27/2005	WAH. FC. PCR. SCR
Licking River   RESERVOR   5100101   KENTON   5-PS   3   3   3   3   3   3   3   3   3	wills Fork, 0.0 to 8.5	Licking River	RIVER	5100101	MODERA	2-50	+		3	3/5/2001	WAH, FC, PCR, SCR
Licking River RIVER   5100101   FLEMING   5-NS   3   3   3   3   4/1/1998	se Run Lake	Licking River	RESERVOIR	5100101	KENTON	24.7	1		60	9/20/2005	WAH, FC, PCR, SCR
Licking River RIVER 5100101 ROWAN 5-PS 3 3 3 3 44/14888   10/27/2005	tly Branch 0.0 to 2.3	Licking River	RIVER	5100101	FLEMING	1	1	200	m	8/26/2004	WAH, FC, PCR, SCR
Color   Colo	y Creek 0.0 to 2.5	Licking River	RIVER	5100101	ROWAN	1	1		000	4/1/1998	WAH, FC, PCR, SCR.
Licking River RIVER 6100101 MORGAN 5-PS 3 3 3 3 3 4/422001	For to Both 42 T	Licking River	RIVER	5100101	MORGAN	5-PS	6		2 6	TUK/ FEUUS	WAH, FC, PCR, SCR
Shared         Licking River         RIVER         5100101         MORGAN         5 m s         3 m s	Fork 4 0 to 10 5	Licking River	RIVER	5100101	MORGAN	5-PS	0		9 69	ACCOUNT.	WAH, PC, PCR, SCR
3.4         Licking River         RIVER RIVER         5100101         ROMAN         5 8         3         3         2-FS         11/15/2008           16.0         Licking River         RIVER RIVER         5100101         BATH         2-FS         5-NS         3         3         3         11/15/2008           16.0         Licking River         RIVER         5100101         FLEMING         5-PS         4A-NS         3         3         3         11/15/2006           2.8         Licking River         RIVER         5100101         FLEMING         5-PS         4A-NS         3         3         1/8/2001           2.0         Licking River         RIVER         5100101         FLEMING         5-PS         4A-NS         3         3         1/8/2001           2.0         Licking River         RIVER         5100101         FLEMING         2-FS         4A-NS         3         3         7/8/2001           2.0         Licking River         RIVER         5100101         FLEMING         3         3         3         3         1/1/2006           Licking River         RIVER         5100101         FLEMING         3         3         3         3         1/1/2006 <td>ans Branch Impoundment</td> <td>Licking River</td> <td>BREEDANIO</td> <td>5100101</td> <td>MORGAN</td> <td>S-NS</td> <td>60</td> <td>63</td> <td>0</td> <td>8/3/2000</td> <td>WAH EC PCP SCR</td>	ans Branch Impoundment	Licking River	BREEDANIO	5100101	MORGAN	S-NS	60	63	0	8/3/2000	WAH EC PCP SCR
Licking River RIVER   5100101   MUTAN   2-FS   3   3   3   11/1/2006   115.0   Licking River RIVER   5100101   RIVER   SIVER   SIVER	nnins Branch 1.5 to 3.4	Licking River	PERENTED	100000	ROWAN	m	60		2.FS	11/15/2005	WAH FC. PCR SCR
Licking River RIVER   5100102   BOLRBOON   5-NS   3   3   3   1/8/2001   WANI, FC, PCR, PCR, PCR, PCR, PCR, PCR, PCR, PC	it Creek 0.0 to 0.9	Licking River	RIVER	5400404	MUHGAN	200	-	6	m	11/1/2005	WAH, FC, PCR, SCR
Licking River RIVER   5100101   FLEMING 5-PS   3 3 3 3 1822000   WANI, FC, PCR   130   1822001   WANI, FC, PCR   130   1822001   WANI, FC, PCR   120	If Run 0,0 to 2.2	Licking River	RIVER	5100102	ROHBROM	240	-		0	1/5/2001	WAH, FC, PCR, SCR
Licking River RIVER	ming Creek 12.8 to 16.0	Licking River	RIVER	5100101	FLEMING	-		6	0	B/3/2000	PCR.
2.8 Licking River RNER 5100101 FLEMING 5-PS 4A-NS 3 3 16/2001 WAN, FC, PCR, 20.8 Licking River RESERVOR 5100101 FLEMING 3 3 3 16/2001 WAN, FC, PCR, 20.8 Licking River RESERVOR 5100101 FLEMING 3 3 3 2-FS 11/15/2005 WAN, FC, PCR, 11/15/2005 WAN, FC, PCR, 20.8 11/15/2005 WAN, FC, PCR, 20.8 11/15/2005 WAN, FC, PCR, 20.8 3 3 3 11/1/2005 WAN, FC, PCR, 20.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	Ming Creek, 20,8 to 39,4	Licking River	RIVER	5100101	FLEMING	1	:		200	1/9/2001	WAH, FC, PCR, SCR
Liching River RESERVOR 5100101 FLEMING 2-FS 4A-NS 3 3 3 7/82004 WANI FC PCR.  Liching River RESERVOR 5100101 FELDILICIA 3 3 3 2-FS 11/15/2005 WANI FC, PCR.  Liching River RIVER 5100101 FEDDLETON 2-FS 3 3 3 11/1/2006 WANI, FC, PCR.	ming Creek 0.0 to 12.8	Licking River	RIVER	5100101	FLEMING	!	!		0 60	1,82000	WAN ET DOB OCK
LICHOLOGIUM RIVER RIVER STATES A 3 3 3 3 2-FS 11/15/2005 WANI, FC, PCR.	eminostaro Lata	Licking River	RIVER	6100101	FLEMING		,		9	7/8/2004	FO. PCR
Lichtung Niver RIVER 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	our Creak DO to 2.2	Linking River	RESERVOIR	100000	FLEMING	m	7		2-FS	11/15/2005	PCR
	K Creek 0.0 to 10.1	Lieblac Riuse	GIVEN	200000	PENDLETON		_		m	11/1/2005	PCR
											CLASSIC MALE AND ADDRESS.

Fox Creek 20.1 to 22.7	Licking River	Water Body Type	8-Digit HUC	County	WAHICAH	PCR	SCR Fish Consumption	Н	DWS	Annual Date	
Grassy Creek 0.0 to 1.3.	Licking River	AIVER	5100101	FLEMING	SS	-	-	+		Species Date	Designated Uses
Grassy Creek 4,6 to 10.0	icking River	RIVER	5100101	PENDLETON	က	2-FS			2 6	9/4/2000	WAH, FC, PCR, SCR
Grassy Lick Creek 0.0 to 4.6	Liches Blue	KINEK	5100101	MORGAN	S-PS	m	1		2 (	DON'S LANGE	WAH, FC, PCR, SCR
Greentriar Lake	PAN AIR	KIVEK	5100102	MONTGOMERY	2-FS	67			200	2002/1/1	WAH, FC, PCR, SCR
Grovers Creek 0.5 to 3.4	Licking River	RESERVOIR	5100101	MONTGOMERY	2-FS	+	00	-	2 6	1/21/2004	WAH, FC, PCR, SCR, DWS
Hillsboro Branch 0.0 to 2.7	Licking Diver	AN CONTRACT	5100101	PENDLETON	2-FS				2 6	44.00000	WAH, FC, PCR, SCR
Hinkston Creek 0.0 to 12.6	Loking Direct	RIVER	5100101	FLEMING	2-FS	6			0 6	200000	WAH, FC, PCR, SCR
Hinkston Creek 20.8 to 31.0	Licking River	KIVEK	5100102	BOURBON	2-FS	-	S	60	0 6	SACKOUS	WAH, FC, PCR, SCR
Hinkston Creek 31.0 to 33.3	Listing Direct	KIVEK	20100102	BOURBON	2-FS	5-PS			000	OLAMONO.	WAH, FC, PCR, SCR, DW
Hinkston Creek 41.8 to 49.1	Licking River	RIVER	5100102	NICHOLAS	2-FS	0	8		0 60	8/4/2000	WAH, FC, PCR, SCR
Hinkston Creek 51.5 to 65.9	Licklon River	DAVER	2010016	BOURBON	5-PS	SN-S				8/4/2000	WAH, FC, PCR, SCR
Hinkston Creek 68.0 to 71.5	Licking Dhas	ANNER	2010016	MONTGOMERY	S-NS	m	3		0 60	40/4/4000	WAH, FC, PCR, SCR
Hinkston Creek 13.3 to 14.3	Licking River	KIVEK	5100102	MONTGOMERY	2-FS	8			0 60	1/10/2004	WAH, FC, PCR, SCR, DWS
Houston Creek 0.0 to 9.0	Living Diese	RIVER	5100102	BOURBON	က	e			ES	14/2/2001	WAH, FC, PCR, SCR, DW
Houston Creek 9.0 to 12.7	Lichion Divise	RIVER	5100102	BOURBON	69	SN-S	9			8/44/2000	WAH, FC, PCR, SCR
Hutchison Creek 0.0 to 5.4	Liching Divisi	RIVER	5100102	BOURBON	S-PS	<b>е</b>	3		0 6	877000	WAN, P.C. PCR, SCR
Indian Creek 0.0 to 0.7	Indian Diver	ANA	5100102	BOURBON	9	က	9		62	200	MALL CO. TOT, BOX
Johnson Creek 0.0 to 3.1	Licking Diver	AIVER	5100102	BOURBON		40	SZ		3	90292005	WALL CO DOD SOR
Johnson Creek 0.0 to 3.5	Liching Diver	ANA	1010016	MAGOFFIN	က		9		6	1/9/2001	WALL ED DOD SON
Johnson Creek 14.6 to 21.8	Linding Direct	RIVER	1010016	ROBERTSON	2-FS	-	S		23	12/8/2005	MAN CO DOD DOD
Kincaid Lake	LICALING KING	KIVEK	5100101	FLEMING	2-FS	-				SOUTH OF THE PERSONS	אינה ייני ייני איני
Knox Hill Branch 00 to 2 8	LICKING KINGS	RESERVOIR	5100101	PENDLETON	5-PS	3	S		0 6	BMEMORE	WAH, FC, PCK, SCK
ake Camino	LICKING KIVE	RIVER	5100101	ВАТН	2-FS	Ė	-	-	0 0	44 24 2000	WAH FC PCK, SCR
Lass Creak Of to 4.3	Licking Kiver	RESERVOIR	5100102	NICHOLAS	2-FS		2-FS 3			anamona anamona	CAH, FC, PCK, SCK
I all Entrithin Oat Creat Control	LICKING KIVER	RIVER	5100101	MASON	5-PS	t		-	0 0	44 10 0000	WAH, FC, PCR, SCR
List Creek On to 3	Licking River	RIVER	5100101	MORGAN	5-PS	67	300		200	CONTROLO	WAH FC PCR SCR
Picking Dines Of the App	Licking River	RIVER	5100101	MAGOFFIN	S-PS	62		-	2 0	44 5 5000	WAH FC PCR, SCR
Linding Diver 400 Etc 400 E	Licking River	RIVER	5100101	CAMPBELL	2-FS	S-ps	9 6		200	11/3/2005	WAH, FC, PCR, SCR, DWS
Links   Diver 440 2 to 420 4	Licking River	RIVER	5100101	NICHOLAS	m	67			200	2007/9/7	WAH FC PCR SCR DW
LICATION Diver 44 0 to 24 5	Licking River	RIVER	5100101	NICHOLAS	60	2-FS 2			2-50	5002/5/11	WAH FC PCR, SCR
I intim Diver 445 3 to 449 8	Licking River	RIVER	5100101	CAMPBELL	6	+	3	4	2 6	CONTINUE OF THE PERSON	WAH FC PCR SCR
Licking River 224.3 to 241.3	LICKING RIVER	RIVER	5100101	FLEMING		-	2-FS 3		2 60	3/8/2004	WAH, FC, FCK, SCK DWS
Licking River 265.0 to 271.6	Liching River	RIVER	5100101	MORGAN		5-NS 5			3	12/7/2005	WAN SO OCO CE
Licking River 271 6 to 294 1	Lichian Direct	KIVEK	5100101	MAGOFFIN		3	3		3	11/3/2005	WALL OF DOG ON
Licking River 31,0 to 37.6	Liching Diese	RIVER	100000	MAGOFFIN		$\dashv$			3	8/8/2000	WAH EC POR SOR DW
Licking River 4.8 to 14.9	Indian Blue	NIVER	רטוסטופ	KENTON		5-PS 2			9	12/8/2005	WAH FC PCR SCR DW
Liciding River 52.8 to 53.8	Licking River	RIVER	5100101	CAMPBELL	0	-+	3		3	2/8/2001	CAH, FC. PCR, SCR. DW.
Licking River 174.4 to 180.8	Licking River	RIVER	5100101	POWAN	200	-		2	2-FS	11/3/2005	WAH FC PCR SCR
Licking River 294.1 to 302.4	Licking River	RIVER	5100101	MAGOREIN	C-LO	24.0	200	13	FS.	11/3/2005	WAH FC PCR SCR
Licking River 76.8 to 88.9	Licking River	RIVER	5100101	HARRISON	2-63	U	200		0	4/1/1988	WAH, FC, PCR, SCR
Little Beaver Creek 0.0 to 3.3	Licking River	RIVER	5100101	HARRISON	2.03	+	200		200	12/8/2005	WAH FC PCR SCR
Little Flat Creek 0.0 to 2.3	Licking River	RNER	5100101	BATH	2,50	2 0			200	11/3/2005	WAH, FC, PCR, SCR
Little Stoner Creek 0.0 to 5.0	Licking River	RIVER	5100102	CLARK	2	E.NC	2 6		200	8/8/2000	WAH, FC, PCR, SCR
Lockegee Branch 0.0 to 1.5	Licking River	RNER	5100101	ROWAN	250	2			200	8/14/2000	WAH FC PCR SCR
Locust Creek 0.0 to 11.8	Licking River	RIVER	5100101	FLEMING	Ses	0 6	200		200	9/2//2005 9/2//2/005	WAH, FC, PCR, SCR
Logan Run 0.0 to 2.3	Licking River	RIVER	5100101	EI FMING	T	AA NIC			200	11/4/2005	WAH FC PCR SCR
Westh Fork 0.0 to 3.0	Licking River	RIVER	5100101	MACOFEN	200	2	200	1	9	3/23/2001	WAH, FC, PCR, SCR
Middle Fork Licking River 0 to 2.5	Licking River	RIVER	5100101	MAGOFFIN	2.50	FNC	200		7	11/4/2005	WAH FC PCR SCR
Will Creek 0.0 to 2.6	Licking River	RIVER	5100101	ВАТН	2,53	2		0	2 (	4/9/2001	WAH FC. PCR. SCR.
Mill Creek 0.0 to 21.6	Licking River	RIVER	5100102	HARRISON	S-PS	0 00	0 6		2 6	SON COUNTY	WAH, FC. PCR. SCR.
IMH Crook U.U to 6.4	Licking River	RIVER	5100101	MASON	2-FS	67		-	2 6	44/4/2003	WAH, FC, PCR, SCR
MATOR CITES U.U 10 2.8	Licking River	RIVER	5100101	MORGAN	2-FS	m			96	SUDUCIONE	WALL FO POR SOR
North Ends I Intelna Diver 18 5 to 52 5	LICKING KIVE	RIVER	5100101	MORGAN	2-FS	60	3		9	11/4/2005	WAH FC PCR SCR
North Ends Inking Blues 23 to 18 5	LICANIO NIVE	KIVEK	1010016	BRACKEN					3	3/6/2001	WAH FC PCR SCR
North Fork Licking River 12.0 to 13.1	Licking River	RIVER	5100101	BRACKEN	2-FS	-+	S		63	11/7/2005	WAH, FC, PCR, SCR
North Fork Licking River 8.4 to 12.0	Licking River	RIVER	510010	MORGAN	1	500			3	8/22/2004	WAH, FC, PCR, SCR
North Fork Triplett Creek 1.2 to 14.9	Licking River	RIVER	5100101	ROWAN	+	+	2-F3			8/20/2005	WAH FC PCR SCR
North Fork Triplett Creek 14.9 to 15.9	Licking River	RIVER	5100101	ROWAN	2 50	2	2				WAH, FC, PCR, SCR
October Company of the Co.					7	×.				A MAR MANA	

Waterbody and Segment	Besin	Water Body Type	8-Diale HUC	Coumbs	- WALLINGS						
Passenger Branch 0 0 to 1 8	Licking River	RIVER	5100101	MORGAN	FANCAR	PCR SC	B Fish Consumption	DWS	Assess Date	Designated Uses	1
Phillips Creek 0.0 to 5.3	LICKING KIVEL	RIVER	5100101	ROWAN	2-FS		0	0	11/4/2005	WAH, FC, PCR, SCR	
Poplar Creek 0.0 to 2.9	LICANING KINGE	RIVER	5100101	CAMPBELL	0	S-NS	200	me	1/18/2001	WAH, FC, PCR, SCR	
Powder Lick Branch 0.0 to 3.5	Lichard River	RIVER	5100101	FLEMING	0	AA-NS	200	000	3/8/2001	WAH FC PCR SCR	
Prickly Ash Creek 0.0 to 3.1	Licking River	RIVER	5100101	LEWIS			o en	200	1/1/2001	WAH, FC, PCR, SCR	
Puncheon Camp Creek 0.0 to 1.1	Licking River	RIVER	10010010	BATH	S-NS	3	60	0	RAPZOON	WAH FC PCR SCR	
Raven Creek 0.0 to 5.5	Licking River	RIVER	5100102	MAGOFFIN	6	5-NS 3	m	3	8/14/2000	WAH FC PCR SCR	
Book List on to a	Licking River	RIVER	5100101	ROWAN	242	000	m	6	11/8/2005	WAH FC PCR SCR	I
Rockbours Creat Of to 4 8	Licking River	RIVER	5100101	FLEMING	2 "	200	6	0	11/8/2005	WAH FC PCR SCR	
Sat List Creat 20 to 80	Licking River	RIVER	5100101	MORGAN	2 60	200	69	0		WAH FC. PCR, SCR	
Sat Lich Creat B to 44 0	Licking River	RIVER	5100101	ВАТН	A.De	1	8	m		WAH FC PCR SCR	
Salt Coring Depart 07 to 30	Licking River	RIVER	5100101	ВАТН	2,50	200	6	60	6/1/1999	WAH, FC, PCR, SCR	
Canad John Carel, 60 to 64	Licking River	RIVER	5100101	MENIFFF	2.50		9	6	6/30/2004	WAH FC PCR SCR	
Sand list Count Of the Pa	Licking River	RIVER	5100101	FLEMING	250	-	2	6	11/8/2005	WAH, FC. PCR. SCR.	
Sand Lich Creek U.O to 3.8	Licking River	RIVER	5100101	FIEMING	200	2 0		60	6/23/2005	WAH, FC, PCR, SCR	
DEFORM CTOOK LINE	Licking River	RESERVOIR	5100101	FIFMING	250	-	3	0	8/1/1989	WAH, FC, PCR, SCR	
Sawyers Fork U.U to 3.3	Licking River	RIVER	5100101	KENTON	200	₹		0	8/28/2005	WAH, FC. PCR. SCR	
Scrubbrass Creek 0.0 to 1.6	Licking River	RIVER	5100101	NICHOI AC	FAIG	1	69	6	11/8/2005	WAH, FC. PCR. SCR.	
Sharnon Creek U.O to 8.7	Licking River	RIVER	5100101	MASON	0 0	1	60	က	8/9/2000	WAH FC PCR. SCR	
Short Creek 0.0 to 7.9	Licking River	RIVER	5100102	PENDI ETON	2.00	1	m	က	11/8/2005	WAH, FC, PCR, SCR	
Slabcamp Creek 0.0 to 3.7	Licking River	RIVER	5100101	POWAN	27.0		67	6	11/8/2005	WAH, FC. PCR. SCR.	
Slate Creek 0.0 to 13.6	Licking River	RIVER	5100101	BATE	27.0	+		m	9/20/2006	WAH, FC. PCR. SCR.	
State Creek 17.2 to 18.2	Licking River	RIVER	5100101	TAM	1	5-PS 2-FS	2	3	11/9/2005	WAH FC PCR. SCR.	1
State Creek 36.1 to 37.1	Licking River	RIVER	5100101	MONTGOMEDY	1	0		2-FS	11/9/2005	WAH FC PCR SCR	
State Creek 42.8 to 52.2	Licking River	RIVER	5100101	MONTGOMERY	1	200	60	2-FS	11/15/2005	WAH FC PCR SCR	1
Slate Creek 52.2 to 56.6	Licking River	RIVER	5100101	MENICEE			3	3	2/15/2001	WAH FC PCR SCR	
Sleepy Run 0.0 to 2.8	Licking River	RIVER	5100104	EI EMING	,	3	en	6		WAH FC PCR SCR	1
Somersel Creek 0.0 to 4.4	Licking River	RIVER	5100102	NICHOL AS	T	20	69	3	\$272002	WAH, FC, PCR, SCR	
South Fork Grassy Creek 10.4 to 15.2	Licking River	RIVER	5100101	PENDI FTON	0	+				WAH FC PCR SCR	
South Fork Licking River 11.6 to 16.95	Licking River	RIVER	5100102	PENDLETON	T	2.56 2.5		m	11/9/2005	WAH, FC, PCR, SCR	
South Fork Licking River 16.6 to 27.2	Licking River	RIVER	5100102	HARRISON	T	+		0	8/20/2005	WAH, FC, PCR, SCR	
South Fork Licking River 2.0 to 6.8	Licking River	RIVER	5100102	PENDLETON	2.58	2.50	200	7	8/11/2000	WAH, FC, PCR, SCR	
Court Food Literature Divers 64 to 50 d	Licking River	RIVER	5100102	HARRISON	T	+		200	0071178	WAH FC PCR SCR	
South Fork Linear Diver 8 to 44 2	Licking River	RIVER	5100102	HARRISON	e	-		2.50	4414470006	WAH, FC, PCR, SCR	
Spraine Creek (10 to 17	Loxing River	RIVER	5100102	PENDLETON	2-FS				8/11/2000	WAH PC PCK SCR	1
State Road Fork 0.0 to 1.1	Liching River	RIVER	5100101	MONTGOMERY	S-PS	60	60	0	11/14/2005	WALL FOR BORD AND	1
Stonecoal Branch 0.0 to 2.5	Licking Diver	AIVER	100000	MAGOFFIN	6	60	3	e		WAH EC POR SOR	T
Stoner Creek 0.0 to 5.5	Licking River	DAVED	5100101	ROWAN	2-FS	-	e	6	4/11/2001	WAH FC PCR SCR	T
Stoner Creek 16.7 to 17.3	Licking River	RIVER	8400102	BOURBON	1	5-PS 2-FS		က	9/20/2005	WAH, FC. PCR. SCR. DWS	U.
Stoner Creek 17.3 to 30.1	Licking River	RWFR	5100102	NOGO IOG		$\rightarrow$		2-FS	11/14/2005	WAH, FC PCR SCR	
Stoner Creek 44.8 to 60.5	Licking River	RIVER	5100102	NO ROLLON	1	2-1-2	8	6	8/14/2000	WAH, FC, PCR, SCR, DWS	S
Stoner Creek 5.5 to 15.0	Licking River	RIVER	5100102	NO IRRON	200	4	3	0	3/6/2001	WAH FC PCR SCR	
Stoner Creek 60.5 to 72.2	Licking River	RIVER	5100102	CIARK	200	0	6	0	8/14/2000	WAH FC PCR SCR	
Storry Creek 0.0 to 3.0	Licking River	RIVER	5100101	NICHOLAS	S.N.S.	2 6	2	0		WAH, FC, PCR, SCR	
Straight Creek 0.0 to 1.8	Licking River	RIVER	5100101	MORGAN	S-NS	2 6	2 6	200	8/10/2000	WAH FC PCR SCR	
Threamile Creek O.44.47	Licking River	RIVER	5100102	BOURBON			2.58	2 (	8710Z000	WAH FC PCR SCR	1
Town Branch O O to 4.0	Licking River	RIVER	5100101	CAMPBELL	S-NS	5-NS		9 6	10/4/4/000	WAH FC PCR SCR	1
Town Branch 0.3 to 2.3	Licking River	RIVER	5100101	FLEMING		4A-NS 3	6	e	4/11/2004	WAN TO POR SOR	1
Townsend Creek 0.0 to 4.9	License Street	KIVER	5100102	ВАТН		3	60	es	9/20/2005	WAH FO POR SOR	I
Townsend Creek 4.9 to 15.4	Liching River	RIVER	5100102	BOURBON		5-NS 3	n	3	11/14/2005	WAH FC PCR SCR	
Trace Fork 0.0 to 3.1	Licking River	DIVED	200000	NORMOR	2-FS	3	60	9	11/14/2005	WAH FC PCR SCR	
Triplett Creek 12.3 to 15.7	Licking River	RIVER	510010	MAGOFFIN	20-0	9	m	3	8/10/2000	WAH FC PCR SCR	
Triplett Creek 15.7 to 20.5	Licking River	RIVER	5100104	DOWAN	200	+	60	2-FS	3/25/2002	WAH, FC, PCR, SCR	
Triplett Creek 5,9 to 12,3	Licking River	RIVER	5100101	ROWAN	T	E NO COO		0	3/12/2001	WAH, FC, PCR, SCR	
UT to Flat Creek 0.0 to 2.2	Licking River	RIVER	5100101	BATH	2-FS	+		70	12/1/2005	WAH, FC, PCR, SCR	
IT to hair Creek 0.0 to 2.1	Licking River	RIVER	5100101	FLEMING		22	9 69	9 69	1/1/2004	WAH FO POR SOR	1
UT to Shannon Creek 0.0 to 2.2	Lichton Bluer	KIVER	5100101	FLEMING	S-NS	3 3	8	9	8/29/2004	WAH FC PCR SCR	
	PERMIT MARKET	LINER	rotoore	MASON	2-FS	3	6	0	4/29/2004	WAH, FC, PCR, SCR	
											1

	UT to UT to Lase Greek 0.0 to 1.6  Weleth Fork 0.0 to 1.0  Weleth Fork 0.0 to 9.8  Wilkiams Creek 0.0 to 5.3  Wilkiams Creek 0.0 to 10.2  Wilkiams Creek 0.0 to 10.2  Alsom Creek 1.4 to 3.9  Arabe Fork 0.0 to 5.1	Licking River	RIVER RIVER RIVER	5100101 5100101 5100101	MASON	MAHICAH 5-NS				Assess Date 11/3/2005 11/14/2005	Designated Uses WAH, FC. PCR, SCR	
Library Review   Friend   Frieddom   Friend   Friend   Friend   Friend   Friend   Friend   Frieddom   Friend   Frieddom   Friend   Friend   Friend   Friend   Friend   Friend   Frieddom   Friend   Frieddom   Friend   Friend   Friend   Friend   Friend   Friend   Frieddom   Friend   Frieddom   Friend   Friend   Frieddom	Select Fork 0.0 to 1.0	Licking River	RIVER	5100101	MENIFEE	5-NS		++		11/3/2005 11/14/2005	WAH, FC. PCR. SCR	
Liking Reset   Right	Willems Creek 0.0 to 9.8 Willems Creek 0.0 to 9.8 Willems Creek 0.0 to 5.3 Willemstown Lake Willow Creek 0.0 to 5.1 Com Creek 1.4 to 3.9 abs Fork 0.0 to 5.1 are to Creek 0.0 to 5.1 Com Creek 0.0 to	11.11	RIVER	5100101	MENIFEE	2-FS			000	11/14/2005	WAH FC PCR SCR	
Likely River   Richard River	Millemateur Creek 0.0 to 5.3 Millemateur Lake 1.0 to 5.3 Millemateur Lake 1.0 to 10.2 Millemateur Creek 0.0 to 5.1 Com Creek 1.4 to 3.9 To 10.0 to 5.1 To 10.0 to 5.1 To 10.0 to 5.1 To 10.0 to 10.0 to 5.1 To 10.0 to 5	Licking River		10000 G	TADOOR T				,	11/14/2005		
Liking Reserve   Liki	Minor Treek 0.0 to 10,2 Michon Creek 0.0 to 10,2 Michon Creek 1.4 to 3,9 Seb Fork 0.0 to 5,1 Seb Fork 0.0 to 5,1 Committed Creek 0.0 to 7,2 Committed Creek 0.0 to 7,2 Committed Creek 1.0 to 7,2 Committed Creek 1.0 to 7,2	Licking River	RIVED	5400404	PLANNING	2-FS	_			CHANNAN	WAH FC PCR SCR	
Libering Prince	Milow Creek (J.O. 10, 2 Milon Run (J.O. 10, 5, 1 Moon Creek 1, 4 to 3, 9 Table Fork (J.O. 10, 5, 1 Mintt Creek (J.O. 10, 2, 1)	Icking Biver	DEPENDENCE OF THE PARTY OF THE	100000	MORGAN	8			2	WZ0/2005	WAH, FC, PCR, SCR, DWS	
Line Straight Free	son Run 0.0 to 5.1  com Creek 1.4 to 3.9  abe Fork 0.0 to 5.1  arrelt Creek 0.0 to 7.2	Linking Shar	KESEKVOIK	5100101	GRANT	2-FS	-	E S	200	8/10/2000	WAH FC PCR, SCR	
Unite Saroly Filter	Com Creek 14 to 3.9 abs Fork 0.0 to 5.1 mind Creek 0.0 to 7.2 nCmax Creek 1.3 to 4.3	icking Diver	RIVER	5100101	PENDLETON	2-FS	1	200	2-1-0	6/26/2005	WAH FC PCR SCR	
Little Sandy River   RAFF    SECOND   CHUTTY   25%   3   3   3   3   3   3   3   3   3	Subs Fork 0.0 to 5.1 Irrest Creek 0.0 to 7.2 Offices Creek 18 to 49.4	Little Sandy Diver	NIVER	5100101	FLEMING	e	4A-NS	0 0	0 0	8/10/2000	WAH FC, PCR SCR	11
Link Sample New   Rivers   Control   Chartest   Special   Specia	Profit Creek 0.0 to 7.2	Little Sandy River	DIVED	5000104	GREENUP	S-NS	e	3	0 00	44/7/1/2000		
Little Study Player   Fire	O Canal Oracle 1 8 to 49 4	Hile Sandy Diver	LINER	2020104	ELLOTT	2-F8	n	0	9 6	TITIZOUS	WAH FC PCR SCR	
Links Standy Rev.   Price   2000   CANTER   2559   25   2   2   2   2   2   2   2   2	See and Community of the Community of th	Hills Candy Dive	KIVEK	5090104	CARTER	S-PS	3		00	2/9/2004	WAH FC PCR SCR	
Links Sample New   Rivers   2000104   OKERNE   2-55   2-5   3   3   3   3   3   10,000	g Sinking Creek 6.1 to 15.2	HIS COLD NIVER	KIVER	5090104	ELLIOTT	2-FS	2-58		200	1/21/2004	WAH, FC, PCR, SCR	
Unite Standy Rave   Richest   2000104   UniteDirect   24-5   3   3   3   3   3   3   3   3   3	ane Creek 0.0 to 4.1	Little Sandy Kiver	RIVER	5090104	CARTER	2-FS	2.50	-	0	1/16/2004	WAH, FC, PCR, SCR	
Units Servicy Rev.   FURER   SOCIOGRA   LAWRENCE   25-56   3   3   3   3   11/11/2004	and End O to 2 E	Little Sandy River	RIVER	5090104	GREENID	200	21.0		eo	9/22/2003	WAH FC PCR SCR	
14th Samely Rev   RVER   6000104   R1007102   2.85   3   3   3   3   3   3   3   3   3	10x 0.8 50.0	Little Sandy River	RIVER	5070204	AMPENDE	200	2	9	6	1/21/2004	WAH EC BCD GCD	
78.4         Lillé Sandy Rew         RIVER         SORGIO LA MURIDIA         LILLE SANDY Rev         RIVER         SORGIO LA MURIDIA         LILLE SANDY Rev         RIVER         SORGIO LA BOYO         CASS         3         3         3         3         1/22/2004           23.9         Lillé Sandy Rev         RIVER         SORGIO LA BOYO         CASS         3         3         3         1/12/2000           24.9         Lillé Sandy Rev         RIVER         SORGIO LA BOYO         CASS         3         3         3         1/12/2000           LILLÉ SANDY Rev         RIVER         SORGIO LA BOYO         CASS         3         3         3         1/12/2000           LILLÉ SANDY Rev         RIVER         SORGIO LA BOYO         CASS         3         3         3         1/11/2000           LILLÉ SANDY Rev         RIVER         SORGIO LA BOYO         CASS         3         3         1/11/2000           LILLÉ SANDY Rev         RIVER         SORGIO LA BOYO         CASS         3         3         1/11/2000           LILLÉ SANDY Rev         RIVER         SORGIO LA BOYO         CASS         3         3         3         1/11/2000           LILLÉ SANDY Rev         RIVER         SORGIO LA BOYO         CA	my rork U.U to 4.U	Little Sandy River	RIVER	£000+04	CHIDAN	2-1-2	i,		60	11/11/2003	MALL ED BOO SON	
The Start   This This Start	y Fork 1,2 to 4,5	iffin Sandy Diver	NI OPPORT	2020104	ELLIOIT	2-FS	က		0	2000000	אטיי דרי דראי	
The stand Name	let Fork Little Sandy River 24 9 to 28 4	THE CHILD LAND	RIVER	2080104	LAWRENCE	S-PS	6.		9 6	DOMEON!	WAH, FC, PCR, SCR	
The Samp River   RIVER   Strong   BOYD   2-F5   3   3   3   3   1   1   1   1   1   1	Let Fork 1 Hite Sente River 27 4 to 20 0	Little Sendy Kiver	RIVER	5090104	BOYD	2-FS	A.NO		2	1/22/2004	WAH, FC, PCR, SCR	
1,000,   1	and Early little Grant Divers of the Co.	Little Sandy River	RIVER	5090104	BOYD	200	1		m	2/9/2004	WAH FC PCR SCR	
This Supply River   RIVER   S000104   BOYO   64.54   5   5   5   5   5   5   5   5   5	A CON LINE DUING KIYOF 4./ 10 9.0	Little Sandy River	RIVER	5090104	BOVD	2	1		6	11/25/2003	WAH FC PCR SCR	
Little Starcy River   RIVER   5000104   E-178   2   3   3   3   11/10/2004	et Fork Little Sandy Kiver 16.8 to 24.9	Little Sandy River	RIVER	5090104	C A C A	24.70	1		6	1/15/2004	WAH FC PCR SCR	
Little Standy River   Richer   200010   2000000   200000   200000   200000   200000   200000   200000   2000000   200000   200000   200000   200000   200000   200000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   2000000   20000000   20000000   20000000   200000000	Ingtons Bear Cr 0.0 to 1.5	Little Sandy River	BIVED	50000	200	4A-NS			3	2/29/2008	WALL EC OCO COD	
Little Sandy River   RNER   5000104   67007   548   3   3   5   5   5   5   5   5   5   5	erman Cr 0.0 to 5.7	Hitle Sandy Dives	NAME OF THE PERSON	2030104	BOYD	S-PS			6	44/40/2003	איני איני איני איני	- 1
High Barry Ray   RESERVOR   SORDING   SEASO	mer Cr 0.0 to 1.8	Wile Cond.	NIVEN NIVEN	2000000	CARTER	5-PS				100000	אטא אטר אנא	
Links sure) River RESERVOR	avson Lake	THE CALL OF		2080104	BOYD	5-PS				***************************************	WAN PC PCK SCR	
Little Sandy River   RYNER   5000104   ELLIOTT   2-55   3   3   3   3   3   3   3   3   3	Man Br O O to 1 4	Little Sandy Kiver		5090104	CARTER	2.FS	-		2 0	1/22/2004	WAH, FC, PCR, SCR	
Little Sandy River   RIVER   5000104   GILLOTT   2.55   3   3   3   3   1/1/100003	and the control of	Little Sendy River		5090104	ELLIOTT	2.58	+	-	2	3/5/2003	WAH FC PCR SCR	
High Sandy River   RIVER   5000104   ELLIOTT   2.5.5   3   3   3   3   12/10/2020	Daniel Land	Little Sandy River		5090104	GREENID	2.50	+		0	9/22/2003	WAH, FC, PCR, SCR	
Little Saracky River   RIVER   5500104   ELLIOTT   2.45   3   3   3   3   3   3   3   3   3	urel Branch 1.0 to 2.8	Little Sandy River		5090104	11011	27.0	1		m	1/1/1998	WAH, FC. PCR. SCR	1
Utilis Saracky River	urel Creek 0.0 to 7.6	Little Sandy River	RIVER	5000104	11011	2-10	-	-	69	12/10/2003	WAH FC PCR SCR	1
Little Sandy River   River   5000104   ELLIOTT   2-FS   3   3   3   3   3   3   11/10/2002	ural Creek 7.6 to 11.2	Little Sandy River	PAVED	5000404	ברוסוו	2-FS			3	9722/2003	WAH FO POR SOR	
23.6         Little Samp River         River         5000 to Marker         ELLIOTT         S-PS         3         3         3         1/1/2000           4.0         Little Samp River         RIVER         5000 to Marker         ELLIOTT         S-PS         3         3         3         1/1/1/2000           2.2.7.7         Little Samp River         RIVER         5000 to Marker         ELLIOTT         S-PS         3         3         3         1/1/1/2000           2.0.0         Little Samp River         RIVER         5000 to Marker         ELLIOTT         S-PS         3         3         1/1/1/2000           2.0.0         Little Samp River         RIVER         5000 to Marker	It Fork Redwine Creek 0.0 to 1.2	Little Sanctu River	DIVED	SOSOIO S	ברוטוו	2-FS	m	3	9	97272003	WAN EC PCP SCO	
1,000   1,00	k Fork 0,0 to 5,2	Hills Sandy Diver	DAVED	2000104	ELLIOIT	S-PS	9	3	3	117/2003	WAH EC BCB ecb	
4.0         Little Sarch/River         RNER         6080104         CAMTER         6-PS         3         3         1/1/1/2002           2.2.7.7         Little Sarch/River         RNER         6080104         CLATER         6-PS         3         3         1/1/1/2004           6.0         Little Sarch/River         RNER         6080104         CLATER         6-PS         3         3         3         1/1/1/2004           12.0         Little Sarch/River         RNER         6080104         CLATER         6-PS         3         3         3         1/1/1/2004           12.0         Little Sarch/River         RNER         6080104         CARTER         2-FS         3         3         2.45         2.25         3         3         1/1/1/2004           Little Sarch/River         RNER         5080104         CARTER         2-FS         3         3         2.45         2.275004           Little Sarch/River         RNER         5080104         CARTER         2-FS         3         3         1/1/2000           Little Sarch/River         RNER         5080104         CARTER         2-FS         3         3         1/1/2000           Little Sarch/River         RNER         508010	the Fork Little Sandy River 12.0 to 23.8	Hitto Canada Dissa	AIVER	\$010e0c	ELLIOTT	5-PS	9	9	67	12/10/2003	100 000 000 000 000 000 000 000 000 000	
27.7.7         Littles Sarroy River         RNER         500010d         CAMTER         2+5         3         3         3         11/4/2004           3.0.5         Littles Sarroy River         RNER         500010d         ELLUTT         6+NS         3         3         3         1/14/2004           1.0.0         Littles Sarroy River         RNER         500010d         CAMTER         5-PS         3         3         3         1/14/2004           1.0.0         Littles Sarroy River         RNER         500010d         CAMTER         5-PS         3         3         3         1/14/2004           Littles Sarroy River         RNER         500010d         CAMTER         2-FS         3         3         2-FS         2-FS         3         3         1/14/2004           Littles Sarroy River         RNER         500010d         CAMTER         2-FS         3         3         2-FS         2-FS         3         1/14/2004           Littles Sarroy River         RNER         500010d         CAMTER         2-FS         3         3         1/14/2004           Littles Sarroy River         RNER         500010d         CAMTER         2-FS         3         3         1/14/2004	la Fork Little Sandy River 2 3 to 4 8	Little Series River	KIVEK	5080104	CARTER	5-PS	9	m	6	44442000	יייי דיי דיייי	
2.5.5         Little Sandy River         RIVER         5000104         ELLIOTT         5-NS         3         3         1/12/2004           1.2.0         Little Sandy River         RIVER         5000104         CARTER         5-PS         3         3         1/12/2003           1.2.0         Little Sandy River         RIVER         5000104         CARTERNE         2-FS         3         3         1/12/2003           1.2.0         Little Sandy River         RIVER         5000104         GREENUP         3         3         2-FS         3         1/12/2003           Little Sandy River         RIVER         5000104         GREENUP         2-FS         3         2-FS         3         1/12/2004           Little Sandy River         RIVER         5000104         GREENUP         2-FS         3         2-FS         3         1/12/2004           Little Sandy River         RIVER         5000104         ELLIOTT         5-FS         3         3         1/12/2004           Little Sandy River         RIVER         5000104         ELLIOTT         5-FS         3         3         1/12/2004           Little Sandy River         RIVER         5000104         ELLIOTT         2-FS         3 <t< td=""><td>Na Fork Little Sandy Blver 22 8 to 27 7</td><td>Little Sendy Kiver</td><td>RIVER</td><td>5090104</td><td>CARTER</td><td>2-FS</td><td>2-FS</td><td>0</td><td>000</td><td>41447004</td><td>WAH FC PCR SCR</td><td>11</td></t<>	Na Fork Little Sandy Blver 22 8 to 27 7	Little Sendy Kiver	RIVER	5090104	CARTER	2-FS	2-FS	0	000	41447004	WAH FC PCR SCR	11
Little Samby River   RIVER   5000104   CARTER   5-PS   3   3   3   1/11/2003	le Fort I ittle Sendu Diver 27 7 to 20 6	LIKE SENDY KIVE	KIVER	5080104	ELLIOTT	S-NS	60	6		1000000	WAN PC PCK SCK	- 1
University   Name	to Cort I title Oneth Diver 4 0 to 0	Little Sandy River	RIVER	5090104	ELLIOTT	5-PS			000	A THE COUNTY	WAH FC PCR SCR	
The Sancy River   RIVER   5080104   CARTER   2-FS   3   3   3   1/1262002   1/1262003	IN FOR LINE SETTY RIVER 4.0 TO D.U	Little Sandy River	RIVER	5090104	CARTER	5-PS			2 (	2002/17/17	WAH FC PCR SCR	
Little Sundy River   RIVER   5080104   GREENUP   3   5-NS   3   3   11/202004	UNE FORK LINKS SENDY KINGS SUITO 12.0	Little Sandy River	RIVER	5090104	CARTER	2-FS	0 6	2 6	200	//B/ZOCZ	WAH, FC, PCR, SCR	34
Little Sancy River	ING SHINDY KINNER U.U to U.Z	Little Sandy River	RIVER	5090104	GREENLIP		1		2	11/25/2003	WAH, FC, PCR, SCR	
Little Sandy River   RIVER   5090104   GREENUP   2-FS   2-FS   3   2-FS   3   11/102004   1/105   1/102004   1/105   1/102004   1/105   1/102004   1/105   1/102004   1/105   1/102004	de Sandy River 0.2 to 12.1	Little Sandy River	RIVER	5090104	GREENIP	0 00			2	2/4/2004	WAH, FC, PCR, SCR	
Little Sandy River RIVER 5090104 CARTER 2-FS 3 2 2-FS 3 11/12/2004  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 11/14/2004  Little Sandy River RIVER 5090104 CARTER 2-FS 3 3 3 3 11/14/2004  Little Sandy River RIVER 5090104 CARTER 5-FS 3 3 3 3 11/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 1/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 3 1/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 3 1/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 3 1/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 3 1/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 3 1/14/2004  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 5-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/14/2000  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/14/2000	te Sandy River 12.1 to 20.1	Little Sandy River	RIVER	5090104	GREENID	2 50	1		2-FS	2/2/2004	WAH, FC, PCR, SCR	
Little Sandy River RIVER 5000104 CARTER 2-FS 3 3 3 11442004  Little Sandy River RIVER 5000104 GARTER 2-FS 3 3 3 3 11442004  Little Sandy River RIVER 5000104 GARTER 2-FS 3 3 3 3 1172004  Little Sandy River RIVER 5000104 GARTER 2-FS 3 3 3 3 1172004  Little Sandy River RIVER 5000104 GARTER 2-FS 3 3 3 3 1772004  Little Sandy River RIVER 5000104 GLILOTT 2-FS 3 3 3 3 3 17222004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 3 17222004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17222004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17222004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17222004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17222004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17272004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17272004  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 17702003  Little Sandy River RIVER 5000104 GLILOTT 5-FS 3 3 3 3 3 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 3 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 3 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 3 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 3 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5000104 GREENUP 5-FS 3 3 3 1 17702003  Little Sandy River RIVER 5-FS 3 3 3 3 3 1 17702003  Little Sandy R	de Sandy River 40.1 to 42.5	Little Sandy River	RIVER	5090104	CADTED	61-2	1		m	11/25/2003	WAH, FC, PCR, SCR	
Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 11/4/2004  Little Sandy River RIVER 5080104 GREENUP 3 3 3 3 11/4/2004  Little Sandy River RIVER 5080104 GREENUP 5-PS 3 3 3 3 11/4/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/4/2004  5.5.7 Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/2/2003  7.5 Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 5-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 1/1/2/2004  Little Sandy River RIVER 5080104 ELLIOTT 2-PS 3 3 3 1/1/2/2004	le Sandy River 42.5 to 47.1	Little Sandy River	RIVER	5050104	CAPTED	200	1	4.04	2-FS	2/2/2004	WAH, FC, PCR, SCR	
Little Sandy River RIVER 5080104 GREENUP 3 3 3 3 11/142004  Little Sandy River RIVER 5080104 GARTER 2-FS 3 3 3 3 1 1/122004  Little Sandy River RIVER 5080104 GLILOTT 2-FS 3 3 3 3 1 1/122004  1. Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 1/122003  1. Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 1/1222004  Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 1/1222004  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/1222004  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 ELLIOTT 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 ELLIOTT 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 ELLIOTT 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203  Little Sandy River RIVER 5080104 GREENUP 5-FS 3 3 3 3 1/102203	de Sandy River 71.8 to 74.7	Little Sandy River	RIVER	5000104	EL LOTT	2-1-2	1		m	1/14/2004	WAH, FC, PCR, SCR	
Little Sandy River   RIVER   5080104   CARTER   2-FS   3   3   3   3   11/20004	le Sandy River 20.1 to 37.7	Little Sandy River	RIVER	5000104	COCCANIO	200	1		3	1/14/2004	WAH, FC, PCR, SCR	
Little Sandy River   RIVER   5090104   ELLIOTT   2-FS   3   3   3   3   3   1122004	Ne Skriking Creek 0.0 to 6.2	Little Sandy River	RIVER	2000	CABTER	2			၉	11/25/2003	WAH, FC. PCR. SCR.	1
0.5.7         Little Sandy River         RIVER Specified         CONTION         2-FS         3         3         3         211/2004           0.7.5         Little Sandy River         RIVER Specified         ELLIOTT         2-FS         3         3         3         3         3         3         221/2003           0.7.5         Little Sandy River         RIVER Specified         ELLIOTT         2-FS         3         3         3         3         4/2/2003           Little Sandy River         RIVER Specified         5080104         ELLIOTT         2-FS         3         3         3         4/2/2004           Little Sandy River         RIVER Specified         5080104         ELLIOTT         2-FS         3         3         3         1/1/10/2003           Little Sandy River         RIVER Specified         5080104         ELLIOTT         5-FS         3         3         1/1/10/2003           Little Sandy River         RIVER Specified         5080104         ELLIOTT         5-FS         3         3         1/1/10/2003           Little Sandy River         RIVER Specified         5080104         ELLIOTT         2-FS         3         3         1/1/10/2003           Little Sandy River         RIVER Specified <td>Mer Stinson Creek 0.0 to 1.1</td> <td>Little Sandy River</td> <td>RIVER</td> <td>5000404</td> <td>CADTED</td> <td>2-4-2</td> <td>+</td> <td></td> <td>က</td> <td>1/22/2004</td> <td>WAH, FC, PCR, SCR</td> <td></td>	Mer Stinson Creek 0.0 to 1.1	Little Sandy River	RIVER	5000404	CADTED	2-4-2	+		က	1/22/2004	WAH, FC, PCR, SCR	
0.5.7         Little Sandy River         RIVER S000104         ELLIOTT         2-FS         3         3         3         9/22/2003         W 9/22/2003           0.7.5         Little Sandy River         RIVER S000104         ELLIOTT         2-FS         3         3         3         1/12/2004           4.2         Little Sandy River         RIVER S000104         ELLIOTT         5-FS         3         3         3         1/11/20203           4.2         Little Sandy River         RIVER S000104         ELLIOTT         5-FS         3         3         3         1/11/20203           4.2         Little Sandy River         RIVER S000104         ELLIOTT         5-FS         3         3         1/11/20203           Little Sandy River         RIVER S000104         ELLIOTT         5-FS         3         3         1/11/20203           Little Sandy River         RIVER S000104         ELLIOTT         5-FS         3         3         1/11/20203           Little Sandy River         RIVER S000104         GREENUP G-NS         3         3         1/11/20203           Little Sandy River         RIVER S000104         GREENUP G-NS         3         3         3         1/11/20203           Little Sandy River <td< td=""><td>adow Branch 0.0 to 1.4</td><td>Little Sandy River</td><td>RIVER</td><td>5000404</td><td>בו וסדר</td><td>2</td><td>2</td><td>n</td><td>8</td><td>2/11/2004</td><td>WAH FC PCR SCR</td><td></td></td<>	adow Branch 0.0 to 1.4	Little Sandy River	RIVER	5000404	בו וסדר	2	2	n	8	2/11/2004	WAH FC PCR SCR	
0.7.5         Little Sandy River         RIVER         5080104         ELLIOTT         5-FS         3         3         3         9/22/2003           4.2         Little Sandy River         RIVER         5080104         ELLIOTT         2-FS         3         3         3         1/12/2004           4.2         Little Sandy River         RIVER         5080104         ELLIOTT         2-FS         3         3         3         1/17/2003           4.2         Little Sandy River         RIVER         5080104         ELLIOTT         5-FS         3         3         3         1/1/10/2003           Little Sandy River         RIVER         5080104         ELLIOTT         5-FS         3         3         3         1/1/10/2003           Little Sandy River         RIVER         5080104         GREENUP         5-FS         3         3         3         1/1/10/2003           Little Sandy River         RIVER         5080104         GREENUP         5-FS         3         3         3         1/1/10/2003           Little Sandy River         RIVER         5080104         GREENUP         5-FS         3         3         3         1/1/10/2003           Little Sandy River         RIVER	ddle Fork Little Sandy River 0.0 to 5.7	Little Sandy River	DAVED	5000404	ELLIOTT.	242	20		3	9/22/2003	WAH, FC, PCR, SCR, DWS	
Little Sandy River RIVER 5000104 ELLIOTT 2-FS 3 3 3 3 1722004  Little Sandy River RIVER 5000104 ELLIOTT 2-FS 3 3 3 3 17270004  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 3 17270003  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 17270003  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 17270004  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 17270004  Little Sandy River RIVER 5000104 GREENUP 5-HS 3 3 3 17270004  Little Sandy River RIVER 5000104 GREENUP 5-HS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 GREENUP 5-HS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 GREENUP 5-HS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 GREENUP 5-HS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 ELLIOTT 2-FS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 11/10/2003  Little Sandy River RIVER 5000104 ELLIOTT 5-FS 3 3 3 11/10/2003	Adie Fork Little Sandy River 5.7 to 7.5	Little Sandy River	RIVER	5000404	ELLIOTT	2-1-2	m		3	9/22/2003	WAH FC PCR SCR	
4.2 Little Sandy River RIVER 5090104 ELLIOTT 2-F6 3 3 3 3 1722004 4.2 Little Sandy River RIVER 5090104 ELLIOTT 5-F8 3 3 3 3 1721003 4.2 Little Sandy River RIVER 5090104 ELLIOTT 5-F8 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 5-F8 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-F6 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-F6 3 3 3 12/10/2003	wcombe Creek 0.0 to 11.9	Little Sandy River	DIVED	5000404	CLUOT	2	m	m	60	1/22/2004	WAH FC PCR SCR	1
4.2 Little Sandy River RIVER 5090104 GELLIOTT 5-PS 3 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003	thols Fork 0.0 to 1.6	Little Sandy River	PAVED	5000404	CLUOT	4A-PS	2	e e	0	1/22/2004	WAH, FC. PCR. SCR	1
4.2 Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 12/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 6-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 GREENUP 6-NS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 11/10/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003	town Creek 0.0 to 1.9	I Ittle Sandy River	DAVED	5000404	ELLIOIT	2-FS	m	9	3	9/22/2003	WAH, FC. PCR. SCR.	1
Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 12/102003 Little Sandy River RIVER 5090104 ELLIOTT 5-PS 3 3 3 1/2/2004 Little Sandy River RIVER 5090104 GREENUP 5-HS 3 3 3 1/2/2004 Little Sandy River RIVER 5090104 GREENUP 5-HS 3 3 3 1/1/10/2003 Little Sandy River RIVER 5090104 GREENUP 5-HS 3 3 3 1/1/2/2004 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/2/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/2/2003 Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 1/2/2003	ht Fork Newcombe Creek 0.0 to 4.2	Little Sandy River	PIVED	SOUND SOUND	CHERNOL	200	m	3	3	11/10/2003	WAH FC PCR SCR	1
Little Sandy River RIVER 5090104 ELLIOTT 3-FS 3 3 3 12/10/2003  Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003  Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003  Little Sandy River RIVER 5090104 GREENUP 5-NS 3 3 3 11/10/2003  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003  Little Sandy River RIVER 5090104 ELLIOTT 2-FS 3 3 3 3 12/10/2003	cky Branch 0.0 to 3.2	Little Sandy River	PIVER	5000104	CLUOTI	240	2	m	6	12/10/2003	WAH FC PCR SCR	1
Little Sandy River RIVER 5080104 CARERUP 5-NS 3 3 3 11/102004  Little Sandy River RIVER 5080104 GREENUP 5-NS 3 3 3 11/102003  Little Sandy River RIVER 5080104 GREENUP 5-NS 3 3 3 11/102003  Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 12/10/2003  Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 12/10/2003	ork Ruin Creek 0.0 to 0.7	Little Sandy River	RIVER	5000404		240	0	9	3	12/10/2003	WAH FC PCR SCR	
Colo	light Creek 0.0 to 3.8	Little Sandy River	PAVED	200000	CASTED	200	20	en	6		WAH, FC, PCR, SCR	
1.0 to 0.3 Little Sandy River RIVER 5080104 GREENUP 5-NS 3 3 3 3 11/10/2003 Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 12/10/2003 Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 12/10/2003 Little Sandy River RIVER 5080104 FLLIOTT 2-FS 3 3 3 3 12/10/2003	nel Branch 0.0 to 1.7	Little Sandy River	RIVER	5000104	COECMID	2	0	3	0	1/22/2004	WAH, FC, PCR, SCR	
Little Sandy River RNER 5090104 ELLIOTT 2-FS 3 3 11/R2003 Little Sandy River RNER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003 Little Sandy River RNER 5090104 ELLIOTT 2-FS 3 3 3 12/10/2003	to East Fork Little Sandy River 0.0 to 0.3	Little Sandy River	RIVER	5090104	CDEENIO	CN-C	7) (	60	0	11/10/2003	WAH, FC, PCR, SCR	
Little Sandy River RIVER 5080104 ELLIOTT 2-FS 3 3 3 3 12/10/2003	to Newcombe Creek 0.0 to 0.95	Little Sandy River	RIVER	5090104	FILIOTT	200	2 0	200	0	11/8/2003	WAH, FC, PCR, SCR	
Little Sandy River RIVER 5080104 FILIOTT A DG	to Newcombe Creek 0.0 to 1.35	Little Sandy River	RIVER	5090104	FLIOTT	200	200	200	00	12/10/2003	WAH, FC, PCR, SCR	
	Its Creek 0.0 to 3.5	Little Sandy River	RIVER	5090404	TIOT	24.7	200	200	0	12/10/2003	WAH, FC, PCR, SCR	

RIVER   6192056 CRITTENDEN   2-FS   3   3   3   3   3   3   3   3   3	Line Series   Reference					- Consumo	WAHICAH	-		PARAGE		
Lower Cumberland   RIVER   9130206 CRITTRINGEN   9-79   9-75   9-10	Low Conserving   Minch   Min	0 to 2.9	-	RIVER	5080104	CACO	TO STORY	t	Ť	200	Assess Date	Designated Uses
Lower Cumberland   RIVER   5130265 CeltTribles   2-75   27   23   24   24   24   24   24   24   24	Low Curvalent   No. 20   Low Curvalent   No.	03.6	Lower Cumberland	RIVER	5130205	COURT	200	-		3	1/21/2004	WAH FC PCR SCR
Lower Cumberland RIVER 6130205 CHITTRINEN 6-15-15 0 1	Lower Cummering   NINER   61,00000   CHITTENER   5,454   5,4	l.B to 15.7	Lower Cumberland	RIVER	512020E	SOLUTION OF	2-1-0			က	3/25/2002	WAH EC BOB SOD
Lower Cumbelland   RHERR   6192005 CMITENDEN   2-155 S-154 S   3   1	Low Curvalent   Mirch   State   Stat	.8 to 10.7	Lower Cumberland	PINED	2130203	CRITICAL	2-FS			6	5/2/2002	WAH EC BOD GOD
Lower Combenies         NNERS         9 382000         CRITICIDEN         5-16         3           Lower Combenies         FUNES         9 382000         CRITICIDEN         2-16         3         3           Lower Combenies         FUNES         9 382000         CRITICIDEN         5-16         3         3         3           Lower Combenies         FUNES         6 382000         CRITICIDEN         5-16         3         3         3           Lower Combenies         FUNES         6 382000         CRITICIDEN         5-16         3         3         3           Lower Combenies         FUNES         6 382000         CLOWER         5-16         3         3         3           Lower Combenies         FUNES         6 382000         CLOWER         5-16         3         3         3           Lower Combenies         FUNES         6 382000         CLOWER         5-16         3         3         3           Lower Combenies         FUNES         6 382000         CLOWER         5-16         3         3         3         3           Lower Combenies         FUNES         6 382000         CLOWER         5-16         3         3         3         3         3	The Companion   Fig. 15   19,000   1	9 to 4.8	Charles Curtharland	NIVER ON VED	2020202	CRITTENDEN	S-NS	SN-9	9	6	37272008 - 37272007	WALL DO DOD DOD
Come Combosined   NYER   5182200   LYON   5-P6   3   3	Lower Complement	0.7 to 13.9	Distriction Country	MIVER	CUZUETO	CKITTENDEN	2-FS	SN-S	9	c	4/10/2002	MAN TO DON SON
Come Combonism   Nices   5192200   Virolo   5-PS   3   3   3   3   3   3   3   3   3	Lower Cumberland   Rivers   6130200   Living   Civing   6130200   Living   6130200   Li	9.4.8	Punt Cumbadana	CHARLE	5130205	CRITTENDEN	5-PS	9	3	er	SOCIO	MALL CO DOD SON DIE
Come Combosined   Nicer   5192205   Living   5455   3   3   3   3   3   3   3   3   3	Lower Complement	9 to 9.1	Proposition Company	KIVER	5130205	LYON	5-PS	co.	3	(17)	2026/2007	WALL FOR DOD SOD
LOWE CURDERING         RIVER         67/30206         LIVINGSTON         9-18         3         3           LOWE CURDERING         RAVER         67/30206         LIVINGSTON         9-18         3	Count Catabolistic   Name   Statistic	r 00 to 30 8	District College	KIVEK	2130205	TRIGG	2-FS	e	3		202000	WAT TO POR SOR
Lower Camberland RNER 6130206 TRIGG 62 2-55 3 3 4	Court Catacheries   RVRRR   STATES	1081	TOWN COMPONIED	RIVER	5130205	LIVINGSTON	2-FS	6	3 2.55	200	20270007	WATH, P.C. PICK SICK
Lower Cumberland   RNER   5132205 TRIGG   5-55   3   3   4	Conf. Carboning   Fig. 1879   Fig. 2006   CALLOWER   Fig. 30   Fig. 3   F	401072	Lower Cumberland	RIVER	5130205	LIVINGSTON	5-NS	60	e	200	100211212	WAH PC PCR SCR DV
Lower Cumberland   RNER   5132265 CALDWELL   5-55   5   5   5	Lower Cambridge   RVERR   513000   LVINGLE   5456   5   5   5   5   5   5   5   5   5	4.000	Lower Cumberland	RIVER	5130205	TRIGG	2.FS	0	0 0	9 0	SECION	WAH FC PCR SCR
LOWING Cumberland RIVER 6/39209 CALDIVIELL 6-FFS 6-F	Lower Cumberland   RIVER   57,0000 CH/NMET   24-8   3   3   3   4   11000 CM	1.2 10 9.3	Lower Cumberland	RIVER	5130205	TRICC	6 00	0 0	9	7	10/10/2008	WAH FC PCR SCR
Lower Cumberland RIVER 6192029 CLOSAN 648 3 3 6 1	Lower Cumberland   RIVER   5700000   LOWALL   578   518	3.6	Lower Cumberland	RIVER	513000E	CAI DIAREI	04.0	2	2	6	5/2/2002	CAH FC PCR SCR
Lower Cumberland RIVER 5132206 CHRISTIAN 5-HS 3 3	Living Composition   Principle   Control Con		Count Cambarland	ONVED	2130203	CALDWELL	o-PS	5-NS	60	3	4/1/1998 - 3/10/2008	WAH EC BOD SOD DI
LOWER Cumberland RIVER 5132256 LYON 2-FS 3 3	Lower Commentary         RVERT         \$15,0000         CALLOWELL         2-16         3         3         3         3         5-10,000           Lower Commentary         RVERT         \$15,0000         CALLOWELL         2-16         3         3         3-10,0000           Lower Commentary         RVERT         \$15,0000         CALLOWELL         2-16         3         3         3-10,0000           Lower Commentary         RVERT         \$15,0000         CALLOWELL         2-16         3         3         3-10,0000           Lower Commentary         RVERT         \$15,0000         CALLOWELL         2-16         3         3-10,0000           Lower Commentary         RAPER         \$15,0000         CALLOWELL         2-16         3         3-10,0000           Lower Commentary         RAPER         \$15,0000         LANGER         \$15,0000         LANGER         \$15,0000           Lower Commentary         RAPER         \$15,0000         LANGER         \$15,0000         LANGER         \$15,0000           Lower Commentary         RESERVOR         \$15,0000         LANGER         \$15,0000         LANGER         \$15,0000         LANGER         \$15,0000           Lower Commentary         RESERVOR         \$15,0000<	Store	Name of the Party	MIVER	2020206	LOGAN	5-PS	3	67	6		מיטי מיטי מיטיי
LOWER CAMPORTERING NUMBER   5132205   LYON   2-F5   5   5   5   5   5   5   5   5   5	LOWE Combined         RNEER         51,0000         LAND         2-85         3-64         3-6	7 0 00	Pullupaumn Lawor	RIVER	5130208	CHRISTIAN	S-NS		000	0		WAH, FC, PCK, SCR
Lowe Cumberland RIVER 6130256   LVON   2-15   5-1	Cover Cumberlind   RVER	100.4	Lower Cumberland	RIVER	5130205	NOA	02.0	9 6	2	2	2/2/2002	WAH, FC, PCR, SCR
Lowe Cumberland RIVER   5132266   CALLOVELL   2-FS   3   3	Lower Curreleting         FUERS         5500000         CLAVRELL         2.6.8         3         3         5.0.2000           Lower Curreleting         FAFER         5500000         TODOR         2.6.6         6.4.6         3         3         7.7732000           Lower Curreleting         FAFER         5500000         TODOR         2.6.6         6.4.6         3         3         7.7732000           Lower Curreleting         FAFER         5500000         TODOR         2.6.6         6.4.6         3         3         7.7732000           Lower Curreleting         FAFER         5500000         TODOR         2.6.6         9         3         3         2.700000           Lower Curreleting         FAFER         5500000         LVION         2.6.6         9         3         3         2.700000           Lower Curreleting         FAFER         5500000         LVION         2.6.6         9         3         3         2.700000           Lower Curreleting         FAFER         550000         LVION         2.6.6         3         3         3         3.700000           Lower Curreleting         FAFER         550000         LVION         2.6.6         3         2.6.6         3	10.5	Lower Cumberland	RIVER	5430205	INON	01.0	1		6		WAH FC PCR. SCR
Cover Cumberland   RIVER   5130205   TODD   2-FS   3   3   3   3   3   3   3   3   3	Lower Cumberland RESERVOR 5/3000	0 12.9	Lower Cumberland	DAVED	542000		2			8	5/2/2002	WAH FC PCR SCR
Cover Cumberland RIVER 5132056 CALDINGSTON 5-FS 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	Control Cumberland   Right	0.15.7	Sample Country	NA PLA	COZOCIC	CALDWELL	2-FS		9	67	7/13/2000	WALL ET DOG CO
Lower Cumberland         RESERVOR         5132006         TODD         2.FS         3         3         2.FS         3         3         2.FS         3         3         3         3         2.FS         3         3         3         3         3         3         2.FS         3         3         3         3         3         2.FS         3         3         3         2.FS         3         3         3         3         2.FS         3         3         3         3         3         3         3         3         3         3         3         3         3         3         4         4         3         3         3         4 </td <td>Come Curpolation         RNERRY STAZOR         TODD         5-KS         3         2-KS         3         2-KS           Come Curpolation         RNERRY STAZOR         TRIGGE         2-KS         3         2-KS         3         3         7.7070000           Lower Curpolation         RNERRY STAZOR         LINGSTON         2-KS         3         3         3         3         3         7.7070000           Lower Curpolation         RNERRY STAZOR         LINGSTON         2-KS         3         3         3         3         3         2.7070000           Lower Curpolation         RNERRY STAZOR         LINGSTON         2-KS         3<!--</td--><td>24 4</td><td>Distribution in the control of the c</td><td>KIVEK</td><td>5130205</td><td>CALDWELL</td><td>5-NS</td><td></td><td></td><td>c</td><td>2/40/0000</td><td>יייייייייייייייייייייייייייייייייייייי</td></td>	Come Curpolation         RNERRY STAZOR         TODD         5-KS         3         2-KS         3         2-KS           Come Curpolation         RNERRY STAZOR         TRIGGE         2-KS         3         2-KS         3         3         7.7070000           Lower Curpolation         RNERRY STAZOR         LINGSTON         2-KS         3         3         3         3         3         7.7070000           Lower Curpolation         RNERRY STAZOR         LINGSTON         2-KS         3         3         3         3         3         2.7070000           Lower Curpolation         RNERRY STAZOR         LINGSTON         2-KS         3 </td <td>24 4</td> <td>Distribution in the control of the c</td> <td>KIVEK</td> <td>5130205</td> <td>CALDWELL</td> <td>5-NS</td> <td></td> <td></td> <td>c</td> <td>2/40/0000</td> <td>יייייייייייייייייייייייייייייייייייייי</td>	24 4	Distribution in the control of the c	KIVEK	5130205	CALDWELL	5-NS			c	2/40/0000	יייייייייייייייייייייייייייייייייייייי
Lower Cumberland         RIVER         6/30206         TRIGG         2FS         3         2         2           Lower Cumberland         RIVER         6/30206         LIVINIGSTON         3         3         2-FS         3         3         2-FS         3         3         2-FS         3         3         3         2-FS         3         4	Lower Cumberland   RESERVOR   5/30205   Tribited   2-15   3   3   3   3   3   3   3   3   3	1.10	Lower Cumberland	RNER	5130206	TODD	S.N.S.	-		2	3/10/2000	WAH, FC, PCR, SCR
Lower Curriberland         RESERVOR         6130206         LINNASTON         2-FS         3         2-FS           Lower Curriberland         RIVER         6130206         LINNASTON         5-FS         3         2-FS           Lower Curriberland         RIVER         6130206         LIVON         2-FS         3         3         3           Lower Curriberland         RIVER         6130206         LIVON         2-FS         3	Lower Cumberling         RESERVOR         678205         1.75 (1)         2.75         3         2.75         3         2.75 (2)         3         3.75 (2002)           Lower Cumberling         RIFER         6320205         LVNINGSTON         5.75 (2)         3         2         3         3.02000           Lower Cumberling         RIFER         6320205         LVNINGSTON         5.75 (2)         3         3         5.02000           Lower Cumberling         RIFER         6320205         LVNINGSTON         5.75 (2)         3         3         5.02000           Lower Cumberling         RIFER         6320205         LVNINGSTON         2.75 (2)         3         3         5.02000           Lower Cumberling         RIFER         6320205         LVNINGSTON         2.75 (2)         3         3         5.02000           Lower Cumberling         RIFER         6320205         LVNINGSTON         2.75 (2)         3         3         3.02000           Lower Cumberling         RIFER         6320205         LVNINGSTON         2.75 (2)         3         3         1.11,0000           Lower Cumberling         RIFER         6320205         LVNINGSTON         2.75 (2)         3         3         3.02000	2.3	Lower Cumberland	RIVER	513020B	1000		-		7	2/28/2007	WAH, FC, PCR, SCR
	Lower Companion         NYMERY         51322000         LININGSTON         2FS         3         2 FS         3         3 SAZZOOZ           Lower Companion         NYMERY         51322000         LININGSTON         2FS         3         3         3         3 SAZZOOZ           Lower Companion         RAMERY         51322000         LININGSTON         2FS         3         4		Lower Cumbariand	DECEDIATIO	20000	000	2-13	4		ო	7/5/2001	WAH FC PCR SCR
LOWING CUmberland   RIVER   5192005   LIVINGSTON   5-PS   3   3   3   3	Lowe Cumberland         RNER         5132256         LIVINGSTON         55.65         3         4	00 to 4.2	Name of the last o	MICHAEL	2130206	TRIGG	2-FS	_		e.	SPOOR	TOO TOO TOO
Lower Cumberland         RIVER         5/30205         LIVING         5-PS         3         3           Lower Cumberland         RIVER         5/30205         LIVIN         2-FS         3         3           Lower Cumberland         RIVER         5/30205         LIVIN         2-FS         3         2-FS           Lower Cumberland         RIVER         5/30205         LIVIN         2-FS         3         2-FS           Lower Cumberland         RESERVIOR         5/30205         LIVIN         2-FS         3         2-FS           Lower Cumberland         RIVER         5/30205         LIVIN         2-FS         3	Lowe Camberland         RNER         6192265         LINDSTON         54-55         3         4         4         3         3         3         3         4         4         3         3         4	71 0000	Lower Cumberland	RIVER	5130205	LIVINGSTON	3	+	-		SON	WAT, TC, PCR, SCR
Lower Cumberland         RIVER         5130206         TRIGG         3         3         3         3           Lower Cumberland         RIVER         5130205         LVON         24-F8         58-PS         3         3           Lower Cumberland         RISERFOIR         5130205         LVON         24-F8         58-PS         3         45-PS           Lower Cumberland         RISERFORN         5130205         LVON         24-F8         59-PS         3         45-PS         3         45-PS         3         46-PS         3         46-PS         3         46-PS         40-PS         40-PS         59-PS         3         46-PS         3         46-PS         3         46-PS         40-PS	Lowe Camberland         RIVER         65/30206         TRIGG         54/8         9         3         3         9/20200           Lowe Camberland         RIVER         65/30206         LVON         54/8         9         <	1.2 10 2.3	Lower Cumberland	RIVER	5130205	MINGSTON	4. DC	-		-	2002/200	WAH, FC, PCR, SCR
Lower Cumberland         RIVER         \$130205         LYON         \$245         3         3           Lower Cumberland         RIVER         \$130205         LYON         \$245         \$3         \$3           Lower Cumberland         RIVER         \$130205         LIVINGSTON         \$245         \$40         \$3         \$40	Lower Cumberland         RNER         5/30000         LYONA         2.FS         3         3         3         5/20000           Lower Cumberland         RESERVOR         5/30000         LYONA         5/45         3         3         5/20000           Lower Cumberland         RESERVOR         5/30000         LYONA         2.FS         3         3         3         3/20000           Lower Cumberland         RESERVOR         5/30000         LYONA         2.FS         3         2         3         3         3/20000           Lower Cumberland         RESERVOR         5/30000         LYONA         2.FS         3         2.FS         2.FS         3         3/20000           Lower Cumberland         RESERVOR         5/30000         LYONA         2.FS         3         2.FS         2.FS         3         3/30000           Lower Cumberland         RESERVOR         5/30000         LYONA         2.FS         3         3         3         3/30000           Lower Cumberland         RESERVOR         5/30000         LYONA         2.FS         3         3         3         3         3         3         3         3         3         3         3         3         3<	.0 to 2.4	Lower Cumberland	RIVER	512020B	TOIGE	2	-	400	2	5/2/2002	WAH, FC, PCR, SCR
Lower Cumberland         RIVER         51 30205         LTVON         24-55         58-78         3           Lower Cumberland         RISERVOIR         51 30205         LVVON         2-FS         5-BS         3-BS           Lower Cumberland         RISERVOIR         51 30205         LVVON         2-FS         5-BS         3-BS           Lower Cumberland         RESERVOIR         51 30205         LVVON         2-FS         3-BS         3-BS           Lower Cumberland         RESERVOIR         51 30205         LVVON         2-FS         3-BS         3-FS           Lower Cumberland         RESERVOIR         51 30205         LVVON         2-FS         3-BS         3-FS           Lower Cumberland         RESERVOIR         51 30205         LVVON         2-FS         3-BS         3-BS           Lower Cumberland         RESERVOIR         51 30205         LRIGG         5-PS         3-BS         3-BS           Lower Cumberland         RESERVOIR         51 30205         LRIGG         5-PS         3-BS         3-BS           Lower Cumberland         RIVER         51 30205         LRIGG         5-PS         3-BS         3-BS           Lower Cumberland         RIVER         51 30205 <td< td=""><td>Lower Cumberland         RIVERS         5/3 20200         LIVON         62-FS         3         3         3         5/2/2002           Lower Cumberland         RESERVOIR         5/3 20200         LIVON         2-FS         3         3         3         5/2/2002           Lower Cumberland         RESERVOIR         5/3 20200         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 20200         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         3         3/2/2000         3         3/2/2000           Lower Cumberland         RESERVOIR</td><td>10 5.9</td><td>Lower Cumberland</td><td>DN/ED</td><td>E42000E</td><td>2000</td><td>2</td><td>-</td><td></td><td>e</td><td></td><td>WAH, FC. PCR. SCR</td></td<>	Lower Cumberland         RIVERS         5/3 20200         LIVON         62-FS         3         3         3         5/2/2002           Lower Cumberland         RESERVOIR         5/3 20200         LIVON         2-FS         3         3         3         5/2/2002           Lower Cumberland         RESERVOIR         5/3 20200         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 20200         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         3         3/2/2000           Lower Cumberland         RESERVOIR         5/3 2020         LIVON         2-FS         3         3         3/2/2000         3         3/2/2000           Lower Cumberland         RESERVOIR	10 5.9	Lower Cumberland	DN/ED	E42000E	2000	2	-		e		WAH, FC. PCR. SCR
Lower Cumberland         RIVER         5130205         LVON         684-PS         584-PS         3           Lower Cumberland         RESERVOIR         5130205         LIVINGSTON         2.FS         3         4.PS           Lower Cumberland         RESERVOIR         5130205         LIVINGSTON         2.FS         3         2.FS           Lower Cumberland         RESERVOIR         5130205         CHRISTIAN         2.FS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5.PS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5.PS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5.PS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN	Lower Cumberland         RNEER         513,0205         THOIGH TOWN         518,0205         THOIGH TOWN         518,0205         THOIGH TOWN         518,0205         THOIGH TOWN         518,0205         3         5 PPS         3         3         30,0000         3         50,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         3         30,0000         30,000	20to 22	Name of the Party	MAEN	COZOCIC	LYON	2-FS			6	5/2/2002	WAN EC DOD GOD
Lower Cumberland         RESERVOR         5130205         I FRIGG         5-NS         3         6-PS           Lower Cumberland         RESERVOR         5130205         LIVINGSTON         2-FS         5-NS         3         4C-PS           Lower Cumberland         RESERVOR         5130205         LIVINGSTON         2-FS         3         2-FS           Lower Cumberland         RESERVOR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RESERVOR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RESERVOR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3           Lower Cumberland         RIVER         5130205         LYCON         5-PS         3         3           Lower Cumberland         RIVER         5130205         LYCON         5-PS         3         3           Lower Cumberland         RIVER         5130205         LYCON	Lower Cumberland         RESERVOIR         513,0205         LIVINGSTON         2-FS         3         5-PS         3         9         3         3,020,000           Lower Cumberland         RESERVOIR         513,0205         LIVON         2-FS         3         4,0-PS         3         3         2,200         3         3,020,000         1,070         2-FS         3         2-FS         3         2,0-PS         3         3,020,000         1,070         3,000,000         1,070         3         2,0-PS         3         3,000,000         1,070         3,000,000         3,000,000         3,000,000         1,070         3,000,000         3,000,000         3,000,000         1,070         3,000,000         3		COME COMPONING	KIVEK	5130205	LYON	58-PS			e	200000	CO CO CO CO
Lower Cumberland         RIVER         6190205         LIVINGSTON         2-FS         5-NS         3-NS         3-NS <th< td=""><td>Lower Cumberland         RNER         6130206         LVON         2.65         5.46         3         3         342000           Lower Cumberland         RNEERVOR         6130206         LYON         2.65         3         46-78         3         2.67         3         342000           Lower Cumberland         RNEERVOR         6130206         LYON         2.68         3         2.68         3         2.68         3         342000           Lower Cumberland         RNEERVOR         6130206         LYON         2.68         3         2.48         2.48         3         2.48         3         342000           Lower Cumberland         RNEERVOR         6130206         LHORSTAM         2.68         3         2.48         3         342000           Lower Cumberland         RNEER         6130206         LHORSTAM         2.68         3         3         342000           Lower Cumberland         RNEER         6130206         CHRISTIAN         2.68         3         3         3         342000           Lower Cumberland         RNEER         6130206         CHRISTIAN         2.68         3         3         3         3         3420000           Lower Cumberland</td><td></td><td>Lower Cumberland</td><td>RESERVOIR</td><td>5130205</td><td>TRIGG</td><td>S-NS</td><td>1</td><td></td><td>0</td><td>CONTRACTOR</td><td>איאם, דכי רכא, טכא</td></th<>	Lower Cumberland         RNER         6130206         LVON         2.65         5.46         3         3         342000           Lower Cumberland         RNEERVOR         6130206         LYON         2.65         3         46-78         3         2.67         3         342000           Lower Cumberland         RNEERVOR         6130206         LYON         2.68         3         2.68         3         2.68         3         342000           Lower Cumberland         RNEERVOR         6130206         LYON         2.68         3         2.48         2.48         3         2.48         3         342000           Lower Cumberland         RNEERVOR         6130206         LHORSTAM         2.68         3         2.48         3         342000           Lower Cumberland         RNEER         6130206         LHORSTAM         2.68         3         3         342000           Lower Cumberland         RNEER         6130206         CHRISTIAN         2.68         3         3         3         342000           Lower Cumberland         RNEER         6130206         CHRISTIAN         2.68         3         3         3         3         3420000           Lower Cumberland		Lower Cumberland	RESERVOIR	5130205	TRIGG	S-NS	1		0	CONTRACTOR	איאם, דכי רכא, טכא
Lower Cumberland RESERVOIR 5130205	Lowe Cumberland         RESERVOIR         6130205         LYON         2FS         37-8         3-8         3-8         3-820002           Lowe Cumberland         RESERVOIR         6130205         LYON         2-FS         3-FS         3-FS         3-S	0 to 3.9	Lower Cumberland	RIVER	5130205	MUTSTON	2.50	+		2	3/3/2008	WAH, FC, PCR, SCR
LOWER Cumberland         RIVER         5130205         TRIGG         5-PS         3 4C-PS           LOWER Cumberland         RESERVOIR         5130205         LIVON         2-FS         3 2-FS           LOWER Cumberland         RESERVOIR         5130205         CHRISTIAN         2-FS         3 2-FS           LOWER Cumberland         RIVER         5130205         TRIGG         3 3 2-FS         3 2-FS           LOWER Cumberland         RIVER         5130205         TRIGG         5-PS         3 3 2-FS           LOWER Cumberland         RIVER         5130205         TRIGG         5-PS         3 2-FS           LOWER Cumberland         RIVER         5130205         TRIGG         5-PS         3 3 2-FS           LOWER Cumberland         RIVER         5130205         TRIGG         5-PS         5-PS         3 3 3           LOWER Cumberland         RIVER         5130205         LVON         5-PS         5-PS         3 3 3           LOWER Cumberland         RIVER         5130205         LVON         5-PS         5-PS         3 3 3           LOWER Cumberland         RIVER         5130205         LVON         5-PS         3 3 3           LOWER Cumberland         RIVER         5130205	Lowe Cumberland         RIVER         619006         TRIGG         5-FS         3         4 C-PS         3         4 C-PS         3         3 A C-PS         3         4 C-PS         3         3         3         4 C-PS         3         3         3         4 C-PS         3         3         3         3         3         3         3         3         <		Lower Cumberland	RESERVOIR	513020E	100	27.7	$\rightarrow$		m	5/2/2002	WAH, FC, PCR, SCR
Lower Cumberland         RESERVOIR         5130205         LVM         5-FS         3         2-FS           Lower Cumberland         RESERVOIR         5130205         LVM         2-FS         3         2-FS           Lower Cumberland         RESERVOIR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3 <td>Lower Cumberland         RESERVOR         6132205         LYON         S-FS         3         2-FS         3         3-FS         3-FS         3         3-FS         3-FS         3-FS         3         3-FS         &lt;</td> <td>0.10-4.0</td> <td>Constant Cumbarland</td> <td>DAVED</td> <td>540000</td> <td>LICIA</td> <td>K-F3</td> <td></td> <td></td> <td>8</td> <td>3/3/2006</td> <td>WAH FC. PCR. SCR</td>	Lower Cumberland         RESERVOR         6132205         LYON         S-FS         3         2-FS         3         3-FS         3-FS         3         3-FS         3-FS         3-FS         3         3-FS         <	0.10-4.0	Constant Cumbarland	DAVED	540000	LICIA	K-F3			8	3/3/2006	WAH FC. PCR. SCR
Lower Cumberland         RESERVOIR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RESERVOIR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         2-FS           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         2-FS         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         2-FS         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         2-FS         3           Lower Cumberland         RIVER         5130205         LIVON         5-PS         3         3           Lower Cumberland         RIVER         5130205         LIVIGG         5-PS         3         3<	Cover Cumberland   RESERVOR		Postadeni Cremo	BESTONO	2130203	ואופפ	245			m	5/2/2002	WAH FC POR SOR
Lower Cumberland         RESERVOIR         5130205         CHRISTIAN         2-FS         3         2-FS           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         2-FS           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         3         3         4         8         3         3         3         3         3         3         4         8         3         3         4         8         3         3         3         4         8         3         3         3         4         8         3         3         3         4         8         3         3         4         8         3         3         4         8         3         3         4         8         3         3         4         8         3         3         4         8         3         3         4         8         3	Lower Cumberland   RESERVOR   6130206 CHRISTAN   2-FS   3 2-FS   3 2-FS   3 3-2506	The second secon	2 10 10 10 10 10 10 10 10 10 10 10 10 10	RESERVOIR	CUZUETO	LYON	2-FS			2-FS	SARZOOR	WALL ET DOD GOD
Lower Cumberland         RESERVOIR         5130205         CHRISTIAN         2-F-S         3         2-F-S           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         2-F-S         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         2-F-S         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         2-F-S         3           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3-PS         3           Lower Cumberland         RIVER         5130205         LYON         5-PS         3-PS         3           Lower Cumberland         RIVER         5130205         LYON         5-PS         3-PS         3-PS           Lower Cumberland         RIVER         5130205         LYON         5-PS         3-PS         3-PS           Lower Cumberland         RIVER         5130205         LYON         5-PS         3-PS         3-PS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3-PS         3-PS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         <	Lower Cumberland         RNVER         5130205         TRIGG         5PS         3         2-FS         3         1/172000           Lower Cumberland         RIVER         5130205         TRIGG         5PS         3         3         3         1/172000           Lower Cumberland         RIVER         5130205         TRIGG         5PS         3         3         3         1/172000           Lower Cumberland         RIVER         5130205         TRIGG         5PS         3         3         3         1/172000           Lower Cumberland         RIVER         5130205         TRIGG         5PS         3         3         3         5/12000           Lower Cumberland         RIVER         5130205         LYON         5PS         3         3         3         3/12000           Lower Cumberland         RIVER         5130205         LYON         5PS         5PS         3         3         3/12000           Lower Cumberland         RIVER         5130205         LYON         5PS         3         3         3/12000           Lower Cumberland         RIVER         5130205         LYON         5PS         3         3         3/12000           Lower Cumberl		LOWER COMPONENT	KESEKVOIK	5130205	CHRISTIAN	2-FS			0	SAMOOR	100 CO CO CO
Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3           Lower Cumberland         RIVER         5130205         LIYON         2-PS         5-PS         3           Lower Cumberland         RIVER         5130205         LIYON         5-NS         5-PS         3           Lower Cumberland         RIVER         5130205         LIYON         5-NS         5-PS         3           Lower Cumberland         RIVER         5130205         LIYON         5-NS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3	Lower Cumberland         RIVER         \$130205         TRIGG         5PS         3         3         1742000           Lower Cumberland         RIVER         \$130205         TRIGG         5PS         3         3         124/40006           Lower Cumberland         RIVER         \$130205         TRIGG         5PS         3         3         124/40006           Lower Cumberland         RIVER         \$130205         CHRISTIAN         5PS         3         3         122/2002           Lower Cumberland         RIVER         \$130205         CHRISTIAN         5PS         3         3         3         52/2002           Lower Cumberland         RIVER         \$130205         LIVON         5PS         3         3         3         32/2002           Lower Cumberland         RIVER         \$130205         LIVON         5PS         3         3         3         32/2002           Lower Cumberland         RIVER         \$130205         LIVON         5PS         3		Lower Cumberland	RESERVOIR	5130205	CHRISTIAN	2-FS	-			414 2000	איני לטר טרי דראי
Lower Cumberland RIVER	Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         3         12/4/2008           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         1/2/2002-10/10/2004           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         3         5/2/2002           Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3         3         3         5/2/2002           Lower Cumberland         RIVER         5130205         LYON         5-PS         5-PS         3         3         3/2/2000           Lower Cumberland         RIVER         5130205         LYON         5-PS         5-PS         3         3         3/2/2000           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3         3/2/2000           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3         3/2/2000           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3         3/2/2000           Lower Cumberland	sek 0.0 to 2.9	Lower Cumberland	RIVER	5130205	TRIGG		1		2	0002/1/1	WAH, FC, PCR, SCR
Lower Cumberland RIVER	Lower Cumberland RIVER   513025   TRIGG   5-NS   5-PS   3   3   3   3   3   3   3   3   3	5 20.6	Lower Cumberland	RIVER	543000E	TDIOD	200	+		7		WAH, FC, PCR, SCR
Lower Cumberland RIVER	Lower Cumberland         RIVER         513/2005         TRIGG         5-PS         2-FS         3         5-PS         3         5-PS         3         1/3/2002         1/0/10/2008           Lower Cumberland         RIVER         513/2005         TRIGG         5-PS         3-PS         3         3         3         3/2/2002         3         3         3/2/2002         3         3/2/2002         3         3         3/2/2002         3         3/2/2002         3         3         3/2/2002         3         3         3/2/2002         3         3/2/2002         3         3         3/2/2002         3         3/2/2002         3         3         3/2/2002         3         3/2/2002         3         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3         3/2/2002         3/2/2002         3/2/2002         3/2/2002         3/2/2002         3/2/2002	30.0	Dunar Crambarland	ON/ED	2130203	200	21.0			6	12/4/2008	WAH. FC. PCR. SCR.
Lower Cumberland RIVER 5130205 TRIGG 5-PS 3   5-PS 3	Lower Cumberland         RIVER         5132205         TRIGG         5-PS         3         3         3         5/2/2002           Lower Cumberland         RIVER         5132205         CHRISTIAN         5-PS         3         3         3         5/2/2002           Lower Cumberland         RIVER         5132205         LYON         5-PS         3         3         3         3         5/2/2002           Lower Cumberland         RIVER         5132205         LYON         5-PS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5132205         LYON         5-PS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5132205         LYON         5-PS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5132205         LYON         5-PS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5132205         CHRISTIAN         5-PS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5132205         CHRISTIAN         5-PS         3         3	314	COMPLETE IN	RIVER	CUZUETC	IRIGG	5-PS			3	1/3/2002 - 10/10/2008	WAH EC DOD ACD
Lower Cumberland         RIVER         5130205         TRIGG         5-PS         3-PS         3-BS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         LYON         5-PS         5-PS         5-PS         3-BS           Lower Cumberland         RIVER         5130205         LYON         5-PS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         LYON         5-PS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-BS         3-BS           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-BS         3-BS           Lower Cumberland         RIVER         5130205 <t< td=""><td>Lower Cumberland         RIVER         5130205         TRIGG         6-PS         5-PS         3         3         5/2002           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         5/2002           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         3/22/000           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         3/22/000           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         3/22/000           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-PS         3         3         3         3/22/000           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-PS         3         3         3         3/22/000           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-PS         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3</td><td>100</td><td>Lower Cumberland</td><td>RIVER</td><td>5130205</td><td>TRIGG</td><td>S-NS</td><td>_</td><td></td><td>~</td><td>500000</td><td>MAN CO COL COL</td></t<>	Lower Cumberland         RIVER         5130205         TRIGG         6-PS         5-PS         3         3         5/2002           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         5/2002           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         3/22/000           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         3/22/000           Lower Cumberland         RIVER         5130206         LYON         6-PS         5-PS         3         3         3/22/000           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-PS         3         3         3         3/22/000           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-PS         3         3         3         3/22/000           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-PS         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3	100	Lower Cumberland	RIVER	5130205	TRIGG	S-NS	_		~	500000	MAN CO COL COL
Lower Cumberland RIVER 5130205 CHRISTIAN 5-NS 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         5-NS         3         3         5/2/2002           Lower Cumberland         RIVER         5130205         LYON         5-NS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         LYON         5-NS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         LYON         5-NS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         LYON         5-NS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3/1/2007           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3/1/2007           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3/1/2002           Lower Cumberland <td>9 45.5</td> <td>Lower Cumberland</td> <td>RIVER</td> <td>5130205</td> <td>TRIGG</td> <td>5-ps</td> <td></td> <td></td> <td>0 0</td> <td>202020</td> <td>WAT, PC, PCK, SCK</td>	9 45.5	Lower Cumberland	RIVER	5130205	TRIGG	5-ps			0 0	202020	WAT, PC, PCK, SCK
Lower Cumberland         RIVER         5130206         LOGAN         2-FS         3-B           Lower Cumberland         RIVER         5130205         LYON         5-FS         5-FS         5-FS           Lower Cumberland         RIVER         5130205         LYON         5-FS         3-B         3-B           Lower Cumberland         RIVER         5130205         TRIGG         2-FS         3-B         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3-B         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3-B         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3-FS         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3-FS         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3-B         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         5-FS         3-B           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         5-FS </td <td>Lower Cumberland         RIVER         5130206         L/OGAN         2-FS         3-BS         3-B</td> <td>57.7</td> <td>Lower Cumberland</td> <td>RIVER</td> <td>5130205</td> <td>CHRISTIAN</td> <td>S.N.S.</td> <td>1</td> <td></td> <td>2</td> <td>2002/2/02</td> <td>WAH, FC, PCR, SCR</td>	Lower Cumberland         RIVER         5130206         L/OGAN         2-FS         3-BS         3-B	57.7	Lower Cumberland	RIVER	5130205	CHRISTIAN	S.N.S.	1		2	2002/2/02	WAH, FC, PCR, SCR
Lower Cumberland RIVER   5130205   LYON   5-PS   5-PS	Lower Cumberland         RIVER         5130205         LYON         5-FS         5-PS         5-PS         3         3 4722000           Lower Cumberland         RIVER         5130205         LYON         5-FS         5-PS         3         3         3422000           Lower Cumberland         RIVER         5130205         TRIGG         5-FS         3         3         3         3422000           Lower Cumberland         RIVER         5130205         TRIGG         5-FS         3         3         3         3422000           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3         3         3422000           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3         3         3422002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3         3         3122002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3         3         3122002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-FS         3         3         3132000           Lower Cumberland         RIV	Creek 0.0 to 4.2	Lower Cumberland	RIVER	513020R	NASO	200	1		2	5/2/2002	WAH, FC, PCR, SCR
Lower Cumberland RIVER 5130205 LYON 5-NS 5-PS 5-PS 5-PS 5-PS 5-PS 5-PS 5-PS 5-P	Lower Cumberland         RIVER         5130205         LYON         S-PS         5-PS         3         3 1412007           Lower Cumberland         RIVER         5130205         LYON         5-PS         3         3         3         3122006           Lower Cumberland         RIVER         5130205         TRIGG         2-FS         3         3         3         3         3512002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3512002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3172002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3172002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3172002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3172002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3172002           Lower Cumberland <td>4.6 to 7.0</td> <td>Lower Cumberland</td> <td>DAVED</td> <td>E43000E</td> <td>1000</td> <td>01.7</td> <td>+</td> <td></td> <td>m</td> <td>6/22/2000</td> <td>WAH, FC, PCR, SCR</td>	4.6 to 7.0	Lower Cumberland	DAVED	E43000E	1000	01.7	+		m	6/22/2000	WAH, FC, PCR, SCR
Lower Cumberland RIVER	Lower Cumberland         RIVER         5130205         TRIGG         2-FS         3         3         3         322/2006           a River 1.3 to 3.9         Lower Cumberland         RIVER         5130205         TRIGG         5-FS         3         5/2/2002         3         3         5/2/2002         3         3	118 to 15.5	Designation County	David On the	202020	LTON	2-62	-		m	3/1/2007	WAH, FC. PCR. SCR.
Lower Cumberland RIVER	Lower Cumberland         RIVER         5130205         TRIGG         2-FS         3         3         3         3         5/2/2002           Eurore Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3         5/2/2002           Elower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3/2/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3         3/2/2002           B         Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3         3/1/1996           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3/1/1996           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3         3         3/1/1996           Lower Cumberland         RIVER         5130206         LOGAN         2-FS	2000	Cower Compension	MIVER	2130205	LYON	5-NS	-		6	3/22/2006	WAN EC DOD GOD
Lower Cumberland RIVER	Lower Cumberland         RIVER         5130205         TRIGG         5-NS         3         3         3         3         55/2002           P River 1.3 to 3.9         Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3         55/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3         3         3         3         5/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3         3/12/2007           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3         3/12/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3         3/12/2002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3/13/2002           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3         3         3/13/2002           Lower Cumberland         RIVER         5130206         LOGAN         5-PS </td <td>000</td> <td>Lower Cumberland</td> <td>RIVER</td> <td>5130205</td> <td>TRIGG</td> <td>2-FS</td> <td></td> <td></td> <td>e.</td> <td>Spanno</td> <td>WALL OF SON SON</td>	000	Lower Cumberland	RIVER	5130205	TRIGG	2-FS			e.	Spanno	WALL OF SON SON
New Cumberland RIVER   5130205   CHRISTIAN   5-PS   3   3	Elevatro Cumberland   RIVER   5130205   CHRISTIAN   5-PS   3   3   3   3   55/2002	1 2.7 10 3.2	Lower Cumberland	RIVER	5130205	TRIGG	S-NS			~	500000	COO
a River 1.3 to 3.9         Lower Cumberland         RIVER         6130206         CHRISTIAN         5-PS         3         3           Lower Cumberland         RIVER         5130205         TRIGG         2-FS         3         3         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         5-FS         3           B         Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         5-FS         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-NS         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3           Lower Cumberland         RIVER         5130205         LOGAN         5-PS         3           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS         3           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS         3           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS	P River 1 3 to 3.9         Lower Cumberland         RIVER 5130205         CHRISTIAN         5-PS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	08.0	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS			0	200000	אירו, דכי דכה, טכאי
Lower Cumberland         RIVER         5130205         TRIGG         5-NS         3         3           Lower Cumberland         RIVER         5130205         TRIGG         2-FS         2-FS         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         5-NS         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         3           Lower Cumberland         RIVER         5130206         CIGGAN         5-PS         3           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3         3           Lower Cumberland         RIVER         5130206         LOGAN         2-RS         3         3           Lower Cumberland         RIVER         5130206         LOGAN         2-RS         3         3           Lower Cumberland         RIVER         5130206         LOGAN         2-RS         3         3           Lower Cumberland         RIVER	Lower Cumberland         RIVER         5130205         TRIGG         5-NS         3         3         3         3.22002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3         3.122002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3.122002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3.122002           Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3         3         3.132002           Lower Cumberland         RIVER         5130206         CHRISTIAN         5-NS         3         3         5.122002           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3         3         3.132007           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3         3         10/10/2006           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS         3         3         13/13/2007           Lower Cumberland         RIVER	North Fork of Little River 1.3 to 3.9	Lower Cumberland	RIVER	5130205	CHRISTIAN	5-PS			0	SACISONS	WAT, TC, PCK, SCK
Lower Cumberland RIVER 5130205 TRIGG 2-FS 3	Lower Cumberland         RIVER         \$130205         TRIGG         2-FS         3-B         3-B <td>to 26.6</td> <td>Lower Cumberland</td> <td>RIVER</td> <td>5130205</td> <td>TRIGG</td> <td>SNS</td> <td></td> <td></td> <td>3 0</td> <td>34222000</td> <td>WAH, FC, PCR, SCR</td>	to 26.6	Lower Cumberland	RIVER	5130205	TRIGG	SNS			3 0	34222000	WAH, FC, PCR, SCR
Lower Cumberland RIVER 5130205 CHRISTIAN 5-NS 5-NS 3	Lower Cumberland RIVER 5130205 CHRISTIAN 5-NS 5-NS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	06.1	Lower Cumberland	RIVER	5130205	TRIGG	2.58	-	-	2	7007776	WAH, FC, PCR, SCR
Lower Cumberland RIVER   5130205   CHRISTIAN   5-NS   5-NS   3	Lower Cumberland RIVER 5130205 CHRISTIAN 5-NS 5-NS 3 3 3 5/22002   S. 202002	iver 10.9 to 16.1	Lower Cumberland	RIVER	5130205	CHRISTIAN	A No	014	2	20	372/2007	WAH, FC, PCR, SCR, DV
r 7.0 to 10.9         Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-NS	r 7.0 to 10.9         Lower Cumberland         RIVER         5130205         CHRISTIAN         5-NS         3-NS	River 0.0 to 0.3	Lower Cumberland	RIVER	5130205	CHRISTIAN	SAS	200	200	2	2/2/2002	WAH, FC, PCR, SCR
1,00 to 2.2         Lower Cumberland         RIVER         6130206         CHRISTIAN         5-78         3-78         3-8           0.0 to 2.2         Lower Cumberland         RIVER         6130206         LOGAN         5-PS         5-NS         3-NS	1.03 to 7.0         Lower Cumberland         RIVER         5130205         CHRISTIAN         5-PS         5-NS         3         3         4/1/1988           0.0 to 2.2         Lower Cumberland         RIVER         5130205         LOGAN         5-PS         5-NS         3         3         3         5/2/2002           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS         3         3         3         3/3/2002           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS         3         3         1/3/2007           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         5-NS         3         1/3/2007           Lower Cumberland         RIVER         5130206         LOGAN         2-FS         3         3         1/3/2007           Lower Cumberland         RIVER         5130206         LOGAN         3         3         3         3         3         1/3/2007           Lower Cumberland         RIVER         5130206         LOGAN         5-PS         3         3         3         5/2000           S-4         Lower Cumberland         RIVER         5130206 <t< td=""><td>River 7.0 to 10.9</td><td>Lower Cumberland</td><td>RIVER</td><td>5130205</td><td>CHRISTIAN</td><td>S.Ne</td><td>200</td><td>200</td><td>2</td><td>7007776</td><td>WAH, FC, PCR, SCR</td></t<>	River 7.0 to 10.9	Lower Cumberland	RIVER	5130205	CHRISTIAN	S.Ne	200	200	2	7007776	WAH, FC, PCR, SCR
10 to 2.2   Lower Cumberland   RIVER   5130206   LOGAN   5-PS   3   3   3   3   3   3   3   3   3	Control	Biver 0.3 to 7.0	Lower Cumberland	RIVER	5130205	CHDICTIAN	200	200-0	200	7	4/1/1898	WAH, FC, PCR, SCR
Lower Cumberland RIVER 5130206 LOGAN 2-16 3 3	Lower Cumberland RIVER 5130206 LOGAN 2B(5) 5-NS 3 3 3 3132007  Lower Cumberland RIVER 5130206 LOGAN 2-FS 5-NS 3 3 3 10/10/2006  Lower Cumberland RIVER 5130206 LOGAN 2-FS 5-NS 3 3 3 10/10/2006  Lower Cumberland RIVER 5130206 LOGAN 3 3 3 3 3 3 10/10/2006  Lower Cumberland RIVER 5130206 LOGAN 3 3 3 3 3 5 5/10/2000  Lower Cumberland RIVER 5130206 LOGAN 3 3 3 3 3 5 5/10/2000  Lower Cumberland RIVER 5130206 LIVINGSTON 3 5-NS 3 3 3 5 5/10/2000  Lower Cumberland RIVER 5130206 LIVINGSTON 3 5-NS 3 3 5 5/10/2000	eek 0.0 to 2.2	Lower Cumbarland	DIVED	643000	NA COL	200	2	0	2	5/2/2002	WAH, FC, PCR, SCR
Commerciation	Lower Cumberland RIVER 5130206 LOGAN 5-PS 3 3 3/32007  Lower Cumberland RIVER 5130206 LOGAN 2-FS 5-NS 3 2-FS 3 1/37002 3/132007  Lower Cumberland RIVER 5130206 LOGAN 3-PS 3 3 3 3 1/37002 3/132007  Lower Cumberland RIVER 5130206 LOGAN 3-PS 3 3 3 3 3 6/22000  S.4 Lower Cumberland RIVER 5130206 LOGAN 3-PS 3 3 3 5/1002  Lower Cumberland RIVER 5130206 LOGAN 3-PS 3 3 3 5/10020	54.5	Mar Cimberland	00/40	200000	LOGAN	24.0	ON-C	9	60	5/2/2002	WAH, FC, PCR, SCR, DV
Lower Cumberland RIVER 5130206 LOGAN 5-PS 3 3 3 Lower Cumberland RIVER 5130206 LOGAN 3 3 3 3 Lower Cumberland RIVER 5130206 LOGAN 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Lower Cumberland RIVER 5190206 LOGAN 2-FS 5-NS 3 3 107002008  Lower Cumberland RIVER 5190206 LOGAN 3-FS 3 3 3 3 107002 34/30/007  Lower Cumberland RIVER 5190206 LOGAN 3-FS 3 3 3 3 3 6/2/3000  Lower Cumberland RIVER 5190206 SIMPSON 5-PS 3 3 3 3 6/2/3000  S.4 Lower Cumberland RIVER 5190206 LIVINGSTON 3-FNS 3 3 3 5/2/2002	28.0	Committee Committee	ANTA	2130200	LOGAN	28(5)	S-NS	3	9	3/13/2007	WAH, FC, PCR, SCR, DV
Lower Cumberland RIVER 5130206 LOGAN 2-FS 5-NS 3 Lower Cumberland RIVER 5130206 SIMBASON 5-PS 3 3 Lower Cumberland RIVER 5130206 SIMBASON 5-PS 3 3 Lower Cumberland RIVER 5130205 SIMBASON 5-PS 3 3 Lower Cumberland RIVER 5130205 SIMBASON 5-PS 3 3	Lower Cumberland RIVER 5130206 LOGAN 2-FS 5-NS 3 2-FS 3 17370072 94/302007 LOWER Cumberland RIVER 5130206 LOGAN 5-PS 3 3 3 3 4 7372007 94/302007 LOWER Cumberland RIVER 5130206 LIVINGSTON 3 5-NS 3 3 5 52/2002 LOWER Cumberland RIVER 5130205 LIVINGSTON 3 5-NS 3 3 5/2/2002 LOWER Cumberland RIVER 5130205 LIVINGSTON 3 5-NS 3 3 5/2/2002	20.00 BE D	Lower Compension	KIVEK	9130206	LOGAN	5-PS	က	3	9	10/10/2006	WAH, FC. PCR. SCR. DV
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Lower Cumberland RIVER 5130205 I MINGSTON 2 K NIS 2	Lower Cumberland RIVER 5130205 LIVINGSTON 3 5-NS 3 3 522002	81.3	Lower Cumberland	RIVER	5130208	SIMPSON	5-PS	6		0	8030000	WALL TO DOD SON
SOUTH TOTAL	LOWEr Cumberland RIVER 543005 InMINISTON 2 CANS CONTROL OF THE CON	.7 to 5.4	Lower Cumberland	RIVER	5130205	LIVINGSTON		5.NC	0 0		200000	אטה, רכי רכי מנא
DAVED		10 2.3	Lower Cumbarland	Davido			>					

Sinking Fork 2.2 to 5.6  Sinking Fork 2.4 to 3.0  Sinking Fork 2.1 to 5.0  Sinking Fork 2.1 to 5.0  Sinking Fork 2.1 to 5.0  Sinking Fork 6.1 to 6.8  Sinking Fork 6.1 title River 0.1 to 4.8  Sidyner Creek 0.0 to 4.8  South Fork of Little River 10.3 to 2.3  South Fork of Little River 2.1.3 to 2.0  South Fork of Little River 2.1.3 to 2.0  South Fork of Little River 5.3 to 7.9  South Fork of Little River 0.0 to 5.3  Lower Cumberland Spring Creek 1.0 to 1.4  Lower Cumberland Little Wing Creek 1.0 to 1.4  Lower Cumberland Little Wingscowill Creek 0.0 to 0.8  Ut to Euthon Creek 0.0 to 0.8  Ut to Euthon Creek 0.0 to 0.8  Lower Cumberland Ut to Little Whipppoowill Creek 0.0 to 0.8  Lower Cumberland Ut to Little Whipppoowill Creek 0.0 to 0.8  Lower Cumberland Lower Cumberland Ut to Euthor Creek (not name) 0.6 to 2.0  Lower Cumberland Lower Cumberland Lower Cumberland Ut to Euthor Creek (not name) 0.6 to 2.0  Lower Cumberland Lower Cumberland Lower Cumberland Lower Cumberland Ut to Euthor River Comberland Lower Cumberland Lower Cumberland Lower Cumberland Lower Cumberland Lower Cumberland Ut to Euthor River Comberland Lower Cumberland Lower Cumberland Lower Cumberland Lower Cumberland Lower Euthorise Lower Cumberland Lower Cumberland Lower Euthorise Lower Cumberland Lower Cumberland Lower Cumberland Lower Cumberland Lower Cumberland Lower Euthorise Lower Cumberland Lower Cumberland Lower Euthorise Lower Euthorise Lower Euthorise Lower Euthorise Lower Euthoris	<del></del>		910000000000000000000000000000000000000	TRIGG TRIGG TRIGG CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN TODD CHRISTIAN CHRISTIAN TODD CHRISTIAN CHARAN CHRISTIAN C	<b>3</b>	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Figh Consumotion   Day Consu	DAYS         Abbests Date           3         3/14/2007           3         3/14/2007           3         3/19/2007           3         3/19/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         4/2/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         5/2/2002           3         10/10/2006           3         5/2/2007           3         10/10/2006           3         3/19/2007           3         3/19/2007           3         3/19/2007           3         3/19/2009           3         3/19/2009           3         3/19/2009           3         3/19/2009           3         3/19/2009           3         3/19/2009           3         3/19/2009           3         3/19/2009           3		CAH, FC, PCR, SCR WAH, FC, PCR, SCR
8 0.1 to 0.6 to 0.8 to			<del></del>	TRIGG TRIGG TRIGG TRIGG TRIGG TRIGG CHRISTIAN TOGAN TODO CHRISTIAN TRIGG LYON TODO CHRISTIAN TRIGG LYON TODO CHRISTIAN TRIGG LYON TRIGG LYON TRIGG LYON TRIGG CHTON HICKMAN FULTON HICKMAN HICKMAN			<del>; ; , , , , , , , , , , , , , , , , , ,</del>	<del>*******************************</del>	+++++++++++++++++++++++++++++++++++++++	<del> </del>	######################################
5 to 10.3 3 to 20.3 3 to 26.1 10 5.3 7.9 6 6 6 6 6 0.1 to 0.6 9 on map) 0.6 to 2.0			<del></del>	TRIGG CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN LOGAN LOGAN LOGAN CHRISTIAN LIVINGSTON CHRISTIAN TRIGG LIYON CHRISTIAN TRIGG CHRISTIAN TRIGG CHRISTIAN CHRISTIAN TRIGG CHRISTIAN TRICKAN T		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			+++++++++++++++++++++++++++++++++++++++	<del></del>	1 F.C. PCR SCR
			<del>                                      </del>	CHRISTIAN  CHRISTIAN  LYON  TIYON  TIYON  CHRISTIAN  CHRISTIAN  CHRISTIAN  LOGAN  LYON  LYON  LYON  LYON  LYON  LYON  LYON  LYON  CHRISTIAN  LYON  LYON  LYON  LYON  CHRISTIAN  LYON  LYON  LYON  LYON  CHRISTIAN  LYON  CHRISTIAN  LYON  CHRISTIAN  LOGAN  CHRISTIAN  HICKAN		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			+++++++++++++++++++++++++++++++++++++++	<del></del>	H FC PCR SCR H
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				LOGAN LOGAN LYON TODO CHRISTAN LIVINGSTON CHRISTAN TRIGG LYON TRIGG LYON TODO CHRISTIAN TODO CHRISTIAN TODO CHRISTIAN TODO HICKNAN HICKNAN HICKNAN HICKNAN		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			+++++++++++++++++++++++++++++++++++++++	<del></del>	1 FG PCR SCR 1
			<del>+;++;++++++++++</del>	LOGAN TODD CHRISTIAN LIVINGSTON TRIGG LYON LOGAN TRIGG RALLARD FULTON HICKMAN HICKMAN HICKMAN HICKMAN HICKMAN HICKMAN HICKMAN		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			+	<del>+++++++++++++++++++++++++++++++++++++</del>	1 FG, PCR, SCR, SCR, SCR, SCR, SCR, SCR, SCR, S
			<del></del>	LYON LYODD CHRISTIAN LININGSTON SIMPSON SIMPSON TRIGG LYON TODD CHRISTIAN LOGAN LOGAN HICKMAN HICKMAN HICKMAN HICKMAN HICKMAN HICKMAN		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				<del></del>	1 FC, PCR, SCR, DWS  1 FC, PCR, SCR, DWS  1 FC, PCR, SCR, SCR, SCR, SCR, SCR, SCR, SCR, S
				TODD CHRISTIAN CHRISTIAN CHRISTIAN TRIGG LYON LOGAN TODD CHRISTIAN LOGAN FULTON HICKMAN HICKMAN HICKMAN HICKMAN HICKMAN		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		<del></del>	C. PCR, SCR, DWS  1 FC, PCR SCR  1 F
			<del>                                      </del>	CHRISTIAN LIVINGSTON CHRISTIAN CHRISTIAN LOGAN LOGAN LOGAN LOGAN LOGAN LOGAN HICKMAN		2		2 2 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 FC, PCR, SCR 1 FC,
				SIMPSON CHRISTAN TRIGG LYON LOGAN LOGAN LOGAN LOGAN HICKNAN HICKNAN HICKNAN HICKNAN HICKNAN		2-48 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1 FC, PCR, SCR, SCR, SCR, SCR, SCR, SCR, SCR, S
				SIMPSON CHRISTIAN TRIGG LOGAN TODD CHRISTIAN LOGAN BALLARD FULTON HICKMAN HICKMAN GRAVES GRAVES	± 1	2 + + 2 + + 2 + + 2 + 4 + 4 + 4 + 4 + 4		22-FS			1. FC. PCR. SCR. SCR. SCR. SCR. SCR. SCR. SCR. S
				CHRISTAN TRIGG L'YON LOGAN TODD CHRISTAN LOGAN BALLARD FULTON HICKMAN HICKMAN HICKMAN HICKMAN RALLARD		2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3		2		<del>                                      </del>	1 FC PCR SCR 1 FC
			5130205 5130205 5130206 5130206 5130206 8010201 8010201 8010201 8010201 8010201 8010201	TRIGG LYON LOGAN TODD CHRISTIAN LOGAN BALLARD BALLARD FULTON HICKMAN HICKMAN ROLLON GRAVES GRAVES		2 2 2 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			1. F.C. P.C.R. SCR. 1.
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			5130208 5130208 6130208 8010201 8010201 8010201 8010201 8010201	TODD CHRISTIAN LOGAN ELOGAN FULTON HICKMAN HICKMAN GRAVES BALLARD		2-FS 3 3 2-FS 3 3 5-FS 3 5-		22-FS 23-33-33-33-33-33-33-33-33-33-33-33-33-3			1. FC, PCR, SCR. 1. FC,
			5130206 5130206 8010201 8010201 8010201 8010201 8010201	CHRISTIAN LOGAN BALLARD FULTON HICKMAN HICKMAN GRAVES BALLARD		2-FS 3 3 5-FS 3 3 5-FS 3 3 5-NS		2-FS 2-FS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 FC, PCR, SCR 1 FC, PCR, SCR, SCR, SCR, SCR, SCR, SCR, SCR, S
			5130206 8010100 8010201 8010201 8010201 8010201	LOGAN BALLARD FULTON HICKMAN HICKMAN HICKMAN GRAVES BALLARD		3 8 2-FS 3 8-NS 3 8-NS		27-FS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			1 FC, PCR, SCR 1 FC, PCR, SCR, SCR, SCR, SCR, SCR, SCR, SCR, S
			8010201 8010201 8010201 8010201 8010201	BALLARD FULTON HICKMAN FULTON HICKMAN GRAVES BALLARD		3 S-NS		2-FS 2-FS 3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-			1 FC, PCR, SCR 1 FC, PCR, SCR 2 FCR, SCR, SCR 3 FCR, SCR, SCR
00142			8010201 8010201 8010201 8010201 8010201	FULTON HICKMAN FULTON HICKMAN GRAVES		4A-NS 5-NS 3		2-FS 2-FS 3			1 FC, PCR, SCR 1 FC, PCR, SCR 1 FC, PCR, SCR 1 FC, PCR, SCR 1 FC, PCR, SCR C, PCR, SCR C, PCR, SCR
			8010201 8010201 8010201	HICKMAN FULTON HICKMAN GRAVES BALLARD		4A-NS 5-NS		2-FS 3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-			1 FC, PCR, SCR 1 FC, PCR, SCR 1 FC, PCR, SCR 1 FC, PCR, SCR 1 FC, PCR, SCR C, PCR, SCR
2			8010201 8010201 8010201	FULTON HICKMAN GRAVES		S-NS S-NS		2+S			1, FC, PCR, SCR 1, FC, PCR, SCR 1, FC, PCR, SCR 1, FC, PCR, SCR C, PCR, SCR, DWS
4.3			8010201	HICKMAN	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	S es e	m m m	000			1, FC, PCR, SCR 1, FC, PCR, SCR 1, FC, PCR, SCR C, PCR, SCR, DWS
Brush Creek 0.0 to 6.3			8010201	GRAVES	3 S &	e e	00	8	20000		1, FC, PCR, SCR 1, FC, PCR, SCR C, PCR, SCR, DWS
			רטצטרטפ	GRAVES	5-PS	e	9	-	U I I I I I I I I I I I I I I I I I I I		C, PCR, SCR, C, PCR, SCR, DWS
				BALLARD	က	>	And in case of the	-	3 7/5/200		C, PCR, SCR, DWS
Bek 0.0 to 3.0		Sales Control	9010100			9	9	60	3		כי שכשי האתם
		KIVEK	8010202	GRAVES	SN-S	3	3	m	3 RDRDON	-	1 100 000 000
		KIVEK	8010201	HICKMAN	S-PS	3	3	9	3 7/12/2000		WANT, TC, TCK, SCR
Cane Creek 3.3 to 4.1		KIVEK	8010100	BALLARD		9	3	6	3 7/8/2000		ייייי מראי טראייי
		RIVER	9010201	GRAVES		58-PS	2		RIAMON		WAT, TC, PCR, SCR, DWS
		RIVER	8010201	HICKWAN	S-NS	60	3	0 6		-	C, PCR, SCR, DWS
		RIVER	8010201	CARLISLE		4A-NS	67	0 6	200000000000000000000000000000000000000		WAH, FC, PCR, SCR
		RIVER	8010201	GRAVES		4A.NS	0 6	2 0	-		WAH, FC, PCR, SCR
		LAKE	8010100	BALLARD	63	2	0 6	2 6	3 5/2/2002	WAH	I, FC, PCR, SCR
Mississip		RIVER	8010201	GRAVES	SN-S		0 6	2 6	2	WAH	WAH, FC, PCR, SCR
		RIVER	8010201	GRAVES	S-PS	, 6	200	2 6			WAH, FC, PCR, SCR
		RIVER	8010100	BALLARD	SNS	0 00	0 6	2 6			I, FC, PCR, SCR
		RIVER	8010201	CARLISLE	202	2 6	0 0	200	3 7/8/2000		CAH, FC, PCR, SCR
3.0		RIVER	8010201	GRAVES	2 50	2 0	200	200		,	WAH, FC, PCR, SCR
			8010201	GRAVES	E No	2 0	2 0	200	3 10/10/2006		f, FC, PCR, SCR
Chob Creek 1.3 to 3.0 Mississippi River		RIVER	8010202	CDAVE	200	2 0	200	9	3 2/28/200		WAH, FC, PCR, SCR
Jok Creek 0.0 to 2.2		RIVER	BO10201	CADITOLO	250	20	20	9	3 5/2/2002		I. FC. PCR. SCR
10.0 to 12.3	1	DAVED	9010201	CARLIBLE	248	0	9	3	3 2/28/200	WAH	WAH, FC. PCR. SCR
			00010201	2000	SN-C	9	3	2	3 52/2002	WAH	WAH, FC. PCR. SCR
			001000	HICKWAN	5-PS	60	9	3	3 5/2/2002	WAH	WAH, FC, PCR, SCR
01020		NA VED	רטאטרטפ	HICKMAN	S-NS	က	3	3	3 7772000		WAH FC PCR SCR
			רטבטרטפ	GRAVES	S-NS	3	3	3	3 6/28/2000		WAH EC DOD SOD
			8010201	HICKWAN	5-PS	60	6	9	3 3222006		EC DO CO
			8010201	HICKWAN	2-FS	က	8	3	3 11/7/2001		WAH EC POD SCO
			8010201	GRAVES	5-PS	ന	က	3	3 10/10/200		WAH EC DOD SCO
			8010201	FULTON	S-PS	9	3	3	3 7/12/2000		בי פינפ פינפ
			8010201	CARLISLE	T	58-ps	9		S S S S S S S S S S S S S S S S S S S		WASHING POR SCR
Mississippi River			8010201	CARLISLE	5-PS	67	3	5 67	71100000		ביים היים היים היים היים היים היים היים
		RIVER	8010201	MCCRACKEN	5-PS	67		2 6	0000000		WAH, FC, PCR, SCR
sylield Creek 35.1 to 38.2				GRAVES	5-PS			2 6	S SAMANO		WAH, FC, PCR, SCR
mek 59.6 to 62.3 Mississippi River		RIVER	8010201	CALLOWAY	S.N.S.			200	2002/2/0	WAH	FC, PCR, SCR
Mayfield Creek 11.1 to 16.5		RIVER	8010201	CARISIE	SAIC	0	2 2	2	302/2002	WAH	, FC, PCR, SCR

THE PLANT CLOSE SOLVE TO 4U.O				A COUNTY			Ca Fleh Consumellon	DWG		
7	Mississippi River		8010201	GRAVES	A.NC	1014	TIER CONSUMOTION		Assess Date	Designated Uses
Missission River 868 O to 050 F	Mississippi River	RIVER	8010201	GRAVES	2 No	0		6	3/2/2007	WAH, FC. PCR. SCR
600.0	Mississippi River	RIVER	8010100	ELII TON	CINO	+	en.	6	7/25/2006	WAH FC PCP SCP
	Mississippi River	RIVER	BO40204	TOLION TOLION	9	m	3 2-FS	6	3/2/2007	WALE OF STATE
Obion Creek 40.8 to 44.2	Mississippi River	RIVED	001020	LOLION OLION	S-NS	က	3	3	4/1/1008	אינה ירכי ירכאי
	Mississippi River	DAVED	0010201	HICKMAN	S-NS	e	3	6	4/4/2002	אירה, רכי, הכא
The state of the s	Mississingi Diver	DINATO	1020100	HICKWAN	5-PS	6	3	6	4142000	WAH, FC, PCR, SCR
	DAY INCOME	KIVEK	8010201	FULTON	S-NS	SN-S	2	0	4/4/2002	WAH, FC, PCR, SCR
	Mississippi Viver	MIVER	8010201	HICKMAN	2-FS	6	000	2 6	1002/21%	WAH, FC, PCR, SCR
Opposium Creak Offith 23	Mississippi Kiver	RIVER	8010201	GRAVES	5-ps		200	2	10/10/2006	WAH, FC, PCR, SCR
Dellot (Matricel Chessel) steries	Mississippi Kiver	RIVER	8010201	GRAVES	F.NC		2	2	1/3/2002	WAH, FC, PCR. SCR
Duralian State Contract of the State Contract of the 10 20.4	Mississippi River	RIVER	8010201	CARISIE	200	2 0	9	6	8/28/2000	WAH, FC. PCR. SCR.
	Mississippi River	RIVER	8040000	ELL TON	200	2	0	n	10/3/2007	WAH EC POR SOR
	Mississippi River	BN/ED	8040004	TOLION	2-62	3	3	6	7/5/2001	WAL EC DOD SON
	Missississis Direct	CIAN:	OZOLOZOL	GRAVES	2-FS	6	3		40,40,000	אטרי יבי יבי
Shawnee Creak 3.2 to 12.4	Mississical Civilia	KIVEK	8010100	BALLARD		58-PS		2 6	LOCAL COLOR	WAH, FC, PCR, SCR
	Mississippi River	RIVER	9010100	BALLARD	T			2	5/2/2002 - 1/1/2007	WAH, FC, PCR, SCR
10 3./	Mississippi River	RIVER	8010100	DALL ADO	3	1	2-1-5	n	7/5/2001 - 1/28/2008	WAH FC PCR SCR
South Fork Bayou de Chien 2.0 to 7.4	Mississipol River	BIVED	804000	מארושט	22-0	2-FS	3	9	3/14/2007	WAN EC BOD GOD
South Fork of Bayou de Chien 0.0 to 2.0	Mississippi Dives	200	020100	GRAVES	SN-C	m		er.	775,0004	100 000 01 1100
	Manager Manager	RIVER	8010201	GRAVES	5-PS	3	2		I ON THE COL	WAH, P.C. PCR, SCR
	Mississippi River	RIVER	8010201	RALLARD	2 50	-	-	2	3/22/2008	WAH, FC, PCR, SCR
	Mississhool River	RIVER	8040004	2000	6-1-3		3	m	7/8/2000	WAH EC BOD GOD
	Mississipsi Direc	VIANE I	ממומצחו	BALLARD	S-PS	e .	3		ROOMOOO	100 000 01 1777
	With the state of	LAKE	8010100	BALLARD	2-FS	0		0	O'A BILLOO	WAH, FC, PCR, SCR
	Mississippi River	RIVER	8010202	CDAVEC	0	+		2	3/6/2006	WAH, FC. PCR. SCR
	Mississioni River	DAVED	2000000	CLANES			9	9	3/20/2007 - 3/23/2007	WALL ED BOD GOO
	DAN MARIE	NIVER	10Z0L08	GRAVES		58-PS			000000	אטיי, דכי דכאי שנא
	Mississippi River	RIVER	8010201	CARLISTE	1			2	842/2002	WAH, FC, PCR, SCR
	Mississippi River	RNER	8040004	TION O	Ī	21-02	20	m	5/2/2002	WAH FC PCR SCR
UT to Brush Creek 0.0 to 1.9	Mississippi Direct	CLIVE OF THE PARTY	1020100	CARLISE	S-PS	(n)	9	62	SUSSISSIONE	100 CO CO CO CO
13	Mississippi Kiver	KIVER	8010201	HICKMAN	S-NS			0	3444400	WAH, PC, PCR, SCR
0.1.0	Mississippi River	RIVER	A010201	MACDACKEN	200	-		9		WAH, FC. PCR. SCR
UT to Mayfield Creek 1,1 to 3,5	Mississips Diver	02,40	001000	MCCKACKEN	SN-C	m	3	e	SOCIO	100 000 CD 1000
	Manage Ma	RIVER	8010201	GRAVES	S-NS	63			2000000	אינה, דכר, חכר,
I'T to Other Other Control	Mississippi Kiver	RIVER	8010201	FULTON	S.N.C.			2	3/7/2/02	WAH, FC, PCR, SCR
Ut to Opion Creek 1.6 to 2.2	Mississippi River	RIVER	PO40204	CIPCATAN	014.5	-		9	3/22/2006	WAH, FC. PCR. SCR
West Fork Mayfield Creek 5.3 to 15.5	Mississippi Diver	00/40	2000000	MANAGE	ON-C	9	8	e	5/2/2002	WAH EC DOD GOD
		MINEN	1070100	CARLISLE	2-FS	_	3		3034000	200,000,000
	Mississippi Kiver	RIVER	8010201	CARLISLE	2. S.	U		0	34 112000	WAH, FC, PCR, SCR
	Mississippi River	RIVER	8010201	CARISHE	200	1		2	3/23/200/	WAH, FC, PCR, SCR
	Ohio River	PEREDVOID	200000	O A STATE OF THE PERSON OF THE	2-13	-		m	7/7/2000	WAH EC DOR SOD
	100	WEST WORK	IOZOAOC	CAMPBELL	60	m	3-PS	67	1/21/2008	100 CO CO CO CO
	OTIO RIVE	RIVER	5090203	BOONE	5.PS				000711011	WAR, P.C. PCR, SCR, DWS
	Ohio River	RIVER	514020B	MACDACKEN	200	+	9	מי	4/11/2001	WAH, FC, PCR, SCR, DWS
	Ohlo River	RIVER	6440000	TO LOCATION I	2			က	2/22/2007	WAH FC PCR SCR
	Ohio Biser	OB ADO	t	LIVINGSION	SN-C	3		6	3/1/2003	WAH EC DOD COD
	O III	KIVER		BRECKINRIDGE	SN-G	63	67	c	24 2000	איני דיי דיי איני
	Ono River	LAKE	5140208	BALLARD	64	6		2	2/1/2003	WAH, FC, PCR, SCR
	Ohlo River	RIVER	+	RDECKINDINGE	200	+		3		WAH, FC, PCR, SCR
	Ohio River	RIVED	5440204	DAMIES	2-12	2		6	10/1/2007	WAH, FC. PCR. SCR. DWS.
	Obio Bires	ON NO	1070410	DAVIESS	SN-C	0		9	1/23/2008	WAH EC DOD COD
	200	MIVEN	2020203	BOONE	2-FS	e0	6	3	SUNCHE	WALL CO DOG SOO
	NAME OF THE OWNER OWNER OF THE OWNER	KIVEK	2080203	BOONE	2-FS	n		6	8/1/2000	איני רטי יטרי ידיני
	Onio River	RIVER	5090203	GALLATIN	S-PS	+		0	00/1/2000	WAH, P.C. PCR, SCR
	Ohio River	RIVER	5140201	HANCOCK	2 50	0	2 6	2	3/3/2005	WAH, FC, PCR, SCR
	Ohio River	RIVER	F140204	HANDOON	200	1		9	1/22/2008	WAH, FC, PCR, SCR
	Ohlo Dhar	OF SO	1000	2000	2	3	6	m	2/28/2003	WAH EC DOB SOD
		MIVER	2140201	HANCOCK	2-FS	е С	3	6	1/23/2008	100 000 00 may
	Onio River	RIVER	5090201	BRACKEN	S-PS	6			0002000	איבן, דני, דנא, שנא
	Ohio River	RIVER	5090201	EWIS	A.DC			2	CONZACZANI	WAH, FC, PCR, SCR
	Ohio River	RIVER	5090201	CAMBBELL	Ť	1		2	10/24/2005	WAH, FC, PCR, SCR
	Ohio River	OD/VO	24 40000	Court DELL	2-L3		m	m	2/5/2001	WAH FC PCR SCR DWS
	Objo Divos	MINER	2070400	LIVINGSION		3	en	3	3/1/2003	WAH SC DOD SOD DAVE
Bidohara Branch O O to O 2	OTHO RIVE	- AKE	2140206	BALLARD	8	9	6	6		מייים מיים מיים מיייים
	Ohio River	RIVER	5140201	HANCK	2-FS	0		2 6	300000	WAH, FC, PCR, SCR, DWS
	Ohio River	RIVER	5140201	HANCK		4A-NG 4A MC		2	6/3/2005	WAH, FC, PCR, SCR
	Ohio River	RIVER	5090201	MASON	ţ			2	2/14/2006	WAH, FC, PCR, SCR, DWS
	Ohio Blue	00000	200020	MASON	24-0			6	2/5/2001	WAH FC PCR SCR
	DAIN CHO	AN TO SE	5140203	CRITTENDEN	2-FS	8	8	6	3/1/2003	WAH EC DOD SOD
	Chio River	RIVER	5140202	HENDERSON	S-NS	SN-S SN-S		6	4722000	100 COL 101 101
	Ohio River	RESERVOIR	5140201	DAVIESS	S. D.C.	+		2	1123/2000	WAH, P.C. PCR, SCR, DWS
	Ohio River	RIVER	5140202	NOINI	S.N.S.	+		2	11/14/2008	WAH, FC, PCR, SCR, DWS
	Ohio River	RIVER	514020R		25				2/4 /2/0/3	WALL DO DO DO DAY
	GAIN CHILD	MAPE	- Charles and Company	DAI: ADD	410			2	ON ITEMOS	מאח יבים יבים יבים יבים
		The street	200	BALLARD	SN-S	3	000	9 69	7/6/2000	WAH FC PCP SCP DIVE

Cedar Creek 0.0 to 5.2 Codar Creek 4.2 to 11.1 Chepin River 0.0 to 23.1 Chepin River 4.0 to 63.1 Chepin River 40.3 to 69.7 Chepin River 49.7 to 78 Chepin River 32.0 to 69.7 Chepin River 32.0 to 78 Chepin River 32.1 to 78 Chepin River 32.2 to 4.4 Cheroweth Run 0.0 to 5.2	Sait Diver	Weller Body Type	8-Digit HUC	County	MALINAL	000	11	DIME		
Ceder Creek 4.2 to 11.1 Chaplin River 0.0 to 23.1 Chaplin River 40.9 to 54.2 Chaplin River 40.9 to 54.7 Chaplin River 63.0 to 59.7 Chaplin River 63.7 to 76 Chaplin River 29.7 to 76 Chaplin River 29.7 to 74 Chaplin River 20.7 to 4.4 Chercoweth Run 0.0 to 5.2			-				TO THE PARTY OF TH	200		
Chaplin River 40,8 to 54.2 Chaplin River 40,8 to 54.2 Chaplin River 63,0 to 69.7 Chaplin River 63,0 to 78 Chaplin River 32,8 Chaplin River 32,8 Cheese Lick 0,7 to 4,4 Cheroweth Run 0,0 to 5.2	DAIL NEO	KIVEK	5140102	BULLITT	2.58	+	Transcription agent	71.7	ASSens Date	Designated Uses
Chaplin River 40.9 to 54.2 Chaplin River 63.0 to 69.7 Chaplin River 69.7 to 78 Chaplin River 32.8 to 32.8 Cheese Lick 0.7 to 4.4 Cheeroweth Run 0.0 to 5.2	Sert RIVE	RIVER	5140102	JEFFERSON	2.50	+	7	0	9/20/2005	WAH, FC. PCR. SCR
Chapter River 40.3 to 54.2 Chapter River 63.0 to 68.7 Chapter River 69.7 to 76 Chapter River 22.6 to 32.8 Chesse Lick 0.7 to 4.4 Cheroweth Run 0.0 to 5.2	Salt River	RIVER	5140103	MEIODA	2 2 3	5-L3	3	e	3/12/2001	WAH EC BOD O
Chaplin River 63.0 to 69.7 Chaplin River 69.7 to 76 Chaplin River 22.8 Cheese Lick 0.7 to 4.4 Cheroweth Run 0.0 to 5.2	Salt River	RIVER	2440400	MELSON	2-FS	5-NS 2-FS	6	6	12/1/2005	MAN TO SON SON
Chaptin River 69.7 to 76 Chaptin River 32.8 to 32.8 Cheese Lick 0.7 to 4.4 Cheroweth Run 0.0 to 5.2	Salt River	00000	2010210	WASHINGTON	2-FS	9	60		ONONNO	אירון רכי רכא מכ
Chaplin River 32.8 to 32.8 Cheese Lick 0.7 to 4.4 Cheroweth Run 0.0 to 5.2	O Section 1	MINER	1	MERCER	5-NS	3	c	0	OUZUZUO.	WAH, FC, PCR, SC
Cheese Lick 0.7 to 4.4 Cheroweth Run 0.0 to 5.2	DATE OF THE OWNER OWNER OF THE OWNER	KIVEK		MERCER	2-FS	3		0 0	4/W/ZUU1	WAH, FC, PCR, SC
Chenoweth Run 0.0 to 5.2	DEEL KIVE	RIVER	5140103	WASHINGTON	2,58	-	2 6	2	4/9/2001	WAH, FC, PCR, SCR
CHAIRMAN TO BO D.C.	San River	RIVER		ANDERSON	A DC	0	1	9	4/8/2001	WAH, FC, PCR. SCR.
Change of the Party of the Part	Selt River	RIVER	5140102	FEFFER	200	1	69	9	10/6/2005	WAH, FC. PCR. SCR
CHENDWELL RUL D.Z. 10 N.Z.	Salt River	RIVER	5140102	(CEPECOO)	OL-UL		9	6	3/12/2001	WAH FC PCP SCD
Chickesew Park Pond	Salt River	DOMO	50100105	JELLERSON	4A-PS	S	6	3	3/12/2001	WALL ED DOD O
Clear Creek 0 to 4.4	O Set	CANTO	LOLOPIC	JEFFERSON	3	6	S-P.S	6	100000	WAT, TC, PCK, SCK
Clear Creek 0.0 to 11.0	TO THE O	NIVER	5140103	HARDIN	S-NS	60			4400000	WAN, FC, PCK, SCK
Corn Creek 00 to 4 1	Cent River	RIVER	5140102	SHELBY	S-NS	-		2 0	WO/ZUD1	WAH, FC, PCR, SCR
Can Caral 44 0 1- 45 C	Self River	RNER	5140101	TRIMBIE	2.50	+	2	2	1/12/2001	WAH, FC, PCR, SCR
CUX C/ BON 11.2 TO 10.0	Saft River	RIVER	5140103	MEI PON	200	+	m	n	8/2/2000	WAH FC PCR SCR
Cox Creek 0.0 to 4.7	Salt River	DNAD	2010102	NETSOL	S-PS	-	e	9	7/28/2000	WALL CO GOD ON
Crooked Creek 1.0 to 10.1	Call Direct	MAEN	2010410	BULLITT	2-FS	5-PS 2-FS	67		ADDOCACA	20 707 07 157
Crocked Creek 5.8 to 12.8	OUR KING	KIVER	5140102	SPENCER	2-FS	3		, ,	2007077	WAH, FC, PCR, SC
Control of the Contro	SER RIVER	RIVER	5140103	BULLITT	S.N.S.	T	1	2	OVEZENDO	WAH, FC, PCR, SCR, DWS
Curys ruff CO 10 4.8	Salt River	RIVER	5140102	OI DHAM	200	+	2	2	8/11/2000	WAH, FC, PCR, SC
DOCTOR FORK 0.0 to 3.8	Saft River	RIVER	5140103	200	2 6	7	9	3	12/1/2005	WAH, FC. PCR. SCR.
Doe Run 4.1 to 7.9	Salt River	DNACO	2440404	DOLLE	2+2	3	8	6	10772005	WAH EC DOD SOD
Doe Vailey Lake	Self Diver	Droite Con	1	MEADE	2-FS	5-NS 3	6	67	SAROOM	WALE CO DOD ON
East Fork Reach Early 0.0 to 1.0	DAIL SEE	RESERVOIR		MEADE	6		c	2.50	44.44.000	יייין דיי דיי דיייי
Ent Cot Cot Cot A 2	Sent River	RIVER		WASHINGTON	5-PS	3		2	CONTRACT I	WAH, FC, PCR, SCR
ERRY FOR CITED VOID 4.3	Salt River	RIVER	1	BUILIT	2.50	-	2	2	10/7/2005	WAH, FC, PCR, SC
Filgen Branch Keservoir	Selt River	RESERVOIR	5140103	MADION	-	1	2	0	8/4/2000	WAH, FC. PCR. SCR
Fern Creek 1,3 to 4,4	Salt Diver	Day wo	2000	MACADON	2	60	n	2-FS	10/18/2005	WAH EC DOD O
Fern Creek 0.0 to 1.3	0 100	RIVER	2010702	JEFFERSON	S-NS	5-NS 3	m	6	500004	COO
Com Creek 4 4 to 5 o	DER RIVER	RIVER	5140102	JEFFERSON	5-PS	L		0 0	NAME OF THE PARTY	WAH, FC, PCK, SC
THIS CLEAN, 4.4 10 3.9	Salt River	RIVER	5140102	JEFFFRSON	200	1	2	2	3/22/2001	WAH, FC, PCR, SCR
Fishbool Creek 0.0 to 1.9	Salt River	RIVER	5140102	IEEEEDEON	200	1	7	2	3/12/2001	WAH, FC, PCR, SCR
Floyds Fork 0.0 to 11.6	Salt River	RIVER	5140102	Di il ITT	2-7-7	+	9	8	3/22/2001	WAH, FC. PCR. SC
Floyds Fork 11.6 to 24.2	Saft River	DAVED	6440400	POLLIII	1	ď	2-FS	9	9/20/2005	WAH FC PCR SCR
Floyds Fork 24.2 to 34.1	O Her	DAVED	2010-10	JEFFERSON		5-NS 3	9	3	10/15/1999	WAN EC DOG O
Floyda Fork 34 1 to 61 9	Call Civer	RIVER	5140102	JEFFERSON		5-PS 2-FS	e		42/4/200K	אטרי דרי דרי אטרי
Glane Creak O 0 to 4 8	Sen River	KIVER	5140102	SHELBY	T	H	C.	0 6	42/4 2000	WAH, FC, FCK, SC
Contact O State Se	Ser Krer	RIVER	5140103	WASHINGTON	5-PS			2 6	20071171	WAH, FC, PCR, SCR
Cooper Clean U.S ID S.O.	Self River	RIVER	5140101	JEFFERSON	+	-	000	2 0	CONZALIAL	WAH, FC, PCR, SCR
GOODE CITER 3.0 to 13.0	Salt River	RIVER	5140101	JEFFERSON	5 DC	S No	2	20	3/12/2001	WAH, FC, PCR, SCR
Gritvel Creek 0.7 to 2.9	Salt River	RIVER	5140102	THE I	+	-	3	m	3/15/2001	WAH, FC, PCR. SC
Guist Creek 0.0 to 15.4	Salt River	RIVER	5440403	POLLI I	2-12	1	n	e	10/10/2005	WAH. FC. PCR. SCR.
Guist Creek 15.4 to 27.6	Salt River	DAVED	2440400	SUCCES	2+2	3	e	0	3/25/2002	WAH FC PCR SC
Guist Creek Lake	Salt Diver	DECEMBER	2010-10	SMELBY	5-PS		2-FS	9	3/25/2002	WAH EC DOD OCE
Hammond Creek 0.0 to 5.2	DATE OF THE OWNER OWNER OWNER OF THE OWNER O	AESERACIE.	2010702	SHELBY	S-NS	3 2-FS		5-PS RIZE	20005 - 121000a	MAN CO GOO GOO
Hardina Craek D Oto & O	COURT NAME	KIVEK		ANDERSON	က	3	2-FS	+	RIAMOOO	MAN TO POR SO
Heading Court of the To	DEM KIVE	RIVER		BRECKINRIDGE	S-NS				Tramon	אייין, דכי, דכאי
Contraction of the Contraction o	Selt River	RIVER	5140103	WASHINGTON	2.58			2 0	1120/2000	WAH, FC, PCR, SCR
FILITIONS CROCK 13.3 to 22.9	Salt River	RIVER	5140103	MARION	A.De	+	200	2	3//2001	WAH, FC, PCR, SCR
Hardina Creek 5.2 to 11.4	Salt River	RIVER	İ.	RRECKINDINGE	90 4	+	2		6/8/2004	WAH, FC, PCR, SCR
Hardy Creek 1.6 to 5.6	Salt River	RIVER	Ť	TOWN	200	2	2	03	9/20/2005	WAH, FC, PCR, SC
Hardy Creek 0.0 to 1.4	Salt River	DAVED	2440404	LAMBE	24.0	+	3	3	3/22/2005	WAH, FC. PCR. SCR.
Harrods Creek 0.0 to 3.2	Salt Diver	ONACO	2440404	LAMOLE	200	-	0	m	8/1/1989	WAH FC PCR SCR
Harroda Creek 3.2 to 33.3	10000	NAME OF THE PERSON OF THE PERS	1010410	CLUHAM	4A-NS	5-PS 2-FS	8	3	12/1/2005	WAH EC DOD CO
Harte Direction of the Land of	Sent Liver	KIVEK	5140101	OLDHAM	e	5-PS 2-FS	63		12/1/2005	STATE OF STA
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONT KING	RIVER	5140103	BULLITT	2-FS	67			OPPORT	אירה, רכי, רכא, טכא
rience Creek U.U to 1.3	Saft River	RIVER	5140103	MERCER	S-NS	-	0 0	2 0	CONTRACTO	WAH, FC, PCR, SCR
Hite Creek 0.0 to 5.5	Salt River	RIVER	5140101	JEFFERSON	5 MS	0 0	200	200	3/8/2005	WAH, FC, PCR, SCR
Indian Creek 0.0 to 2.9	Salt River	RIVER	5140103	MEDUED	02.0	+	2	2	4/9/2001	WAH, FC, PCR, SCR
Jeptha Creek 0.0 to 0.7	Salt River	RIVER	5140100	פרבי פר	2-13	1	7	e0	3/8/2005	WAH, FC, PCR, SCR
Jones Creek 0.0 to 3.9	Sat River	RIVER	T	MADION	001-0	2	60	0	8/7/2000	WAH, FC, PCR, SCR
Lick Creek 0.0 to 4.1	Salt River	DAVED	T	MONION	240	1	0	3	4/8/2001	WAH, FC. PCR. SCI
Lick Run Creek 0.0 to 3.5	Salt Diver	ONATO		WASHINGLON	2+5	0	9	60	3/10/2005	WAH. FC. PCR. SCR
Little Goose Creek 0.0 to 9.2	Salt Diver	NIVER OF ALL PARTS		MECKINKINGE			3	3	7/28/2000	WAH FC PCR SCR
Little Kantucky River 0.2 to 24.4	Call Chine	RIVER	5140101	JEFFERSON	2-FS	5-PS 3	3	6	3/12/2001	WAH FC PCR SC
Little Kentursky River 21 0 to 27 0	Call Diver	RIVER	1000010	TRIMBLE		2-FS 2-FS	3	0	12/2/2005	WAH FC PCR SC
Little Cough Early of Month Delline Early Colt. 2.3	CHAIL KINE	KIVEK	5140101	HENRY	7		63	8	RANDON	100 000 000 000 0000
CAMP COOK I CAM O INCHI I CAMP CO IO CO.	Carr River	RIVER	5140103	CASEY	2-FS	60	er		DAOPORE	טפירטי איניי איניי

140102   1
Singling   WASHINGTON   2-FS   3   3   3   3   3   3   3   3   3
Single
Sidolog Jefferson
SI40102
5140102   JEFFERSON   2-F5   3   2-F5   5-F5   5-
5/40101         JEFFERSON         6-PS         5-NS         3
6140101         LIFFERSON         5-PS         5-NS         5-NS         3         3           6140101         LIFFERSON         5-PS         5-NS         3
6140101   LEFFERSON   5-PS   5-NS   3   3   3   3   3   3   3   3   3
6140102         LARUE         2-FS         3-NO         3-S-FS           6140102         LARUE         2-FS         3-NO         3-S-FS           6140102         LAREFERSON         3-S-FS         3-S-FS         3-S-FS           6140102         LARDIN         2-FS         3-S-S-SS         3-S-FS           6140102         LARDIN         2-FS         3-S-SS         3-S-SS           6140102         LARDIN         2-FS         3-S-SS         3-S-SS           6140102         HARDIN         2-FS         5-NS         3-S-SS           6140102         HARDIN         2-FS         5-NS         3-S-SS           6140102         HARDIN         2-FS         5-NS         3-S-SS           6140103         HARDIN         2-FS         5-NS         3-S-SS           6140103         HARDIN         2-FS         5-NS         3-SS           6140103         HARDIN         2-FS         5-NS         3-SS
5/40102         JEFFERSON         3         3         3         2-FS           5/40102         JEFFERSON         3         3         3         2-FS           5/40102         HARDIN         2-FS         3         3         3         3           5/40102         HARDIN         2-FS         3         3         3         3         3         3         4         3         4         3         4         3         4         4         4         3         4         4         4         3         4         4         4         8         4         3         3         4         4         8         4         3         3         3         3         4         4         8         4         3         3         3         4         3         4         4         8
5140101         JEFFERSON         5-NS         5-NS         3         3-FFS           5140102         HARDIN         2-FS         3         3         3-B-NS           5140102         HARDIN         2-FS         3         3         3-B-NS           5140102         HARDIN         2-FS         3         3         3         3           5140102         HARDIN         2-FS         3         3         3         3         3           5140102         HARDIN         2-FS         3
5140102         HARDIN         2-FS         3-TS         3-SB-NS           5140102         HARDIN         2-FS         3-3         3-3           5140103         HARDIN         2-FS         3-3         3-3           5140104         HARDIN         2-FS         3-3         3-3           5140105         HARDIN         2-FS         3-3         3-3           5140106         JEFFERSON         2-FS         5-NS         3-3         3-3           5140107         JEFFERSON         2-FS         5-NS         3-3         3-3         3-3           5140102         JEFFERSON         5-NS         3-3
5140102         HARDIN         2-FS         3         3         5B-NS           5140102         HARDIN         2-FS         3         3         5B-NS           5140102         HARDIN         2-FS         3         3         3           5140103         HEFERSON         2-FS         3         3         3           5140103         HEFERSON         2-FS         3         3         3           5140103         HEFERSON         2-FS         3         3         3           5140103         HERDIN         2-FS         3         3         3           5140103         HERDIN         2-FS         5-NS         3         3         3           5140103         HERDIN         2-FS         5-NS         3         3         3         3           5140103         HERDIN         2-FS         5-NS         3 <t< td=""></t<>
5140102         HÁRDÍN         2FS         3         3         3           6140102         HARDÍN         2FS         3         3         3         3           6140103         HABLSON         2FS         3         3         3         3           6140103         HARBON         2FS         5NS         3         3         3         3           6140103         HARBON         2FS         5NS         3
5140103   NELSON   2-FS   3   3   3   3   3   3   3   3   3
5140102         HARDIN         58-PS         3         3         3           6140101         JEFERSON         2-FS         5-NS         3         3         3           6140101         JEFERSON         2-FS         5-NS         3         3         3           6140103         JEFERSON         2-FS         5-NS         3         3         3           6140103         JEFERSON         2-FS         5-NS         3         3         3           6140103         JEFERSON         2-FS         5-PS         3         3         3         3           6140102         JEFERSON         2-FS         5-PS         3         3         3         3         3           6140102         JEFERSON         2-FS         5-PS         3
5140101   JEFERSON   2-FS   5-NS   3   3   3   3   3   3   3   3   3
5140103         NELSON         2-FS         3         3         3           5140103         NELSON         2-FS         3         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         MARION         2-FS         5-NS         3         3         3           5140103         MARION         2-FS         5-NS         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3         3         3           5140103         JARRION         2-FS         3         3         3         3         <
5140101         JEFFERSON         2-FS         5-NS         3         3           5140103         MARION         2-FS         5-NS         3
STACTOR   MARION   A-NS   3-NS   3-
6140103         MARRION         2-FS         3-ANS
5140102   MAKION   2-FS   3   3   3   3   3   3   3   3   3
5140102   JEFFERSON   5-FS   5-FS   3   3   3   3   3   3   3   3   3
5140102   JEFFERSON   5-PS   5-NS   3   3   3   3   3   3   3   3   3
5140104         MEADE         2-FS         5-PS         3         3           5140103         LARUE         2-FS         5-PS         2-FS         3         3           5140102         JEFFERSON         5-NS         3         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3           5140103         JARRION         2-FS         3         3         3         3         3           5140103         JARRION         2-FS         3         3         3         3         3           5140103         JARRION         2-FS         3         3         3         3
5140103         LARUE         2-FS         5-FS         2-FS         3         3           5140103         JEFFERSON         5-NS         3         3         3         3           5140103         JASHINGTON         5-NS         3         3         3         3           5140103         JASHINGTON         5-NS         3         3         3         3           5140102         JEFFERSON         2-FS         3         3         3         3           5140102         JEFFERSON         2-FS         3         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103 </td
5140103         BULLITT         2-FS         3
5140102         JEFFERSON         5-NS         3         3           5140102         VASHINGTON         5-NS         3         3         3           5140103         VASHINGTON         5-NS         3         3         3         3           5140102         SPENCER         5-NS         3         3         3         3         3           5140102         JEFFERSON         2-FS         3
5140103   WASHINGTON   5-PS   3   3   3   3   3   3   3   3   3
5140102         SPENCER         5-NS         3         3         3           5140102         JEFFERSON         5-NS         3         3         3           5140103         JEFFERSON         2-FS         3         3         3           5140102         JEFFERSON         2-FS         3         3         3           5140102         JEFFERSON         2-FS         3         3         3           5140103         JEFFERSON         2-FS         3         3         3         3           5140103         JARRION         2-FS         3         3         3         3         3           5140103         JARRION         2-FS         3 <td< td=""></td<>
5140101 OLDHAM
5140102         JEFFERSON         5-NS         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         LARUE         2-FS         3         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         SPENCER         2-
5140103         MARION         2-FS         3         3         3           5140102         JEFFERSON         2-FS         5-NS         3         3         3           5140103         MARION         2-FS         3         3         3         3         3           5140102         SPENCER         2-FS         3         3         3         3         3         3           5140102         SPENCER         2-FS         3         3         3         3         3
5140102         JEFFERSON         2-FS         5-NS         3         3           5140103         MARION         2-FS         3         3         3         3         3           5140102         SPENCER         2-FS         3         3         3         3         3           5140102         SPENCER         2-FS         3         3         3         3           5140
6140103         NELSON         2-FS         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         MARION         3         3         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         LARUE         2-FS         3         3         3         3           5140102         SPENCER         2-FS         3         3         3         3           5140102         SPENCER         2-FS         3         3         3         3           5140102         ANDERSON         2-FS         3         3         3         3           5140102         ANDERSON         2-F
5140103         MARION         2-FS         3         3         3           5140103         WASHINGTON         5-FS         3         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         LARUE         2-FS         3         3         3         2-FS           5140102         SPENCER         2-FS         3         3         3         2-FS           5140102         SPENCER         2-FS         3         3         3         3           5140102         ANDERSON         2-FS         3         3         3         3           5140102         SHELBY
5140103         WASHINGTON         5-PS         3         3         3           5140103         MARION         3 <td< td=""></td<>
5140103         MARION         3 <t< td=""></t<>
5140103         LARUE         2-FS         3         3         3           5140103         LARUE         2-FS         3<
5140103         LARUE         2-FS         3         3         3           5140103         MARION         2-FS         3         3         3         2-FS           5140102         SPENCER         2-FS         3         3         3         2-FS           5140102         SPENCER         2-FS         3         3         3         3         3           5140102         ANDERSON         2-FS         3
5140103         MARION         2-FS         3         3         3           5140103         MARION         2-FS         3         3         3           5140103         LARUE         2-FS         5-NS         2-FS         3         3           5140103         MARION         2-FS         3         3         3         3           5140103         MARION         2-FS         3         3         3         3           5140102         SPENCER         2-FS         3         3         2-FS           5140102         SPENCER         2-FS         3         3         2-FS           5140102         SPENCER         2-FS         2-FS         3         3           5140102         ANDERSON         2-FS         3         3         3           5140102         ANDERSON         2-FS         3         3         3           5140102         BOYLE         2-FS         3         3         3           5140102         SHELBY         5-PS         3         3         3           5140102         SHELBY         5-PS         3         3         3           5140102         SHELBY
5140103         MARION         2+5         3
5140103         Invarion         2-FS         3         3         3           5140103         NELSON         2-FS         3         4 <t< td=""></t<>
5140103
5140102   NELSON   2-FS   3   3   3   3   3   3   3   3   3
5140102
5140102   SPENCER   2-FS   5-NS   2-FS   5-PS     5140102   SPENCER   2-FS   3   3   3   2-FS     5140102   SPENCER   2-FS   3   3   2-FS     5140102   ANDERSON   2-FS   2-FS   2-FS   5-NS     5140102   ANDERSON   2-FS   3   3   3   3     5140102   ANDERSON   2-FS   3   3   3   3     5140102   ANDERSON   2-FS   3   3   3   3     5140102   SPENCER   2-FS   3   3   3   3     5140102   SPENCER   3   3   3   3     5140102   SPENCER   3   3   3   3     5140102   SPENCER   3   3   3   3     5140104   BRECKINRIDGE   2-FS   5-PS   3   3
5140102   SPENCER   2-FS   3   3   3   3   3   3   3   3   3
5140102   SPENICER   2-FS   2-FS   3   3   2-FS   3   3   3   3   3   3   3   3   3
5140102   SPENCER   2+5   2-F5   3   3   3   3   3   3   3   3   3
5140102
5140102
5140102 MENCER 2-FS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
5140103 BD7LE 2+FS 3 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5
5140102 WASHINGTON 5-PS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
5140104 RRECKINRIDGE 2-FS 5-PS 3
5140104 BRECKINRIDGE 2-FS 3
SIND BRECKINGGE Z-FS 3-PS 3
RDECKINDINGE
E440404 BDECOVINDIOOT

Coefield Creek 0.0 to 8.9  Craige Creek 2.9 to 8.7  Crooked Creek 0.0 to 12.1  Crooked Creek 0.0 to 5.6  Crooked Creek 0.0 to 5.6  Crooked Creek 0.0 to 8.1  Denris O'nan Ditch/Cypress Creek 0.4 to 10.9  Double Lick Creek 0.2 to 7.0  Dry Creek 1.1 to 3.0	DAIN OILD			22000	MAHICAH	PCR	SCR Fleh Consumption	H		
Craige Creek 2.9 to 6.7 Crooked Creek 0.0 to 12.1 Grooked Creek 0.0 to 12.1 Grooked Creek 12.1 to 26.4 Deor Creek 0.0 to 8.1 Deor Creek 0.0 to 8.1 Deuble Lick Creek 0.0 to 9.3 Double Lick Creek 0.2 to 7.0 Dry Creek 1.2 to 3.0	OF I. D	RIVER	5140201	BRECKINRIDGE	5-PS	+	+	7	Assess Date	Designated Uses
Crooked Creek 0.0 to 12.1 Crooked Creek 0.0 to 5.6 Crooked Creek 0.0 to 5.6 Crooked Creek 0.0 to 5.6 Dennis O'man Ditch/Cypress Creek 0.4 to 10.9 Double Lick Creek 0.0 to 3.5 Day Creek 0.2 to 7.0 Day Creek 0.2 to 7.0 Day Creek 1.1 to 3.0	Onio Kiver	RIVER	5140203	CRITTENDEN	2-FS	. 65	200	9	11/12/2002	WAH, FC, PCR, SCR
Grooked Creek 0.0 to 5.6 Crooked Creek 12.1 to 28.4 Deer Creek 10.0 to 8.1 Dennis O'nan Dilchúlypress Creek 0.4 to 10.9 Double Lick Creek 0.0 to 3.5 Dry Creek 0.2 to 7.0 Dry Creek 0.2 to 7.0	Chie Kiver	RIVER	5090203	GALLATIN	9		2 6	7	10/10/2006	WAH, FC, PCR, SCR
Grooked Creek 12.1 to 28.4  Deer Creek 0.0 to 8.1  Dennis O'nan Ditch/Cypress Creek 0.4 to 10.9  Double Lick Creek 0.0 to 3.5  Dy Creek 0.2 to 7.0  Dr. Creek 1.1 to 3.0	Chio Diver	KIVER	5140203	CRITTENDEN	S-PS	6		200		WAH, FC, PCR, SCR
Deer Creek 0.0 to 8.1 Dennis O'nan Ditch/Cypress Creek 0.4 to 10.9 Double Lick Creek 0.0 to 3.5 Dy Creek 0.2 to 7.0 Dr. Creek 1.1 to 3.0	Ohio River	RIVER	5090201	LEWIS	2-FS	6	200	2 6	SUCCESSION	WAH, FC, PCR, SCR, DWS
Dernis O'nan Ditch/Cypress Creek 0.4 to 10.9 Double Lick Creek 0.0 to 3.5 Dy Creek 0.2 to 7.0 Dr. Creek 1.1 to 3.0	Ohio River	DAVED	5140203	CRITTENDEN	S-NS	S-NS		9 67	1747008	WAH FC PCR SC
Jouble Litit Creek 0.0 to 3.5 Dry Creek 0.2 to 7.0 Dry Creek 1.1 to 3.0	Ohio River	RIVER	5140203	LIVINGSTON	S-NS	3	3	3	3/1/2003	WAN, PC, PCR, SC
Dry Creek 0.2 to 7.0 Dry Creek 1 1 to 3.0	Ohlo River	RIVER	SOCOOD S	NOINO	2-FS	-	2-FS 3	6	17/2008	WALL FO. TOR SOR
3rv Creek 1 1 to 3 0	Ohio River	RIVER	KOOODO	POOR	2-FS	e	6	6	3/7/2005	WAH ET DO CO
	Ohio River	RIVER	5000000	BOOME	S-PS	0	3 3	6	8/3/2000	WAH ED DOG
Dyer Hill Creek 0.4 to 8.0	Ohio River	RIVER	5440203	MANIORTON	S-PS	6	9	6	8/3/2000	WAH EC BOD ON
East Fork Cabin Creek 0.0 to 4.7	Ohio River	PAVED	5000004	LIVINGSTON	S-PS	၉	3	e	1/23/2008	Co GCG CA LAW
test Fork of Canoe Creek 0.0 to 4.4	Ohio River	RIVER	5040201	LEWIS	2-FS	က	9	0	10/27/2005	WALL ED BOD OF
Elijahs Creek 0.0 to 5.2	Ohio River	DAVED	2020000	HENDERSON	5-PS	3	3	62	10/1/2007	WALL TO DOD DOD
Fish Lake	Ohio Blue	NIVER	5020806	BOONE	4A-NS	3	3		4/44/2004	WAT, TC, PCK, SC
Fournile Creek 0.2 to 8.5	Ohio Divos	Z CAN	2140206	BALLARD	က	8	3 5-PS	6	1/24/2008	WAT FC, PCK, SCR
Fourmile Creek 8.5 to 9.4	Ohio Diver	KIVEK	2080201	CAMPBELL	2-FS	S-NS		6	B/2/2000	WAT, FC, PCK, SCK
Garrison Creek 0.0 to 4.85	DAY OF THE	KIVER	2080201	CAMPBELL	2-F8	က	6		4400004	WAT, TC, PCK, SC
Goose Creek 0.0 to 1.9	CHIO KING	KIVER	5090203	BOONE	2-FS	m		200	100001	WAH, FC, PCR, SCR
Coose Board Distribution Clarist Co. 1- 40 C	CIIIO KIVEL	RIVER	5090201	BRACKEN	S-PS			,	3/1/2003	WAH, FC, PCR, SC
ACCESS TO THE PARTICIPATE SPOUGH U.O. TO 13.0	Ohio River	RIVER	5140203	UNION	S-NS			2	8/3/2000	WAH, FC, PCR, SC
Creesy FUR U.O (0 3.9	Ohlo River	RIVER	5090201	FWIS	2.50	000	200	2	3/1/2003	WAH, FC, PCR, SCR
Gunpowder Creek 0.0 to 15.0	Ohio River	RIVER	5090203	ROOME	2014	2 0		5	11/2/2005	WAH, FC, PCR, SC
Gunpowder Creek 15.4 to 17.1	Ohio River	RNER	5000000	2000	SN-C	2	3	e	1/8/2001	WAH FC PCR SCR
Gunpowder Creek 18.9 to 21.6	Ohio River	DW/ED	2020202	BOOME	4A-NS	9	e 0	9	8/3/1999	WAH EC POR SCO
Habov Hollow Lake	original district	MACH	2020203	BOOME	5-PS	n	3	e	2000005	WAL EC DOD CO.
Highland Creek 0.0 to 7.8	DAIL DING	LANCE.	5140206	BALLARD	m	9	9	6		DO COL COL
Highland Creat 7 8 to 24 4	PAN SED	RIVER	5140202	NOIND	S-PS	S-NS			47414000	שביי רכי יכרי מר
And Oracle Of the A	One River	RIVER	5140202	HENDERSON	S-NS	S.N.S.	0	2 0	0861/14	WAH, FC, PCR, SCR
HOOSE CIRRY U.U to 5.4	Ohio River	RIVER	5090103	BOYD	2.50	_	000	20	1/22/2008	WAH, FC, PCR, SCR
Humphrey Creek 0.0 to 3.7	Ohio River	RIVER	5140206	RALLARD	000	2 5		9	1/16/2004	WAH, FC, PCR, SCR
Humphrey Creek 3.7 to 11.6	Ohio River	RIVER	514020R	BALLADO	2	2+2	0	က	5/2/2002	CAH, FC, PCR, SCI
Humphrey Creek 11.6 to 13.0	Ohio River	RIVER	544020B	DALLADA PALLADA	2-43	2		က	5/2/2002	WAH, FC. PCR. SC.
Indian Creek 0.0 to 9.4	Ohio River	SINE	5000004	DALLAND	24-90	28-PS	9	က	5/2/2002	WAH. FC. PCR. SC.
Kingfisher Lake	Ohio River	DESERVOID	5440004	CANADO	Z-1-2	-		0	1/10/2001	WAH, FC. PCR. SC.
Kinniconick Creek 0.8 to 50.9	Ohio River	DAVED	070410	DAVIESS	2-FS	3	-	6	11/14/2008	WAH FC PCR SC
Lake George (Marion City Lake)	Ohio Biver	OLOKOLO OLOKO	200000	LEWIS	Z-FS			9	9/20/2005	WAH EC POR SO
ake Jericho	Ohlo Biver	DESCRIPTION OF THE PROPERTY OF	5140203	CRITENDEN	Z-FS	1		6	11/14/2008	WAH EC POR
Laurel Fork 5.8 to 15.9	Ohio Dives	AESEAVOIR ON AES	500000	HENRY	S-NS	3	2-FS 3	6	8/26/2005	WAH EC POR SOR DIVIS
Liwrence Creek 2.6 to 4.2	Ohio Dive	ONACO	2020201	LEWIS	S-PS			3	11/3/2005	WAH EC POR SO
and Creak D.D to D.B.	Obje Dive	RIVER	1020606	MASON	2-FS			3	11/3/2005	ON TO THE
and Creak 3.5 to 4.5	Olio Cive	RIVER	5140201	HANCOCK	2-FS			69	4/1/1988	WAH EC DOD COD
se Creek 00 to 20	OHIO CINE	RIVER	5140201	HANCOCK	SB-NS	58-NS	3	67	4/1/1998	WALL FO DOD OO
We Devel Coat Of 17	Ono River	RIVER	5090201	MASON	9	6		e.		DO TO TO TOWN
With Day of Court of the Court	Ono River	RIVER	5140208	McCRACKEN	4A-PS	6	LC.	0 6	EDDOOD	אירה ירה ירה אירה אירה
ILLE SOUTH FOR 1.2 TO 3.8	Ohio River	RIVER	5080203	BOONE	2-FS	6		0 0	2007730	WAH, FC, PCR, SC
LOCALIST CITIENT U.U TO 4.1	Ohio River	RIVER	5090201	BRACKEN	258	S.Ne		200	4/24/2004	WAH, FC, PCR, SCI
Locust Creek 4.1 to 12.2	Ohio River	RIVER	5090201	BRACKEN	FNS	0	200	2	8/8/2000	WAH, FC, PCR, SCR
Long Pond	Ohio River	LAKE	514020B	PALLADO	2	3 0		20	8/8/2000	WAH, FC, PCR, SCR
Massac Creek 4.1 to 4.7	Ohio River	RIVER	514020B	MACDACKEN	2 6	2	9	60		WAH, FC, PCR, SCI
Massac Creek 4.7 to 7.9	Ohio River	BIVED	5140200	MACON DANKEN	2	2	9	m	5/2/2002	WAH, FC, PCR, SCR
leuzy Lake	Ohio River	BESERVOID	6440202	THE CANADA	2-10	1		0	5/2/2002	WAH, FC, PCR, SCR
IcCools Creek 0.0 to 8.7	Ohio Biver	DAVED	2020202	NONO	2-5	3	S	က	11/14/2006	WAH. FC. PCR. SCR
McCovs Fork 0.0 to 2.2	Ohio Bluer	DAVED	2020202	CAKROLL	2	63	60	က		WAH, FC. PCR. SCR.
Metropolis Lake	Ohio River	LAVE	5090203	BOOME	60	j		3		WAH, FC, PCR, SCR
Middle Fork of Massac Creek 0.0 to 6.4	Ohio Diver	DAVED	2140200	MCCKACKEN	SHA	1	တ	6	1/1/2000 - 3/6/2006	WAH. FC. PCR. SCI
Mitchell Lake	Ohio River	DESERVOID	2140200	MCCKEN	5-PS	0		e	3/21/2007	WAH, FC, PCR, SCR
Montpomery Creek 0.0 to 6.5	Ohio River	DAVED	0070400	BALLAKU	2	2		က		WAH, FC, PCR, SCR
Mudlick Creek 0.0 to 6.6	Ohio Biver	DAVED	2020207	LEWIS	5-PS	0	8	3	3/11/2005	WAH, FC, PCR, SCR
fudlick Creek 8,8 to 11.3	Ohio River	PIVED	SOSOSOS	BOOME	e 0	60	3 2.58	r	avornon	WALL FC, POR, BOR
Newberry Branch 0.0 to 2.8	Ohio River	PINED	5000400	BOOME	2	0		0		5
lewtons Creek 0.3 to 8.2	Ohio River	DIVED	5440008	MACOACITE	SN-C	9		3	11/11/2003	WAH, FC, PCR, SCI
Pleasant Run Creek 0.2 to 3.4	Ohio Biver	DAVED	2040200	MCCKACKEN	Seps	0	8	3	3/12/2007	WAH, FC, PCR, SCI

Waterbody and Segment	Basin	Water Rocky Type	o Distriction							
Pup Cr86K 2,4 to 7.25	Ohio River		5140201	County	WAHICAH	PCR S	SCR Fish Consumption	DWS III	Annes Date	
Sadler Creat O 0 to 2 4	Ohio River	RESERVOIR	5140101	OF DHAM	2-12	0	-		1/24/2008	WAH EC POR SOR
Salt int Creat Cold 2.4	Ohio River		5140203	I MANAGETONI	Z-FS	1	Ø	6	8/28/2005	WAN TO TON SOR
Scanic Lot Creek U.2 to 7.2	Ohio River	RIVER	5090201	FIVINGSTON	S C C	m	e0	8	1/24/2008	WAH FO BOD GOD
Second Create 0.5 to 2 o	Ohio River	RESERVOIR	5140202	HENDERSON	200	+		e	6/24/2004	WAH FO POR SON
Sheby Lake	Ohio River	RIVER	5090203	BOONE	27.0	+	en e	m	1/1/1992	WAH, FC. PCR. SCR.
Sneg Creek 0.5 to 5.5	Ono River	LAKE	5140206	BALLARD		0 0	200	0	11/8/2005	WAH, FC, PCR, SCR
South Fork Gunnowder Creek A 1 to 8 8	Ono River	RIVER	5090201	BRACKEN		U	200	6		WAH, FC, PCR, SCR
South Fork Gunpowder Creek 0.0 to 2.0	Chio Kiver	RIVER	5090203	BOONE	9		2 6	m (	8/14/2000	WAH, FC, PCR, SCR
Stephens Creek 0.0 to 1.8	Ohio Diver	RIVER	5090203	BOONE	S-NS	6		2 0	3/3/2001	WAH, FC, PCR, SCR
Straight Fork 0.0 to 1.9	Ohio River	RIVER	2080203	GALLATIN	2-FS	1	3	) (	A/10/2001	WAH, FC, PCR, SCR
Sugg Creek 0.0 to 1.3	Ohio River	RIVER	2080201	LEWIS	2-FS	6	3	o e	4/14/2004	WAH, FC, PCR, SCR
Tenmile Creek 0.05 to 1.15	Ohio River	NIVEN	5140203	ONION	S-NS		3	6	2/4 /2003	WAH, PC, PCR, SCR
Tritce Creek 0.2 to 4.6	Ohio River	NIVER OF A	5080201	CAMPBELL	5-PS	-	3	0 60	2/48/2008	WAH, FC, PCR, SCR
Turner Lake	Ohio River	LAKE	5090201	LEWIS	5-PS		3	0 67	44/4/2005	WAH, FC, PCR, SCR
Twelve Mile Creek 3.5 to 9.0	Ohio Dives		2140206	BALLARD	2-FS		2-FS 3	0 0	4 MOMONO	WAH, FC, PCR, SCR
Twelvernile Creek 10,4 to 13,2	Ohio Diver	RIVER	2090201	CAMPBELL	2-FS			0 0	914 4 2000	WAH, FC, PCR, SCR
UT to Big Sugar Creek 1.0 to 1.8	Ohio Bires	KIVEK	5090201	CAMPBELL.	2-FS	H		0 6	0/11/2000 14/4/2000	WAH, FC, PCR, SCR
UT to Chinna Branch 0.0 to 1.1	Ohio Dive	RIVER	2080203	GALLATIN	2-FS	-		0 6	2/4/2005	WAH, FC, PCR, SCR
UT to Eagle Creek 0.0 to 1.8	Ohio Diver	KIVEK	5090103	GREENUP	S-NS	-	60	) e	44/40/2002	WAH, FC, PCR, SCR
UT to Humphrey Branch 0.0 to 1.4	Ohio Divos	KIVEK	5140203	UNION	SB-NS			0 0	4 7 4 7000	WAH, FC, PCR, SCR
UT to Massac Creek 0.0 to 0.4	Ohio Dines	RIVER	5140208	BALLARD	58-PS			0 6	5/24/2008	WAH, FC, PCR, SCR
UT to Massac Creek 0.0 to 0.7	Ohio Direc	MIVER	5140206	McCRACKEN	SB-PS		60	0 0	2007/700	WAH, FC, PCR, SCR
UT to Messac Creek 0.0 to 1.7	OLIO RIVE	RIVER	5140206	McCRACKEN	60		3	0 0	37172007	WAH, FC, PCR, SCR
UT to Ohio River 3.55 to 3.7	OHO NING	KIVER	5140206	McCRACKEN	2-FS	60		0 0	307777	WAH, FC, PCR, SCR
UT to Rush Creek 0.0 to 1.3	Ond Kiver	RIVER	5140206	McCRACKEN	58-PS			2 0	2000000	WAH, FC, PCR, SCR
UT to UT to Engle Creek	Chip plan	RIVER	5140203	CRITTENDEN	5-PS	+		0 6	40/40/2000	WAH, FC, PCR, SCR
UT to UT to West Fork of Massac Creek 0.0 to 0.7	Chio Kiver	RIVER	5140203	UNION	SH-RS	m		9 67	404000	WAH, FC, PCR, SCR
UT to West Fork Messac Creek Onton R	OTHO KIVE	RIVER	5140208	MCCRACKEN	SB-NS	S		0 0	2/40/2000	WAH, FC, PCR, SCR
UT to West Fork of Messac Creek 0.0 to 0.8	Chio River	RIVER	5140206	MCCRACKEN	SB-PS			9 6	STW2001	WAH, FC, PCR, SCR
UT to West Fork of Messac Creek 1 75 to 2 0	Chio River	RIVER	5140208	McCRACKEN	58-PS	-		2 (0.	3/40/2002	WAH, FC, PCR, SCR
West Fork of Massac Create O 0 to 0 2	Ono River	RIVER	5140203	McCRACKEN	5-PS		100	0 0	3/10/2007	WAH, FC, PCR, SCR
West Fork of Masses Creek + 0 to 8 5	Chic River	RIVER	5140208	McCRACKEN	58-PS	n		0 0	3/18/200/	WAH, FC, PCR, SCR
Woolper Creek 119 to 14 0	Chic River	RIVER	5140206	McCRACKEN	2-FS	-		0 6	40/40/2008	WAH, FC, PCR, SCR
Woolper Creek 2 B to 7 2	Ono River	RIVER	5090203	BOONE	S-NS	S		9 67	R/40/2000	WAH FC PCR SCR
Ashes Creek 0.4 to 8.6	Colt Diver	KIVER	5090203	BOONE	ო	S-NS	3	6	8/40/2000	WAN FU PUR SUR
Beardrass Creek 0.5 to 1.8	Call Dive	KIVER	5140102	NELSON	2-FS		3	0 00	10/5/2005	WAN TO POR SOR
Beaver Creek 0.0 to 20.9	Salt Diver	KIVER	5140101	JEFFERSON	S-NS	က	9	9	500000	WALL FOR SCR
Beaver Lake	Calt Direct	RIVER	5140103	ANDERSON	2-FS		9	3	AMPOON	WALL FO. TOR, SOR
Beech Creek 4.6 to 19.6	Salt Diver	DESCRIPTION	5140 03	ANDERSON	2-FS		4C-PS 3	m	8/25/2005	WAH EC DOD SOD
Beech Fork 109.7 to 111.9	Salt River	RIVER	5140.02	SHELBY	2-FS	<del>- i</del>		e	10/5/2005	WAH FC PCR SCR
Beech Fork 39.5 to 50.4	Sait River	RIVER	5140.03	MARION	2-FS	6	6	က	10/5/2005	WAH, FC. PCR. SCR
Beech Fork 49.7 to 56.5	Salt River	RIVER	5140103	MELSON	2-12	-	4	၉	8/20/2005	WAH, FC, PCR, SCR
Beech Fork 58.5 to 85.3	Salt River	RIVER	5140103	MASHINGTON	2-13	+	i	9	8/11/2000	CAH, FC. PCR. SCR
Beech Fork 0.0 to 12.0	Salt River	RIVER	5140103	NEISON	2.50	200	2.0	0	8/11/2000	WAH, FC, PCR, SCR, DWS
Big South Fork 16.6 to 18.0	Salt River	RIVER	5140103	MARION	250	+	-	3	12/2/2005	WAH, FC, PCR, SCR
Big South Fork 0.0 to 12.4	Salt River	RIVER	5140103	MARION	2.5	U	U	7	10/6/2005	WAH, FC, PCR, SCR
Brackers Carl, 001-420	Salt River	RIVER	5140102	JEFFERSON	2-FS	-		200	9/11/2000	WAH, FC, PCR, SCR
Brankage Creek 42 0 to 25.0	Salt River	RIVER	5140102	SPENCER	2-FS	"	500	2 6	2722/2008	WAH, FC, PCR, SCR
Proofe Die Office St	Celt River	RIVER	5140102	SHELBY	2-FS	9		0 6	0000000	WAH, FC, PCR, SCR
Brooks Run 2.5 to 4.1	Salt River	RIVER	5140102	BULLITT	S-PS		9 69	2 60	2/8/2001	WAH, FC, PCR, SCR
Brooks Run 4 1 to 6 1	Desir Kiver	RIVER	5140102	BULLITT	5-PS			3	2777008	WALL OF BOD SOR
Buchanan Creek 0.0 to 3.7	Call Niver	RIVER	5140102	BULLITT	S-PS	Ц	3	m	2/7/2008	WAH EC POB COR
Buckhorn Creek 0.0 to 2.3	Salt River	KIVER	5140102	MERCER	2-FS		3	6	10/8/2005	WAH FC. PCR. SCR
Bullitt Lick Creek 0.0 to 2.3	Salt Diver	RIVER	5140103	MARION	2-FS	တ	3	9	4/1/1998	WAH, FC. PCR. SCR.
Bullakin Creek 0.0 to 3.4	Salt River	RIVER	5140102	BULLI I	200	60	8	m	7/28/2000	WAH, FC, PCR, SCR
Cane Run 0.0 to 7.6	Salt River	RIVER	5140102	JEFFERSON	2.58	2 6		7	6/28/2005	WAH, FC, PCR, SCR
Centwright Creek 0.0 to 6.6	Salt River	RIVER	5140103	WASHINGTON	5-PS	S-NS	3 2-FS	2 07	4/9/2001	WAH, FC, PCR, SCR, DWS
Cartwright Criess 0.0 to 12.0	Sait River	RIVER	5140103	WASHINGTON	5-PS	60	3	000	AMPOON	WAH FC, FCR, SCR
									TWENT.	איאח, רני, רנה, טנה

RAVER   5140101   JEFFERSON   5-18		District	William and the same of	-							
1.00   1.00	Fork Beargnass Creek 0.0 to 2.7	Sat River	DAYED DOON INDE	8-Diait HUC	County	WAH/CAH	H	SCR Fish Commodian	office   Palite		
9.0         Salat Rhwa         RIPER         91-000         24-000<	FORK Beangrass Creek 2.7 to 13.6	Salt River	RIVER	5440101	JEFFERSON	5-PS	-	-	1	Stations	Designated Uses
Said River   RESERVOR   54-4010   ACTOR   Said River   Said River   RESERVOR   54-4010   ACTOR   Said River	Mil Direct Co. 10 5.9	Salt River	RIVER	5140 00	JEFFERSON	S-NS	S-NS		0 (7.	3/48/2007	WAH FC PCR SCR
9.2.         Shall Rivar         RESERVORR         64-6070         MEGENON         24-78         3-78           2.0.         Salk Rivar         RESERVORR         64-6070         MEGENON         24-78         3-78           2.0.         Salk Rivar         RESERVORR         64-6070         MEGENON         24-78         3-8           2.0.         Salk Rivar         RNER         51-6010         MEGENON         2-78         3-8           2.0.         Salk Rivar         RNER         51-6010         MEGENON         2-78         3-8           2.0.         Salk Rivar         RNER         51-6010         MARCH         5-8         3-8	other of the last	Sat River	RNER	5140102	ANDERSON	2-FS	H		9 67	TUUZKI W	WAH, FC, PCR, SCR
19.2         Staff River         RUERNOR         6140102         SPECIOR         4.475         3           2.0         Salf River         RUERNOR         6140103         MERDOR         5.476         3           2.0         Salf River         RUERNOR         5140102         BULLIT         5.476         5.478           2.0         Salf River         RUERNOR         5140102         BULLIT         5.476         5.478           2.0         Salf River         RUERNOR         5140102         BULLIT         5.478         5.478           2.0         Salf River         RUERNOR         5140102         BULLIT         5.478         5.478           2.0         Salf River         RUERNOR         5140102         BULLIT         5.478         5.478           2.0         Salf River         RUERNOR         5140102         MERDOR         5.478         3.478           2.0         Salf River         RUERNOR         5140102         MERDOR         5.478         3.478           2.0         Salf River         RUERNOR         5140102         MERDOR         5.478         3.478         3.478         3.478         3.478         3.478         3.478         3.478         3.478         3.478<	mylle I ake	Salt River	RESERVOIR	5140103	MERSON	2-FS	Н	2-FS 3	0	12/1/2005	WAH FC PCR SCR
Sait River   River   Shell R	peon Creek 0.0 to 9.2	Salt River	RESERVOIR	5140102	SPENCED	44.00	1		2-FS		WALL FO BOD SOR
The control of the	Creek 0.0 to 2.5	Self River	RIVER	5140103	MERCER	5.De	1	2	m		WAH FC PCR SCR
1,11   Sulf-River   FRUERR   5140102   RELEGION   2-55   3   4   4   4   4   4   4   4   4   4	Vallace Lake	UST KIVE	RIVER	5140104	HARDIN	S-PS	9 6	-	0	3/17/2005	WAH, FC, PCR, SCR, DWS
1,10   Sain River   RIVER   5140102   BILLITT   5-48   5-49	Creek 0,0 to 4.1	Salt Diver	RESERVOIR	5140102	JEFFERSON	0	9 67	3 5	0	10/14/2005	WAH, FC, PCR, SCR
10   1   1   1   1   1   1   1   1   1	Brooks Run 0.0 to 2.0	Salt River	KIVER	5140103	NELSON	2-FS	6		200	9/25/2007	WAH, FC, PCR, SCR
10	Buffalo Run 0.0 to 1.1	Salt River	KIVEK	5140102	BULLITT	S-NS	S-VS		2 6	4/11/2001	WAH, FC, PCR, SCR
2.20   Sait River   RIVER   5140101   TRIMBILE   2-55   3   36-145   3   3   3   3   3   3   3   3   3	Carmon Creek 0.0 to 1.9	Salt River	RIVER	5140102	BULLIT	S-NS	9	0	0 0	8681/CM	WAH, FC, PCR, SCR
Color   Colo	Com Creek 0.0 to 2.0	Salt River	AIVEN	5140101	HENRY	က			0 0	4/8/2004	WAH, FC, PCR, SCR
10 to 1.6   Sait River   RNER   5140102   ANDERSON   5-15   3	Glens Creek 0.0 to 2.3	Salt River	AIVER	5140101	TRIMBLE	2-FS			2 6	Walk County	WAH, FC, PCR, SCR
KR 00 to 0.1         SAIR River         RIVER         5140102         ANDRESON         548.8         3         58.4           0.05         SAIR River         RIVER         5140102         OLDHAM         3.45         3         58.4         3         58.4         3         58.4         3         58.4         3         3         58.4         3         3         58.4         3         3         58.4         3         3         3         3         58.4         3         3         3         3         58.4         3 </td <td>Hammond Creek 0.0 to 1.8</td> <td>Sat Diver</td> <td>ANVEN</td> <td>5140103</td> <td>WASHINGTON</td> <td>2-FS</td> <td>60</td> <td></td> <td>0 6</td> <td>CONTOLOR</td> <td>WAH, FC, PCR, SCR</td>	Hammond Creek 0.0 to 1.8	Sat Diver	ANVEN	5140103	WASHINGTON	2-FS	60		0 6	CONTOLOR	WAH, FC, PCR, SCR
Suit River   RVER   5140102   OLDHAMN 2-F5 3   SEANS	N. Fork Currys Fork 0.0 to 0.1	Salt River	AIVER	5140102	ANDERSON	S-NS	m		2 6	4/0/2004	WAH FC PCR SCR
A	Pond Creek 0.0 to 0.5	Salt River	AIVER	5140102	OLDHAM	60	58-NS		0 6	- NOZON-	WAH, FC, PCR, SCR
10.00   10.0	Pond Creek 0.5 to 0.9	Salt Diver	AND	5140101	OLDHAM	S-NS	m	6	2 6	8420000	WAH, FC PCR SCR
12.0   2.04	Rolling Fork 0.0 to 0.6	Sat River	DAZED	5140101	OLDHAM	2-FS	က		o en	4/12/2004	WAH, FC, PCR, SCR
10.2.6   Sair River   RIVER   Si40102   SHELBY   S-PS   3	Salt River 0.0 to 2.4	Salt River	DAVED	5140103	MARION	4A-NS			6	2/44/2008	WAH, FC, PCR, SCR
10.00 0.3.7   SHERNON	Southern Ditch 0.0 to 2.6	Salt Diver	RIVER	5140102	MERCER	S-PS			יי כ	5/4/2004	WAH, FC, PCR, SCR
The color of the	UT to Guist Creek 0.0 to 2.4	Salt Diver	AIVER	5140102	JEFFERSON	SN-S	-	9	0 6	41100001	WAH, FC, PCR, SCR
Sait River   RIVER   5140102   LIARRY   5-15   5-	ork Otter Creek 0.0 to 3.1	Salt River	CAVED	5140102	SHELBY	5-PS	_		9 60	TOTOPORE	WAH, FC, PCR, SCR
Sait River   RIVER   5140101   STATESTON   5-PS   5-NS	ods Creek (Slop Ditch) 0.0 to 3.7	Satt River	PAVED	5440 03	LARUE	2-FS	-	-	6	10/17/2005	WAH, FC, PCR, SCR
Salt River   RESERVOR   5140101   JEFFERSON   3   3   3   3   3   3   3   3   3	Sulphur Creek 0.0 to 3.9	Salt River	RIVED	5140102	JEFFERSON	5-PS	_		3	4/1/1908	WAN, PC, PCR, SCR
Staff River	Urg Lake	Salt River	RESERVOIR	5140103	MASUNICTON	0		6	6		WAH EC DOD OCD
Salt River   RIVER   5140103   BULLITT   2-FS   3	Fond	Salt River	POND	5140101	FEFFBSON	2	1		2-FS	8/26/2005	WAH FC PCR SCR
Salit River	Creek 0.0 to 2.2	Salt River	RIVER	5140103	BULLIT	S.NC	1		6	10/7/2005	WAH, FC. PCR. SCR
Salit River   River   Sidition   Salit River   Salit River   Sidition   Salit River   Salit River   Salit River   Salit	Creat state of to a company	Salt River	RIVER	5140103	BULLITT	2.FS	2 6	1	0	10/17/2005	WAH, FC, PCR, SCR
Sale River	mark 0.0 to 8.7	Saft River	RIVER	5140103	NELSON	5-PS	0 00	2 60	m (	2/13/2006	WAH, FC, PCR, SCR
Sale River	bank Creek 1.5 to 12.0	OBLI KING	RIVER	5140104	MEADE	6	67	2 67	200	10/1//2005	WAH, FC, PCR, SCR
Tennessee River RIVER   6040006   MARSHALL   5-PS   3	or Creek 0.0 to 4.5	Sold River	RIVER	5140104	BRECKINRIDGE	5-PS	6	9 60	2 60	OUNDOOR	WAH, FC, PCR, SCR, DWS
Ternessee River RIVER   6040006   GRAVES   3   3	on Creek 1.9 to 5.0	Terrogram River	PINER	5140103	HARDIN	5-PS	3	8	0 60	10/17/2005	WAH, FC, PCR, SCR
Termessee River RIVER   GO40006   MARSHALL   5-PS   5-NS     Termessee River RIVER   GO40006   CALLOWAY   5-NS   5-NS     Termessee River RIVER   GO40006   CALLOWAY   2-FS   5-NS     Termessee River RIVER   GO40006   CALLOWAY   2-FS   5-NS     Termessee River RIVER   GO40006   MACRACKEN   5-PS   3-NS     Termessee River RIVER   GO40006   MACRACKEN   5-PS   3-NS     Termessee River RIVER   GO40006   MACRACKEN   5-PS   3-NS     Termessee River RIVER   GO40006   CALLOWAY   2-PS   3-NS     Termessee River RIVER	Creek 0.0 to 0.8	Tennesses River	PAVED	8040002	CALLOWAY	2-FS	က	3	6	2/21/2007	WAH FC, PCR SCR
Tennessee River RIVER   GO40005   MARSHALL   3-1-15   58-15	reek 0.6 to 1.6	Tennessee River	RIVER	ROADOOR	MAKSHALL	S-PS	S-NS	60	9	3/25/2002	WAH FC PCB SCB
Canal 0.0 to 3.7   Tennessee River RIVER   GOLOGOE   CALLOWAY   5-15   5-18	reek 4.0 to 7.2	Tennessee River	RIVER	ROADOOR	GRAVES	SB-BS	58-PS	9	9	5/4/2002	WAH FC PCP SCP
Canal Co to 3.7   Tennessee River RIVER   GO40006   CALLOWAY   2-FS   5-NS	eek 0.0 to 0.7	Tennessee River	RIVER	804000B	CALLOWAY	200	S-NS	3	e	3/25/2002	WAH FC PCR SCR
Cennel Co to 3.7         Tennessee River         RIVER         6040005         CALLOWAY         2.FS         3-NS           Cennel CO to 3.7         Tennessee River         RIVER         6040006         McCRACKEN         5-PS         5-HS         3-HS         3-HS<	mek 0.7 to 2.0	Tennessee River	RIVER	8040008	CALLOWAY	0000	0-NS	0	က	3/25/2002 - 2/22/2007	WAH. FC. PCR. SCR.
Cenal 0.0 to 3.7         Tennessee River         RIVER         6040006         McCRACKEN         58-PS	Creek 0.5 to 3.7	Tennesses River	RIVER	8040005	CALLOWAY	2.59	0-20	000	0	3/25/2002 - 1/1/2007	WAH, FC, PCR, SCR
Tennessee River   RIVER   6040006   McCRACKEN   5-PS   5-NS	d Bood Despects Canal Office 3	Tennessee River	RIVER	8040008	MCCRACKEN	58-PS	58-pg	200	0	8/10/2000	WAH, FC, PCR, SCR
1.5	Shar 40 7 to 48 7	Tennesses River	RIVER	6040006	McCRACKEN	5-PS	S.NS	200	6	5/2/2002	WAH, FC, PCR, SCR
1.5	Create On to 5.4	Tennessee River	RIVER	6040005	CALLOWAY	2-FS	2 00	200	7) (	10/10/2006	WAH, FC, PCR, SCR
Tennessee River RIVER 6040006 MACRACKEN 5-NS 3	ion Creek 0.0 to 1.5	I ennessee River	RIVER	8040006	McCRACKEN	5-PS	S-PS	0 00	2 6	1/5/2001	WAH, FC, PCR, SCR
Tennessee River RIVER 6040006 MARSHALL 5-PS 5-PS 5-PS 5-PS 5-PS 5-PS 5-PS 5-PS	ut Creek 0.0 to 3.0	Terressee River	RIVER	8040008	McCRACKEN	S-NS	6	3	9 67	3025002	WAH, FC, PCR, SCR
Tennessee River RIVER   SO40000   MARSHALL 2-FS 3	River 13.2 to 20.8	Tennesses River	DAZED	8040008	MARSHALL	5-PS	5-PS		6	3/25/2002	CAN EC DOB SOR
Terressee River   RIVER   6040006   MARSHALL   2-FS	River 28.7 to 30.7	Tennessee River	RIVER	ROADOG	MCCKACKEN	S-NS	5-PS		6	3/25/2002 - 2/26/2007	WAH FC PCR SCR
Tennessee River RIVER   6040006   MARSHALL 2-FS	River 31,7 to 34.8	Tennessee River	RIVER	6040006	MARSHALL	2-1-2	0	9	9	3/25/2002	WAH, FC. PCR. SCR
Tennessee River RIVER 6040006 MACRACKEN 5-PS	River 42.6 to 48.6	Tennessee River	RIVER	8040008	MARSHALL	2.50	200	90	m	3/25/2002	WAH, FC, PCR, SCR
Funessee River   RIVER   6040006   CALLOWAY   S-PS	KIVEL 5.0 to 13.2	Tennessee River	RIVER	8040008	McCRACKEN	S-PS	9 69	30	0	3/25/2002	WAH, FC, PCR, SCR
Tennessee River   RIVER   6040006   CALLOWAY   28(5)	River 55.6 to R4.7	Tennessee River	RIVER	8040008	CALLOWAY	5-PS	5-NS	3 2.50	7	3/25/2002	WAH, FC, PCR, SCR
Terrossee River   RIVER   6040006   MARSHALL   5-PS	River 34.8 to 42.8	Technossee Hiver	RIVER	8040006	CALLOWAY	28(5)	S-NS	3 2-FS	0 00	500000 - 4000007	WAH, FC, PCR, SCR
3 Tennessee River RIVER 6040006 CALLOWAY 5-PS Tennessee River RIVER 6040006 CALLOWAY 5-PS Tennessee River RIVER 6040006 CALLOWAY 5-PS Tennessee River RIVER 6040005 MARSHALL 5-PS Tennessee River RIVER 6040005 MARSHALL 5-NS Tennessee River RIVER 6040005 MARSHALL 5-NS	River 64.7 to 65.8	Terressee River	MARK	8040008	MARSHALL	5-PS	3	3	0	3/22/2006	WAH EC BOD SOD DING
Ternessee River RIVER 6040006 CALLOWAY 5-PS	Creek 0.75 to 3.3	Tennessee River	RIVER	ROADOR	CALLOWAY	5-PS	S-PS	3	9	1/1/2007	WAH. FC. PCR. SCR.
Ternessee River RIVER 6040005 MARSHALL 5-PS	Creek 3.3 to 7.7	Tennessee River	RIVER	8040006	CALLOWAY	200	S No	90	6	1/1/2007	WAH, FC, PCR, SCR
Tennessee River RIVER 6040006 MARSHALL 5-NS	Creak 0.1 to 8.1	Tennessee River	RIVER	8040005	MARSHALL	5-PS	0	2 60	7 6	5/2/2002 - 10/10/2008	WAH, FC, PCR, SCR
MAIN MAINTENANCE IN THE PROPERTY OF THE PROPER	Creek 6.3 to 7.7	Technology Direct	RIVER	6040006	MARSHALL	S-NS	2-FS	9	6	TOPATOR	WALL EC DOD SOD
MAEN BOHOUSE		I IDANIC REPORTED I	LINER	8040008	MARSHALL	S-NS	က	3	3	5/2/2002	WAH EC POR SOR

Managory and Segment	Rasin	Mades Books T.	A Per							
Cypress Creek 7.7 to 9.7	Tannassas Diva	Water Body IVDe	8-Digit HUC	County	WAHICAH	PCR S	SCR Fish Consumption	DWG	Anna Date	
Demon Creek 0.0 to 1.8	Tarrenge Direc	MIVER	8040006	MARSHALL	S-NS	$\vdash$	-		SPERMENT OF THE PARTY OF THE PA	Designated Uses
Duncan Creek 0.0 to 2.5	Tennesses Alver	RIVER	8040006	CALLOWAY	2B(5)	S-NS	0	2 6	ENTROPE ADMINISTRA	WAH, FC, PCR, SCR
East Fork of Clarks River 0.0 to 2.7	I WINDSOCK KIND	RIVER	8040006	MARSHALL	2-FS	S-PS	000	200	32/2002 - 10/10/2006	WAH, FC, PCR, SCR
	I GUNGESSOS KIVOL	RIVER	8040006	CALLOWAY	2-FS		200	200	2002/2/02	CAH, FC, PCR, SCR
Enday Brook O to 2 2	I envessee River	RIVER	6040006	CALLOWAY	6	SP. De	2	2	1/1/2007	CAH, FC, PCR, SCR
Condition One 1: 00 1: 00	I ennessee River	RIVER	8040008	CALLOWAY	A.De		200	9	5/2/2002	CAH, FC, PCR, SCR
CHILDRICH CIRCLE TO 2.3	Tennessee River	RIVER	6040005	CALLOWAY	2,50	0 0	200	0	2/28/2008	WAH, FC, PCR, SCR
Sugara Linear U.U.10 Z.D	Tennessee River	RIVER	6040006	MOTSTAN	200	+		60	10/10/2006	WAH, FC, PCR, SCR
Haskell Branch 1,2 to 4,5	Tennessee River	RIVER	8040006	GRAVES	200	-	200	6	5/2/2002	WAH, FC, PCR, SCR
Hominy Branch 2.3 to 3.8	Tennessee River	RIVER	R010201	CDANCE	200	2	2	n	1/1/2007	WAH, FC, PCR, SCR
Island Creek 0.0 to 5.6	Tennessee River	BIVED	804000	STANCE OF THE PERSON OF THE PE	7-L			e	2/28/2007	WAH. FC. PCR. SCR
listend Creek 5.6 to 10.3	Tennesses River	DAVED	000000	MCCKACKEN	5-PS	S	3	9	5/2/2002	WAH EC POR SOR
Jonethan Creek 10.9 to 19.3	Total Control	NIVER	904000	MCCRACKEN	5-PS	9	3	6	4/1/1908	WALL ED DOD GOD
Constitute Court 7 4 to 40 0	I STRESSO KIVE	RIVER	6040005	CALLOWAY	28(5)			0	000000	WAT, TC, PCK, SCK
Winds of the County of the Cou	Tennesses River	RIVER	6040005	CALLOWAY	S.p.s			200	2007/7/6	WAH, FC, PCR, SCR
Neutroxy Lake	Tennessee River	RESERVOIR	ROADONS	CALLOWAY		+		2	2/28/2007	WAH, FC, PCR, SCR
Ledbetter Creek 2.9 to 5.5	Tennesses River	DN/ED	604000	ייייייייייייייייייייייייייייייייייייייי	-13	2	1-FS 1-FS	1-FS	11/28/2006	WAH FC POR SOR
Little Cypress Creek 3.4 to 6.0	Teconomic Diver	NAC.	CONTOCO	MAKSHALL	2-FS	9	9	(7)	5222002	WAN EC DO GOD
Little Current Create Of to 3.4	I CHI I CESCO LIVE	RIVER	6040006	MARSHALL	SN-S	m	e e	6	500000	איני איני יכי ויכי
ith touther Court of the So	I STATESTON KIVE	RIVER	8040006	MARSHALL	S-NS	CO.		0	202220	CAH, FC, PCK, SCK
LINE JOHNSTON LINES U.U TO S.U	Tennessee River	RIVER	8040005	CALLOWAY	2.50		-	7	2002/2/6	WAH, FC, PCR, SCR
Little White Oak Creek 0.0 to 2.4	Tennesses River	RIVER	ROADOR	MADELIALI	1	1	2	63	5/2/2002	CAH, FC, PCR, SCR
Martin Creek 0.0 to 0.8	Termesee River	04/40	000000	THUCKE	1	SH-BC	3	6	3/22/2006	WAH FC PCR SCR
Middle Fork Creek 0.2 to 6.0	Tennesses Diver	NIVER	90000	MAKSHALL	SB-BS	5B-PS	3	6	5/2/2002	WAH EC DOR SCB DWG
Middle Fork of Clarks River 27 to 4 8		NIVER	SOMEOO!	MAKSHALL	5-PS	S-NS	3	m	5222002	WAH EC DOD COD DIAG
Middle Fort of Clarke Diver O to 5 7	TOWN SECOND LINES	KIVER	8040006	CALLOWAY	S-PS	9	6	6	2000002	MAL TO SON DAY
Death Court of the Court of Co	I ennesses River	RIVER	6040006	CALLOWAY	5-PS	S-NS	2	000	EDDOOR ALEDOOR	WAH, FC, PCK, SCK
Personal Creek U.D.10 3.0	Tennessee River	RIVER	8040005	GRAVES	2.50	S.NE	0	2 0	/007/1/1 - Z007/7/c	WAH, FC, PCR, SCR
Panther Creek 0.0 to 5.2	Tennesses River	RIVER	ROADOOS	CALLOMAN	2 5	1		9	10/10/2006	WAH, FC, PCR, SCR
Parither Creek 3.0 to 4.2	Tennessee River	07/40	004000	COLLONG	2-4.2	+	m	9	3/12/2007	WAH, FC. PCR. SCR
Prvor Branch 0.0 to 29	Towns and a second	NAC.	9040009	GRAVES	2-FS	3	9	6	8/28/2001	WAH FC PCB SCB
Desume Branch O to 0.2	I DI MARCO LIVEL	KIVEK	8040008	GRAVES	2-FS	e	3	6	6/28/2000	WALE OF STREET
Neeves De Edit Collo D.S.	ennesses River	RNER	8040008	MARSHALL	5-PS		6	c	2000003	איניין רטי רטין איניין
Nockhouse Creek 0.0 to 4.8	Tennessee River	RIVER	8040008	CALLOWAY	2.FS	+		2	SALEULE	WAH, PC, PCR, SCR
Soldier Creek 0.0 to 5.7	Tennessee River	RIVER	ROADOR	MADCHALL	920	+	200	2	3/21/2006	WAH, FC, PCR, SCR
Spring Creek 0.0 to 2.0	Tennessee River	DN/ED	8040000	2000	61-7	2		63	10/10/2006	WAH, FC, PCR, SCR
Spring Creek 3 8 to 5 4		NIVEN	000000	GRAVES	5-PS		9	e	3/15/2007	WAH FC PCR SCR
Cross Const Of to 30		RIVER	8040008	GRAVES	1		3	6	3/15/2007	WAH EC POR SCR
September 19 Common Parket	lennesses Kiver	RIVER	8040006	GRAVES			9	c	RDROOO	100 000 000 000 MANA
SUGER C.	Tennessee River	RNER	8040005	CALLOWAY	1			0	2007070	אינה, דיכי, רכא, טכא
Tennessee River 12.0 to 21.8	Tennessee River	RNER	8040008	MARSHALL	250	i		2	3/13/200/	WAH, FC, PCR, SCR
Termessee River 21.8 to 23.1	Tennessee River	RIVED	8040008	MACCUALL	1	i		9	12/3/2001	WAH, FC, PCR, SCR
Tennessee River 48 to 10.5	0	Charles	000000	MARSHALL	,	,	2	m	3/20/2006	WAH. FC. PCR. SCR
Technology of Et at 4	I OT HIGH SOUND TO THE	KIVEK	8040006	McCRACKEN		6	3	co	3/20/2007	WAN EC POP SOP
THE MODEL IN THE PARTY OF THE P	I BULLESSON KIVEL	RIVER	8040008	McCRACKEN	e				3/48/2007	100 CO CO CO
Iraca Creek 1.1 to 5.9	Tennessee River	RIVER	6040006	GRAVES		1		0	STOCKOOL	WAH, FC, PCR, SCR
Turkey Creek 1.8 to 3.9	Tennessee River	RIVER	6040005	TRIGG	2,50	000	200	200	3/10/ZOD/	WAH, FC, PCR, SCR
Turkey Creek 0.0 to 3.4	Tennessee River	RIVER	ROADOR	COAVEC	200	+	-	7	5/2/2002	WAH, FC, PCR, SCR
UT to Chestrut Creek 0.0 to 0.7	Techesee Biver	DAVED	904000	CONTROL	1		60	69	1/1/2007	WAH, FC, PCR, SCR
UT to Clarks River 0.0 to 3.3	Technology Diver	Charles	004000	MARSHALL	Sd-BS	58-PS	3	9	5/2/2002	WAH, FC, PCR, SCR
IT to Old Resuser Dam Slowerh On to 0.5		NIVER	90000	CALLOWAY	SN-C	2	3	6	3/22/2006	WAH, FC. PCR. SCR
I'm to Other County On to Other	TOTAL MERCAN LIVE	RIVER	8040008	MARSHALL	5-NS	3	3	e	5/2/2002	WAH FC PCR SCR
The Court of the C	CHARGESON KIVE	RIVER	8040006	MARSHALL	9	58-NS	3	e	3/15/2007	WAH FC PCR SCR
The second of th	I GLUGGEROO KINGL	RIVER	8040005	CALLOWAY	2-FS	8	9	0		WAH FC PCR SCR
O I IO O I IO PURITION CLOSEN U.U IO 1./	I ennesses River	RIVER	8040006	GRAVES	2-FS	3	60	6		WALL EC BOD GOD
UT TO UT TO 1 enhassee RIVer (Kentucky Lake) U.15 to 0.8	Tennesses River	RIVER	8040005	CALLOWAY	S-NS	3	3	e	SPORTOR	WALL ED BOD SOD
Wades Creek 0.0 to 4.0	Tennessee River	RIVER	6040006	MARSHALL	2-FS	62	6	6	500000	WALL FO DOD ONE
West Fork of Clarks River 0.0 to 10.4	Tennessee River	RIVER	8040008	McCRACKEN	S'NS	S.N.S		0	SUSTANCE	TO SON DAY
West Fork of Clarks River 13.1 to 17.2	Tennessee River	RIVER	6040008	GRAVES	2-FS	SNS	2	0	6/4/2002	WALL CO. TON SON
West Fork of Clarks River 17.2 to 20.0	Tennessee River	RIVER	6040008	MARSHALL	2.FS	c		,	2002	איאין, רכי רטה, טכא
West Fork of Clarks River 20.1 to 28.4	Tennessee River	RIVER	6040008	MARSHALL	256	200	304	200	3/2/1/2000	WAH, FC, PCR, SCR
West Fork of Clarks River 34.2 to 38.2	Ternessee River	PIVER	RO400R	CALLOWAY	20/60	2 6	24.0	2	TOTOZOOS	WAH, FC, PCR, SCR
West Fork of Clarke River (Relict Channel) 0.0 to 12 B	Tennesses Otto	CANCO	000000	CALLOVA	(0)07	2	en en	63	3/16/2007	WAH, FC, PCR, SCR, DWS
Wast Early of Clarke Diver (Deliet Channel) 40 7 to 70 7	Tonnonna Divor	AIVER	000000	GRAVES	2-1-5	63	60	က	7/11/2000	WAH, FC, PCR, SCR
MALLET OF COURSE (Name) CHARACT TO LES.	I DI LI LOS DE LA	KIVEK	9040008	MARSHALL	2-FS	3	3 5-PS	n	1/3/2002	WAH, FC. PCR. SCR
Wildcar Croek 1.3 to 6.8	I ennesses River	RIVER	6040005	CALLOWAY	2-FS	6	e	63	10/10/2008	WAH FC PCR SCR
Blahop Ditch 0.0 to 2.7	Tradewater	RIVER	5140205	WEBSTER	S-NS	60	9	6	3/1/2003	WAH FC PCR SCR
Brooks Creek 0.0 to 4.9	Tradewater	RIVER	5140205	HOPKINS	2-FS	m	er.		3/1/2003	WALL ET BOD GOD
Buffalo Creek 0.0 to 6.8	Tradewater	RIVER	5140205	HOPKINS	S-PS	6.			3/1/2003	WALL TO SOD SOD
								,	of Highwa	אירון, דט, דטת, פנה

Waterbody and Segment	Sasin	Motor B. 4. T								
Bull Creek 0.0 to 1.0	Tradewater	RIVED	8-Digit HUC	County	WAHICAH	PCR 8	SCR Fish Consumption	DAVE		
Cares Nurs Could 00 to 22	Tradewater	RIVER	5140205	WEBSTER	5-PS	က		╆	2412000	Designated Uses
Carry Creak C.C. 10 4.3	Tradewater	RAKED	544000	HOPKINS	4A-NS	4A-NS 4	4A-NS	0 6	3112003	WAH, FC, PCR, SCR
Carrier Care 0.0 to 8.2	Tradewater	RIVER	5140205	CALDWELL	S-NS	3	9	2 6	4/1/1998	WAH, FC, PCR, SCR
Carray Fork 3.4 to /.9	Tradewater	RIVER	5140005	HOPKINS	S-NS	5-NS 5	5-NS	0 6	10/4 2007	WAH, FC, PCR, SCR
Classificating Creek U.O to 2.1	Tradewater	RIVER	544000E	WEBSTER	S-PS	9			2/4/2000	WAH, FC, PCR, SCR
Clear Creek U.C to 7.5	Tradewater	RIVER	544000	CHRISTIAN	S-PS	3	9		3/4/2003	WAH, FC, PCR, SCR
Clear Creek 19.4 to 26.2	Tradewater	RIVER	5140205	HOPKINS	S-NS	S	2-FS 3	6	1/18/2008	WAH, FC, PCR, SCR
Const Cream Co. 10 20.0	Tradewater	RIVER	5140205	CONTON	2-PS	m	9	9	3/1/2003	איאר דיירי אינה אינה
Consers Creek U.O ID 2.7	Tradewater	RIVER	5140205	LODKAR	2	S-NS	9	6	4/1/1998	WALL ET DEB GOD
Copperate Creek U.U to 3.6	Tradewater	RIVER	5140205	CHARLE	SN-c		5-NS 3	3	10/1/2007	איאר יטר יטר ואיאר
Catalogical Cross (including Vaughn Ditch) 0.0 to 14.7	Tradewater	RIVER	5140205	WEBETED	SN-0		4A-NS	6	10/1/2007	WAN EC BOD BOD
Critical Critical 19.2 to 21.5	Tradewater	RIVER	5440005	WEDSIEK	2-FS	5-NS 2	2-FS 3	6	1772008 - 1/172008	WANT TO DOD DOD
Doneldson Creek 0.0 to 14.2	Tradewater	RIVED	5140005	WEBSTER	5-PS	9	3	67	3/1/2003	WAH, FC, PCR, SCR
East Fork of Flynn Fork 2.1 to 4.8	Tradewater	RIVER	5140205	HOPKINS	2-FS	S	5-PS 3	6	1/18/2008	WAH, FC, PCR, SCR
East Fork of Humicane Creek 0.0 to 2.2	Tradewater	DAVED	5440005	CALDWELL	2-FS	9	3	67	11/12/2000	WAT, TC, PCK, SCK
Fox Run 0.0 to 1.1	Tradewater	RIVED	5140005	HOPKINS	SN-S	က	3	6	40/4/2007	WAN, PC, PCR, SCR
Hoods Creek 0.0 to 7.2	Tradewater	DAVED	5140505	HOPKINS	SN-S	5-NS 5	5-NS		104,0007	WAH, P.C. PCR, SCR
Hurricane Creek 0.0 to 1.8	Trachwater	MACO	CUZUP1C	CRITTENDEN	2-FS	6	3		11/12/2000	WAH, PC, PCR, SCR, DWS
Lake Beshear	Traclementer		5140205	HOPKINS	5-NS	5-NS 5-	5-NS	0 0	1144 2000	WAH, FC, PCR, SCR
Lake Peewee	Tendermin		5140205	CALDWELL	2-FS	+-	2	2 5	907/11/1	WAH, FC, PCR, SCR
Lambs Creek 0.0 to 3.3	Tenderick	KESEKVOIK	5140205	HOPKINS	2-FS	3	2-FS	2000	11/14/2008 - 1/28/2008	WAH, FC, PCR, SCR
Lick Creek 0.0 to 11.9	Tracewater	RIVER	5140205	HOPKINS	5-PS	+	2 6	(c)g7	11/14/2008	WAH, FC, PCR, SCR, DWS
Loch Mary	Labewater	RIVER	5140205	HOPKINS	5-NS	+		200	3/1/2003	WAH, FC, PCR, SCR
I vnn Fork 0.0 to 2.4	radewater	RESERVOIR	5140205	HOPKINS	2-FS	t	2000	7	3/1/2003	WAH, FC, PCR, SCR
Modfe I also	radewater	RIVER	5140205	WEBSTER	20.0	+	200	2-1-5	11/14/2008	WAH, FC, PCR, SCR
Mandaman Onet, 001-70	Tradewater	RESERVOIR	5140205	NOINO	2.50	+	200	63	3/1/2003	WAH, FC. PCR. SCR
Output Clear U.U IO / .3	Tradewater	RIVER	5140205	CALDWELL	2.50	+	2-13	6	11/14/2006	WAH, FC, PCR, SCR
Description of the Control of the Co	Tradewater	RIVER	5140205	WERSTED	ED NIC	+	200	0	3/1/2003	WAH, FC. PCR. SCR
POTITIVITIES LAKE	Tradewater	RESERVOIR	5140205	CHRISTIAN	CN-OC	+	0	3	1/11/2008	WAH, FC. PCR. SCR.
Pigeonroost Creek 0.0 to 3.9	Tradewater	RIVER	5140205	CONTRACTOR	2-12	-	FS	က	11/14/2008	WAH FC PCR SCR
Piney Creek 17.1 to 25.4	Tradewater	RIVER	5140205	CRITTENDEN	27-0	0	3	6	3/1/2003	WAH. FC. PCR. SCR.
Piney Creek 4.5 to 10.2	Tradewater	RIVER	5140205	CALDIAGE	2-12	+	9	6	11/12/2002	WAH FC PCR SCR
Popue Creek 0.0 to 4.9	Tradewater	RIVER	5140205	HODKING	2-1-2	+	9	က	11/12/2002	WAH, FC. PCR. SCR.
Pond Creek 0.0 to 5.5	Tradewater	RIVER	5140205	HODKING	2-12	+	3	က	3/1/2003	WAH, FC. PCR SCR
Providence City Reservoir	Tradewater	RESERVOIR	5140205	WEBSTED	200	0	3	9	3/1/2003	WAH FC PCR SCR
Relict Channel of Cypness Creek 0.5 to 3.3	Tradewater	RIVER	5140205	INION	242	+	2-FS 3	2-FS	1/1/2002 - 1/28/2008	WAH. FC. PCR. SCR.
Richland Creek 0.0 to 4.5	Tradewater	RIVER	5140205	MODELING	2-12	0	5-PS 3	8	1/18/2008	WAH. FC. PCR. SCR. DWS
Sandick Creek 4.5 to 8.6	Tradewater	RIVER	5140205	CHDISTIAN	2-40	20 0	m	e	3/1/2003	WAH, FC. PCR. SCR.
Sugar Creek 0.0 to 5.3	Tradewater	RIVER	5140205	HODICING	AA NO	-	9	e	1/16/2008	WAH, FC, PCR, SCR
Trice Branch 2.4 to 2.8	Tradewater	RIVER	5140205	HODKING	2010	AN-NO AN	4A-NS	8	3/1/2003	WAH, FC, PCR, SCR
Indewater River 0.0 to 16.8	Tradewater	RIVER	5140205	NON	SH-NS	200	9	6	1/18/2008	WAH, FC, PCR, SCR
Indewater River 122,9 to 133.9	Tradewater	RIVER	5140205	CHRISTIAN	0 50	1	200	0	3/27/2003	WAH, FC, PCR. SCR
Iradewater River 20.6 to 46.4	Tradewater	RIVER	5140205	WERSTED	E NO	+	2	n	4/1/1996	WAH, FC, PCR. SCR
Tradewater River 63.1 to 79.4	Tradewater	RIVER	5140205	HODKING	200	+	D-02-0	2-FS	1/16/2008	WAH, FC, PCR, SCR
Tradewater River 96.7 to 96.5	Tradewater	RIVER	5140205	HOPKING	2000	2+2	0	6	3/1/2003	WAH, FC, PCR, SCR
I radewater River 98.5 to 111.1	Tradewater	RIVER	5140205	CHRISTIAN	200	2000	200	6	1/16/2008	WAH, FC, PCR, SCR
Lyson Branch 0,0 to 2.5	Tradewater	RIVER	5140205	CALDWELL	S.MC	+	200	0	1/18/2008	WAH, FC, PCR, SCR
UT 10 CIGAT CLOOK 0.0 to 2.2	Tradewater	RIVER	5140205	HOPKINS	T	0	200	M	3/1/2003	WAH, FC, PCR, SCR
UT to Copper Creek 0.0 to 1.1	Tradewater	RIVER	5140205	HOPKINS	S-NS		200	m	1/11/2008	WAH, FC, PCR, SCR
IT IS COMPARED COMMAND TO U.S.	Tradewater	RIVER	5140205	HOPKINS	5-NS	U.	ANS C	200	7002/1/01	WAH, FC, PCR, SCR
of to cracorciare craek 0.0 to 1./	Tradewater	RIVER	5140205	WEBSTER	T	+	2 6	7) (7)	1/11/2008	WAH, FC, PCR, SCR
Ut to Longiagon Creek U.0 to 1.8	Tradewater	RIVER	5140205	CALDWELL	1		2 6	200	1/11/2008	WAH, FC, PCR, SCR
OF IN THE CARE CIRER UNITS OF THE	Tradewater	RIVER	5140205	HOPKINS	S-NS	U.	SN-S	2 0	9002/11/1	WAH, FC, PCR, SCR
IT to Blass Care Dott 20	Tradewater	RIVER	5140205	WEBSTER		+-		2 6	4447000	WAH, FC, PCR, SCR
IT to be a series of the control of	Tradewater	RIVER	5140205	CALDWELL		m	0 6	2 6	41487000	WAH, FC, PCR, SCR
IT to Simulation Charles Charles	Tradewater	RIVER	5140205	CHRISTIAN	2-FS	63		2 "	441420000	WAH, FC, PCR, SCR, DWS
IT to IT to Commen Count Of to 0.4	radewater	RIVER	5140205	WEBSTER	5-PS	6	3	0 67	1/18/2008	WALE OF BOD SOR
UT to UT to Stover Conek 00 to 12	Trademeter	RIVER	5140205	CNION		58-NS	3	60	1/11/2008	WAH FC PCB SCB
UT to UT to Slover Creek 0.2 to 1.5	Trackwater	RIVER	5140205	WEBSTER	S-PS	60	60	9	1/16/2008	WAH. FC. PCR. SCR
UT to UT to Slover Creek 0.0 to 1.1	Trackwater	AIVER	5140205	WEBSTER	S-NS	9	m	က	3/1/2003	WAH, FC. PCR. SCR
	IIII	עואפעוע	ST-FUZUS	WEBSTER		SB-NS	3	က	1/11/2008	WAH. FC. PCR. SCR

United Date   100   Tablewater Fliver 0.0 to 0.55   Ward Greek 4.9 to 10.3   Ward Greek 6.0 to 4.9   Whiteside Greek 1.9 to 2.65   Whiteside Greek 1.9 to 2.65   World Greek 0.0 to 1.0   Revice Beneath 0.0 to 0.0 to 0.0	Traclesiesher	The state of the last of the l	S SCHOOL SECTION	COMPLY			ŀ	H			1
Visitor Creek (10 to 4.9) Welra Creek (10 to 4.9) Whiteside Creek (1.9 to 2.85) World Creek (1.9 to 1.9)	THE WAR WILL	RIVER	5140205	HOPKINS	SE MC	774	R Fish Consumption	SWO US	Assess Date	Designated Uses	
Whitenide Creek 1.9 to 2.85 Work Creek 0.0 to 1.0 Rocke Second Oct. 0.0	Tradewater	RIVER	5140205	CALDIMELL	S.Ne	2	69	0	1/16/2006	WAH, FC, PCR, SCR	
Worl Creek 0.0 to 1.0	Tradewaser	RIVER	5140205	HOPKINS	5-NS	2 60	70 00	m	3/1/2003	WAH, FC, PCR, SCR	
Beate Breath O to O	Tradewater	RIVER	5140205	HOPKINS	5B-NS	-	200	0	3/1/2003	WAH, FC, PCR, SCR	
	Tradewater	RIVER	5140205	CRITTENDEN	S-NS		9 6	2	1/17/2008	WAH, FC, PCR, SCR	
Brushy Creak O 0 to 3 9	Lyderis Creek	RIVER	5090103	GREENUP	5-PS	0 00	9 6	9 0	3/1/2003	WAH, FC, PCR, SCR	
Buffalo Creek 0.0 to 6.3	Ygans Creek	RIVER	5090103	GREENUP	2-53	100	3 67	0 6	1772/2003	WAH, FC, PCR, SCR	
Buffalo Creek 6.3 to 9.6	Typerta Cyank	RIVER	5090103	CARTER	2-FS	2-FS 3	6	m	1/14/2004	WAH FC PCK, SCR	
Jacobs Fork 3.6 to 5.7	Typeria Creak	BAVED	50000000	CARTER	2-FS	9	3	0	11/25/2003	WAH ED DOG O	
Leatherwood Branch 0.0 to 4.3	Tygerts Creek	RIVER	SOUTON	CANTER	5-PS	es es	2	3	11/12/2003	WAH FC PCR SCR	
McGlone Fork 0.0 to 2.5	Typarts Creek	RIVER	5000403	CABTER	Z-FS	9	60	က	1/21/2004	WAH FC PCR SCR	
Schultz Creek 1.3 to 4.7	Typarts Creek	RIVER	5000409	CONTINUE	2-5	2	3	က	1/24/2004	WAH FC PCR SCR	
Schultz Creek 4.7 to 10.8	Typarts Creek	RIVER	5090103	CREENING	24.00	m	3	n	11/11/2003	WAH. FC. PCR. SCR.	
Smith Creek 2.0 to 4.3	Typerts Creek	RIVER	5090103	CARTER	200	200	00	67	2/9/2004	WAH, FC, PCR, SCR	
Smokey Valley Lake	Typerts Creek	RESERVOIR	5090103	CARTER	2000	70	0	m	11/11/2003	WAH, FC, PCR, SCR	
Calding Fact. On the O.	Tygerta Creek	RIVER	5090103	CARTER		9 0	2	0	3/5/2003	WAH, FC, PCR, SCR	
Them Designed to the Control of the	Tygerts Creek	RIVER	5090103	CARTER	0	2 6	200	0		WAH, FC, PCR, SCR	
Transfer Printy Branch U.O ID D.B	Typerts Creek	RIVER	5000103	CARTER	2,59	2 6	0	0		WAH, FC, PCR, SCR	
Trough Comb 0.0 to 45.7	Tygarts Creek	RIVER	5090103	CARTER	50.5	9 6	200	m	1/21/2004	WAH, FC, PCR, SCR	
Turnet Creat 610 to 57 p	Lygerts Creek	RIVER	5090103	GREENUP	2-58	28/51 3	S NO	200	11/11/2003	WAH, FC, PCR, SCR	
Twenty Creek BA 0 to 88 B	Typerts Creek	RIVER	5090103	CARTER	2-58		D. C.	200	1/20/2004	WAH, FC, PCR, SCR	
Typeria Creek 78 0 to 88 6	yperts Creek	RIVER	5090103	GREENUP	2-F9		e1	0 60	1/48/2000	WAH, FC, PCK, SCR	
White Oak Creek 0.0 to 1.1	- yparts Creek	RIVER	5090103	CARTER	9	0	2-58	258	2/9/2004	WAT, TC, PCK SCR	
Adams Branch 0.0 to 1.8	Proper Combactors	RIVER	5090103	GREENUP	m	60	6	0	4/1/1998	WAH EC BOD SON	1
Archers Creek 0.0 to 4.4	Distriction of the party of the	RIVER	5130101	WHITLEY	2-FS	60	en	2	4/1/1998	WAH EC DOD COD	
Bad Branch 0.0 to 3.0	Inches Curberland	KIVEK	5130101	WHITLEY	2-FS	3	m	n	4/1/1996	WAH FC PCP SCP	T
Balley Creek 0.0 to 2.6	Donal Cambarland	KIVEK	5130101	LETCHER	2-F8	3	3	m	7/31/2001	WAH FC PCR SCR	
Bark Camp Creek 0.1 to 3.8	Ilpose Cumbarland	AIVER	5130101	HARLAN	63	4A-NS 3	(7)	60	4/1/1998	WAH FC PCR SCR	
Bear Creek 0.0 to 2.8	Upper Cumberland	RIVED	6490409	CHARGO AND	5-PS	0	60	es	11/8/2008	WAH FC PCR SCR	
Bear Creek 0.0 to 3.3	Upper Cumberland	BANER	5130103	COMBERLAND	2-13	-		m	1/26/2007	WAH FC PCR SCR	
Bear Creek 0.0 to 2.7	Upper Cumberland	RIVER	ROADOOR	DIE ABIN	S-NS	S-NS S-NS	2	6	4/1/1998	WAH FC, PCR, SCR	
Beaver Creek 1.0 to 7.0	Upper Cumberland	RIVER	5130103	MeChana	2000	000	m (	en		WAH, FC, PCR, SCR	
Beaver Creek 16.6 to 34.5	Upper Cumberland	RIVER	5130103	WAYNE	000	200		en	7/31/2001	WAH, FC, PCR, SCR	1
Beaver Creek 16.2 to 16.6	Upper Cumberland	RIVER	5130103	WAYNE	S.P.S	1	000	m	1/27/2007	WAH, FC, PCR, SCR	
Becks Creek 0.0 to 4.0	Upper Cumberland	RIVER	5130101	WHITLEY	6.PS	14		0	11/8/2006	WAH, FC, PCR, SCR	
Bee Lick Creek 0.0 to 5.7	Upper Cumberland	-RIVER	5130103	PULASKI	2.FS	+	-	200	4/1/1998	WAH, FC, PCR, SCR	
BeeLick Creek 7.5 to 10.9	Upper Cumberland	RIVER	5130103	LINCOLN	5-PS	0 00	2 67	0 0	DOOGGGG	WAH, FC, PCR, SCR, DWS	S
Rece Fort 20 to 22	Upper Cumperland	RIVER	5130101	HELL	5-PS			en	1000001	WAT TO POR SOR	1
Bio Branch 0 4 to 2 0	Opper Cumberland	RIVER	5130101	BELL	5-PS	M	100	-	1/31/2007	WAH EC DOS GOD	-
Big Clifty Creek 1 1 to 4 8	Done Cumberland	MIVER	5130101	MOCREARY	2-FS	69	62	69	4/1/1996	WAH EC POR SOR	
Big Cliffy Creek 0.0 to 1.1	Upper Cumberland	RIVER	5130103	PULASK	2-53	6	m	60	1/28/2007	WAH, FC. PCR. SCR.	
Big Indian Creek 0.0 to 5.6	Upper Cumberland	RIVER	5130103	POLASK	248	6	67	9	1/28/2007	WAH, FC, PCR, SCR	
Big Lick Branch 1.1 to 2.6	Upper Cumberland	RIVER	5130103	PINARKI	250	200	63	m	9/21/2000	WAH, FC, PCR, SCR	
Big Lily Creek 0.0 to 5.0	Upper Cumberland	RIVER	5130103	RUSSELL	2-58	9 60	2.68	200	12/10/2001	WAH FC PCR SCR	
Big Kenox Creek 0.0 to 5.8	Upper Cumberland	RIVER	5130103	CUMBERLAND	S-PS	0		9 60	7/10/2000	WAN FC PCR SCR	I
Bills Branch 2 4 to 2 7	Upper Cumberland	RNER	5130103	CUMBERLAND	3	3 3	3	67		WAH FC PCR SCR	T
Rischarate Branch Of to 2 4	opper cumperand	RIVER	5130102	JACKSON	0		m	2-FS		WAH FC PCR SCR	I
Blake Fork 00 to 48	Inper Cumberland	RIVER	5130101	BELL	2-F8	63	9	m	12772001	WAH FC PCR SCR	T
Board Branch 0.5 to 1.8	Inner Cumberland	RIVER	5130101	WHITLEY	2-FS	-+	m	9	1/26/2007	WAH, FC, PCR, SCR	
Breedens Creek 0.0 to 2.8	Upper Cumbarland	NIVER	5130101	HANCAN	5-N3	5-NS 5-NS	20	9	11/30/2006	WAH, FC, PCR, SCR	
Briany Creek 0.0 to 4.4	Upper Cumberland	RIVER	5130103	DIN ACK	242	700	m	69	12/10/2001	WAH, FC, PCR, SCR	
Bricas Craek 0.0 to 3.2	Upper Cumberland	RIVER	5130101	KNOX	200	200	0	0	9/19/2000	WAH, FC, PCR, SCR	
Brownles Creek 9.9 to 16.7	Upper Cumberland	RIVER	5130101	BELL	2.58	0 0	2 6	90	12/10/2001	WAH, FC, PCR, SCR	
Brush Creek 0.0 to 3.5	Upper Cumberland	RIVER	5130101	KNOX	5-NS	2 63	9 69	0 10	100ZQZ01	WAH, FC, PCR, SCR	
Brush Creek 1.1 to 7.5	Upper Cumberland	RIVER	5130102	ROCKCASTLE	3	4A-NS 3	9 60	9 69	1/1/2001	WAH FC PCR SCR	T
Block Ower 44 7 to 50 3	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	3 3	63	0	10/10/2006	WAH FC PCR SCR	Ī
DOOR CLOSE STATE WAS A	Compensary Compensary	RIVER	5130103	PULASKI	2-FS	2-FS 2-F	8	m	10/10/2006	WAH FC PCR SCR	П

	Basin	Water Rocky Time	011111111111111111111111111111111111111							
Buck Creek 32.3 to 40.8	Upper Cumberland	RIVER	5130103	County	WAHICAH	PCR SCR	R Fish Consumption	DWS	Assess Date	Designated Hear
Buck Creek 45.2 to 45.8	Upper Cumberland	RIVER	5130103	PULASKI	2-5	2 6		0	3/25/2002	WAH, FC, PCR, SCR
Buck Creek 45.6 to 53.0	Upper Cumberland	RIVER	5130103	PULASKI	2-FS	1	200	0	3/25/2002	WAH, FC, PCR, SCR
Buck Creek 53.0 to 58.9	Loor Curberland	RIVER	5130103	PULASKI	2-FS	-	uń.	2 6	10/10/2006	WAH, FC, PCR, SCR
Buck Creek 0.4 to 2.8	Upper Cumberland	PAVER	5130103	LINCOLN	2-FS	3		m	3755700	WAH, PC, PCR, SCR
Bucks Branch 0.0 to 2.5	Upper Cumberland	PIVED	5130101	WHITLEY	2-FS	3		co	12/10/2001	WAT PO POR SOR
Buffalo Creek 2.6 to 3.9	Upper Cumberland	RIVER	5130101	WHILEY	2-FS	2		60	4/1/1998	WAH EC BCB SCB
Bull Run 0.0 to 3.7	Upper Cumberland	RIVER	5130101	MCCKEAKT	2-5	2	60	က	1/1/2001	WAH EC PCP SCO
Curding Creek 0.0 to 3.3	Upper Cumberland	RNER	5130101	WHITTIEN	200	-	m	၉	3/23/2006	WAH FC PCR SCR
Cent ren ren U.O to 3.6	Upper Cumberland	RIVER	5130101	WHITIEN	2 50	20 0	0	၉	10/10/2006	WAH, FC. PCR. SCR.
Constitution of the Consti	Upper Cumberland	RIVER	5130101	WHITLEY	250	1	60	က	10/10/2006	WAH, FC. PCR. SCR.
Care Dienti 0.010 2.0	Upper Cumberland	RIVER	5130103	MCCREARY	1		0	3	12/10/2001	WAH FC PCR. SCR.
Cana Creat Of to 44 0	Upper Cumberland	RIVER	5130101	WHITLEY	T	DN-NO PA-NO	200	0	2/14/2006	WAH FC PCR SCR
Cana Create Onto 4.4	Upper Cumberland	RIVER	5130102	LAUREL	2.50	2 6	20	6	11/17/2001	WAH, FC, PCR, SCR
Control Control	Upper Cumberland	RIVER	5130101	WHITLEY	S.N.S	+	20 00	2	8/10/2005	WAH, FC, PCR, SCR
Capacian Create Of the 4 a	Upper Cumberland	RIVER	5130101	BELL	2.FS	2 6	200	63	3/22/2006	WAH, FC, PCR, SCR, DWS
Cannon Creat 40 to 8 8	Upper Cumberland	RIVER	5130101	BELL	S-PS	+	200	60	12/10/2001	WAH, FC, PCR, SCR
Cannon Creat Late	Upper Cumberland	RIVER	5130101	BELL	2-FS	0 6	200	7	1/26/2007	WAH, FC, PCR, SCR
Capuchin Creek 0.0 to 1.3	Upper Cumberland	RESERVOIR	5130101	BELL	2-FS	3 258	200	200	11/10/2001	WAH FC, PCR, SCR, DWS
Casey Fork of Memowhone Creak 0.0 to 2.0	Opper Cumberland	RINER	5130101	WHITLEY	2-FS	+	2 6	2+2	1/18/2006	WAH, FC, PCR, SCR
Catron Creek 0.0 to 8.9	Opport Cumberland	RIVER	5130103	CUMBERLAND	2-FS	+	2 6	2 6	10000000	WAH, FC, PCR, SCR
Chenoa Lake	Opper Cumberland	RIVER	5130101	HARLAN	2-FS ,	4A-NS	0 60	2 6	OVZVZOO	WAH, FC, PCR, SCR
Clear Creek 3.4 to 7.8	Done Cumperand	RESERVOIR	5130101	BELL		4		2.50	12/0/2000	CAH FC PCR, SCR
Clear Creek 0.8 to 3.2	Disper Cumpand	RIVER	5130102	ROCKCASTLE	2-FS	6	0	2 6	4 2020007	CAH FC, PCR, SCR
Clear Fork 0.0 to 9.1	Inchedital Carde	RIVER	5130101	BELL	2-FS	9	6	2 6	100000	WAH, FC, PCR, SCR
Clear Fork 17.0 to 19.4	Copper Cumpenand	KIVER	5130101	WHITLEY	2-FS	S		2 6	4 24 2007	WAH, FC, PCR, SCR, DWS
Clifty Creek 0.0 to 2.7	Inner Cumberland	KINER	5130101	WHITLEY	5-PS	1	3		10/10/2007	WAH, FC, PCR, SCR
Clover Fork 28.2 to 28.9	Daniel Combandary	KIVEK	5130103	PULASKI	2-FS	9	3	67	SPONO	WAT, TC, PCR, SCR
Clover Fork 28,9 to 33.8	Under Cumbarland	AIVER	5130101	HARLAN		4A-NS 3	6	6	5/2/2002	WALL ET DED SEB
Clover Fork 9.2 to 15.5	Upper Cumberland	DIVER	TOTOGETE	HARLAN	i		3	6	5/2/2002	WAH EC OCO SCO
Clover Fork 0.0 to 9.2	Upper Cumberland	RIVED	5130101	HAKLAN		i	က	3	9/3/2002	WAH EC POR SCR
Clover Fork 15.5 to 18.2	Upper Cumberland	RIVER	5130404	HAKLAN	2-FS	4A-NS 3	6	က	5/2/2002 - 1/31/2007	WAH FC PCR SCR
Clover Fork 18.2 to 28.2	Upper Cumberland	RIVER	5130101	HADIAN	1		8	က	8/8/2007	WAH, FC. PCR. SCR
Cloverlick Creek 0.0 to 5.0	Upper Cumberland	RIVER	5130101	HAD! AN	1	1	က	က	4/1/1998	WAH, FC. PCR. SCR
Coffey Branch 0.1 to 2.0	Upper Cumberland	RIVER	5130104	MCCREARY	1	AA-NS 3	en (	က	3/22/2006	WAH, FC, PCR, SCR
Cogur Fork 0.0 to 7.9	Upper Cumberland	RIVER	5130101	MCCREARY	256	+	0	63	11/19/2001	WAH, FC, PCR, SCR
Coles Branch 0.0 to 2.1	Upper Cumberland	RIVER	5130101	KONOX	2.58	2 6	m .	0	10/10/2008	WAH, FC, PCR, SCR
College Crack C. C to 4. 1	Upper Cumberland	RIVER	5130101	LETCHER	S-PS	2 6	200	20	4/1/1998	WAH, FC, PCR, SCR
Corbin City Responsiv	Upper Cumperland	RIVER	5130104	MCCREARY	4A-NS	AA AA	0 6	2 6	1/31/2007	WAH, FC, PCR, SCR
Crab Orchard Crask 0.0 to 1.0	Opper Cumperand	RESERVOIR	5130101	LAUREL			67	S.N.S	4/4/2000	WAH, FC, PCR, SCR
Craig Creek 5.8 to 6.8	Honer Cumberland	KIVER	5130103	PULASKI	2-FS	3	8	6	500000	WAN FC, FCK, SCK
Craigs Creek 6.8 to 9.0	Upper Cumberland	RIVED	5130101	LAUREL	S-PS		3	6	1/29/2007	WAH EC POR SOR
Crane Creek 1,4 to 2,0	Upper Cumberland	RIVER	5130104	LAUREL	2+2	9	60	က	11/7/2006	WAH FC. PCR. SCR.
Cranks Creek 1.6 to 2.4	Upper Cumberland	RIVER	5130101	HARIAN	S-PS	200	60 0	8	11/30/2006	WAH, FC, PCR, SCR
Cranks Creek Lake	Upper Cumberland	RESERVOIR	5130101	HARLAN	T	20		m .	11/30/2006	WAH, FC, PCR, SCR
Crowns Drank Of to 4.9	Upper Cumberland	RIVER	5130101	WHITLEY		3		2 6	42/40/2008	WAH, FC, PCR, SCR
Crosus Creak 14 0 to 17 15	Upper Cumberland	RIVER	5130103	CUMBERLAND		2-FS 2-FS	9	2 60	2772007	WAH, FC, PCR, SCR
Crocus Creek 4.9 to 14.0	Opper Cumberland	RIVER	5130103	ADAIR		-		9	7/10/2000	WAN EC BCB OCD DAYS
Crooked Creek 5.7 to 12.2	Upper Cumberland	DIVER	1	CUMBERLAND	S-PS	S-NS S-NS	3	က	5/2/2002	WAH CAH FC PCR SCR DWS
Crooked Creek 0.1 to 5.7	Upper Cumberland	ANER		BOCKCASTLE BOCKCASTLE			3	ဇ	4/1/1998	WAH FC PCR SCR
Cumberland River 460.2 to 460.9	Upper Cumberland	RIVER		RISSELL	200	4A-PS 3	0	6	3/29/2007	WAH, FC, PCR, SCR, DWS
Cumberland River 650.6 to 654.5	Upper Cumberland	RIVER	1	REI	T	200	60	9	5/2/2002	WAH, FC, PCR, SCR
Cumberland River 671.9 to 682.3	Upper Cumberland	RIVER	5130101	HARLAN	S-PS	3 6	200	m e	5/2/2002	WAH, FC, PCR, SCR
Cumberland River 385;5 to 434.4	Upper Cumberland	RIVER	5130103	RUSSELL		N	9 60	2.58	2770005	WAH, FC, PCR, SCR
Cumbadand River 554 R5 to 589 4	Upper Cumberland	RIVER	5130103	RUSSELL				6	2/2/2007	WAH FO POR SOR
Cumberland River 589.4 to 575.1	Upper Cumberland	KIVEK	5130101	WHITLEY		5-PS 3	2-FS	2-FS	12/14/2006	WAH FC. PCR. SCR
	Numerous sadds	NIVER	LOLOGIC	WHITLEY	SPS	3	8	9	8/8/2007	WAH, FC, PCR, SCR

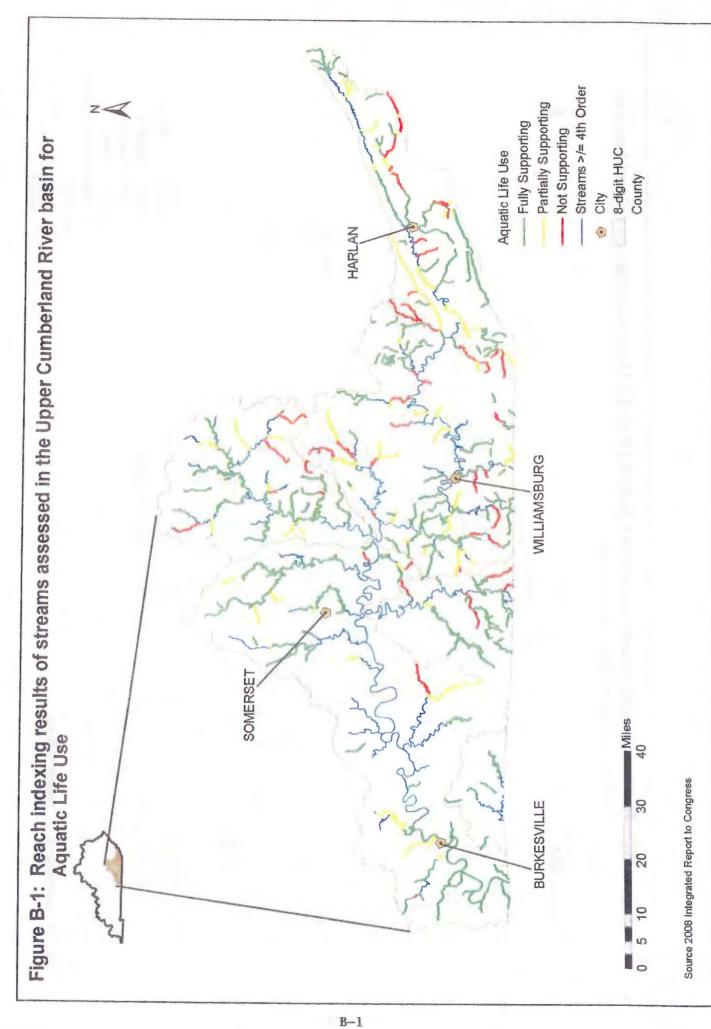
Cumberland Diver 594 4 to 505 4	7.00.00	Water Body   ype	8-DIGIT HUC	Conuch	WAHICAH	000	H	r		
Cumbarland Rivar 680 1 to 686 8	Opper Cumberland	RIVER	5130101	WHITLEY	3	+	3 Charles and Sample	+	•	701-1
Cumbarland River 682 3 to 883 8	Opper Comperand	RIVER	5130101	HARLAN	S-PS	co	0 0	2-L3		WAH, FC, PCR, SCR
China 682 5 10 563.0	Upper Cumberland	RIVER	5130101	HARLAN		+		2	5/2/2002	WAH, FC, PCR, SCR
Cumperiand Kiver 663.6 to 694.2	Upper Cumberland	RIVER	5130101	HAR! AN	2 6	1	200	6		WAH, FC, PCR, SCR
Dale Hollow Reservoir	Upper Cumberland	RESERVOIR	5130105	O INTON	2	2		6	1/1/2007	WAH. FC. PCR. SCR.
Davis Branch 0.0 to 2.8	Upper Cumberland	RIVER	5130104	CUINION	2-1-2	+	S	2-FS	12/18/2006	WAH FC PCR SCR
Difficulty Creek 0.0 to 3.5	Upper Cumbertand	PINED	20000	DELL	Z-+-S	63	9	3	12/10/2001	WAH EC POR SCD
Dog Slaughter Creek 0.0 to 1.2	Upper Cumberland	DAVED	2000	MCCKEAKY	2-FS	က	9	9	4/1/1998	WAH EC DOD GOD
Dry Branch 0.0 to 0.4	Upper Cumberland	DAVED	010000	WHITEY	2+S	9	3	6	1/29/2007	WAH EC DOD GOD
Dry Fork 0.0 to 3.0	Jones Cumberland	DAME	20100	FULASKI	58-PS	9	3	e	coocies	WALE OF SON
Eacle Creek 0.0 to 6.7	Distriction (Section)	AIVER	20102	ROCKCASTLE	2-FS	9	9	6	AV10/2000	אישר ייטי ייטי אישר
East Fork of Lvnn Camp Creek 0.0 to 4.5	The residence of the re	AIVER	5130101	McCREARY	2-FS	3	3	6	40/40/200e	אטר, יטרי יטרי
Filk Spring Creek 0.0 to 7.8	DUBLISHING HAND	KIVEK	5130101	KNOX	S-PS	en	3	0	0000000	WAD, PC, PCR, SCR
0, 0,000	Opper Cumberland	RIVER	5130103	WAYNE	S.N.S			2	8/21/2000	WAH, FC, PCR, SCR
CWRIG CIERT U. 10 Z.B	Upper Cumberland	RIVER	5130101	HAR! AN	S.NC	0	200	2	8/16/2000	WAH, FC, PCR, SCR
Perms Fork Creek 0.0 to 1.2	Upper Cumberland	RIVER	5130103	CIMARCOI AND	200	2 0	2	67	11/19/2001	WAH, FC, PCR, SCR
Ferris Fork Creek 3.0 to 6.0	Upper Cumberland	RIVER	6420+02	ANTEN PER	ON-C	2	2	9	5/2/2002	WAH FC PCR SCR
Fishing Creek 16.0 to 26.4	Inner Cumberland	Char	500000	MEICALFE	2-FS	3	9	en	3/22/2008	WAH EC DOD GOD
Foresters Creak 0.0 to 5.1	District Colors	NIVER	5130103	PULASKI	2-FS	m	3	6	1/2/2002	100 CO 100 CO
Four Mile Run 07 to 27	DUBLIAGUE CAMPONIA	KIVER	5130101	HARLAN	2-FS	m	3		1000007	WAT, TC, PCK, SCK
1 4 7 1 4 0	Opper Cumperiand	RIVER	5130101	BELL	2-FS	6		000	TODAY TO	WAH, P.C. PCR, SCR
FOURTHIS CIREK 1./ 10 4.8	Upper Cumberland	RIVER	5130101	RFII	2 50	000	2 6	20	5/2/2002	WAH, FC, PCR, SCR
Franks Creek 3.2 to 4.9	Upper Cumberland	RIVER	5130101	CTOUCH	2-L3	2	9	m	12/6/2001	WAH, FC, PCR, SCR
Fugitt Creek 0.0 to 4.7	Inner Cremberdan	MACH	010010	LEIGHER	2-FS	3	9	e	11/19/2001	WAN EC BCB CCB
Gilmore Creek 0.0 to 5.0	Name of the second	RIVER	5130101	HARLAN	2-FS	0	60	C.	200000	200 000 01
0.000.00	Opper Cumperland	RIVER	5130103	LINCN	5-PS			0 6	1007/87	WAN, TC, PCK, SCK
COUNTY CIEBRA Z.1 10 Z.0	Upper Cumberland	RIVER	5130101	KNOX	200	+		2	2/2/2002	WAH, FC, PCR, SCR
Greesy Creek 0.0 to 3.7	Upper Cumberland	RIVER	5130101	AELI	1	1		77	5/2/2002	WAH, FC, PCR, SCR
Hale Fork 0.0 to 2.9	Upper Cumberland	DNAED	20000	מוניה		AA-PS	2	e	12/8/2000	WAH, FC. PCR. SCR.
Harris Branch 0.25 to 0.8	Total Control	MACA	0000	KNOX	Z-FS	m	3	67	12/10/2001	WAN EC DOD COD
0000	DUBLISHED INCO	KIVEK		HARLAN	5-PS	3	3		447200000	200 200 300 300
Delicus Fulk U.O 10 3.3	Opper Cumberiand	RIVER	5130103	CUMBERLAND		~	-	0	NOOK ON	WAH, FC, PCK, SCK
Hetchell Branch 0.0 to 1.0	Upper Cumberland	RIVER	T	MACREADY	200	0		2		WAH, FC, PCR, SCR
Hawk Creek 0.0 to 6.6	Liboar Cumbardand	ON/ED	Ť		010	2	2	9	11/19/2001	WAH, FC. PCR. SCR
Havs Creek 1.3 to 2.3	Linear Crambana	ON VED	200000	LAUKEL	2-FS	m	9	က	2/8/2007	WAH FC PCR SCR
Hazal Datch Creat 0 0 to 1 8	Displaying Market	KIVEK	5130105	CLINTON	2-FS	ო	3	67	5000005	WALE DO CO
00 4 4 0	Dustraguno Jaddo	RIVER	5130102	LAUREL	5-PS	3			2000000	יייייייייייייייייייייייייייייייייייייי
Heliton Brainch 0.0 to 1.0	Upper Cumberland	RIVER	5130103	MCCREARY			2 0	0	7007/07	WAH, FC, PCR, SCR
Hinkle Branch 0.0 to 1.8	Upper Cumberland	RIVER	5130101	KNOX	200	0	2 6	2		WAH, FC, PCR, SCR
Honeycut Branch 0.0 to 1.8	Upper Cumberland	PIVED	5420404	2012	2-1-2	-		60	12/10/2001	WAH, FC, PCR, SCR
Horse Lick Creek 0.0 to 15.2	Post Company	NIA PO	10000	MACA	2-1-2	60	8	m	12/10/2001	WAH EC DOR SOD
Howards Creak OR to 48	Common and a	KIVEK	5130102	JACKSON	2-FS	2-FS	3	e	10/10/2006	WALE OCO CO
Huston Chirt Breach O to 5 9	Distribution index	KIVEK	5130105	CLINTON	2-FS	3	3	8	772472001	WALL FO BOD SON
20.400	Opper Cumperising	KINER	5130101	KNOX	2-FS	6	2	6	12/10/2001	AND COLOR OF THE PARTY
THE CHARLE OF LAND	Opper Cumperland	RIVER	5130105	CLINTON	2-FS	63	3		200000	אינה ירטי ירטאי
Indian Creek U.U to 4.2	Upper Cumberland	RIVER	5130103	PULASKI	S-ps	en	0 00	0 0	1007/17	WAH, FC, PCR, SCR
Indian Creek 0.0 to 4.5	Upper Cumberland	RIVER	5130102	JACKSON	S.p.s	0 6	200	2 0	2002/2/6	WAH, FC, PCR, SCR
Indian Creek 2.3 to 6.7	Upper Cumberland	RIVER	5130101	MCCREARY	2.50	0 0	200	2	2//200/	WAH, FC, PCR, SCR
Jackie Branch 0.0 to 1.7	Upper Cumberland	RIVER	5130101	WHITIEN	010	0	2	2	900Z/0L/0L	WAH, FC, PCR, SCR
Jellico Creek 0.0 to 6.1	Upper Cumberland	RIVER	5130404	WILLIEV	01-7	-		6	11/19/2001	WAH, FC, PCR, SCR
Jellico Creek 22.5 to 25.3	Upper Cumberland	SA/ED	6420404	MACOURADY	67-7	0	2	69	10/10/2006	WAH, FC, PCR, SCR
Jennys Branch 0.0 to 6.0	Upper Cumberland	RIVED	6130404	MCCAEAN	2-L2	2	2	60	2/7/2007	WAH, FC, PCR, SCR
Kannady Crask 0.0 to 3.0	backadan Crackel	10000	20000	MCCAEANT	24.0	9	9	e	5/2/2002	WAH. FC. PCR. SCR
Kettle Creek 1 75 to 6 4	Copie Collonial C	KIVER	5130104	WAYNE	2-FS	3	9	e	12/10/2001	WAH FC PCR SCR
2000	Opper Cumperand	KIVER	5130103	MONROE	2-FS	9	9	6	2/18/2007	WAN EC BCB eco
NICHT FOR U.C 10 U.S	Opper Cumberland	RIVER	5130101	McCREARY	2-FS	e	3		2000000	SOC CO CO CO
Kilburn Fork U.9 to 6.2	Upper Cumberland	RIVER	5130101	MCCREARY	S-PS	65		0 0	200000	אטט, רכי ירי אטר אטרא
Lake Cumberland	Upper Cumberland	RESERVOIR	5130103	RISSELL	2.50	1	-	2 6	1003117	WAH, FC, PCK, SCR
	Upper Cumberland	RESERVOIR	5130102	ROCKCASTIF	2 20	2 0	01-0	2-13	9002/21/21	WAH, FC, PCR, SCR
Laural Branch 0.0 to 2.2	Upper Cumberland	RIVER	5130102	I ALIDEI	2000	200		2-1-2	1/24/2008	WAH, FC, PCR, SCR
Laurel Creek 0.8 to 3.65	Upper Cumberland	RIVER	5130101	MACDEADY	27.0	20	200	2	2///2007	WAH, FC, PCR, SCR
Laurel Creek 3.65 to 5.1	Upper Cumberland	PAVED	6420.04	MACREAN	6-F-2	2		6	2/8/2007	WAH, FC, PCR, SCR
Laural Craek Lake	Inner Cumberland	DECEDANDIO	20000	MCAEART	240	Ť		က		WAH, FC, PCR, SCR
Laural Fork 7.4 to 9.1	Ilpoer Cumberland	DAVED	0130101	MCCKEAKY	Z-FS	1	5	2-FS	3/6/2006	WAH, FC, PCR, SCR
Laurel Fork of Clear Fork 10.3 to 13.8	Under Cumbarland	DAVED	5430404	MCCKEAKT	24-PS	-	60	6	2/8/2007	WAH, FC, PCR, SCR
Laurel Fork of Clear Fork 16.9 to 18.9	Upper Cumberland	RIVED	5430-04	WALITE	220	20	9	m	8/31/2000	WAH, FC, PCR, SCR
Laurel Fork of Clear Fork 4.25 to 10.3	Upper Cumberland	RIVER	2430.04	MALITE	2-10	2		e	5/2/2002	WAH, FC, PCR, SCR
		MINER	2000	A-	30					
	The state of the s	- To the second			6+2	מי	3	3	12/11/2001	WAH, FC. PCR. SCR

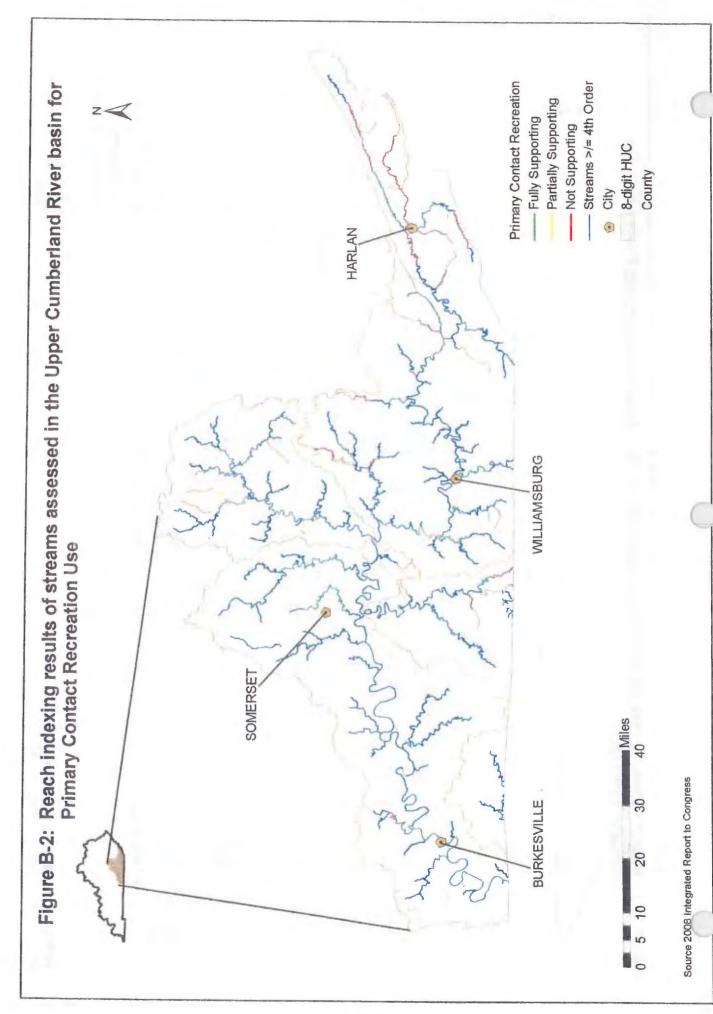
Green Coats of Middle Care of the Coats		The state of the s	2012	Conver	WALVOAL	000	ŀ	ŀ		
Burel Diver 22 7 to 20 0	Upper Cumberland	RIVER	5130102	ACVOON	TO A TO A	PCR	SCR Fish Consumption	DWS	Assess Date	
22. 10.32.0	Upper Cumberland	RIVER	5130+04	NO STORY	2-FS	6		+	10/10/2008	Control Control
MAIN NIVER U.S 10 2.2	Upper Cumberland	RIVER	5430-04	LAUREL	S-PS	0	9		2/8/2007	WAT, PCK, SCR
MUTEL KIVER 23.7 to 24.9	Upper Cumberland	DAVED	0130101	LAUREL	S-NS	63	3	000	//ONZOO!	WAH, FC, PCR, SCR
Nurel River 26.3 to 33.7	Name of the last	MIVER	5130101	LAUREL	5-PS	c		2	11//2008	WAH, FC. PCR. SCR
aurel River Reservoir	Dispersion Collins	KINER	5130101	LAUREL	S.N.S.	2.50	11	3	117/2005	WAH, FC. PCR. SCR.
eft Fork of Fuciti Creek 0.0 to 1.5	DUBLING LOUIS	RESERVOIR	5130101	WHITLEY	2.50	+		0	2/8/2007	WAH FC PCR SCR
off Fork of Straight Creak 0.0 to 12.1	opper cumberand	RIVER	5130101	HARLAN	2,50	1	7	2-FS 1/	1/2001 - 12/4/2008	WAH FC PCR SCR
ewis Creek 0.0 to 3.5	Opper Cumperland	RIVER	5130101	BELL	S No	1		0	2/9/2007	WAH FC PCR SCR
Lick Fork 0.0 to 1.3	Upper Cumberland	RIVER	5130103	CUMBER! AND	200	-	3	6	2/20/2007	WAH FC PCR SCR
ick Fords of Vallow Creats O.O. to D.O.	Opper Cumperland	RIVER	5130101	HARI AN	200	2 0		က	2/9/2007	WAH, FC. PCR. SCR.
Ina Count 9 2 to E E	Upper Cumberland	RIVER	5130101	RELI	5	200		3	2/9/2007	WAH EC PCP SCP
M CIGGR. 2.3 10 3.3	Upper Cumberland	RIVER	5130102	DIN ACVI	2-12	60		e	5/2/2002	WAH ET DOD GOD
Little Creek Creek C.O. to 10.9	Upper Cumberland	RIVER	5420104	No.	24.0	-		6	3032000B	MAN TO TON DON
Little Hurricane Fork of Beaver Creek 0.0 to 3.9	Upper Cumberland	DRACO	2130101	BELL	S-NS	2B(5) 2E	2B(5) 3	6	473470007	WAT, FC, PCK, SCK
te Laurel River 12.7 to 14.8	Inner Cumberdand	NIVER OF STREET	SULUSIC	MCCREARY	2-FS	m	6	0 0	1000000	WAH, FC, PCR, SCR
Little Laurel River 14.8 to 23.0	The same	RIVER	5130101	LAUREL	S-NS	S-NS		2 0	2007/7/6	WAH, FC, PCR, SCR
With Laurel River O. to R. A.	Dustraction and o	RIVER	5130101	LAUREL		S.N.C.		77	5/2/2002	WAH, FC, PCR, SCR
TO CO	Upper Cumberland	RIVER	5130101	ALIDE	200	200		9	4/1/1998	WAH FC PCB SCD
LINUS LEUCKE KIVOR 8.4 to 12./	Upper Cumberland	RIVER	5130-04	A INC.	2	200	9	3 5/2	5/2/2002 - 3/22/2008	WALL ET DOD OOD
Little Popler Creek 0.0 to 2.8	Upper Cumberland	PAVED	20000	LAUREL	S-NS	S-NS	9		500000	איני דילי דילי איני
Little Poplar Creek 3.1 to 4.4	Upper Cumberland	DAVED	10000	KNOX	S-PS	3	9	6	SPANOO	איאם, ירכ, ירכא, אינא
Little Raccoon Creek 0.0 to 7.7	Inner Cumbedond	NIVER	5130101	KNOX	5-PS			0 0	WEST COOL	WAH, FC, PCR, SCR
Little Rockcestle River 0.0 to 2.3	Inner Creek	RIVER	5130102	LAUREL	SN-S	S-NS	S-NS	0 0	44144000	WAH, FC, PCR, SCR
ittle South Fork 4.4 to 35.7	China Cultoeriana	KIVER	5130102	LAUREL	2-FS	+		200	11/4/200/	WAH, FC, PCR, SCR
THE SOUTH COLD AND AND AND AND AND AND AND AND AND AN	Upper Cumberland	RIVER	5130104	WAYNE	2.58	+	-	2	1/3/2002	WAH, FC, PCR, SCR
Confidence Control	Opper Cumperland	RIVER	5130104	WAYNE	200	+	2	6	10/10/2006	WAH, FC. PCR. SCR
ig branch U.U to 2.9	Upper Cumberland	RIVER	5130101	1 130	2 6	2	60	e	4/1/1998	WAH FC PCR SCR
Looney Creek 0.0 to 1.4	Upper Cumberland	RIVER		DELL	2+5			m	12/11/2001	WALL EC BOD GOD
mey Creek 3.4 to 5.9	Upper Cumberland	ON/ED		HAKLAN	9	4A-NS		•	SDDOOD	איניין דכי דכה, שכה
Looney Creek 5.9 to 9.6	Linear Creater	NIVEN.		HARLAN	9	4A-NS	60	-	EMMOON	עסט יייין ייין ייין
on Camp Creek O'M to 3 45	Distribution leader	RIVER	5130101	LETCHER	2-FS			3 6	SELENT	WAH, FC, PCR, SCR
Jun Camp Create 4 5 to 40 6	Opper Cumperland	RIVER	5130101	LAUREL	S-NS	S.N.S.	200	+		WAH, FC, PCR, SCR
Color Color	Upper Cumberland	RNER	5130101	WHITLEY	y by	+	-	+	5/2/2002 - 11/7/2008	WAH, FC, PCR, SCR
MILLOWOOM CIBER U.U TO Z.S	Upper Cumberland	RIVER	5130103	CLIMBERI AND	904	1	0	9	9/8/2000	WAH, FC. PCR. SCR
Membrone Creek 13.5 to 15.2	Upper Cumberland	RIVER	5130103	CI IMBEDIAND	200	0		0	2/12/2007	WAH, FC. PCR. SCR.
larrowbone Creek 3.8 to 8.7	Upper Cumberland	RIVER	5130103	CIMPERITAIN AND	2-13	9	9	6	8/20/2000	WAH EC DOD GOD
lersh Creek 0.0 to 13.5	Upper Cumberland	RIVER		COMPERTANC	2+2		6	3	2/12/2006	WAH EC DOD COD
Marsh Creek 13.5 to 16.5	Upper Cumberland	PINED		MCCAEART	Z-FS	S		6	2/13/2007	WAH ET DOD GOD
Marsh Creek 19.0 to 24.1	Linnar Cumberland	DAVED		MCCKEAKY	S-NS			3	500000	MAN TO DO CON
lartin Creek 0.0 to 1.2	Linner Cumbarland	DAVED		MCCREARY	S-NS	60	9	6	4/1/1008	אינאין רטי רכא, טכא
Martins Fork 11.8 to 17.45	District Control	RIVER		CLAY	2-FS	9			8/48/0000	WAT, PC, PCK, SCK
artine Fork 0.0 to 11 8	Oppor Cumpering	RIVER		HARLAN	SAS			2 00	ON IONZONO	WAH, FC, PCR, SCR
larine Ends 10 4 to 28 85	Opper Cumberland	RIVER	5130101	HARLAN	2-FS	er.	U	2+2	9002/06/11	WAH, FC, PCR, SCR
laction East 28 92 to 20 0	Upper Cumberland	RIVER	5130101	HARLAN	28(5)	+		20	2/2/2007	WAH, FC, PCR, SCR
WIN TURK 60,00 IU 30,0	Upper Cumberland	RIVER	5130101	HARIAN	250	+		77	11/30/2008	WAH, FC, PCR, SCR
Markin S Fork Kessryoir	Upper Cumberland	RESERVOIR	5130101	HARIAN	2,50	+	200	+	10/10/2008	WAH, FC, PCR, SCR
McCalminon Branch U.U to 2.8	Upper Cumberland	RIVER	5130102	IACKSON	2000	+	7	+	1/1/2001 - 11/27/2006	WAH, FC, PCR, SCR
MC-Briefing Creek 0.8 to 6.2	Upper Cumberland	RIVER	5130103	MONDOE	270	+		က	5/2/2002	WAH, FC. PCR. SCR
Meadow Creek 0.0 to 7.4	Upper Cumberland	RIVER	5130101	KNOX	5-13	+	0	က	7/7/2000	WAH, FC, PCR, SCR
Metidow Fork 0.0 to 1.8	Upper Cumberland	RIVER	5130101	ETCHED	010	1	0	m	9/6/2000	WAH FC PCR. SCR
Meshack Creek 0.0 to 2.8	Upper Cumberland	RIVER	5130103	MONDOE	2-10	+	9	က	12/3/2001	WAH, FC, PCR, SCR
die Fork of Rockcastle River 0.0 to 7.9	Upper Cumberland	RIVER	5130102	IACKEON	27.0	-	9	က	7/8/2000	WAH, FC. PCR. SCR.
Middle Fork of Beaver Creek 0.0 to 2.3	Upper Cumberland	RIVER	5130103	NOCOCA TO COLO	2-12	+	8	60	2/13/2007	WAH FC PCR SCR
Middle Fork of Richland Creek 0.0 to 1.2	Upper Cumberland	DIVED	20000	MCCKEAKT	S-PS	S	5-NS	3	2/12/2007	WAH EC PCP SCD
Mill Branch of Stirking Creek 0.0 to 2.2	Under Cumberland	DAVED	10000	KNOX	S-PS		9	9	9/21/2000	WAL ET BOD 629
Mill Creek of Cumberland River 0.8 to 5.6	Inner Cumbedand	DAVED	רטוטפופ	KNOX	2-FS	3	3	m	8/14/2007	TOO GOO GOOD TO THE PARTY OF TH
Mill Creek of Straight Creek 0.0 to 3.4	I loner Cumbarland	AIVER	5130101	MCCREARY	2-FS		3	6	12/6/2001	WAH ET DOO GOO
Mitchell Creek 0.0 to 3.8	Librar Cumbarland	DAVED	5150101	BELL	2-FS	9	3	es	12/8/2001	WAN EC DOO SOO
Moore Branch 0.0 to 0.7	Particular Canada	NIVER.	2010210	LAUREL	S-NS		3	62	Spons	WALE OF STATE
Moore Creek 0.0 to 4.4	Proper Created	RIVER	1010516	BELL	58-PS	58-NS 58-NS	NS 3	3 5/2/	5/2/2002 - 2/13/2007	WAH ET DOD GOD
Mud Camo Creak 0.0 to 8.8	Linear Createry	NIVER	LOLOSTG	KNOX	2-FS	3	3	+	12/11/2001	WALE OF STATE
Mand Creak of Class Fook O to 5.2	Duning India	KIVEK	5130103	CUMBERLAND	2-FS	6	3	6		איבון, דכי ידכה, טכא
I lok of Sinking Creat C to 22	Opper Cumpenand	RIVER		WHITLEY	S-PS		3		AMOUNDO	אינה דים היה אינה אינה
Ned Branch O & to 1 0	Upper Cumberland	RIVER		KNOX	2-FS	3			42/8/2004	WAN, FC, PCK, SCK
Parties Colonia	Upper Cumberland	RIVER	5130102	LAUREL	2-FS		9	200	100000	WAH, FC, PCR, SCR
NOTES FOR OF DODGEROUNG Creek 0.0 to 0.7	Upper Cumberland	RIVER	5120101	WHITIEY	010			2	12/6/2001	WAH, FC, PCR, SCR
			3			7				

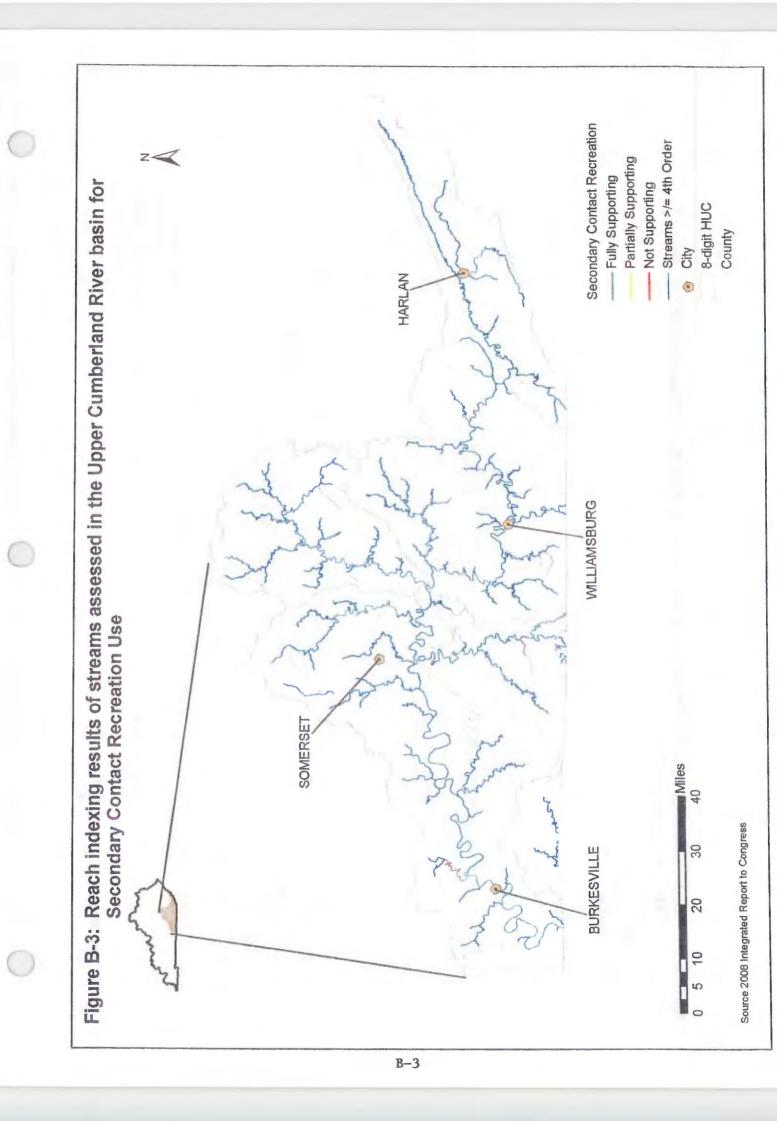
	5130101 5130101 5130102 5130102 5130102 5130103 5130103 5130101 5130101 5130101 5130101 5130101 5130101 5130101	MANCAH  NNE 2-FS  TLEY 2-FS  TLEY 2-FS  GSON 2-FS  OLN 2-FS	A CO	3 3	umption	Assess Date 2/13/2007 8/8/2000	Designated Uses WAH, FC, PCR, SCR
Upper Cumberland RIVER 5130101 Upper Cumberland RIVER 5130102 Upper Cumberland RIVER 5130103 Upper Cumberland RIVER 5130103 Upper Cumberland RIVER 5130103 Upper Cumberland RIVER 5130103 Upper Cumberland RIVER 5130104	5130101 5130101 5130102 5130102 5130103 5130103 5130101 5130101 5130101 5130101 5130101 5130101		++-			2/13/2007	WAH, FC, PCR, SCR
Upper Cumberland RIVER 6130101 Upper Cumberland RIVER 6130102 Upper Cumberland RIVER 6130103 Upper Cumberland RIVER 6130104	5130101 5130102 5130103 5130103 5130103 5130101 5130101 5130101 5130101 5130101		-	3		8/8/2000	אטרי יטרי יטרי
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Upper Cumberland	5130101		S.N.S.	S.NC		/002/4/12	WAH, FC, PCR, SCR
Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upp	5130101		2	200	200	77472007	WAH, FC, PCR, SCR
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Upper Cumberland	5130101	-	2 6			2/14/2006	WAH, FC, PCR, SCR
Upper Cumberland	5130104	-	2 0	-	200	5/2/2002	WAH, FC, PCR, SCR
Upper Cumberland         RIVER         5130103           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130103           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upp	5130104	-	2	1		2/15/2007	WAH FC, PCR, SCR
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Upper Cumberland         RNER         5130102           Upper Cumberland         RNER         5130103           Upper Cumberland         RNER         5130103           Upper Cumberland         RNER         5130101           Upper Cumberland         RNER         5130101           Upper Cumberland         RNER         5130101           Upper Cumberland         RNER         5130102           Upper Cumberland         RNER         5130104           Upper Cumberland	5130102		S-PS	3		20001200	WAH, FC, PCR, SCR
Upper Cumberland         RNFR         5130101           Upper Cumberland         RNFR         5130103           Upper Cumberland         RNFR         5130101           Upper Cumberland         RNFR         5130101           Upper Cumberland         RNFR         5130101           Upper Cumberland         RNFR         5130101           Upper Cumberland         RNFR         5130102           Upper Cumberland         RNFR         5130104           Upper Cumberland	5130102		3			1002/01/2	WAH PC PCK SCK
Upper Cumberland         RIVER         5130103           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130101	5130101		4A-NS	4A-NS		21447000	WAH, FC, PCR, SCR
Upper Cumberland         RIVER         5130103           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130101	5130103	_	6	3		3000000	WALL TO TON DOWN
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Upper Cumberland   NVER   5130101	5130101		က	3	3	7/5/2001	WAN EC DOS SOS
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Upper Cumberland         RNER         5130102           Upper Cumberland         RNER         5130102           Upper Cumberland         RNER         5130102           Upper Cumberland         RNER         5130101           Upper Cumberland         RNER         5130104           Upper Cumberland         RNER         5130104           Upper Cumberland         RNER         5130104           Upper Cumberland         RNER         5130101	5130102	1	m (	me	0	10/10/2006	CAH, FC, PCR, SCR
Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102	5130102	BEI 2-13	200	200	200	5/2/2002	WAH, FC, PCR, SCR
Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130102	5130102	+	2 0	90	200	5/2/2002	WAH, FC, PCR, SCR
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Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130102	5130101	-	2 6	0 6	200	WZ1/Z007	WAH, FC, PCR, SCR
Upper Cumberland         RIVER         5130104           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130101           Upper Cumberland         RIVER         5130102           Upper Cumberland         RIVER         5130102	5130104		2	3 6	2.50	12/0/2001	WAH, FC, PCR, SCR
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Upper Cumberland RIVER 5130101 Upper Cumberland RIVER 5130102 Upper Cumberland RIVER 5130102	5130101		m	2		177007	WANT, TC, TCK, SCK
Upper Cumberland RIVER 5130102	5130101		60	3		7/5/2004	WALL FO DOD SOO
Upper Cumberland PivED 5430402	5130102			63	3	8/21/2007	CAH EC POR SOR
I I I I I I I I I I I I I I I I I I I	5130102			6	3	10/10/2008	WAH, FC. PCR. SCR.
Librar Cumbedand Birth	5130105		1	3	3	2/16/2007	WAH, FC, PCR, SCR
0 1.9 Upon Cumbarland RIVER 5130105 C.	5130105	-	m	60	3	7/5/2001	WAH, FC, PCR, SCR
NACK CONSOLATION AND AND AND AND AND AND AND AND AND AN	rorogre	SN-S	1	3	9	12/4/2007	WAH, FC, PCR, SCR

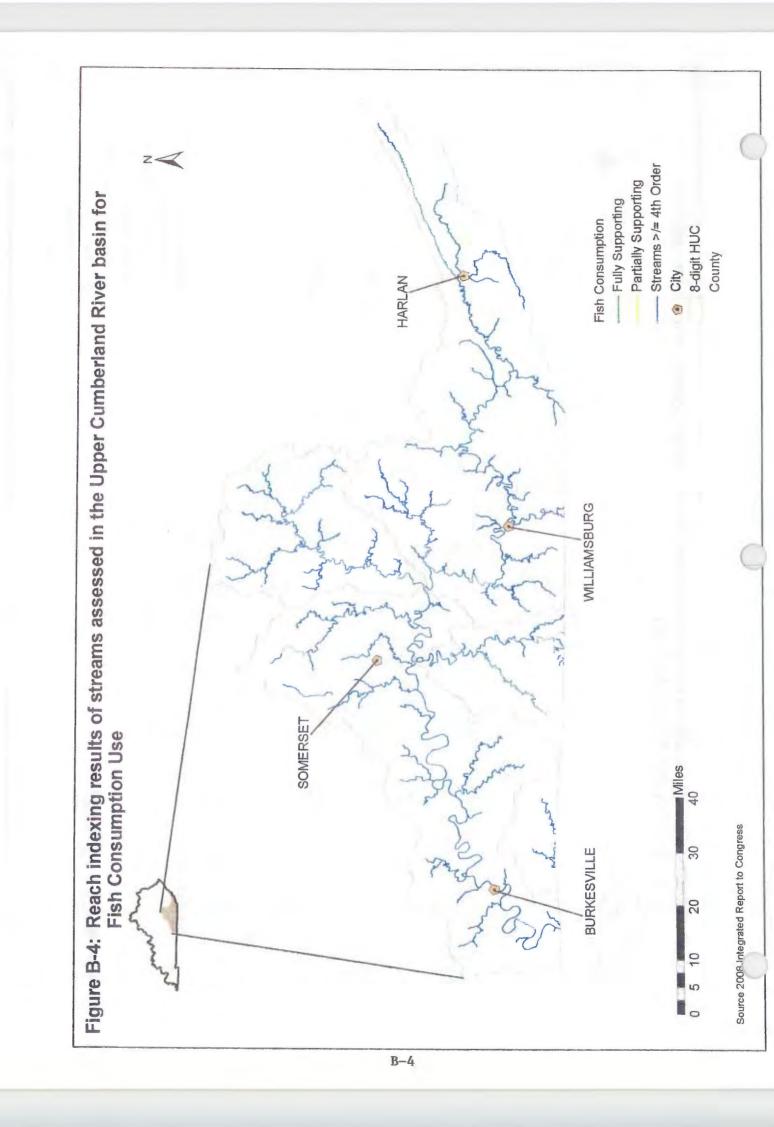
material Secment	Basin											
Surrium Craek 0.0 to 2.1	Upper Cumberland	MANUAL POOR I VDG	8-Digit HUC	County	WAHICAH	PCP &	STEEL BOS			1		
Stinking Creek 11.3 to 12.4	United Combadana	RIVER	5130101	KNOX	5-NS	1	E NO	uonam T	926	Assess Date	Designated Ileas	ı.
Storiey Fork 0.0 to 2.3	Proper Combandary	KIVER	5130101	KNOX	5 PS	+	200			1/3/2001	WAH EC DOD SOD	1
Storry Fork 0.0 to 5.3	Compension of the compension o	RIVER	5130101	BELL	S.No.	20	0		3	6/14/2005	WAN ED DOG OUR	1
Straight Creek 0.0 to 1.7	Distriction and a	RIVER	5130101	BELL	S.No.	1	69			12/6/2000	WAH EC BOD GOD	1
Straight Creek 1.7 to 23.3	During Compension	RIVER	5130101	BELL	28/51	6	200	-	3	12/6/2000	WAH EC DOD GOD	1
Sugar Camp Branch 0.0 to 1.4	District Control	RIVER	5130101	BELL	5-PS		200		3	5/2/2002	WAH FC PCB CC	1
Sulphur Creek 1.7 to 5.1	Ilone Cumberland	RIVER	5130102	PULASKI	S.N.S		200		3	2/16/2007	WAH FC PCP SCP	1
Sulphur Creek 0.5 to 2.8	I formation of the Company	RIVER	5130105	CLINTON	2-FS		2000	-		3/22/2008	WAH FC PCR SCR	1
Sulphur Creek 5.2 to 8.1	Charle Cumberiand	RIVER	5130103	MONROE	2-FS	1	200	-	3	7/5/2001	WAH FC PCR SCP	1
Trace Branch 0.0 to 3.0	Cumberiand	RIVER	5130105	CUMBERLAND	2.FS	2 6	200	1			WAH FC PCR SCR	1
Trammel Fork of Marsh Creek 0.0 to 1.9	Indian Cumberland	RIVER	5130101	KNOX	2-FS	+	200	1	8	3/22/2008	WAH, FC. PCR. SCR.	1
Turkey Creek 0.0 to 1.2	Charle Cumberland	RIVER	5130101	MCCREARY	2-FS	+	200			4/1/1998	WAH FC PCR SCP	1
Tyner Lake	Inches Compensed	RIVER	5130101	KNOX	2-58	+	0 0	1	3 12	12/12/2001	WAH FC PCR SCR DWS	1
UT to Acom Fork 0.0 to 1.0	Transport	KESERVOIR	5130102	JACKSON	2.58		2.50	1		12/7/2001	WAH, FC. PCR. SCR. DWS	1
UT to Big Clifty Creek 0.0 to 0.5	Constant Cumperand	RIVER	5130101	KNOX	2-FS			2	S	1/24/2006	WAH FC PCR SCR	1
UT to Big Creek 0.0 to 1.8	Opper Cumberland	RIVER	5130103	PULASKI		9	200	-		12/12/2001	WAH FC PCR SCR	i.
UT to Bridge Fork 0.0 to 0.1	Opper Cumperland	RIVER	5130104	MCCREARY	2,50		60	-		5/2/2002	WAH FC PCR SCR	1
UT to Canev Fork 0.0 to 0.8	Upper Cumperland	RIVER	5130101	MCCREARY	20 00	+	9		3 37	26/2008	WAH FC DCD COD	
UT to Hellon Report Of to 0.4	Opper Cumberland	RIVER	5130103	RISSELL	2	+	0		3	5/2/2002	WAH EC DOD COD	1
UT to Janova Branch Of to 4.2	Upper Cumberland	RIVER	5130101	KNOX	200	2	6		3		WAH EC DOD GOOD	Ť
II to little I must bline 0 04.4.4	Upper Cumberland	RIVER	5130101	Merbeaby	2	+	60		3	3/23/2008	WALL ED OOD SOO	1
IT to Bood Creek On to 0.0	Upper Cumberland	RIVER	5130101	ALIDEL	SN-C	-	6		3 11	11/19/2001	WALL FO POR SOR	1
The Board Creek College	Upper Cumberland	RIVER	5130102	ACKOON!	SN-C	9	60		3	8/14/2007	WAN FO POR SOR	1
IT I DO SO	Upper Cumberland	RIVER	5130102	ACKSON.	28-PS		60	-	3	Sphone	WAT, TO PUR SCR, DWS	1
UT TO ROCK CINEK U.O to 1.2	Upper Cumberland	RIVER	2130102	JACKSON	58-PS	58-PS 3	60	-	2	Sepanoro S	WAH FC PCR SCR	-
UT to Rock Creek 0.0 to 1.3	Upper Cumberland	DIVED	2130104	MCCKEARY	2-FS	3	3		200	SUSTERIOR S	WAH, FC, PCR, SCR	1
UT to Rock Creek 0.0 to 1.9	Upper Cumberland	PAVED	5130104	MCCREARY	2-FS	6	6		200	342/2002	WAH, FC, PCR, SCR	1
Wallins Creek 0.0 to 4.2	Upper Cumberland	ON/CO	5130104	MCCREARY	2-FS	9	63		44	4414777004	WAH FC PCR SCR	1
Watts Branch 0.0 to 2.6	Upper Camberland	DAVED	1010010	HARLAN	S-NS	3	67		200	014040404	WAH FC PCR SCR	1
Watta Creek 0.0 to 1.3	Upper Cumbedand	NIVER DAVID	5130104	MCCREARY	2-FS	H				WZUU/	WAH FC PCR SCR	1
Watta Creek 2.0 to 4.4	Ilpoer Cumberland	LINER	5130101	WHITLEY	2-FS	3		1	111	LUDZIRLILL	WAH FC, PCR, SCR	
White Oak Creek 0.0 to 1.0	Liboar Cumbarland	RIVER	5130101	HARLAN	2-FS	6		1	200	ZUSZOOZ	WAH, FC, PCR, SCR	1
White Oak Creek 1.0 to 5.7	District Canal	RIVER	5130102	LAUREL	S-NS	-	9 6		27	12/4/2001	WAH, FC, PCR, SCR	
White Oak Creek 1.1 to 2.2	Lines Cumbarland	RIVER	5130102	LAUREL	2-FS	-		T	0	BUTZOUZ	WAH, FC, PCR, SCR	
White Oak Creek 0.0 to 4.2	Librar Cumbadana	KIVER	5130102	ROCKCASTLE	2-FS		0 00		000	7007/1	WAH, FC, PCR, SCR	0.1
White Oak Creek 7.1 to 11.2	Upper Cumbarland	AIVER	5130.04	McCREARY	SN-S	2-FS 2-FS	8		000	202/2002	WAH, FC, PCR, SCR	1
Whitiay Branch 0.0 to 1.0	Upper Cumbedand	RIVER	5130 03	PULASKI	5-PS	3			200	THE PROPERTY	CAH, FC, PCR, SCR	-
Whitley Branch 1.1 to 2.6	Upper Cumbedand	AIVEN	5130101	LAUREL	SN-89	5B-PS 3	6	T	200	CHRISTON	WAH, CAH, FC, PCR, SCR, DW.	3
Wildcat Branch 0.0 to 2.1	Simple Company	RIVER	5130101	LAUREL	က	5-NS			200	70000	WAH, FC, PCR, SCR	4
Wolf Craek 0.0 to 1.8	Under Cumberland	KIVEK	5130103	PULASKI	4A-NS	4	NS NS	1	1	4/1/1990	WAH FC, PCR SCR	
Wood Creek 0.0 to 1.95	Distriction of the last	RIVER	5130101	WHITLEY	5-NS		0 6		200	9007/4/77	WAH, FC, PCR, SCR	
Wood Creek Lake	Honer Cumberland	KIVEK	5130102	LAUREL	S-NS	-	9 6	1	1	8/22/2000	WAH, FC, PCR, SCR	1
Yellow Creek 0.0 to 6.7	Distriction Company	RESERVOIR	5130102	LAUREL	2-FS	3 2-58	60			1002/6	WAH, FC, PCR, SCR	N
Yellow Creek 6.7 to 15.9	Distriction County	RIVER	5130101	BELL	5-PS	c/z				9002/42/1	WAH, FC, PCR, SCR	
Yellow Creek ByPass 0.0 to 3.2	Hoose Cumbaciand	KIVER	5130101	BELL			9 60			6/16/2007	WAH, FC, PCR, SCR	1
Yocum Creek 0.0 to 6.5	Hooer Cumberland	AIVER	5130101	BELL	2-FS	3	67	9 6		O CONTON	WAH FC PCR SCR	-1
Youngs Creek 0.0 to 5.4	Upper Camberland	NIVER	5130101	HARLAN		4A-NS 3	67			9/48/2007	WAH FC PCR SCR	1
		MINER	5130101	WHITLEY	2-FS		6		3 6	מענייו	WAH FC PCR SCR	1

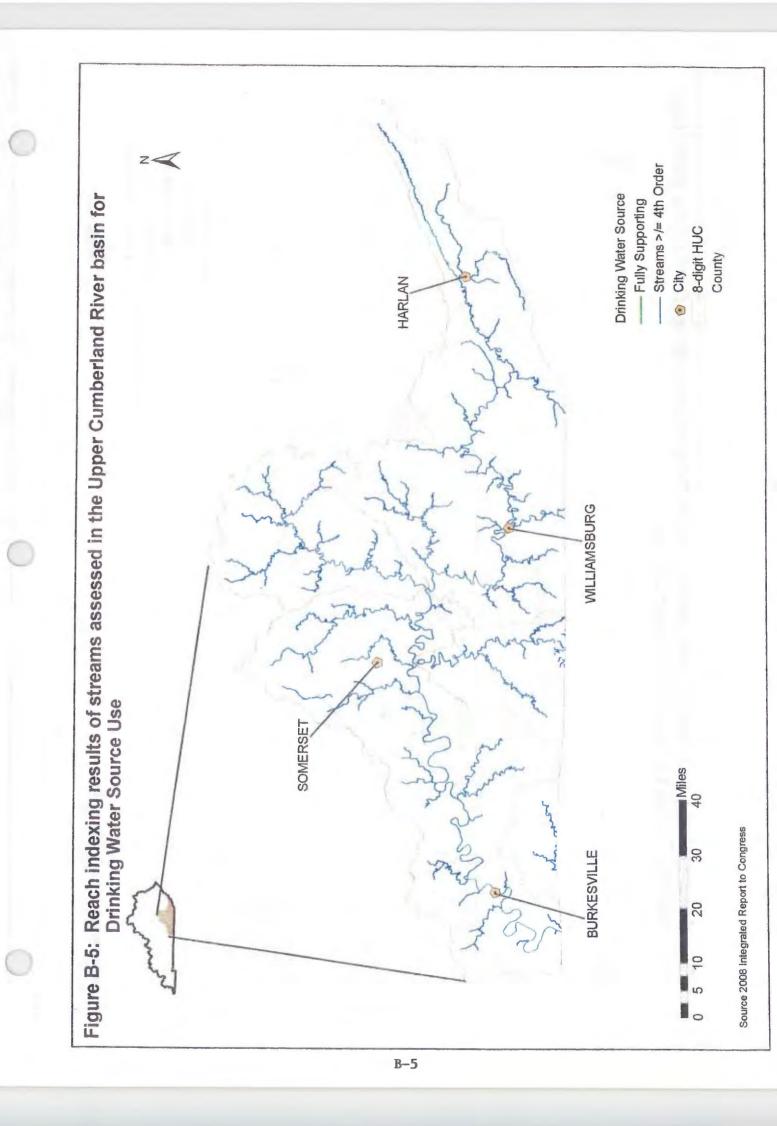
Appendix B. Reach Indexing Maps of Assessed Streams in the Upper Cumberland – 4-Rivers BMU and Green – Tradewater Rivers BMU

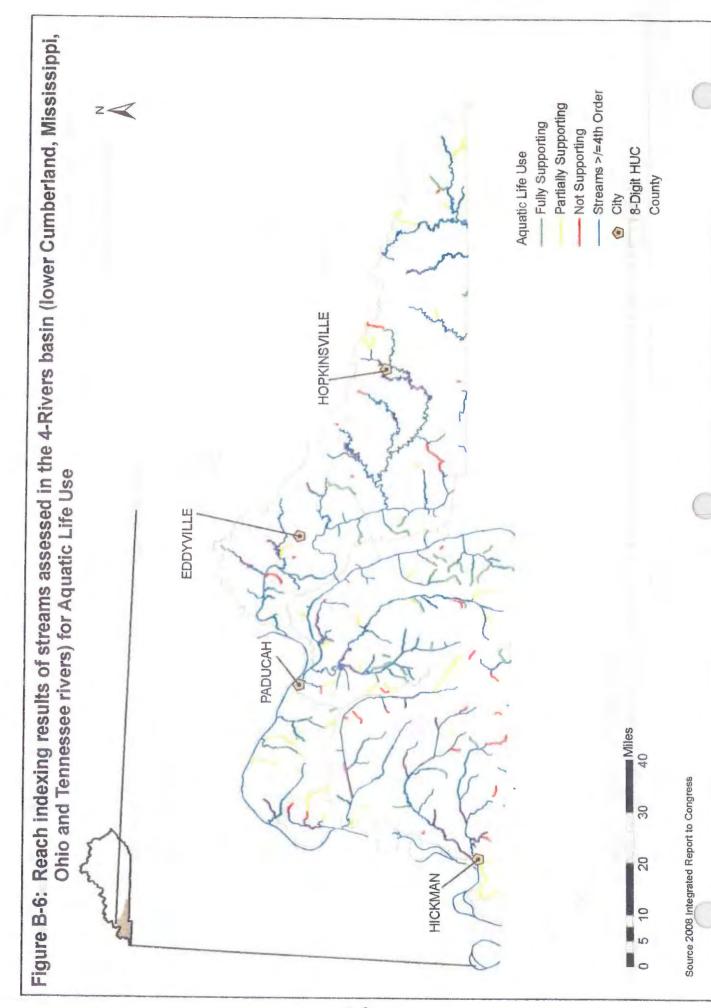


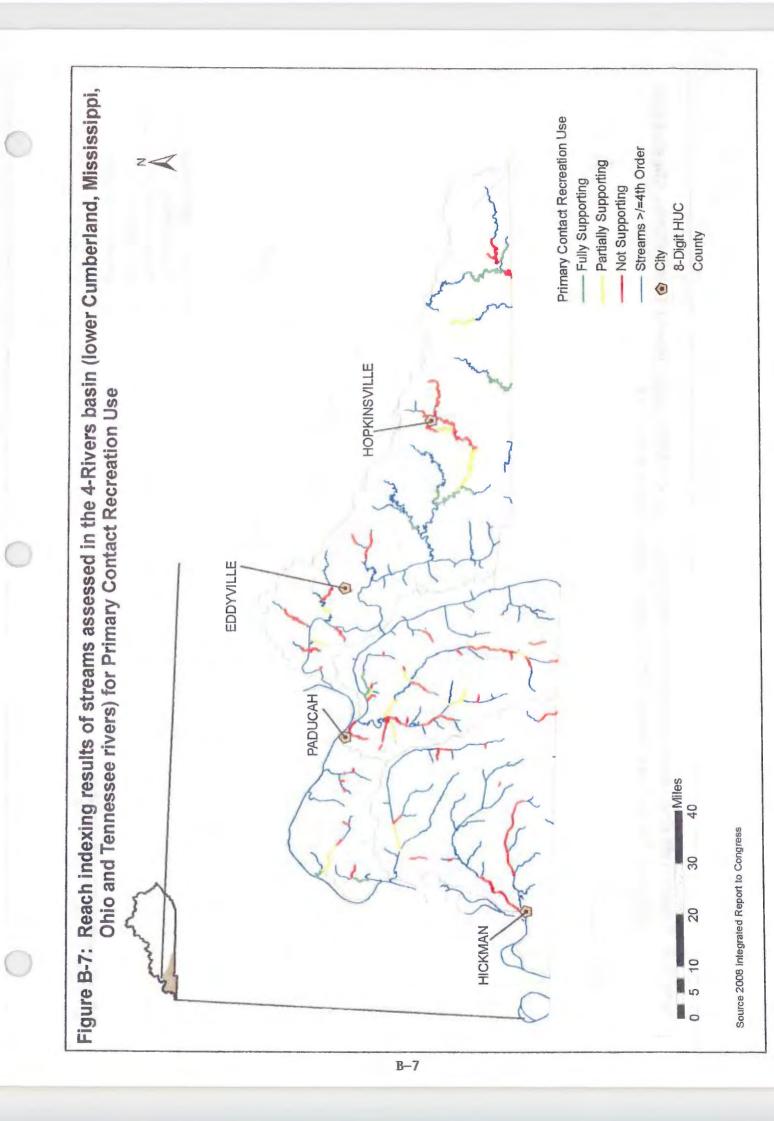


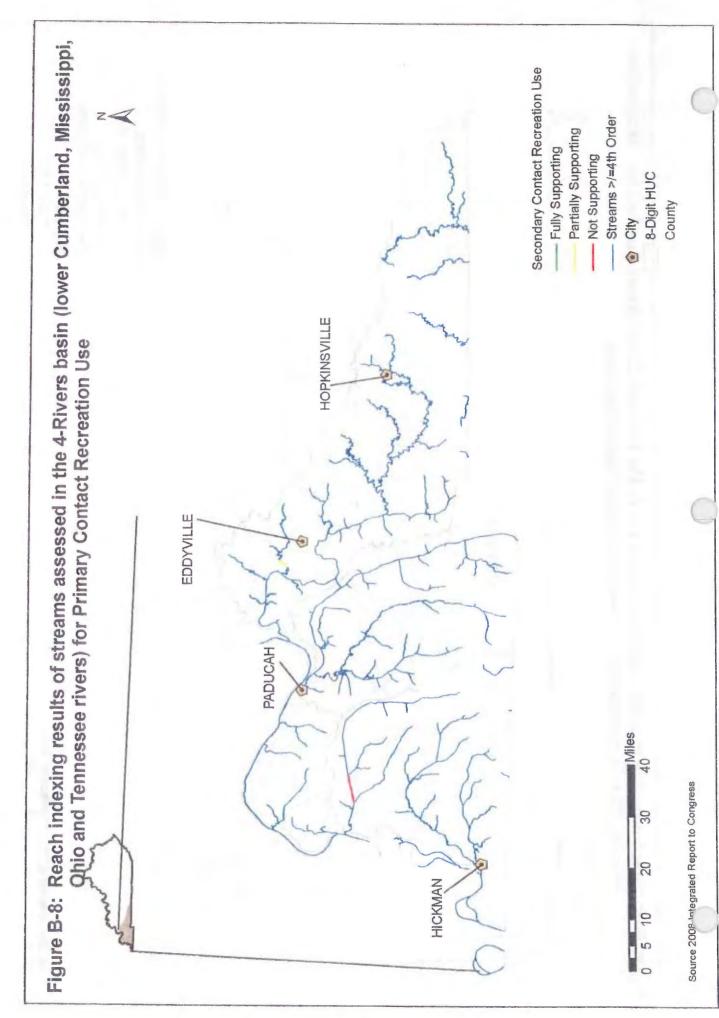


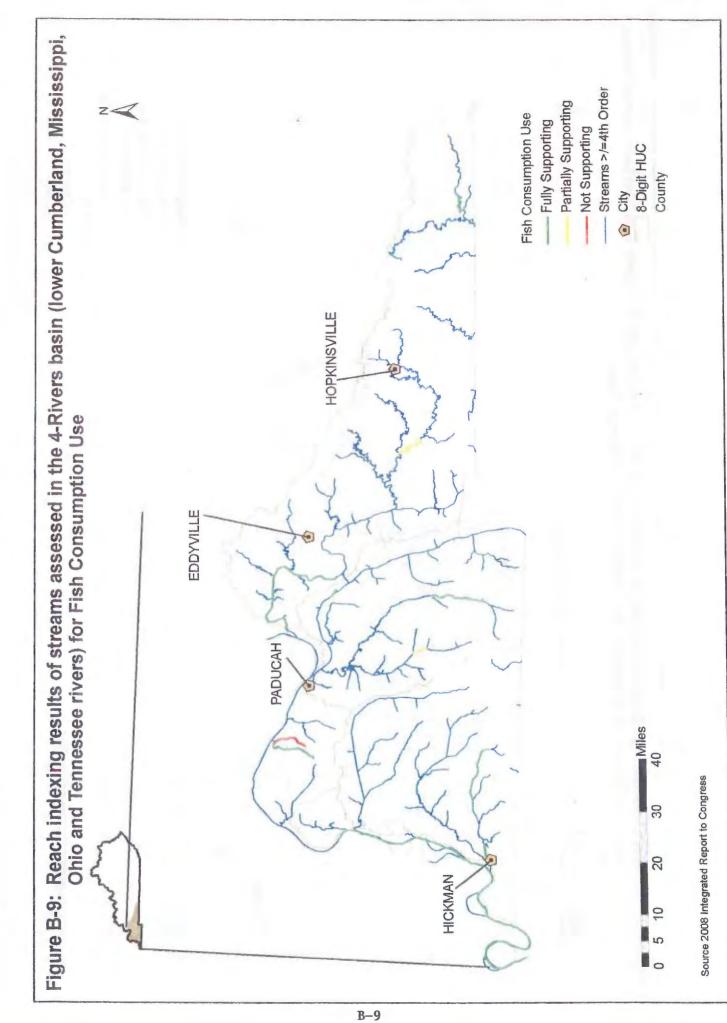


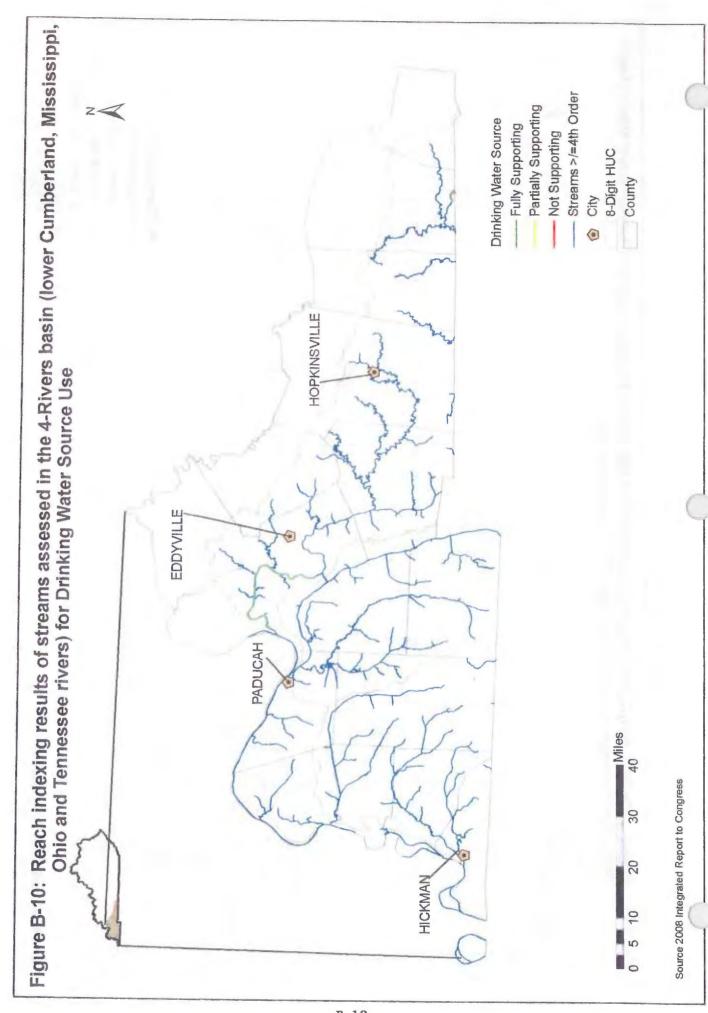


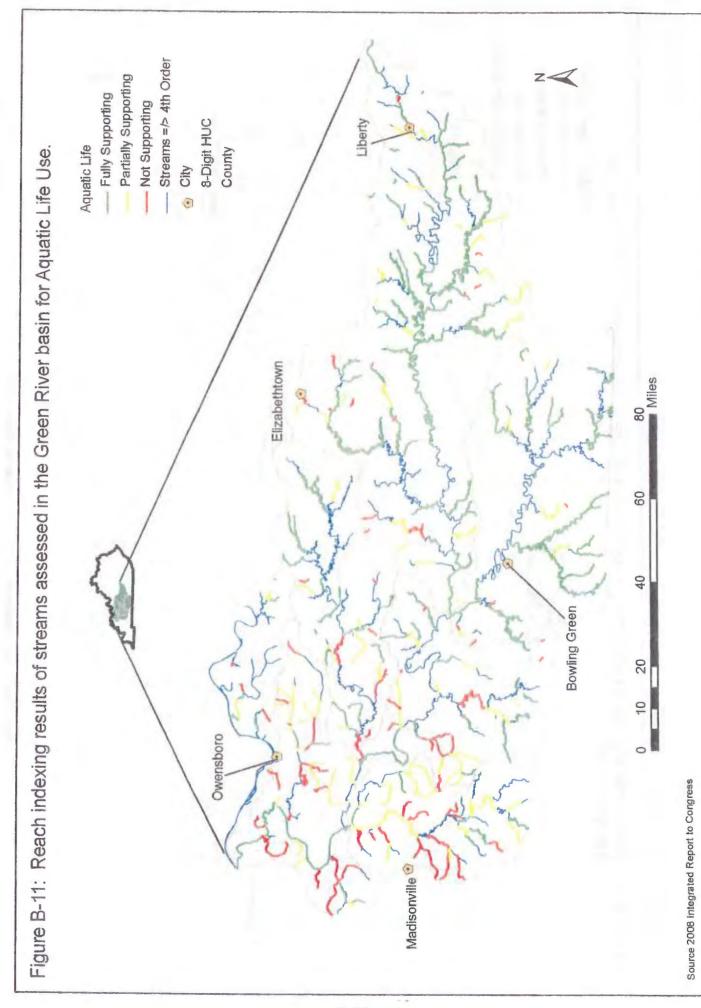


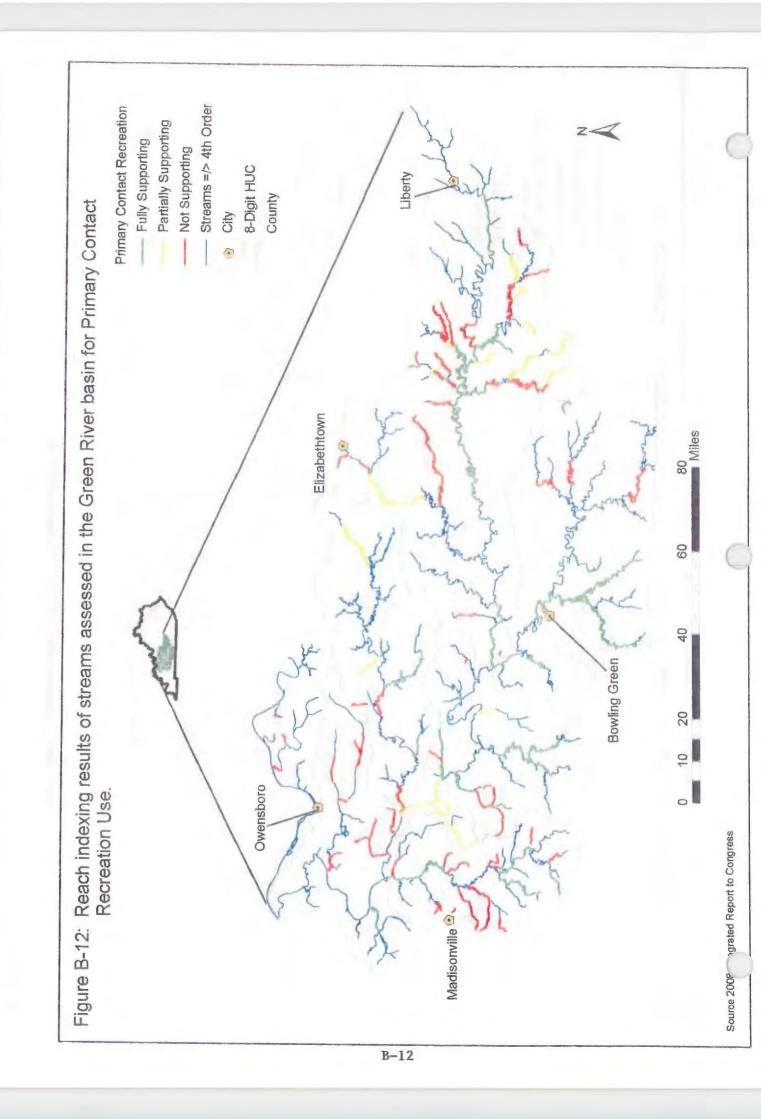


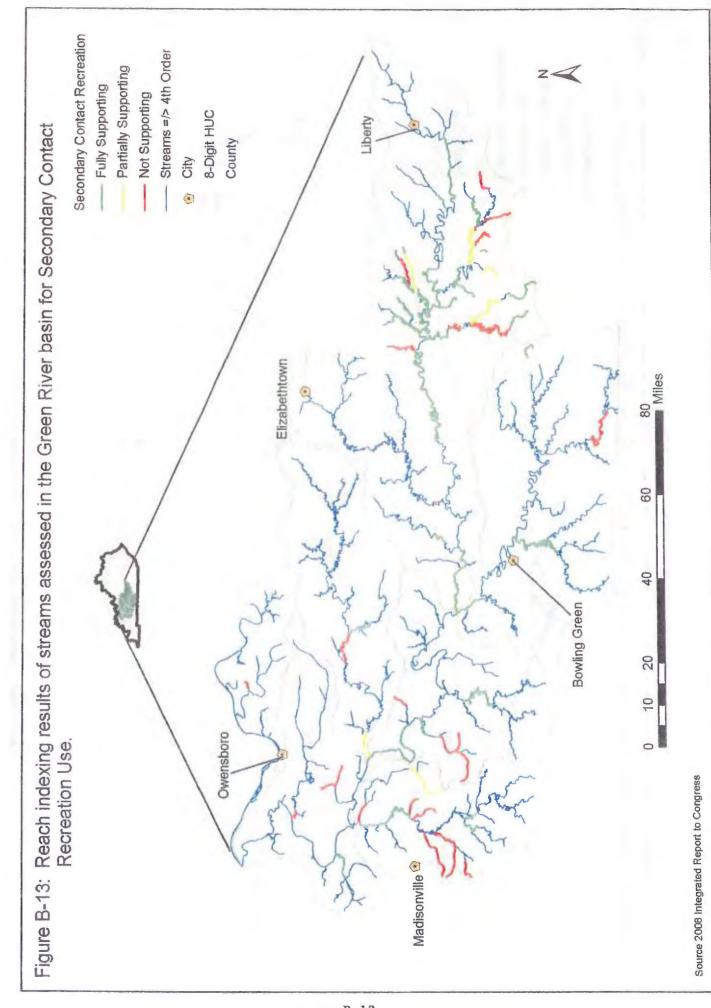


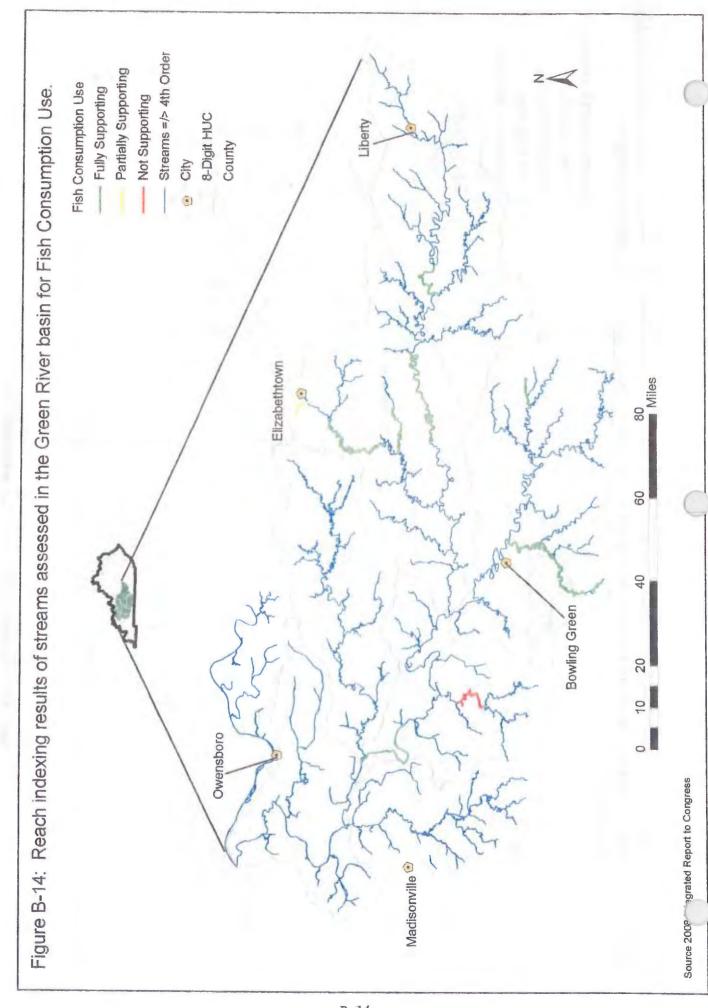












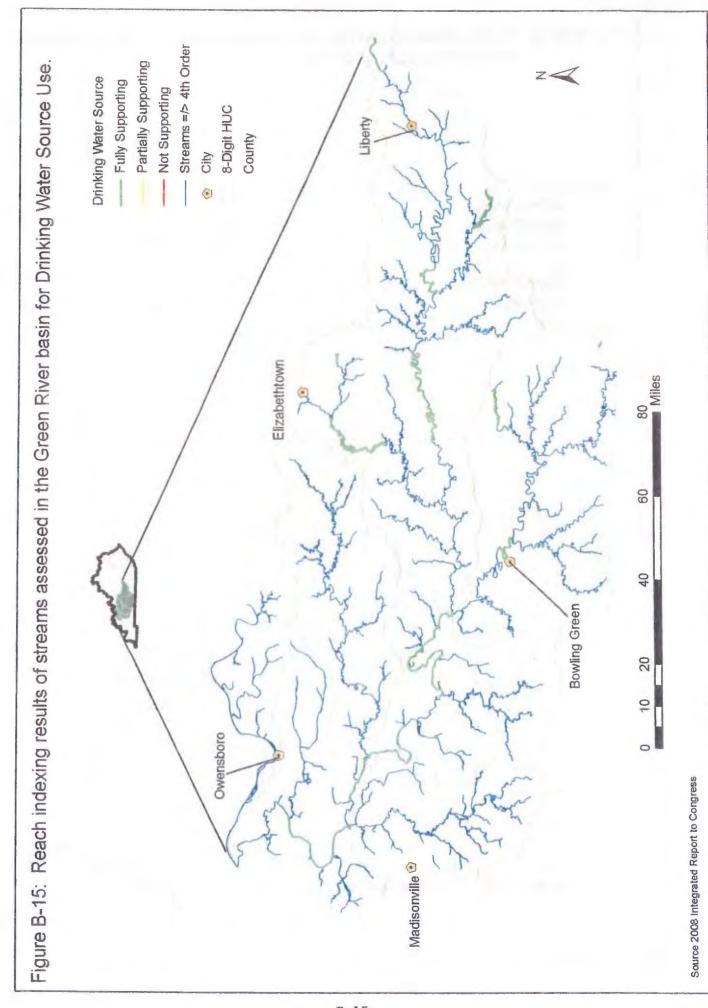


Figure B-16: Reach indexing results of streams assessed in the Tradewater River basin for Aquatic Life Use.

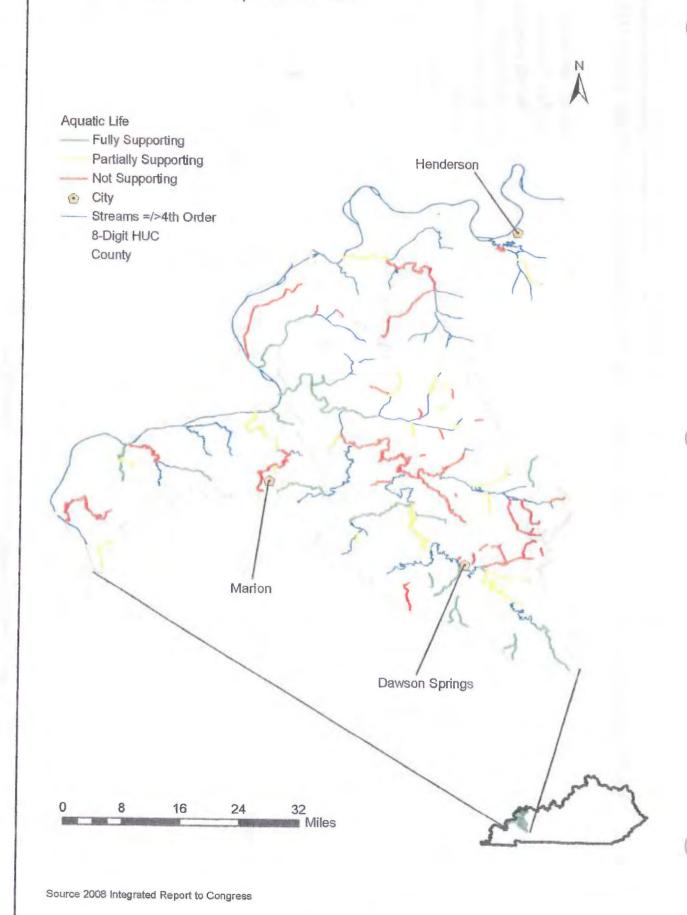


Figure B-17: Reach indexing results of streams assessed in the Tradewater River basin for Primary Contact Recreation Use.

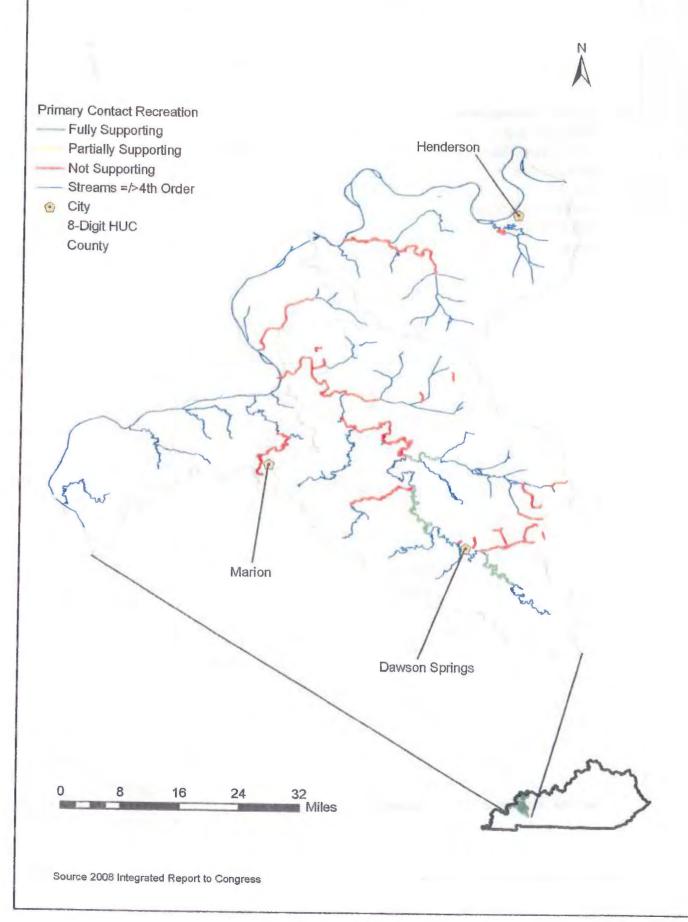


Figure B-18: Reach indexing results of streams assessed in the Tradewater River basin for Secondary Contact Recreation Use.

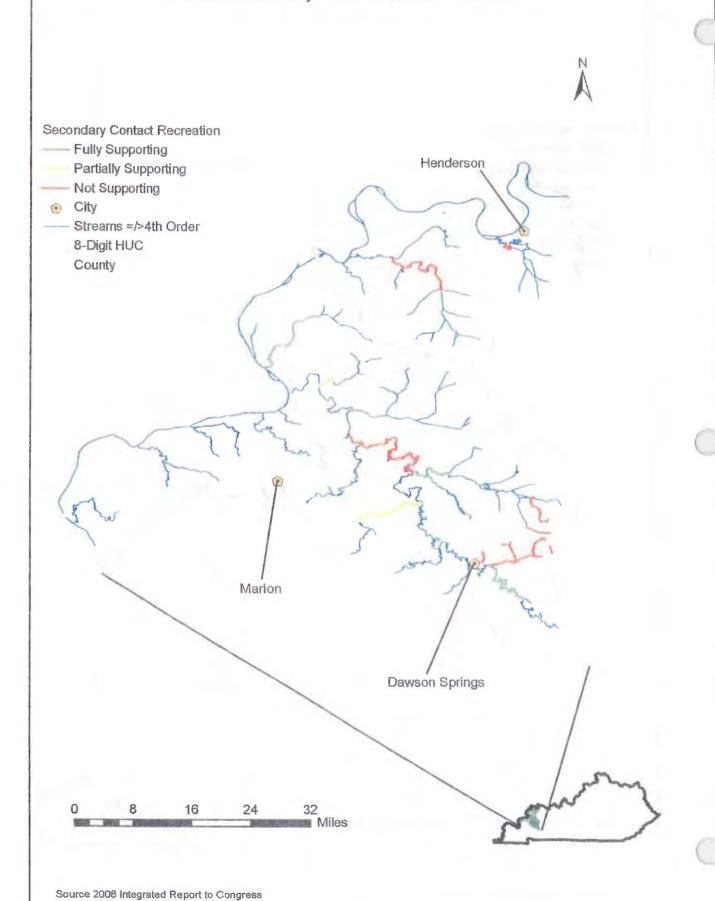
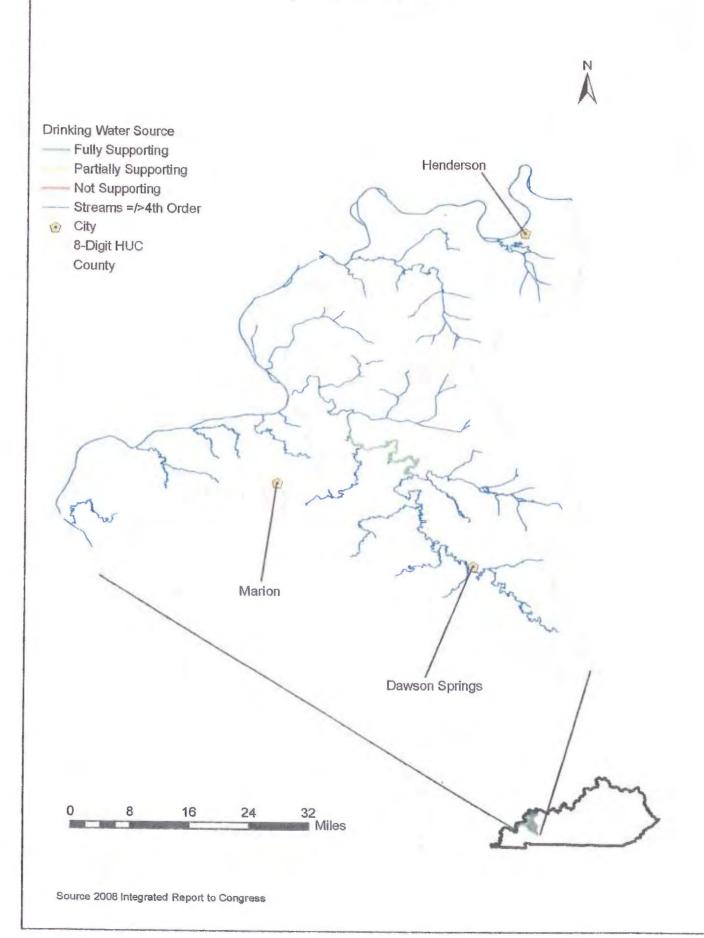
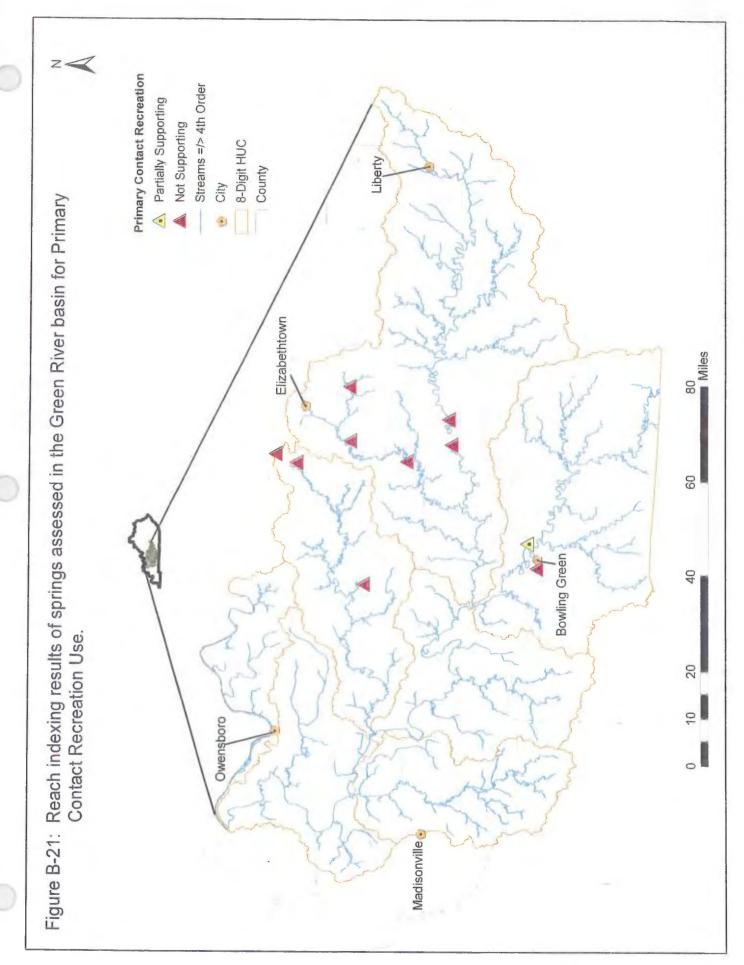
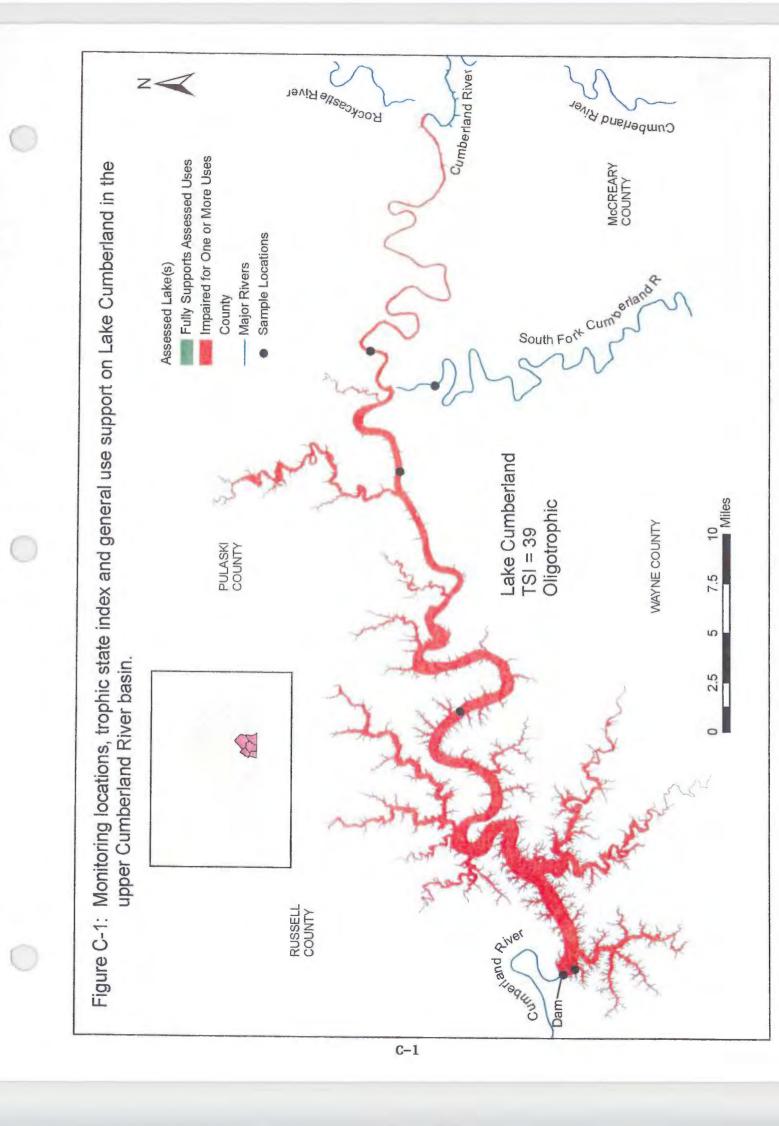


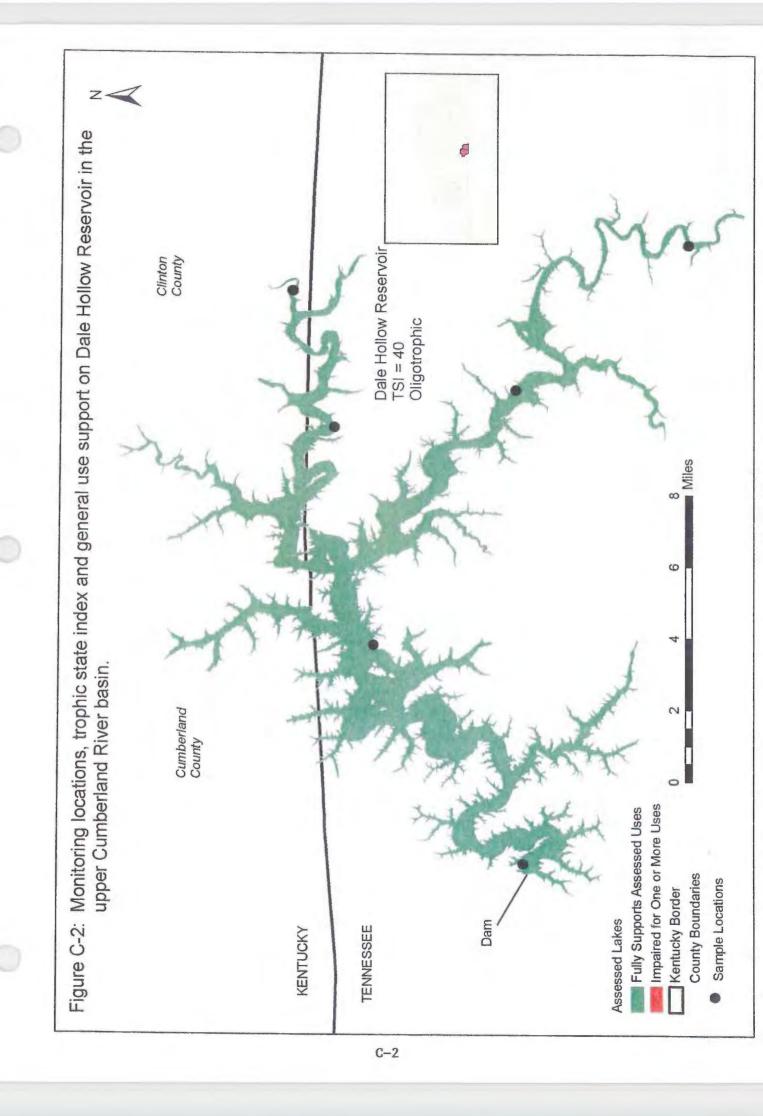
Figure B-19: Reach indexing results of streams assessed in the Tradewater River basin for Drinking Water Source Use.

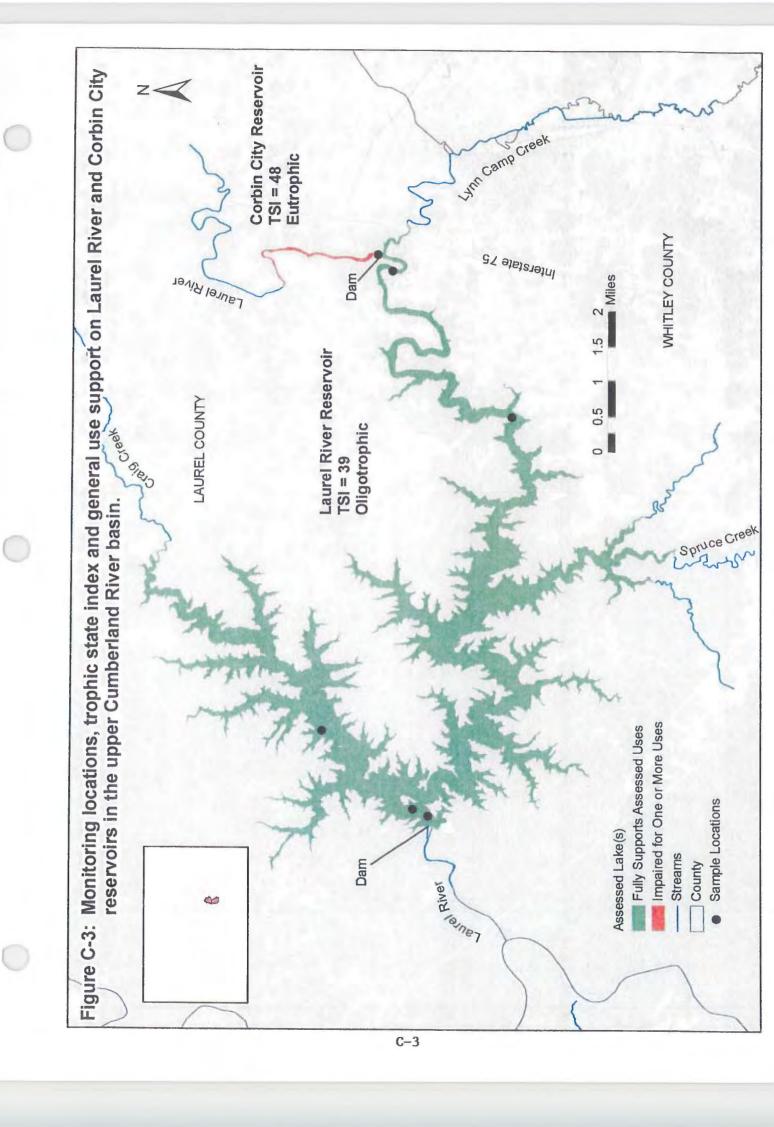


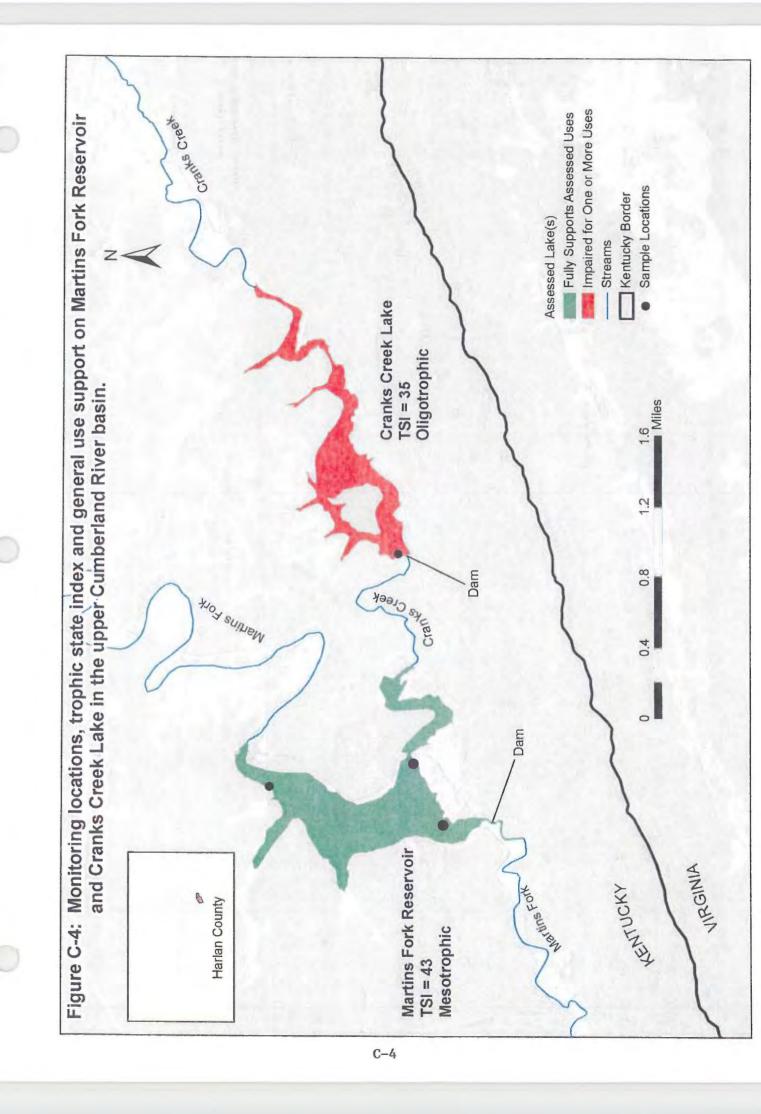


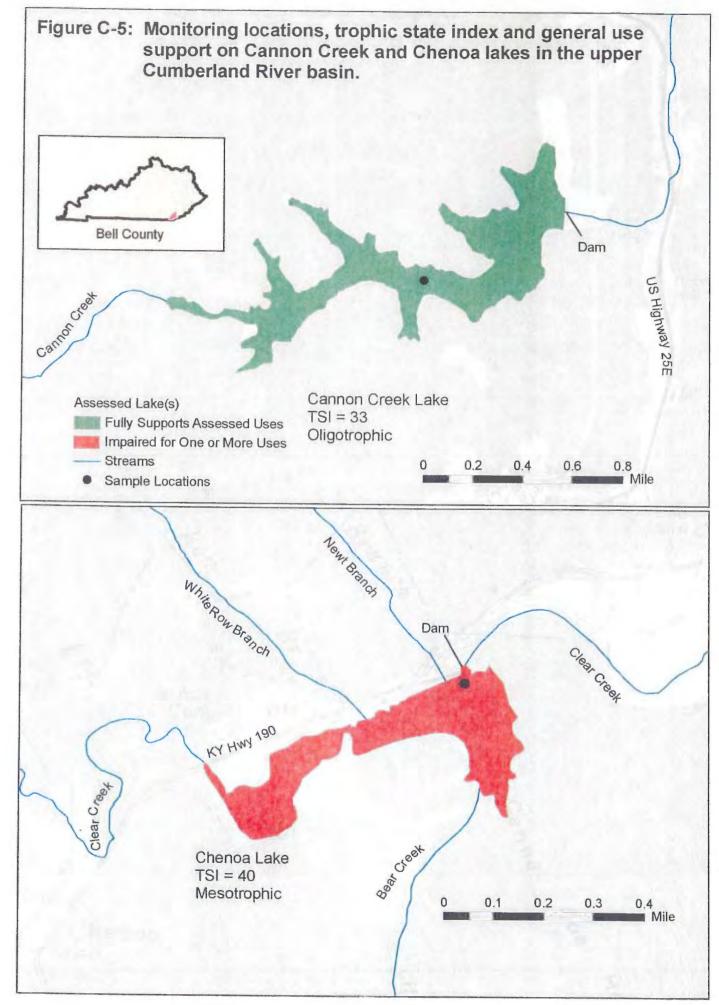
Appendix C. Use Assessment Maps of Lakes and Reservoirs Monitored in the Upper Cumberland – 4-Rivers BMU and Green – Tradewater Rivers BMU.

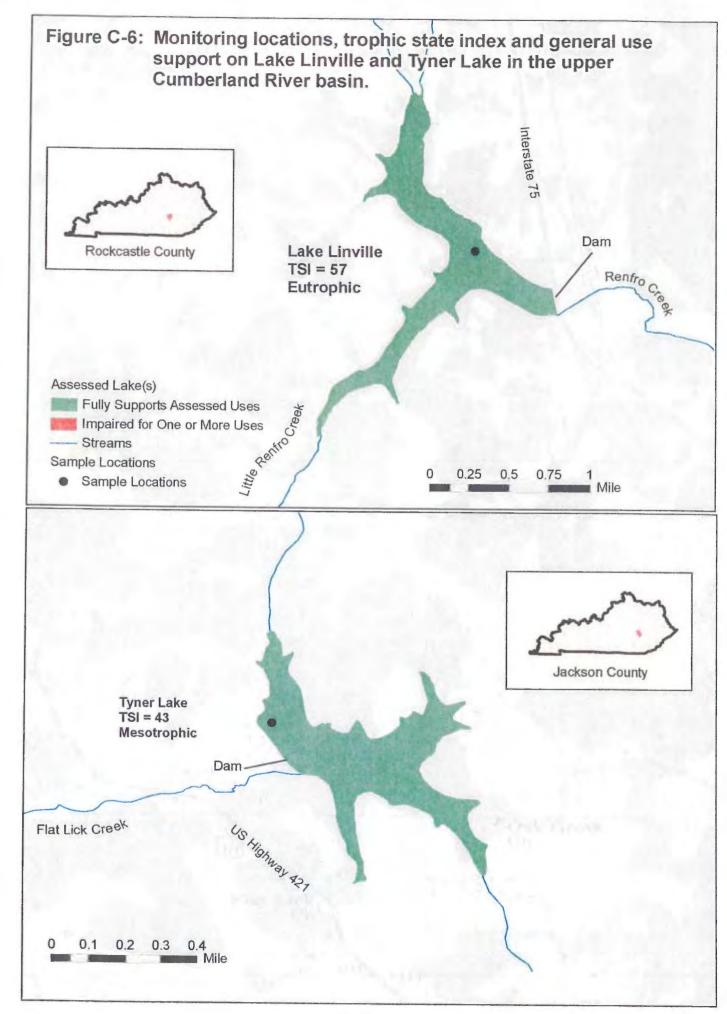


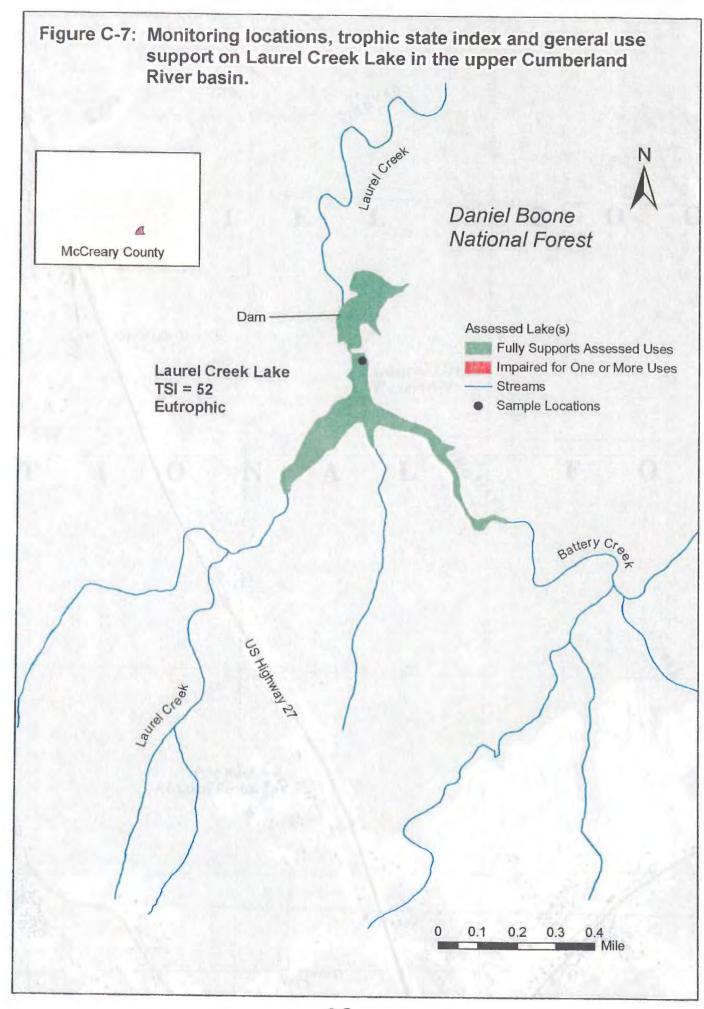


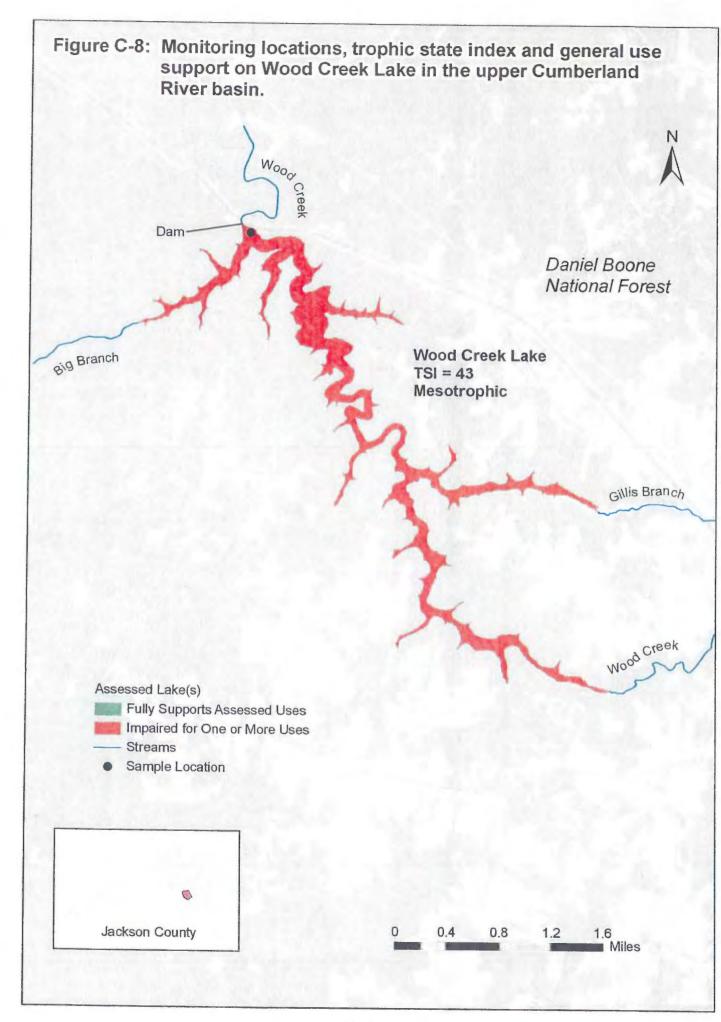


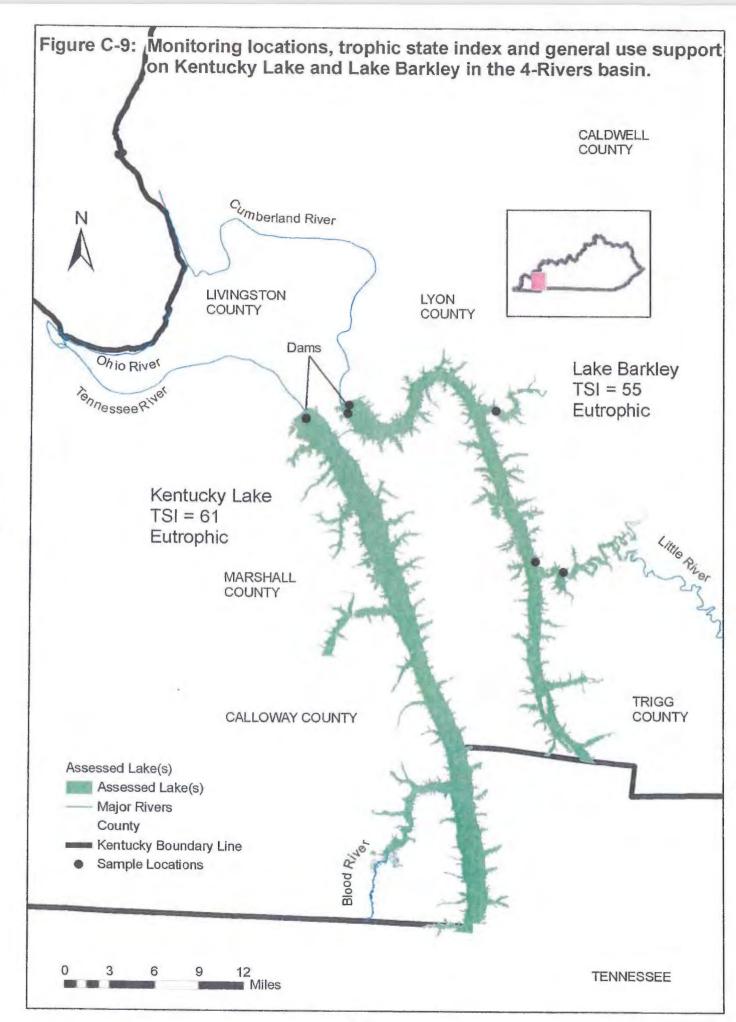


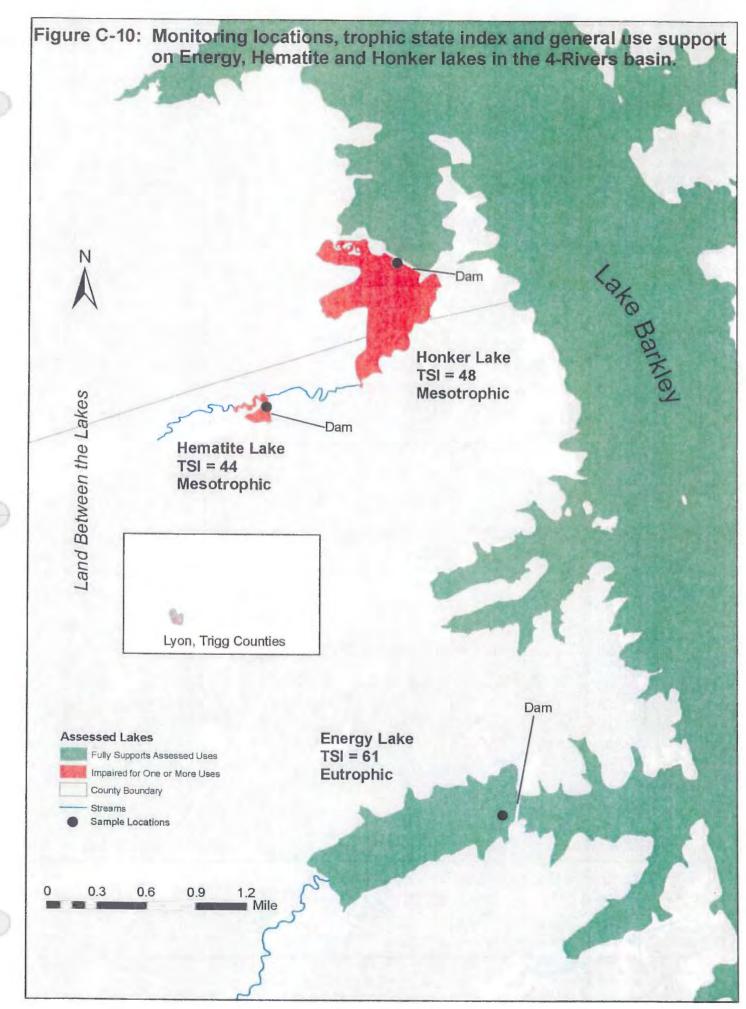


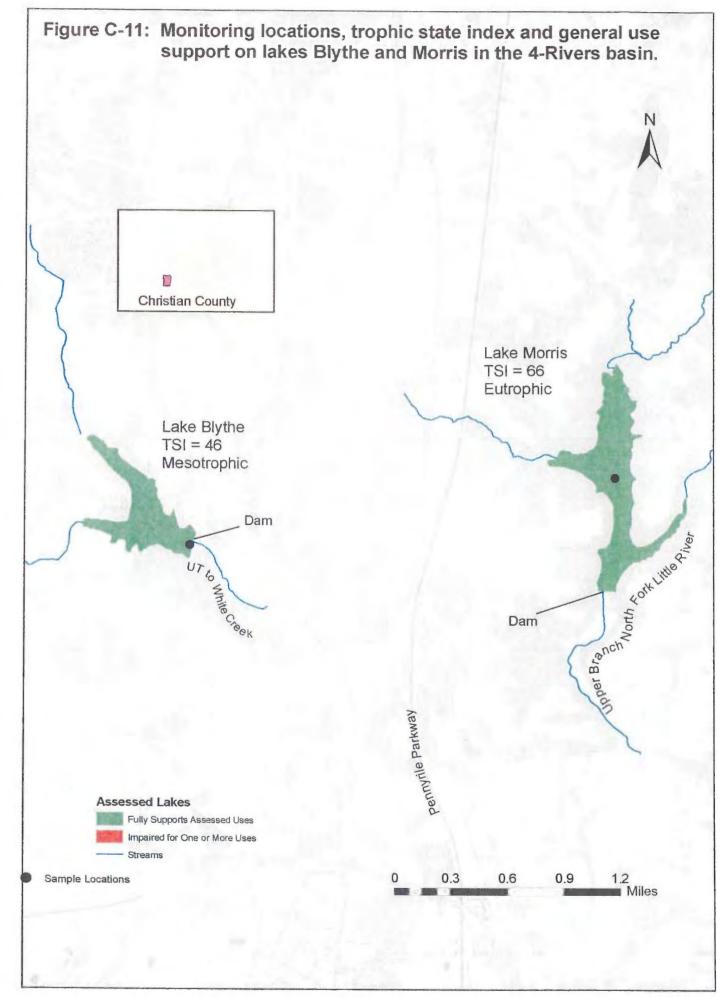












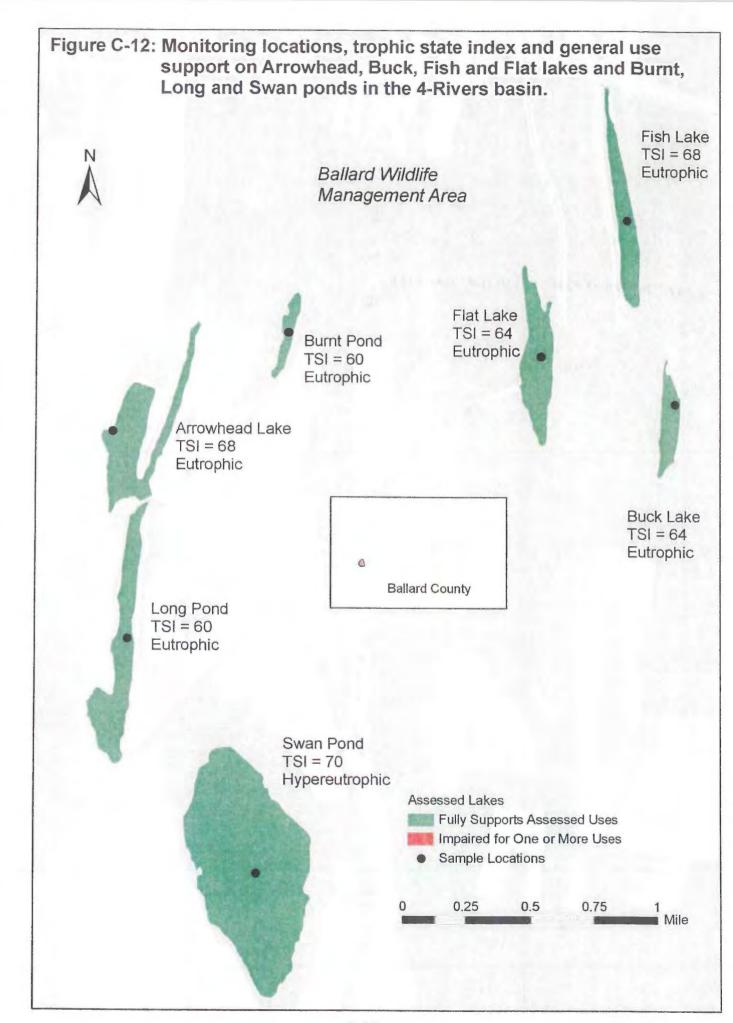


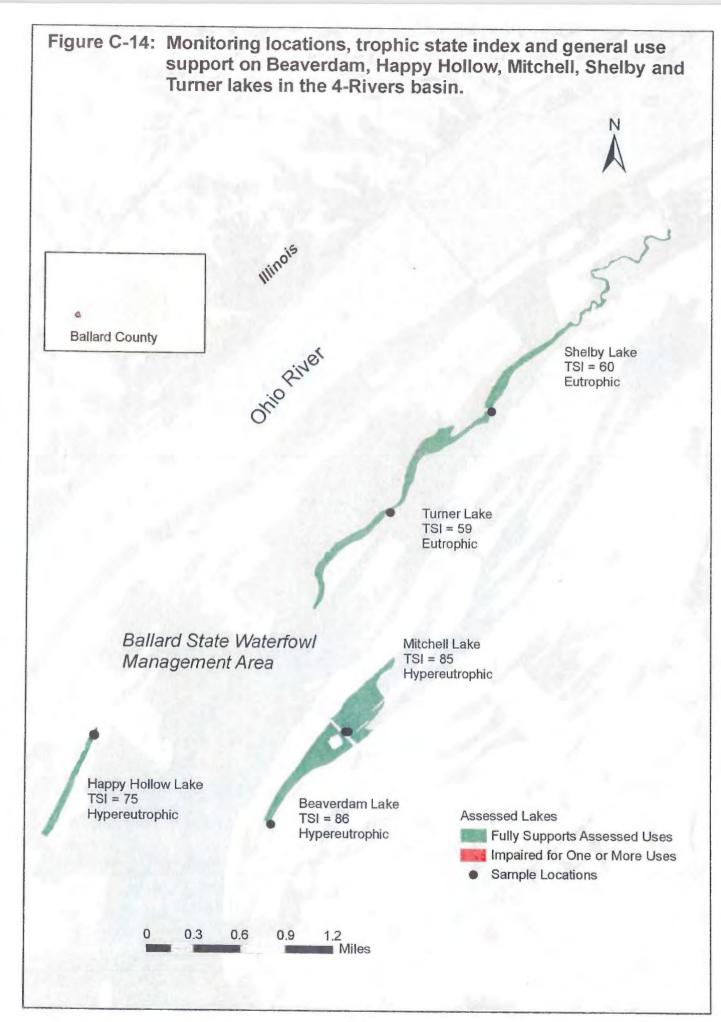
Figure C-13: Monitoring locations, trophic state index and general use support on Metropolis Lake in the 4-Rivers basin.

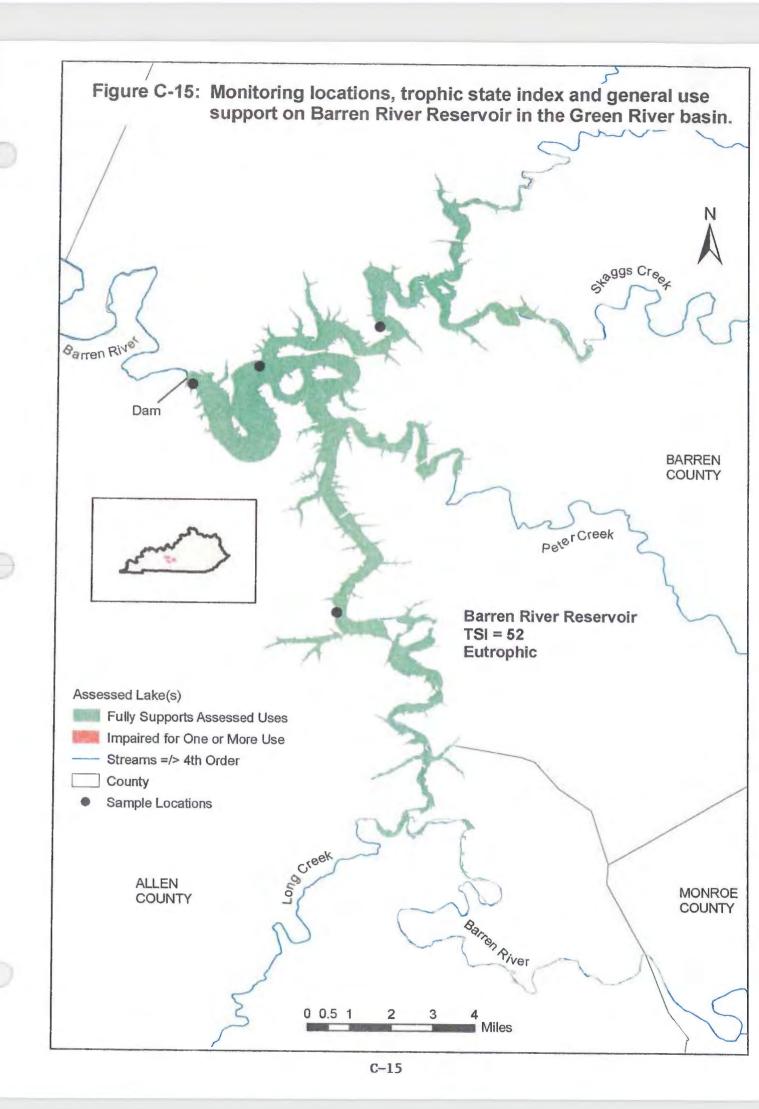


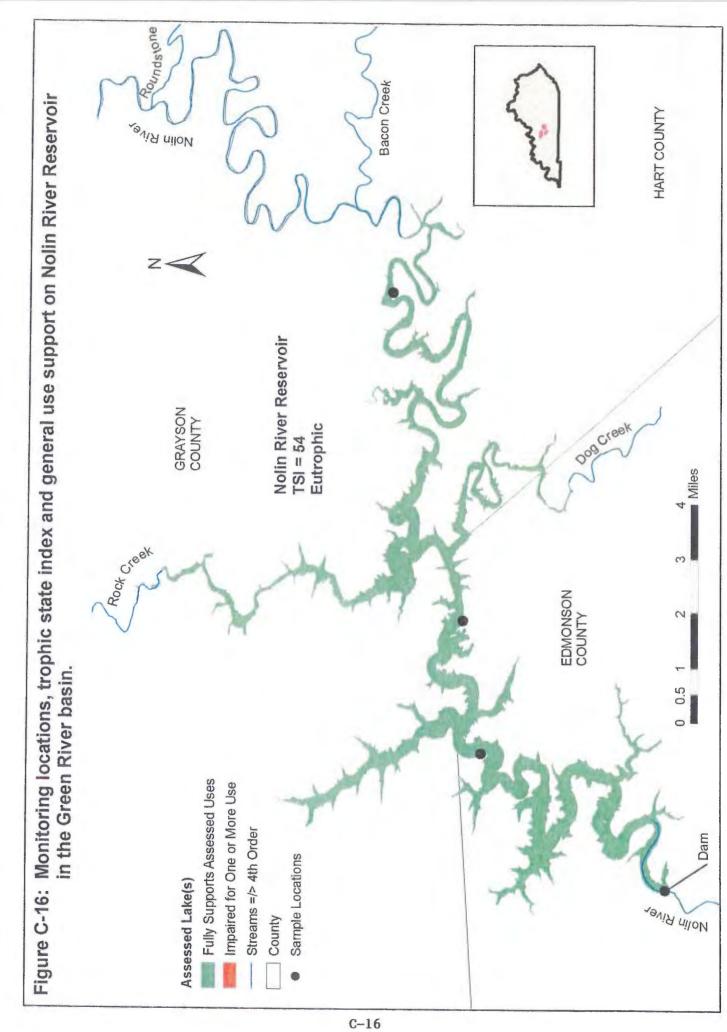


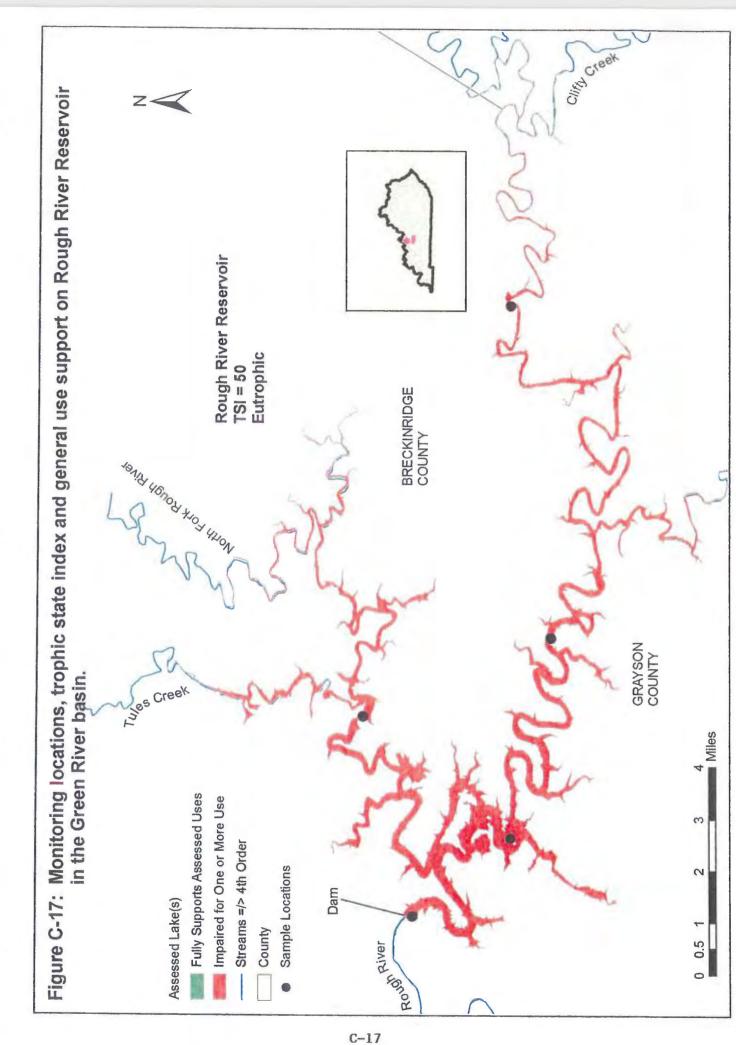
Assessed Lakes
Fully Supports Assessed Uses
Impaired for One or More Uses
Sample Location

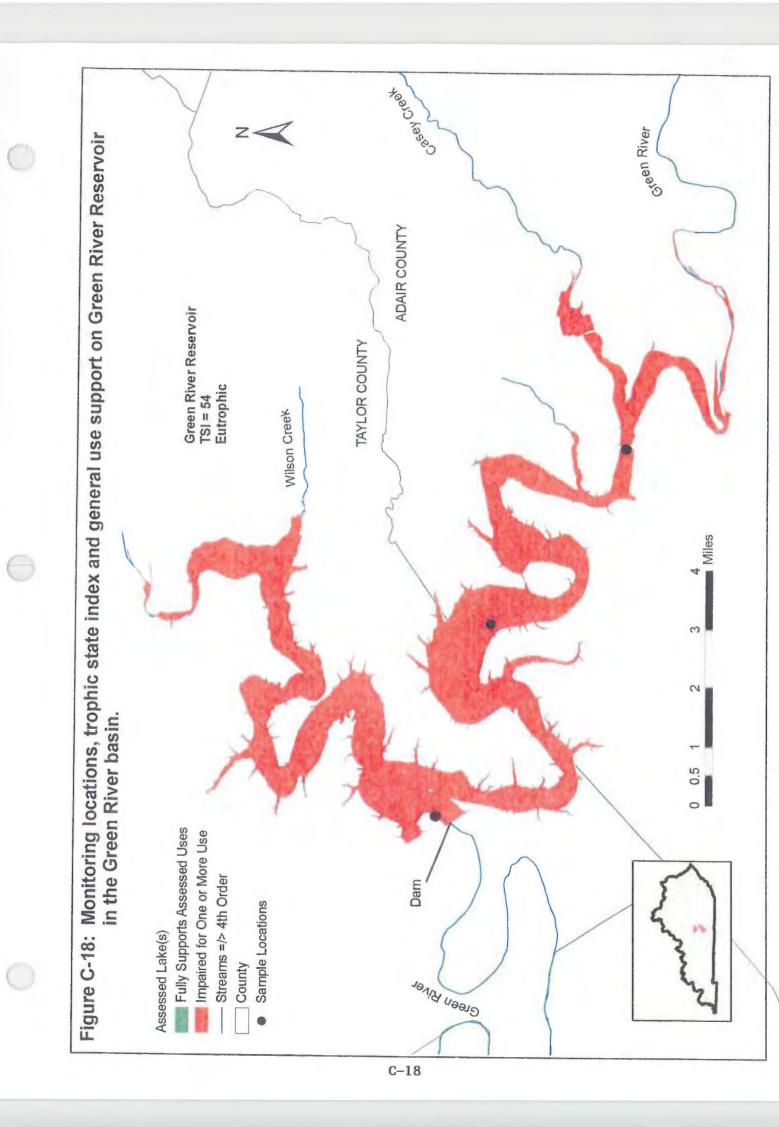
McCracken County

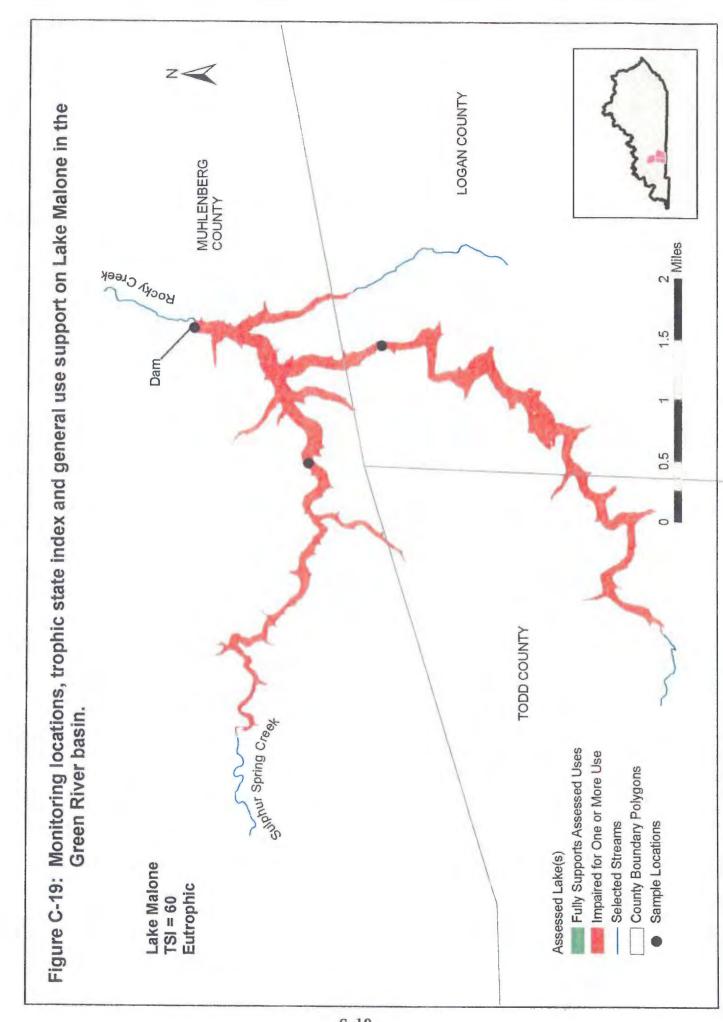


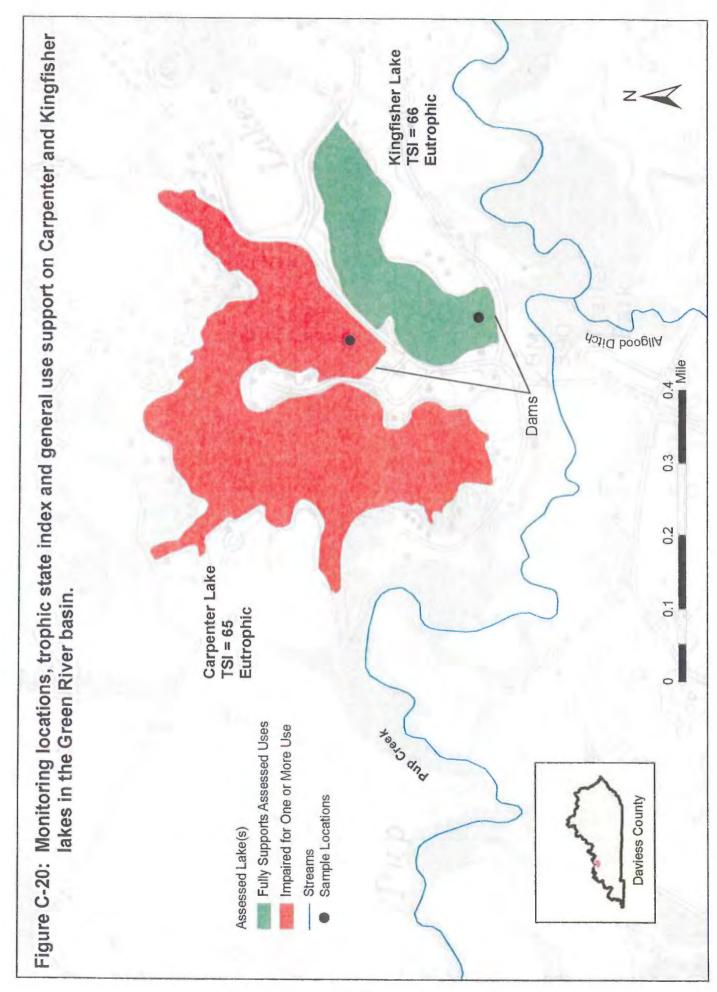


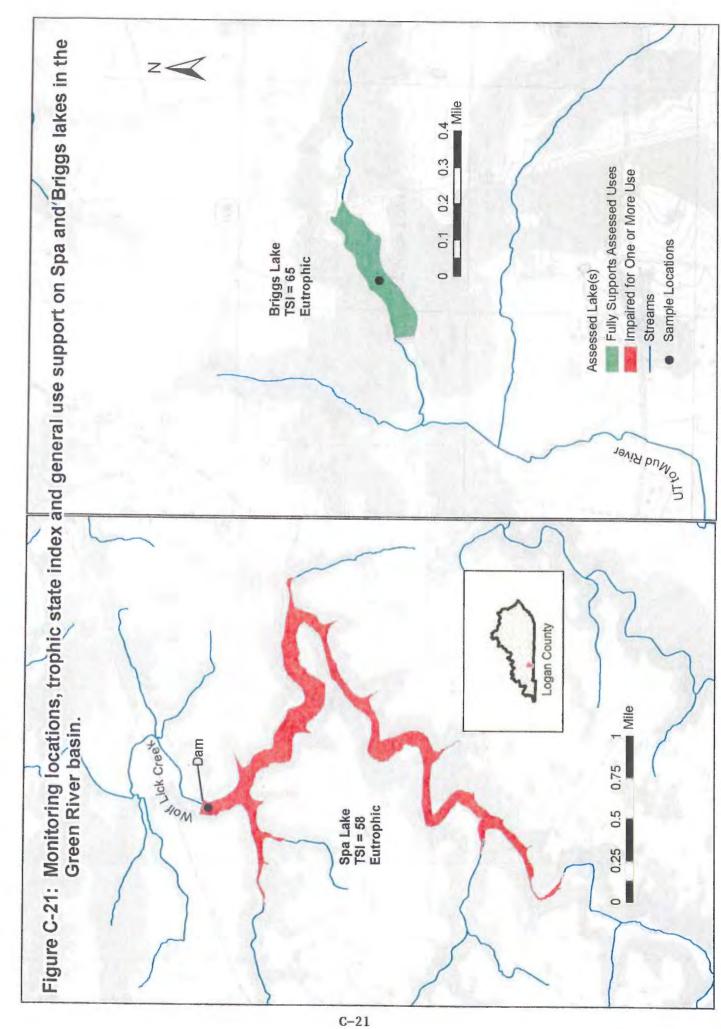


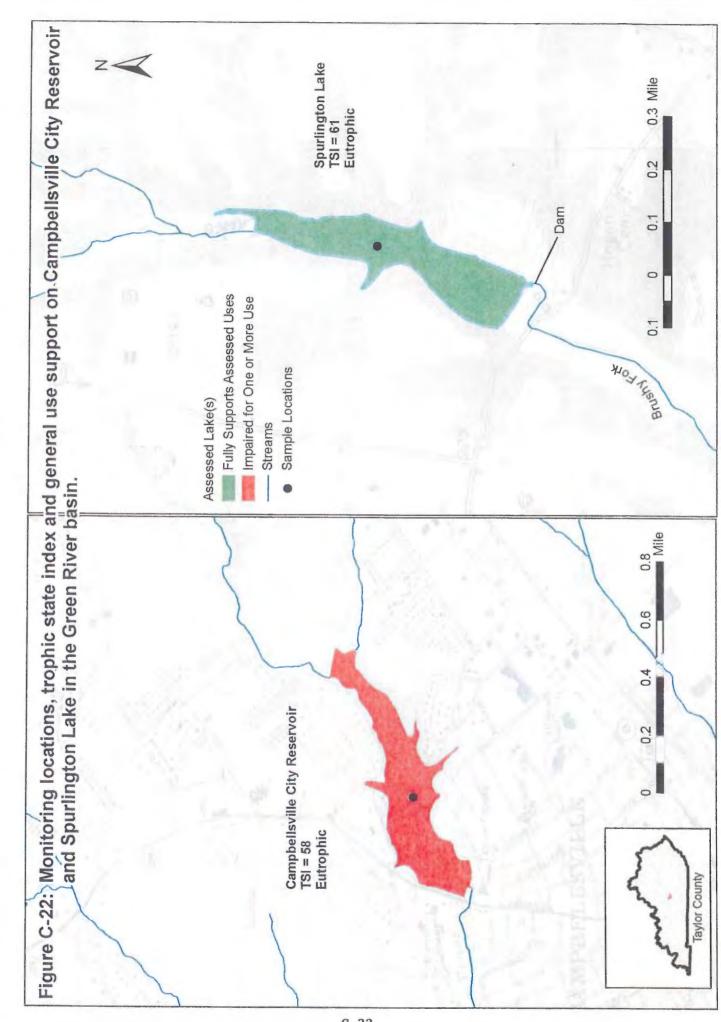


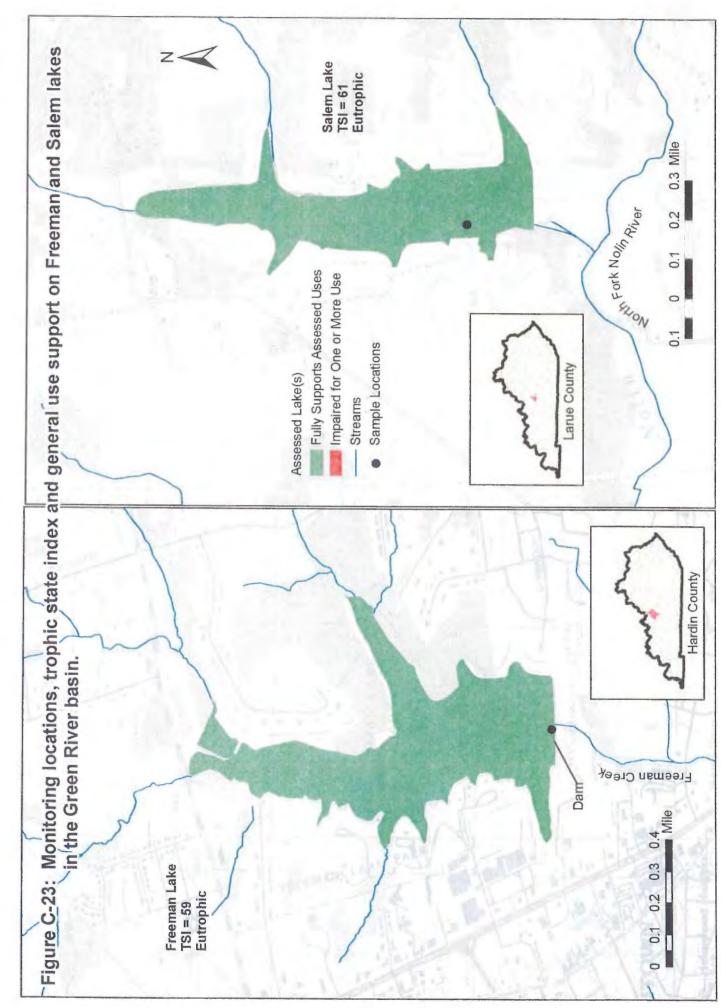


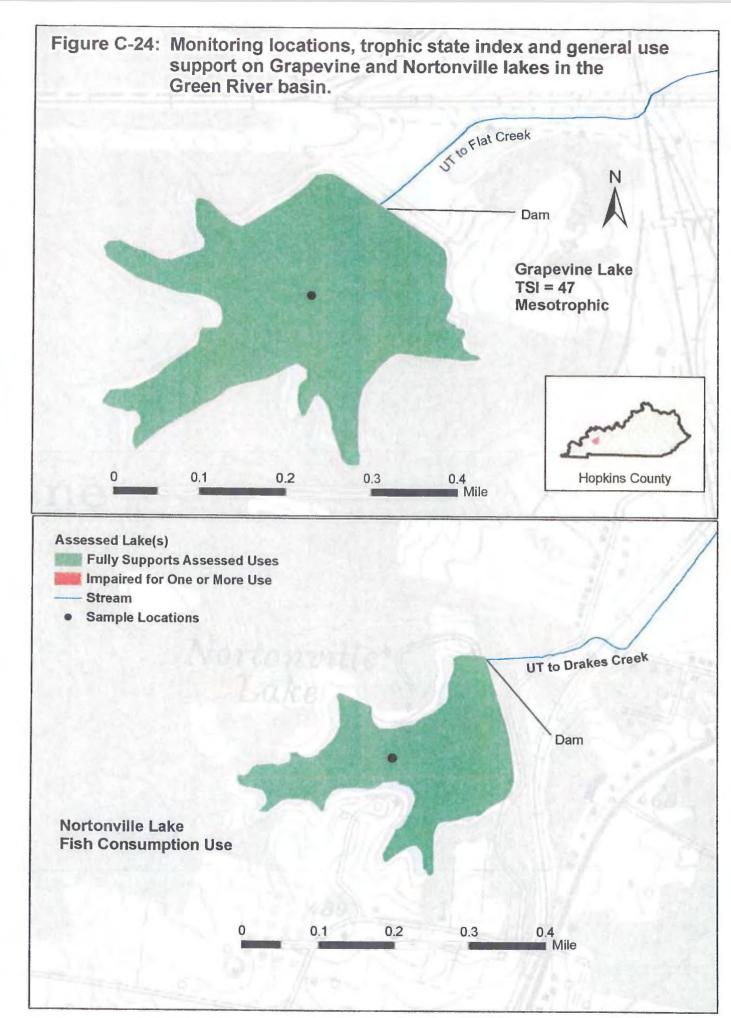


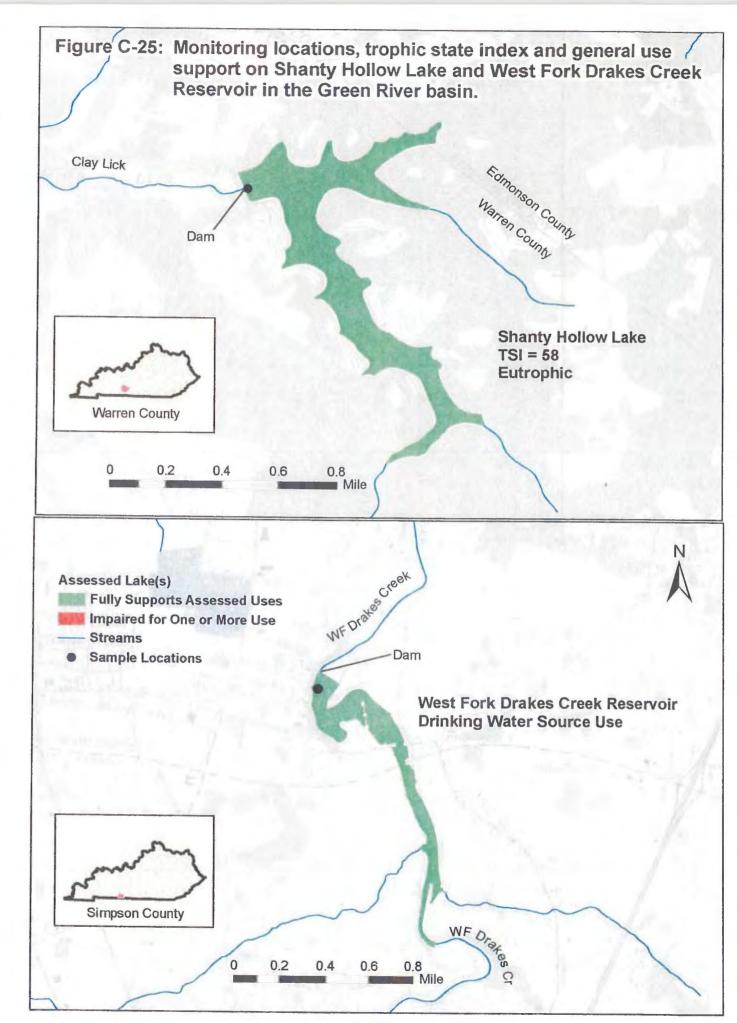


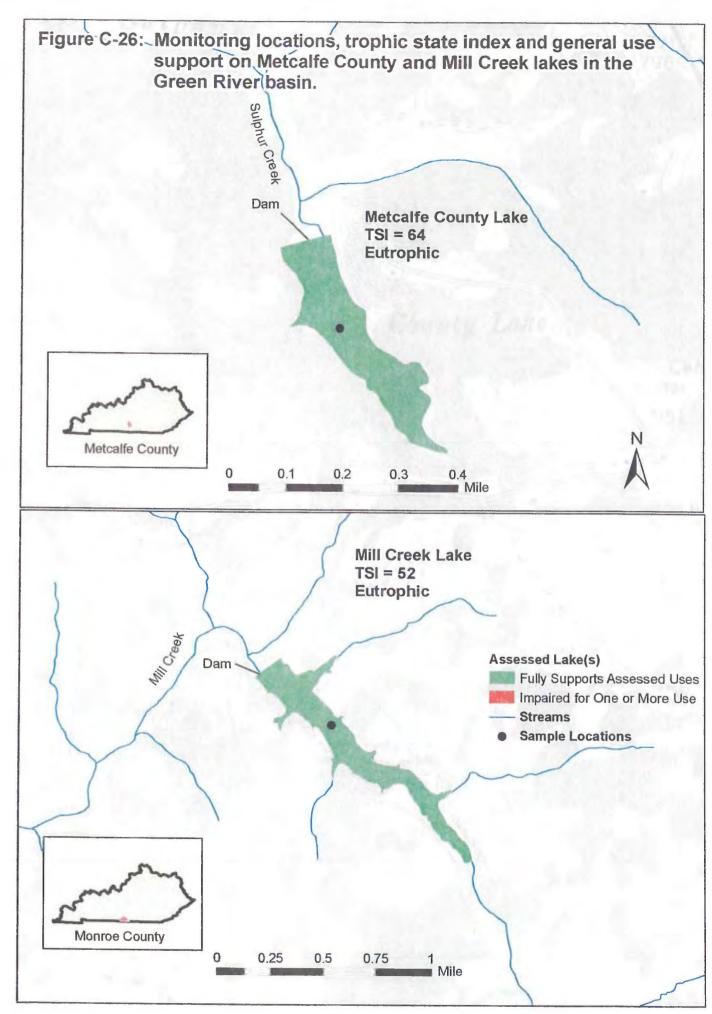


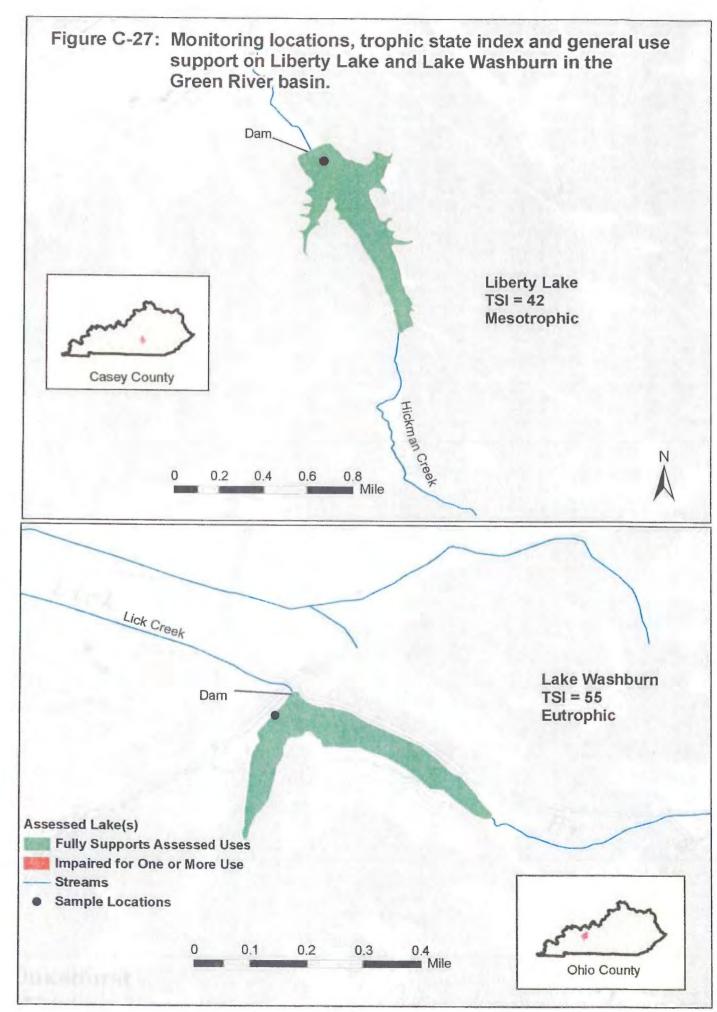


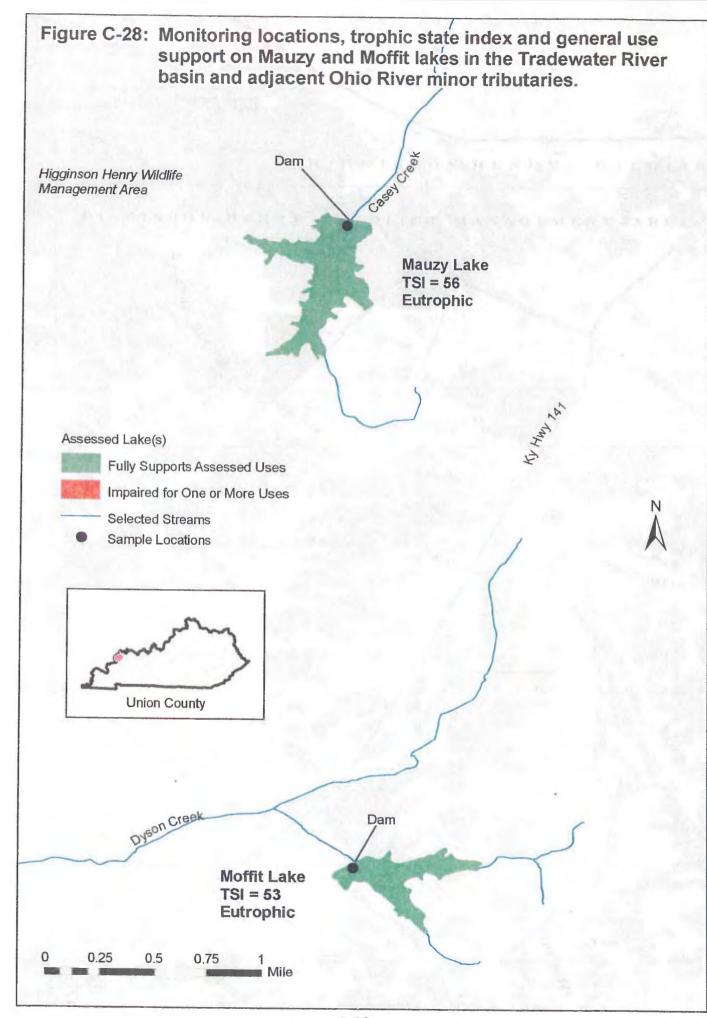


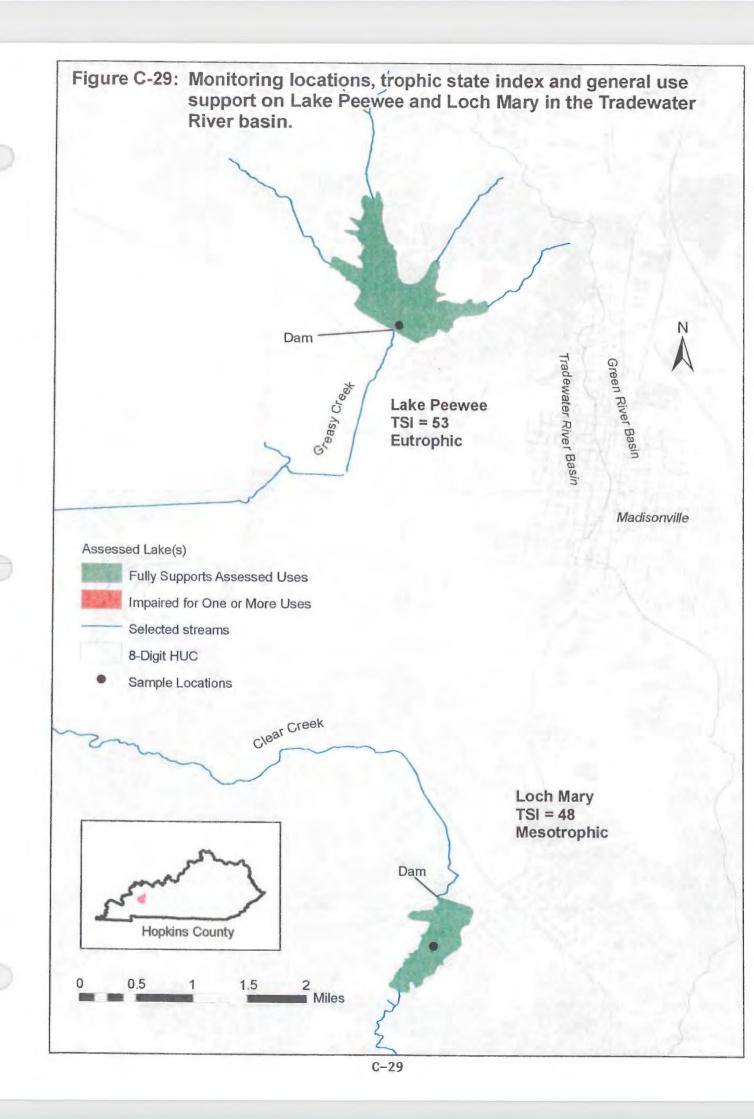


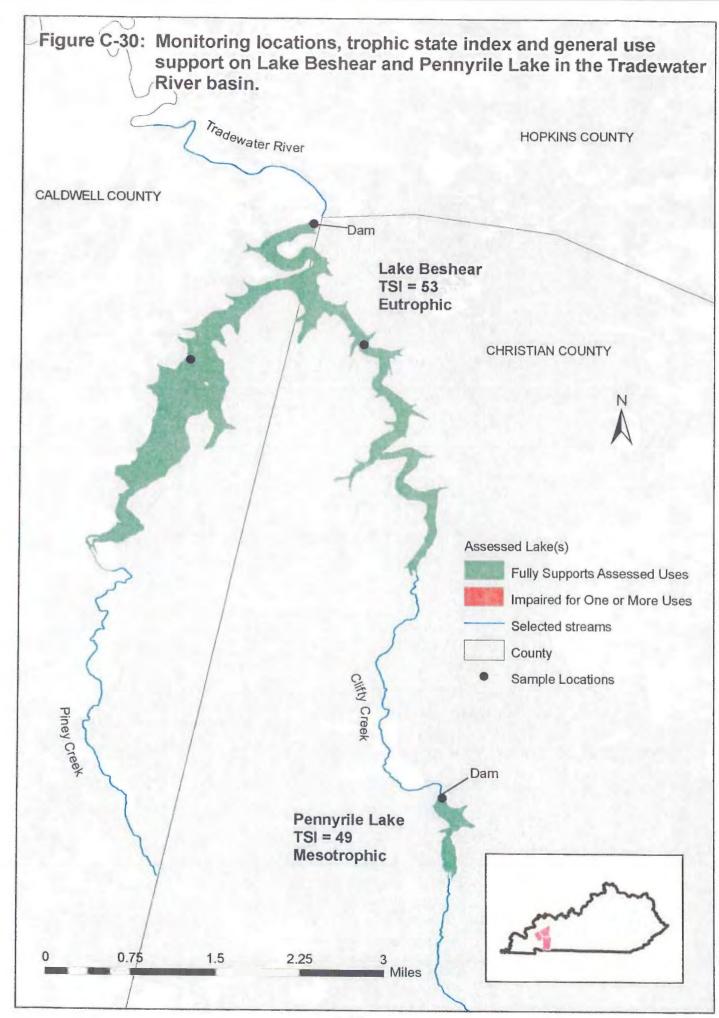


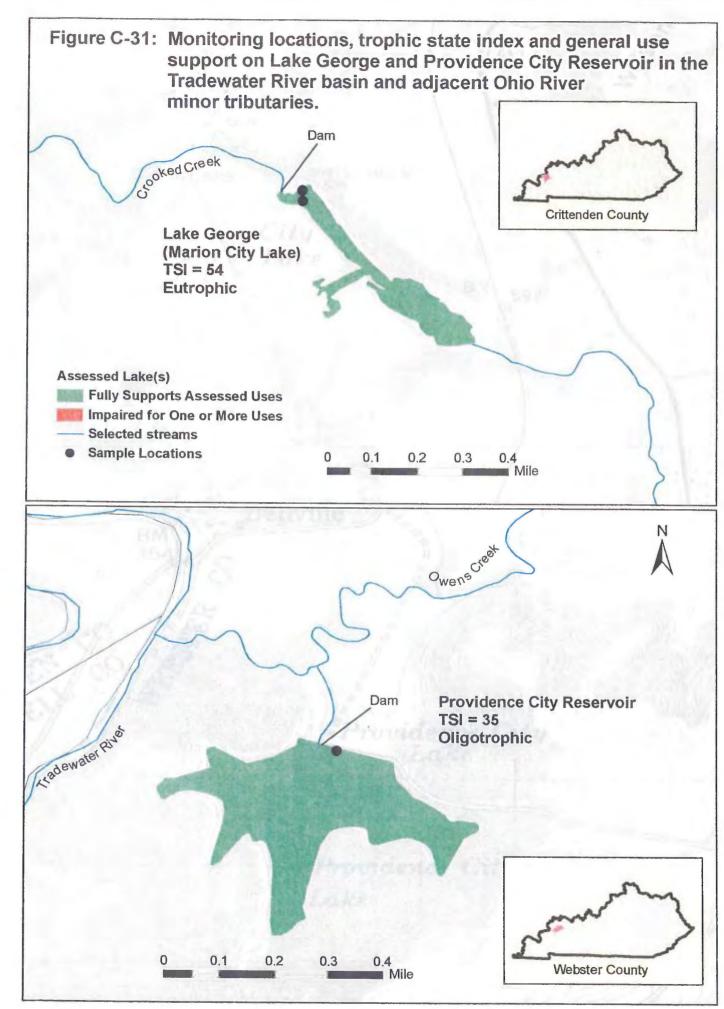














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