FINAL VERSION

YEAR 2002
303(d) LIST

January, 2004

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Pollution Control
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APPENDICES

GUIDANCE FOR UNDERSTANDING AND INTERPRETING THE FINAL 303(d) LIST

September, 2003

Note to Readers: This version of the 2002 303(d) has been prepared to address comments forwarded to the Division of Water Pollution Control by EPA during their review of the Proposed Final Version of the 303(d) List submitted to Region IV in September 2002. This document incorporates the responses provided to EPA by the Division in its letters to EPA in May and September, 2003.

While we believe that this version addresses most of the outstanding issues, it may be that EPA has additional concerns. If so, the division will continue to cooperate with EPA staff to finalize the 303(d) List. The process will be completed when EPA approves the document. If EPA conditionally approves the document, it has the option to request additional revisions, or to add or delete listings.

Questions about the EPA review and approval process should be directed to Tom McGill of EPA Region IV. He can be reached at 404-562-9243 or at Mcgill.Thomas@epa.gov.

What Is the 303(d) List and Why Is It Important?

The 303(d) List is a compilation of the streams and lakes in Tennessee that are "water quality limited" or are expected to exceed water quality standards in the next two years and need additional pollution controls.

Water quality limited streams are those that have one or more properties that violate water quality standards. They are considered to be impacted by pollution and not fully meeting designated uses.

Additionally, the 303(d) List prioritizes impacted streams for specialized studies called Total Maximum Daily Load (TMDL).

The 2002 303(d) List will update and replace the previous one published in 1998. (EPA suspended the requirement to publish a List in the year 2000 due to ongoing attempts to revise the 303(d) regulation.)

Once a stream has been placed on the 303(d) List, it is considered a priority for water quality improvement efforts. These efforts include traditional regulatory approaches such as permit issuance, but also include efforts to control pollution sources that have historically been exempted from regulations, such as certain agricultural and forestry activities.

If a stream is on the 303(d) List, the Division cannot allow additional loadings of the same pollutant(s). In extreme cases, it may mean that dischargers will not be allowed to expand or locate on 303(d) listed streams until the sources of pollution have been controlled.

WHAT'S NEW FOR 2002

Increased Coverage. In 1996, the Division began the watershed approach, a significant departure from how assessments had been done in the past. Instead of attempting to maintain a statewide coverage of monitoring stations in order to generate assessment reports, we began concentrating efforts into specific watersheds each year based on a prearranged schedule.

In the previous 303(d) List generated in 1998, we had only intensively studied watershed Groups 1 and 2. By 2001, we had completed intensive monitoring statewide. Additionally, we were much more successful in obtaining water quality information from other agencies this time, making the 2002 303(d) List the most comprehensive water quality inventories ever accomplished in Tennessee.

More Precision. In previous 303(d) Lists, the Division lacked the ability to segment waterbodies into smaller sections. As a result, large watersheds containing significant numbers of stream miles were frequently lumped together. While this approach was necessary at the time, EPA's Assessment Database and Reach Indexing Tool software, plus new powerful computers and databases, have allowed existing waterbodies to be segmented into an almost infinite number of sections. Each section can have its own identifier and assessment information.

When these tools are combined with more comprehensive monitoring under the watershed approach, we can provide the type of precision necessary to more accurately document water quality status, facilitate development of control strategies, and measure progress towards clean water goals. In 1996, the Division identified approximately 850 individual stream segments. In 2002, these existing waterbodies have been divided into over 4,000 segments.

However, it is important to note that this higher degree of precision will mean that the 2002 303(d) List will contain more individual segments. The higher number of individual entries on the 2002 List should in no way lead the reader to conclude that more miles of stream are now impacted. In fact, on average, individual segments will have fewer miles than before.

Higher Degree of Confidence. Simply put, the 2002 303(d) List contains very few assessments based on anything other than recently collected data. Streams where we might have made a call in the past based on judgment or old data, will be called "not assessed" in this cycle. While this will lead to a dramatic increase in the number of unassessed stream miles in Tennessee, the public will know that the existing assessments are supported with data.

Information About Endangered Species Within Listed Segments. In order to assist the public and other agencies in their use of the 2002 303(d) List, the Division has added information about endangered species. The comment field presents the name of any aquatic species designated as endangered that has been documented within the stream in the last twenty-five years. Please note that only truly aquatic species are listed. For example, rare mussels, fish, or snails would be listed, but birds or mammals would not. Appendix D contains a compilation of listed aquatic species that have been documented in Tennessee.

Which Tennessee Streams Are Not On the 303(d) List?

Streams considered unpolluted, plus streams that the Division cannot assess due to a lack of water quality information, are not found on the List. Additionally, streams where a control strategy is already in the process of being implemented are not appropriate for listing. (The condition placed on the control strategy is that the requirements must be expected to result in the attainment of the water quality standard before the next 303(d) listing cycle.)

Thus, any stream not on the 303(d) List can be assumed to either be unassessed, unpolluted, or with an effective control strategy already in place. A list of streams where TMDLs have already been generated and approved for specific pollutants is included as Appendix C.

At one time, EPA advised states to not list streams if a TMDL would be of little practical benefit, such as when pollution has been caused by **historical** rather than by current activities. A good example would be lakes with a fishing advisory due to sediment contaminated with legacy chemicals from past discharges.

In 1998, EPA reversed this position and now advises that these streams must be included on the 303(d) List and prioritized for future TMDL generation. We are aware that future revisions to the TMDL regulation may revisit this issue. For the 2002 303(d) List, the Division has listed all impacted streams as uniformly needing a TMDL without regard for the probability of future success of such an activity.

How Were the Waters of Tennessee Assessed for this Document?

The assessment of Tennessee's waters was based on a water quality evaluation that took place during 2001 and early 2002. Water quality data collected at hundreds of streams in Tennessee were compared to existing water quality criteria (Chapter 1200-4-3-.03). Data were compared to numeric water quality criteria, or in the case of substances with narrative criteria (criteria based on verbal "free from" statements), data were compared to ecoregion reference stream data from the appropriate sub-ecoregion. (Note: streams dissimilar to the waterbodies in the reference stream database were not evaluated in this manner.)

The Division of Water Pollution Control placed each of the waterbodies of Tennessee into one of the following categories:

- **Fully Supporting Designated Uses.** The quality of water is good enough to support the uses assigned to it by the Tennessee Water Quality Control Board. Most streams in Tennessee fall into this category.

- **Fully Supporting, but Threatened** streams are considered unimpacted by pollution, but the Division believes that a continuation of land use or other trends will cause the stream to fail to support designated uses **within the next two years**.

  Only two streams in Tennessee, the Obed River below Crossville and the Little River above Maryville, are currently listed as threatened.

- **Partially Supporting**. The body of water is somewhat impacted by pollution and water quality criteria are exceeded on some frequency. Water quality is considered **moderately impacted**. Specific pollutants violating water quality standards are listed.

- **Not Supporting**. The body of water is highly impacted by pollution and water quality criteria are exceeded on a regular or frequent basis. Water quality is considered **severely impacted**. Specific pollutants violating water quality standards are listed.

As mentioned previously, the 303(d) List is composed of streams considered **Partially Supporting** or **Not Supporting**. Threatened streams are also appropriate for 303(d) listing. However, due to the limitations placed on the use of the threatened category and the general lack of high quality trend data in most streams, this category was not widely considered appropriate as a justification for listing.

We are often questioned about the crucial decisions made in the development of Tennessee's assessment philosophy. While certain water quality assessment decisions are spelled out in standards and guidance, others are not. In some aspects of the complicated process used to apply criteria to water quality data, professional judgment must be employed.

Our goal where ever possible, is to improve our assessments by limiting the amount of professional judgment. Here are some of the ways we are accomplishing this goal:

1. Our ecoregion project has dramatically reduced the uncertainty associated with the application of narrative criteria. In the last two years, we have published multiple guidance documents concerning the interpretation of various types of data.

2. We have reduced the distance upstream or downstream that we extrapolate data from a sampling point. For example, in the past we might have said that chemical data at a single point is representative of 30 miles of river in either direction. Now we would probably use something more like 15 miles. (This decision is made on a site-specific basis using such factors as amount and type of data available and the uniformity of the stream.)

3. We have set minimum data requirements for the various types of data we collect. (More fully explained on the next page.)

4. With an understanding of the uses being protected, we can assign more weight to certain types of data or certain collection seasons. Low flow seasons like late summer and early fall, are the critical periods for certain parameters like toxic metals. Other parameters may be of more seasonal importance. For example, water contact activities like swimming or wading are much more likely to occur in the summer.

Much consideration has been given to the types and amounts of data needed to provide a justification for delisting streams.

As a general statement, the same types of data are needed to delist a stream as was used to list it originally. For example, if a stream was listed because it had a water contact advisory due to pathogens, coliform monitoring would have to be performed until concentrations below criteria were documented. Obviously, data from a biological survey could not be used to delist a stream assessed as impaired by pathogens.

In some cases in the early nineties, streams were listed based on concerns rather than on specific water quality standards violation. EPA has ruled that streams cannot be delisted without strong justification, even if they were originally listed very casually. This approach, while perhaps understandable, places an extra burden on states.

In a later section, the reasons EPA considers appropriate for delisting a stream are explained.

Our goal is to improve our assessments by limiting the amount of professional judgment in the assessment process.

Following are some specific data guidelines that we use:

Dissolved Oxygen (DO):

As it currently reads, DO levels below 5 mg/L in a stream that is not a trout stream are considered to be violations of water quality standards. Lakes are a bit more complicated in that the criteria specify water column depths where the standards appropriately apply.

However, as a further complication of interpretation, the criteria also suggest that natural conditions may effect DO levels and that these natural conditions should not be considered pollution. For example, ground water is low in DO, so violations at a spring might be considered a natural condition.

Through our studies at reference streams, we know that DO levels at least-impacted streams vary regionally. For example, in the Mississippi River delta region of west Tennessee, the DO criteria of 5 is rarely met, even at reference streams. In other regions, reference stream DO levels never fall anywhere close to 5 mg/L.

In the 2002 303(d) List, we have attempted to incorporate some of this new knowledge into our assessment efforts.

Where violations of the DO criteria occur in a stream that has a biological community similar to reference streams, the criteria give us the flexibility to not assess that stream as impacted.

Toxic Substances with Numeric Criteria (such as metals)**:**

- Streams are generally not assessed with only one or two observations. (One or two observations are not considered to accurately represent stream conditions.)

  However, it should be noted that if a stream were already listed for the specific substance, or if the exceedence(s) of the acute criterion was substantial, the stream could remain listed, or be considered for listing.

- Acute fish and aquatic life protection criteria were used instead of chronic criteria (unless the site had enough chemical observations to justify. 12+)

- All metals data are appropriately "translated" according to the water quality standards before comparison to criteria. (The toxicity of metals is altered by stream hardness and the amount of total suspended solids in the stream. There are widely accepted methodologies to make these and other corrections.)

Chemical Parameters without Narrative Criteria (primarily organic enrichment):

Organic enrichment is a condition caused by excessive nutrients or other organic materials that has an effect on aquatic resources. In some settings, this effect may be small. Under other circumstances, the effects can be substantial and produce the condition of pollution. Because organic enrichment can lead to impairment in streams and lakes, EPA has identified it as an appropriate assessment cause category for 303(d) listings.

Clearly, there is much overlap between organic enrichment and excessive nutrients and some consider them to be synonymous. In the 2002 303(d) List, for streams where impairment was indicated, the Division identified nutrients as being the cause if chemical data were available that indicated that nitrate+nitrite or total phosphorus levels were elevated.

However, organic enrichment was used as the cause if the loading was considered due to the introduction of BOD to the stream or if data were not available to document that nitrate+nitrite or total phosphorus levels were elevated.

Chemical Parameters with Narrative Criteria (such as nutrients or suspended solids):

- No streams are assessed with only one or two observations unless a biological impairment is observed. (For example, the biology of a stream is very poor and the type of aquatic insects and the amount of algae present indicates excessive nutrients. In this case, one or two observations could be used to pin down a suspected cause of observed impacts.)

- For suspended solids, impacts can often be detected in the habitat assessment. If grab samples have been collected, in-stream values can be compared to the reference stream database for the region. Those that exceed the 90th percentile are considered impacted. (Note: this procedure is only used for streams comparable to reference streams. Additionally, rain event samples are considered outliers and while not disregarded, are given less weight.)

- Specifically for nutrients, the regional goals identified in the Division publication *Development of Regionally-based Interpretations of Tennessee's Narrative Nutrient Criterion* were used. Consistent with the implementation guidance provided in that report, streams were generally not assessed as impacted by nutrients unless some evidence of biological or aesthetic impacts were also documented.

pH:

The current pH criterion is a range between 6.5 – 9.0. As was true with dissolved oxygen, we know through our studies at reference streams, that pH levels at least-impacted streams vary regionally. In certain regions, reference streams with excellent biological communities have frequent and persistent violations of the pH criterion.

However, as a complicating factor, metals toxicity increases as acidity increases in a stream. In many streams assessed as impacted by acidity, it is difficult to discern whether the harm was caused by the reduced pH or the resultant metals toxicity, especially in previously mined areas.

As with application of the DO criteria, where violations of the pH criterion occur in a stream that has a biological community similar to reference streams, the criteria give us the flexibility to not assess that stream as impacted.

We are considering revisions to our water quality criteria to incorporate what we have learned about pH and DO levels at reference streams.

Bacteriological

- Streams are generally not assessed with only one or two observations. (An exception would be streams that are already posted due to elevated bacteria levels.)

- E. coli data are generally given more weight than fecal coliform data.

- Wet weather sampling data are given less weight than dry weather sampling, if flow data are available. In the absence of flow data, samples collected during the winter and spring seasons are considered wet weather samples. It is important to note that wet weather pathogen samples are not disregarded, simply given less weight.

Biological Data

- Biological surveys are the preferred method for assessing support of the fish and aquatic life designated use. We use standardized biological methods that produce a biological score, sometimes called an index. The results of these indices in test streams can then be compared to the reference condition for that region.

  In 2002, the Department published a document entitled *Quality System Standard Operating Procedure for Macroinvertebrate Stream Surveys*. The guidance formalized in the SOP document stipulated monitoring techniques for the two types of biological surveys used by the Division: the biorecon and the semi-quantitative single habitat survey. The SOP also provides guidance on the assessment of habitat.

- In conjunction with the 2002 triennial review of water quality standards, the Division has proposed a set of biocriteria derived from the study of biological communities at reference streams. Tennessee's proposed biocriteria are based on a compilation of seven metrices specifically selected on the basis of how accurately they measure a component of the biological community. These regional goals were formalized in a document entitled *Development of Regionally-based Interpretations of Tennessee's Narrative Biological Integrity Criterion* and were used in the interpretation of biological data for the 303(d) Listing process.

  (Note: the stream being compared to the reference stream database and sampling techniques must be similar in order for this methodology to be valid.)

- Assessments for sites where both biorecons and semi-quantitative single habitat survey data were available were generally in agreement. At those sites where the results were not in agreement, data from the generally more accurate semi-quanitative surveys were given more weight.

- Where biological data from the Division and another agency are available on the same stream, more weight is given to the Division's data if they disagree, unless other agency data are more recent.

Habitat Data

- As established in the Department's SOP document for biological surveys, Division staff use a standardized scoring system developed by EPA to rate the habitat in a stream. Habitat scores calculated by Division biologists are compared to the ecoregion reference stream database. This habitat assessment process was formalized in a document entitled *Habitat Quality of Least-Impacted Streams in Tennessee.*

Streams where habitat scores do not meet the regional goals are considered impacted, but only if the documented biological integrity does not meet expectations.

Additionally, the goals developed by the Division can provide targets for habitat improvement within control strategies for 303(d) listed streams.

What Is the Division's Lakes Assessment Methodology?

During the last ten years, the Division has gone to considerable effort to develop methodologies to assess wadeable streams. Thanks to this work, we now have considerable expertise in assessing streams for habitat quality, biological integrity, and certain chemical characteristics.

Unfortunately, there is no parallel effort in lakes and the work done in streams cannot be translated to lakes for many reasons. Many factors complicate lakes assessment.

One factor is that most "lakes" in Tennessee are actually reservoirs. The impoundment of a stream has a dramatic effect on its water quality. Reservoirs are not natural systems, thus it is difficult if not impossible, to establish a reference condition.

Water quality may differ dramatically within reservoirs. For example, the embayments may be highly productive, but the main channel may not. The surface levels may have super-saturated oxygen levels, while the lower levels may be devoid of oxygen for months at a time.

The main problem in lakes (not caused by toxic materials) is overproductivity of biomass. This process will occur in any lake eventually, but is accelerated by nutrient loadings.

Tennessee does not currently have any numeric criteria specific to biomass in lakes. Considerable judgement must be used in the application of the existing narrative criteria. It is hoped that lakes criteria can be developed in the next few years with the help of EPA and other agencies with expertise in lake management issues.

On What Basis Can Waterbodies Be Removed From the 303(d) If They Were Listed In a Previous Version?

The 303(d) List is designed to be a flexible document that can be updated as new information becomes available. EPA must approve revisions to the document and has identified several acceptable reasons for removing a stream from the 303(d) List:

The stream was listed in error originally. An example of this might be if a water quality standard was improperly applied, such as the wrong hardness was used to calculate metals criteria.

The stream's status changes. A waterbody or a portion of a waterbody might be ruled a wet weather conveyance rather than a stream. (Different criteria apply to wet weather conveyances.)

Water quality standards change. The 303(d) is a compilation of streams that violate state water quality standards. If standards change through the triennial review process, the list can be adjusted.

The stream has improved. If the quality of the stream improves and no longer violates the parameter(s) of concern, the stream can be removed from the List. Documentation of the improvement is necessary.

A TMDL has been developed and approved. If EPA has approved a TMDL for a specific pollutant on a stream, that parameter need not continue to be listed. (However, there is some confusion and uncertainty on this point, even among EPA staff.)

Appendix A contains a list of streams that were listed on the 1998 version of the 303(d) that are proposed for "delisting" in this version. The streams in Appendix A either improved in quality since 1998, or the applicable water quality standard has been revised.

Appendix B compiles the streams that are proposed for delisting on the basis that their status under the criteria has been reconsidered.

Appendix C contains a list of the parameters at specific streams where EPA has approved a TMDL. However, inclusion of stream segments in Appendix C should not be seen as implying that water quality standards are now being met simply because a TMDL has been approved.

Did the Division Use All "Readily Available Data" In the Water Quality Assessment Process?

The Division utilized its own water quality data, plus that collected by other agencies and entities in Tennessee.

EPA's STORET database was utilized as a primary source of water quality data. Additionally, the Tennessee Valley Authority, the U.S. Army Corps of Engineers, the U.S Geological Survey, and the Office of Surface Mining were contacted directly as none of these agencies currently use STORET.

In December of 1999, the Division issued a public notice informing Tennesseans that a statewide water quality assessment would be performed in 2000. The notice requested the submittal of water quality data. Unlike previous years, significant amounts of data were submitted. Submittals included data from volunteer monitoring groups.

Are There Any Data Sources That the Division Chose To Not Use in the Assessment Process?

No. We used all the data that were submitted. However, it should be noted that not all data submitted were used to independently list streams as impacted. Where questions about sampling techniques or analysis methodologies could not be easily resolved, submitted data were used to screen streams for future studies.

We were especially pleased that a number of organizations submitted data that they characterized as being collected by citizen volunteers. A list of these data contributing organizations appears on the next page. Those that could be characterized as citizen groups are identified.

During the review process for the draft 303(d), if additional water quality data are brought to our attention, we will be happy to factor them into our final decision concerning the status of a stream. We would be happy to meet with individuals or groups to discuss assessment decisions.

DATA SUBMITTED TO THE DIVISION FOR CONSIDERATION IN THE 2002 303(d) ASSESSMENT PROCESS

AGENCY	STREAM NAME	PHYS DATA	BENTH DATA	CHEM DATA	BACT DATA	Comments
AUSTIN PEAY STATE UNIVERSITY	Carr Creek				X	Letter – four years of fecal coliform data - 96, 97, 00, 01. Four sampling sites, sampled in summer and fall.
BOONE WATERSHED PARTNERSHIP	Buffalo Creek			X	X	Volunteer monitoring by students. Phosphates, nitrates, and fecal coliform levels sampled and appear elevated. Added to division's monitoring schedule for 2002.
BROWN AND CALDWELL	Conasauga Creek	X	X			Stream study by consultant. One site above discharge - two sites below discharge.
CITY OF COOKEVILLE	Pigeon Roost Creek	X	X	X	X	Samples collected above and below Cookeville STP. DO, TOC, chlorophyll a, total phosphorus, total nitrogen, & BOD. Benthic studies by Tennessee Tech. Multiple stations sampled, raw data sheets in file. Cookeville requests that the stream be delisted.
CITY OF KINGSPORT	Reedy Creek					No data, just letter and comments about flow, sediments in Reedy Creek
CIVIL AND ENVIRONMENTAL CONSULTANTS.	Arkansas Creek	X	X			Consultant for Williamson County landfill. Benthic report, plus fish population data. County requests that Arkansas Creek be removed from 303(d) list based on improved biological community. Report in file. Division biorecon confirms findings.
CORP OF ENGINEERS	Various Waterbodies		X	X		Chemical data from Barkley, Cheatham, Cordell Hull, Dale Hollow, Old Hickory data sheets in file. Benthic invertebrate survey results from certain tributaries.
GARNER LAKE ASSOCIATION	Garner Lake	X		X		Data from six stations-collected by lake association. No action requested. Called Lakeland Lake on gazetteer.
HARPETH RIVER WATERSHED ASSOCIATION AND CUMBERLAND RIVER COMPACT	Harpeth River	X				Volunteer monitoring of turbidity at multiple sites. Measurements made with a turbidity tube.

DATA SUBMITTED TO DIVISION FOR CONSIDERATION IN 2002 303(d) ASSESSMENT PROCESS (cont.)

AGENCY	STREAM NAME	PHYS DATA	BENTH DATA	CHEM DATA	BACT DATA	COMMENTS
J.R. WAUFORD AND COMPANY	South Fork of the Forked Deer River	X		X	X	Samples collected in South Fork Forked Deer River at State Route 54. Parameters sampled: fecal coliform, pH, DO, temperature, nitrate/nitrite, ammonia, total phosphorus, total suspended solids, settleable solids. Raw data sheets in file.
METRO NASHVILLE	Cumberland River and tribs in the Nashville area.		X	X	X	Nashville area streams on 303(d) list sampled for fecal coliform - Cumberland (Omohundro & Briley), Browns Ck, Cooper Ck, Dry Ck, Hamilton Ck, Mansker Ck, McCrory Ck, Pages Br, Richland Ck, Stoners Ck, & Whites Ck.
U.S. OFFICE OF SURFACE MINING	Various Waterbodies	X		X		Data from mining areas of Tennessee. Three databases provided. Historic data going back to 1988.
TENNESSEE SCENIC RIVERS ASSOCIATION	Duck River and tribs.		X	X		Biorecon results (to order) from multiple streams in the Duck River watershed.
TENNESSEE VALLEY AUTHORITY	Various Waterbodies		X			Biorecon results, fecal coliform data from swimming areas, chemical, fish population and fish tissue data from multiple streams in the Tennessee valley.
TIMS FORD COUNCIL	Tims Ford Lake	X		X		Lake association monitoring for fecal coliform at 9 stations in-lake stations. Additionally, pH, temp, depth, fecal, oxygen, nitrate, & turbidity collected from 10/01 - 12/01.
USGS	Various Waterbodies		X	X		Water quality data collected throughout Tennessee. Biological surveys at multiple stations.
UNIVERSITY OF TENNESSEE	Pond Creek Mud Creek Greasy Creek Crooked Fork Flat Creek	X		X		Fecal coliform and nutrient data collected by UT students at multiple sites in the Pond Creek and Crooked Fork watersheds. Samples split with Division. Data from Pond Creek used to continue listing of stream for nutrients and to add pathogens to listing.

What Is the Watershed Cycle?

In 1996, the Division of Water Pollution Control restructured monitoring and permitting activities on a rotating watershed basis. Each watershed will be examined on a five-year cycle as illustrated by the map on the next page.

A typical cycle will generally include:

Year 1 Hold planning meetings with "stakeholders". Stakeholders include citizens, environmental groups, other governmental agencies, municipalities, industries, and other interested parties. Develop a monitoring plan.

Year 2 Collect water quality data.

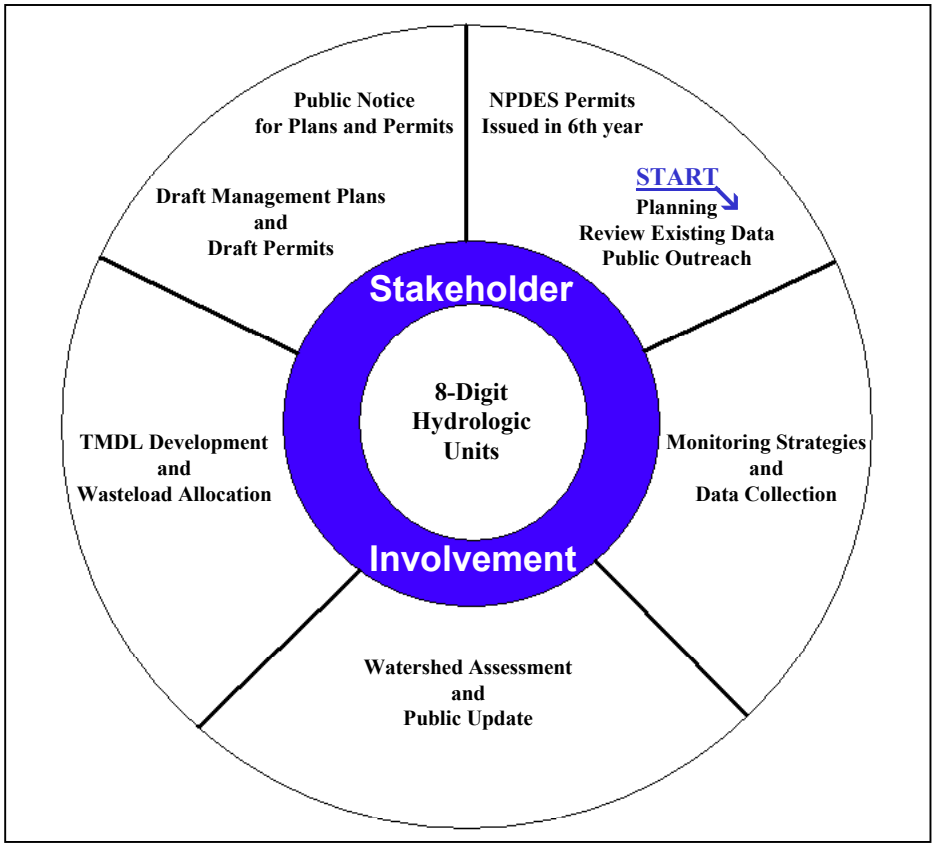
Year 3 Collect water quality data.

Year 4 Water quality assessment activities. Perform modeling and TMDL generation.

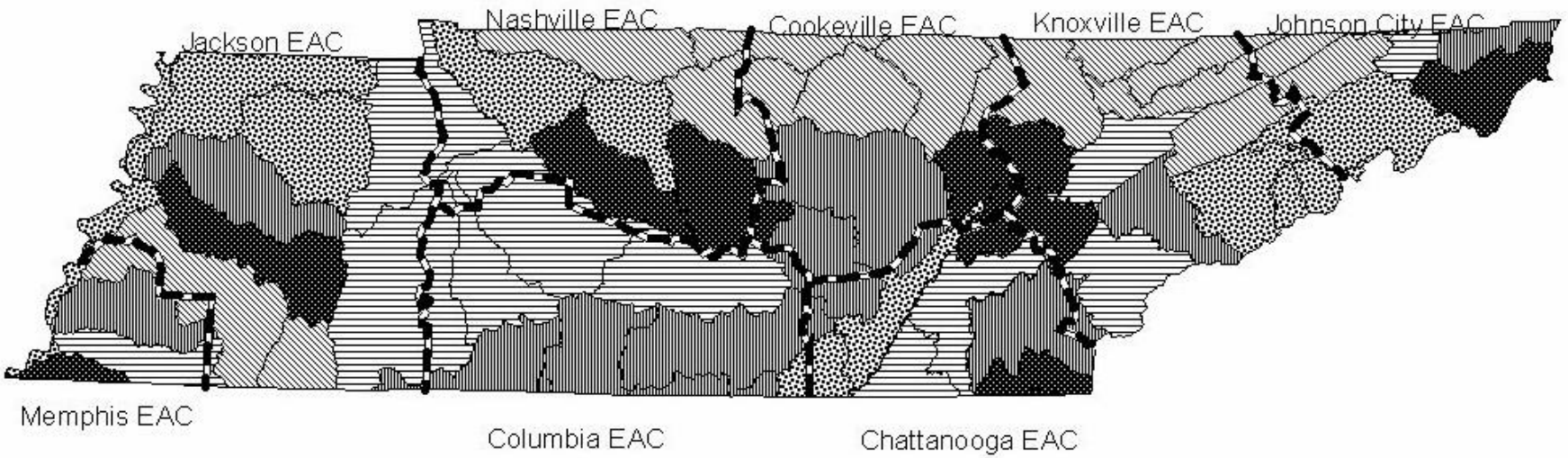
Year 5 Publish a watershed plan, which includes the proposed actions to be taken to insure that water quality standards will be met. Issue draft NPDES permits and hold public hearings.

Year 6 Issue final permits after comments have been addressed. Begin cycle again in sixth year.

Stream inventoried on the 303(d() List as violating one or more water quality standards must be scheduled, on some priority basis, to have a TMDL developed to assist in the identification of control strategies.



Tennessee Watershed Management Approach



Group 1 (1996)

Group 2 (1997)

Group 3 (1998)

Group 4 (1999)

Group 5 (2000)

EAC Boundary

What Is a TMDL?

A Total Maximum Daily Load (TMDL) is a study that (1) quantifies the amount of a pollutant in a stream, (2) identifies the sources of the pollutant, (3) and recommends regulatory or other actions that may need to be taken in order for the stream to no longer be polluted. Following are actions that might be recommended:

- Re-allocate limits on the sources of pollutants documented as impacting streams. It might be necessary to lower the amount of pollutants being discharged under NPDES permits or to require the installation of other control measures, if necessary, to insure that standards will be met.

- For sources the Division does not have regulatory authority over, such as ordinary agricultural and forestry activities, provide information and technical assistance to other state and federal agencies that work directly with these groups to install appropriate BMPs.

Even for impacted streams on the 303(d) List, TMDL development is **not** considered appropriate for all bodies of water. Additionally, in cases involving pollution sources in other states, the recommendation may be that another state or EPA develop the TMDL.

How Are the TMDLs Prioritized?

Tennessee's TMDL prioritization schedule has been based on a 1998 agreement between EPA and the Department. Under this schedule, the Department committed to the development of all TMDLs for 303(d) listed streams by the year 2011. For its part, EPA committed to provide better guidance and new tools for TMDL generation. Appendix E contains a copy of this agreement.

A few years later, the same schedule was formalized by being included as part of a Consent Decree between EPA and environmental groups. Thus, for the next two years, the Division has decided to base its TMDL priority for each body of water on the 303(d) List based on the agreement reached with EPA.

How Did Citizens Participate in this Process?

In order to hear comments specific to the 2000 303(d) List, the Division scheduled a series of public hearings in August and September. The list of these meetings appears on the next page.

Attendance at the meetings was excellent and many were also attended by the media. A significant number of attendees elected to make verbal comments about the draft. Additionally, numerous agencies and individuals submitted written comments.

As a separate document, the Division prepared a formal response to all comments received concerning the 2002 303(d) List. Responses have not been prepared for verbal or written comments outside the scope of the 303(d) process. (However, at the public meetings, we attempted to answer questions even if not directly related to the 303(d) process.)

Our responses indicated whether or not revisions were made based on the specific comment received. If a comment did not result in a revision, we have explained our rationale for not doing so.

After revisions have been made to the document, it will be formally submitted to the Environmental Protection Agency for approval. EPA has targeted October 1 as the goals for finalizing state 303(d) Lists. If the comments of citizens are not resolved to their satisfaction by the Division, concerns can be directed to EPA staff in Atlanta.

2002 303(d) List Public Meeting Schedule

WATERSHED	DATE	LOCATION	LOCAL TIME
Benton*	August 5, 2002	3rd Floor Courtroom Benton County Courthouse, Benton	7:00 pm
Murfreesboro*	August 8, 2002	Auditorium, Fleming Training Center 2022 Blanton Avenue, Murfreesboro	7:00 pm
Kingston*	August 12, 2002	Kingston Community Center 201 Patton Ferry Road, Kingston	7:00 pm
Elizabethton*	August 13, 2002	Sycamore Shoals State Park 1651 West Elk Avenue, Elizabethton	7:00 pm
Jackson*	August 19, 2002	Energy Authority Training Center 604b South Royal, Jackson	5:00 pm
Memphis*	August 20, 2002	Memphis EAC Suite E-645 Perimeter Park 2510 Mount Moriah Road, Memphis	7:00 pm
Nashville	August 22, 2002	Ruth Neff Conference Room 17st Floor, L & C Tower 401 Church Street, Nashville	1:00 pm
Cookeville	August 22, 2002	Auditorium, Room 128 Penny Baker Hall Tennessee Tech Campus, Cookeville	7:00 pm
Franklin*	August 27, 2002	Auditorium, Williamson County Administrative Complex 100 West Main Street, Franklin	7:00 pm
Wartburg*	August 29, 2002	Morgan County Courthouse South Kingston and Main Streets, Wartburg	7:00 pm
Knoxville	September 3, 2002	Goins Building Auditorium Pellissippi State Community College Pellissippi Parkway, Knoxville	7:00 pm
Kingsport	September 4, 2002	Conference Room, Kingsport Public Library 400 Broad Street, Kingsport	2:00 pm
Chattanooga (afternoon and evening)	September 5, 2002	1st Floor Conference Room State Office Building 540 McCallie Ave, Chattanooga	2:00 pm & 7:00 pm

* Also Group I watershed assessment meeting.

Key to 303(d) List

WATERBODY ID

In 1988, the Division divided the state's waters into "waterbodies" and created a database of information about each. Each waterbody has an ID based on EPA's River Reach System. The first eight digits of the ID (after TN) are the USGS HUC Code number. The next four digits are the segment number assigned to each stream section for the Assessment Database (ADB). There is also a GIS coverage for listed streams.

The 303(d) List is sorted in hydrologic order within each major watershed basin. The NRCS watershed number for the segment is available through the ADB.

WATERBODY

The name of the main body of water within the waterbody is provided as **NAME.**

COUNTY

The county or counties where the waterbody is located.

PARTIAL

If the stream is considered partially supporting designated uses, the number of impacted miles (according to Reachfile 3) are shown in this column. Lake acres are listed as "ac".

NOT

If the stream is considered not supporting designated uses, the number of impacted miles (according to Reachfile 3) are shown in this column. Lake acres are listed as "ac".

CAUSE

The pollutant or pollutants exceeding water quality standards is identified.

SOURCE

The general source of each pollutant exceeding water quality standards within the waterbody is identified. (For both causes and sources, the Division uses categories provided by EPA in order to be consistent with language used by other states.)

TMDL Priorities

It should be noted that TMDL priorities are parameter specific and methodologies have not yet been developed for all substances or conditions. Thus a stream that has multiple causes of impairment may be high priority for one cause, but low priority for another.

HIGH (H) Tools are available to produce the TMDL and the stream is in one of the watersheds being studied in the next two years. The TMDL will be produced in the next two years.

MEDIUM (M) Tools are available to produce the TMDL, but the stream is not in a watershed being studied in the next two years. TMDL will be produced in the next five years.

LOW (L) Tools are not currently available to produce the TMDL and the stream is not in the watershed being studied in the next two years. TMDL will be produced in the next twelve years.

A note about the use of organic enrichment as a cause of impairment:

Organic enrichment is a condition caused by excessive nutrients or other organic materials that has an effect on aquatic resources. Under certain circumstances, the effect can be substantial and can produce the condition of pollution. Because organic enrichment can lead to impairment in streams and lakes, EPA has identified it as an appropriate assessment cause category for 303(d) listings. Assignment of organic enrichment as a cause of stream impairment should not be taken to mean that Tennessee has a water quality criteria specific to this condition. However, Tennessee does have water quality criteria for nutrients, loss of biological integrity, habitat alterations and other effects of enrichment.

Final Version - YEAR 2002 303(d) LIST FOR THE STATE OF TENNESSEE

Barren River Watershed

This small basin is USGS Hydrologic Unit Code 05110002 and flows into Kentucky as part of the Barren River watershed.

Waterbody ID	**Impacted Waterbody**	**County**	**Partial**	**Not**	**CAUSE / TMDL Priority**	**Pollutant Source**	**COMMENTS**
TN05110002 008 - 0600	DONAHO BRANCH	Sumner		3	Nitrate M Other Habitat Alterations M Pathogens M	Collection System Failure Urban Runoff/Storm Sewer Channelization	
TN05110002 010 - 0500	LITTLE TRAMMEL CREEK	Sumner		11.0	Chlorine L Nutrients M Organic Enrichment M Pathogens M	Minor Municipal Point Source	
TN05110002 027 - 0421	TOWN CREEK	Macon		3.7	Unionized Ammonia M Nutrients M Organic Enrichment/Low DO M Pathogens M	Minor Municipal Point Source Urban Runoff/Storm Sewers	
TN05110002 CTYLKPO	CITY LAKE PORTLAND	Sumner	34 ac		Siltation L Organic Enrichment/Low DO L Taste & odor L	Urban Runoff/Storm Sewers Animal Feeding Area	
TN05110002 CITYLKW	CITY LAKE WESTMORELAND	Sumner	11.0 ac		Nutrients L Organic Enrichment/Low DO L Taste & odor L	Pastureland Urban Runoff/Storm Sewers	

Upper Cumberland Basin

This basin contains the following USGS Hydrologic Unit Codes: 05130101 (Clear Creek) and 05130104 (South Fork Cumberland).

Waterbody ID	**Impacted Waterbody**	**County**	**Partial**	**Not**	**CAUSE (Pollutant)**	**Pollutant Source**	**COMMENTS**
TN05130101 016 - 0100	WHITE OAK CREEK	Campbell	6.7		Siltation L	Undetermined Source	
TN05130101 091 - 1000	ELK FORK CREEK	Campbell	3.9		Siltation L Other Habitat Alterations L	Abandoned Mining	This stream provides habitat for a federally listed fish, blackside dace (Phoxinus cumberlandensis).
TN05130104 044 - 0500	STRAIGHT FORK CREEK	Scott	25.4		pH L Other Habitat Alterations L	Resource Extraction Habitat Modification	
TN05130104 048 - 0200	NORTH FORK PINE CREEK	Scott		1.5	Pathogens H	Septic Tanks	Water contact advisory.
TN05130104 048 - 0300	LITTON FORK PINE CREEK	Scott		2.5	Pathogens H	Collection System Failure Septic Tanks	Water contact advisory.

Final 2002 303(d) LIST (Upper Cumberland Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130104 048 - 0400	EAST FORK PINE CREEK	Scott		2.8	Pathogens	H	Collection System Failure Septic Tanks	Water contact advisory.
TN05130104 048 - 0410	UNNAMED TRIB TO EAST FORK PINE CREEK	Scott		2.4	Pathogens	H	Collection System Failure Septic Tanks	Water contact advisory.
TN05130104 048 - 0500	SOUTH FORK PINE CREEK	Scott		1.7	Pathogens	H	Collection System Failure Septic Tanks	Water contact advisory.
TN05130104 048 - 1000	PINE CREEK	Scott		3.2	Pathogens	H	Minor Municipal Point Source Collection System Failure	Water contact advisory.
TN05130104 048 - 2000	PINE CREEK	Scott		4.1	Priority organics Nutrients Siltation Low DO Other Habitat Alterations Pathogens	L M M M M H	Minor Municipal Point Source Collection System Failure Septic Tanks Channelization Contaminated sediments	Water contact advisory due to failing septic tanks. Superfund site source of organics in sediment.
TN05130104 048 - 3000	PINE CREEK	Scott		3.0	Priority organics Siltation Organic Enrichment/Low DO Other Habitat Alterations Pathogens	L M M M H	Collection System Failure Septic Tanks Channelization Contaminated sediments	Water contact advisory due to failing septic tanks. Superfund site source of organics.
TN05130104 050 - 0100	EAST BRANCH BEAR CREEK	Scott		5.7	Iron pH Siltation	L L L	Abandoned Mining	
TN05130104 050 - 1000	BEAR CREEK	Scott		2.6	pH Siltation	L L	Abandoned Mining	
TN05130104 051 - 1000	ROARING PAUNCH CREEK	Scott	17.9		Siltation	L	Petroleum Activities	
TN05130104 PKTLK	PICKETT LAKE	Pickett	5.0 ac		Organic enrichment/DO pH Noxious aquatic plants	L L L	Hydrologic Modification	

Obey River Watershed

This basin contains the following USGS Hydrologic Unit Codes: 05130105 (Obey River)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Prioirty		Pollutant Source	COMMENTS
TN05130105 001 - 1000	OBEY RIVER	Clay	6.8		Low DO Flow Alteration	L L	Upstream Impoundment	Impacted by poor quality Dale Hollow Reservoir releases.
TN05130105 015 - 0300	CUB CREEK	Overton		7.2	Manganese Iron pH	L L L	Abandoned Mining	
TN05130105 015 - 2000	WEST FORK OBEY RIVER	Overton	13.1		Metals pH Siltation	L L L	Abandoned Mining	
TN05130105 019 - 0300	ROCKCASTLE CREEK	Fentress		8.9	Organic Enrichment/Low DO Thermal Modifications Pathogens	L L L	Minor Municipal Point Source Urban Runoff/Storm Sewers	
TN05130105 019 - 0750	MEADOW CREEK	Cumberland		1.4	Organic Enrichment/Low DO	L	Industrial Permitted Runoff	
TN05130105 019 - 1100	BIG LAUREL CREEK	Fentress Overton		9.2	Iron pH	L L	Abandoned Mining	
TN05130105 019 - 1110	LITTLE LAUREL CREEK	Fentress Overton		3.6	Iron pH	L L	Abandoned Mining	
TN05130105 019 - 1200	BIG PINEY CREEK	Fentress Overton	18.6		pH Siltation	L L	Resource Extraction	
TN05130105 019 - 2000	EAST FORK OBEY RIVER	Fentress Overton		22.6	Metals pH Siltation	L L L	Resource Extraction	
TN05130105 019 - 3000	EAST FORK OBEY RIVER	Putnam Overton	11.1		Metals pH Siltation	L L L	Resource Extraction	
TN05130105 033 - 1400	TOWN BRANCH	Pickett		3.1	Nutrients Siltation Pathogens	L L L	Minor Municipal Point Source Sludge Undetermined Source	Byrdstown area.

Cordell Hull Watershed

This basin contains the following USGS Hydrologic Unit Codes: 05130106 (Cordell Hull Lake).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130106 007-0700	CARR CREEK	Overton	4.5		Organic Enrichment/Low DO Pathogens	L L	Collection System Failure Urban Runoff/Storm Sewers	
TN05130106 007-0710	TOWN CREEK	Overton	6.2		Organic Enrichment/Low DO Pathogens	L L	Collection System Failure Urban Runoff/Storm Sewers	

Collins River Watershed

This basin contains the following USGS Hydrologic Unit Codes: 05130107 (Collins River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130107 016 – 0150	SAVAGE CREEK	Grundy Sequatchie	22.1		Unknown Toxicity	L	Undetermined Source	Upper portion of Savage Creek is impacted.
TN05130107 016 – 0710	RANGER CREEK	Grundy	18.3		pH Iron	L L	Abandoned Mining	
TN05130107 016 – 0730	FIRESCALD CREEK	Grundy	14.3		Flow Alteration	L	Upstream Impoundment	This stream was a reference stream at one time, but an upstream impoundment impacted the biological community.
TN05130107 016 – 2000	COLLINS RIVER	Grundy	5.8		PH Manganese Iron	L L L	Abandoned Mining	Upper Collins River is impacted.
TN05130107 023 – 2000	DRY CREEK	Warren Sequatchie		40.8	Sulfates pH Manganese Iron	M M M M	Resource Extraction	Upper section impacted by mining in the headwaters.

Caney Fork River Watershed

This basin contains the following USGS Hydrologic Unit Codes: 05130108 (Caney Fork River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130108 001 – 0100	SNOW CREEK	Smith	7.6		Siltation Other Habitat Alterations	H H	Pasture Grazing Removal of Riparian Vegetation	
TN05130108 001 – 0200	FERGUSON BRANCH	Smith	5.8		Siltation Other Habitat Alterations H	H	Removal of Riparian Vegetation	
TN05130108 001 – 0400	ROCK SPRINGS BRANCH	Putnam	8.1		Siltation Other Habitat Alterations	H H	Livestock in Stream Removal of Riparian Vegetation	
TN05130108 002 – 2000	HICKMAN CREEK	Smith DeKalb	22.2		Organic Enrichment/Low DO Other Habitat Alterations	H H	Minor Municipal Point Source Grazing Related Sources	

Final 2002 303(d) LIST (Caney Fork River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130108 012 – 1000	CANEY FORK RIVER	Smith DeKalb	6.4		Low DO Flow alteration Thermal modification	L L L	Upstream impoundment (Center Hill Reservoir)	This section provides habitat for the following listed mussels: Oyster mussel (E. capsaeformis), Cumberland combshell (E. brevidens), Pink mucket pearly mussel (Lampsilis abrupta), Dromedary pearly mussel (Dromus dromus), Fanshell (Cyprogenia stegarias), Clubshell (Pleurobema clava), Cumberland bean (Villosa trabalis).
TN05130108 024 –1000	ROCKY RIVER	Van Buren Warren	8.7		Siltation	H	Hwy/Road/Bridge Construction	
TN05130108 024 – 4000	ROCKY RIVER	Van Buren Warren		17.0	pH Manganese	H H	Abandoned Mining Inactive Mining	Upper Rocky River provides habitat for the federally listed fish, slender chub (Erimystax cahni).
TN05130108 025 – 0400	HICKORY VALLEY BRANCH	White	8.2		Organic Enrichment/Low DO Other Habitat Alterations	H H	Pasture Grazing Removal of Riparian Vegetation	
TN05130108 025 – 1000	CANEY FORK RIVER	DeKalb White	1.4		Flow Alteration	L	Upstream Impoundment	Section of Caney Fork de-watered by Great Falls Reservoir.
TN05130108 027 – 0300	GARDNER CREEK	Bledsoe	3.1		Manganese	L	Abandoned mining	
TN05130108 027 – 0600	FALL CREEK	Van Buren	0.5		Flow Alteration Other Habitat Alteration Iron	L L L	Upstream Impoundment	Iron precipitated out of lake coats substrate and causes orange waterfall.
TN05130108 027 – 0700	PINEY CREEK	Van Buren	28.8		Metals pH Other Habitat Alteration	M M L	Abandoned Mining	
TN05130108 027 – 0850	DRY FORK	Van Buren		16.7	Metals pH Other Habitat Alteration	H H L	Abandoned Mining	Upper portion of watershed is impacted.
TN05130108 033 – 0310	BRADDEN CREEK	Bledsoe		10.7	Organic Enrichment/Low DO Other Habitat Alterations	M L	Pasture Grazing Removal of Riparian Vegetation	

Final 2002 303(d) LIST (Caney Fork River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130108 033 – 1000	BEE CREEK	Van Buren White	17.5		Siltation Other Habitat Alterations	H H	Crop Related Sources Bank Modification/Destabilization	
TN05130108 036 – 0100	CLIFTY CREEK	White		21.4	pH Iron	L L	Abandoned Mining	
TN05130108 036 – 0810	FLYN CREEK	Cumberland	2.8		Siltation	L	Source Undetermined	
TN05130108 036 – 0900	PUNCHEONCAMP CREEK	Cumberland	12.8		pH	H	Abandoned Mining	
TN05130108 036 – 3000	UNNAMED TRIB TO CANEY FORK RIVER	Cumberland	3.5		Other Habitat Alterations	H	Livestock in Stream Upstream Impoundment	
TN05130108 043 – 0300	BLUE SPRING CREEK	White	10.1		Siltation	H	Bank Modification/Destabilization	
TN05130108 045 – 0150	CANE CREEK	Putnam	12.0		Other Habitat Alterations	H	Livestock in Stream Removal of Riparian Vegetation	
TN05130108 045 – 0300	HUDGENS CREEK	Putnam	6.7		Other Habitat Alterations	H	Urban Runoff/Storm Sewers Hydromodification	
TN05130108 045 – 0400	PIGEON ROOST CREEK	Putnam		2.4	Nutrients Other Habitat Alterations Pathogens	M M M	Major Municipal Point Source Urban Runoff/Storm Sewers Hydromodification	
TN05130108 045 – 0450	PIGEON ROOST CREEK	Putnam	3.2		Nutrients Other Habitat Alterations Pathogens	M M M	Urban Runoff/Storm Sewers Hydromodification	
TN05130108 045 – 0500	POST OAK CREEK	White	8.3		Siltation Other Habitat Alterations	H H	Grazing Related Sources Removal of Riparian Vegetation	
TN05130108 045 – 1000	FALLING WATER RIVER	Putnam White	8.8		Siltation	H	Agriculture	
TN05130108 045 – 3000	FALLING WATER RIVER	Putnam	11.2		Organic Enrichment/Low DO	M	Minor Municipal Point Source	
TN05130108 048 – 1000	INDIAN CREEK	Putnam	31.0		Siltation Other Habitat Alterations	H H	Dredging (gravel) Highway Maintenance / Runoff	
TN05130108 097 – 2000	MINE LICK CREEK	Putnam		3.4	Pathogens Organic Enrichment/Low DO	L M	Minor Municipal Point Source	Water contact advisory due to impacts from Baxter STP overflows.
TN05130108 684 – 1000	FALL CREEK	DeKalb		9.8	Siltation Organic Enrichment/Low DO Pathogens Other Habitat Alterations	L L L L	Major Municipal Point Source Upstream Impoundment	
TN05130108 684 – 2000	FALL CREEK	DeKalb	6.7		Other Habitat Alterations	L	Urban Runoff/Storm Sewers Hydromodification Removal of Riparian Vegetation	

Old Hickory Watershed

This basin contains the following USGS Hydrologic Unit Codes: 05130201 (Old Hickory Lake).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130201 001T-0200	TOWN CREEK	Sumner	12.1		Siltation Other Habitat Alterations	L L	Urban Runoff/Storm Sewers Hydromodification	Gallatin area impacts.
TN05130201 001T-1400	SPENCER CREEK	Wilson	11.6		Nutrients Pathogens	L L	Pasture Grazing	
TN05130201 011-0100	NORTH FORK CEDAR CREEK	Wilson	4.2		Siltation Other Habitat Alteration	L L	Highway Construction Land Development	
TN05130201 011-0200	MIDDLE FORK CEDAR CREEK	Wilson	4.3		Siltation Other Habitat Alteration	L L	Highway Construction Land Development	
TN05130201 011-0400	WILSON CREEK	Wilson	8.1		Siltation Other Habitat Alteration	L L	Highway Construction Land Development	
TN05130201 013-4000	SPRING CREEK	Wilson	9.0		Pathogens	L	Pasture Grazing Livestock in Stream	
TN05130201 015-0200	JOHNSON BRANCH	Wilson	7.6		Pathogens	L	Pasture Grazing	
TN05130201 021-0300	NEAL BRANCH	Wilson	3.7		Phosphorus Siltation Pathogens	L L L	Livestock in Stream	
TN05130201 021-0400	BEECH LOG CREEK	Wilson	8.5		Phosphorus Siltation Pathogens	L L L	Pasture Grazing	
TN05130201 021-0600	BIG CANEY BRANCH	Wilson	6.3		Siltation Other Habitat Alteration	L L	Pasture Grazing	
TN05130201 021 – 2000	ROUND LICK CREEK	Smith Wilson	8.7		Nutrients Siltation Organic enrichment/Low DO Other Habitat Alteration Pathogens	L L L L L	Minor Municipal Point Source Pasture Grazing	Area impacts include Watertown STP.
TN05130201 021 – 3000	ROUND LICK CREEK	Wilson	8.8		Siltation Other Habitat Alteration	L L	Pasture Grazing	
TN05130201 028-0100	LITTLE GOOSE CREEK	Trousdale Macon	12.7		Other Habitat Alteration	L	Hydromodification	
TN05130201 055-0200	SINKING CREEK	Wilson		17.4	Other Habitat Alterations Pathogens	L L	Collection System Failure Pasture Grazing Urban Runoff/Storm Sewers	A portion of this stream in Lebanon was posted in 2001 due to leaking sewage from businesses. Problems being addressed.
TN05130201 055-1000	BARTONS CREEK	Wilson	16.9		Nitrate Siltation Pathogens	L L L	Collection System Failure Urban Runoff/Storm Sewers Land Development	

Cheatham Reservoir Watershed

This basin contains the following USGS Hydrologic Unit Code: 05130202 (Cheatham Lake)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130202 001 – 3000	CHEATHAM RESERVOIR Bordeaux Bridge to Woodland Street.	Davidson		994ac	Pathogens	L	Combined Sewer Overflows Major Municipal Wet Weather discharge Urban Runoff/Storm Sewer	Water contact advisory. Wet weather releases from Metro STP & collection system..
TN05130202 001T - 0100	UNNAMED TRIB TO CHEATHAM RES.	Cheatham	2.0		Siltation Other Habitat Alterations	L L	Urban Runoff/Storm Sewers	
TN05130202 007 – 0100	SIMS BRANCH	Davidson		1.5	Nutrients Organic Enrichment/Low DO Other Habitat Alteration Pathogens	M M L M	Urban Runoff/Storm Sewers Industrial Permitted Stormwater Hydromodification	Provides habitat for the federally listed Nashville crayfish (Orconectes shoupi).
TN05130202 007 – 0150	SIMS BRANCH	Davidson	1.4		Organic Enrichment/Low DO Other Habitat Alteration	L M	Urban Runoff/Storm Sewers Industrial Permitted Stormwater Hydromodification	
TN05130202 007 – 0300	FINLEY BRANCH	Davidson		1.2	Chlorine Pathogens	L M	Urban Runoff/Storm Sewers Major Industrial Point Source	
TN05130202 007 – 0600	COLLINS CREEK	Davidson	6.7		Siltation	L	Land Development	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 0700	TURKEY CREEK	Davidson	1.6		Siltation	L	Land Development	
TN05130202 007 – 0800	INDIAN CREEK	Davidson	5.7		Phosphorus	M	Land Development	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 0920	UNNAMED TRIB TO OWL CREEK	Williamson	1.6		Siltation Other Habitat Alterations	L L	Land Development	
TN05130202 007 – 1100	HOLT CREEK	Davidson	6.2		Siltation	L	Land Development	
TN05130202 007 – 1200	WHITTEMORE BRANCH	Davidson	2.9		Other Habitat Alterations	L	Urban Runoff/Storm Sewers	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 1300	SORGHUM BRANCH	Davidson	3.1		Siltation Other Habitat Alterations	L L	Urban Runoff/Storm Sewers	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 1400	SEVENMILE CREEK	Davidson		2.4	Nutrients Other Habitat Alteration Pathogens	M L M	Urban Runoff/Storm Sewers Hydromodification	Provides habitat for the federally listed Nashville crayfish (O. shoupi).

Final 2002 303(d) LIST (Cheatham Reservoir Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130202 007 – 1410	SHASTA BRANCH	Davidson		1.0	Pathogens	M	Urban Runoff/Storm Sewers	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 1450	SEVENMILE CREEK	Davidson	2.0		Nutrients Pathogens	M M	Urban Runoff/Storm Sewers Hydromodification	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 1500	PAVILLION BRANCH	Davidson	1.3		Pathogens	M	Urban Runoff/Storm Sewers	
TN05130202 007 – 1000	MILL CREEK	Davidson	3.5		Nutrients Siltation Organic Enrichment/Low DO	M L M	Collection System Failure Urban Runoff/Storm Sewers	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 2000	MILL CREEK	Davidson	4.0		Siltation Organic Enrichment/Low DO	L M	Collection System Failure Urban Runoff/Storm Sewers	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 3000	MILL CREEK	Davidson	5.9		Siltation Organic Enrichment/Low DO Pathogens	L M M	Collection System Failure Urban Runoff/Storm Sewers	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 007 – 5000	MILL CREEK	Davidson Williamson	8.1		Nutrients Siltation Organic Enrichment/Low DO	M L M	Minor Municipal Point Source Livestock in Stream	Provides habitat for the federally listed Nashville crayfish (O. shoupi).
TN05130202 010 – 0200	DRAKES BRANCH	Davidson	2.7		Pathogens	M	Collection System Failure	
TN05130202 010 – 0300	DRY FORK	Davidson	9.9		Pathogens	M	Undetermined Source	
TN05130202 010 – 0400	EARTHMAN FORK	Davidson	11.0		Pathogens	M	Undetermined Source	
TN05130202 010 – 0600	CUMMINGS BRANCH	Davidson	2.6		Pathogens	M	Livestock in Stream	
TN05130202 010 – 0700	LITTLE CREEK	Davidson	1.1		Siltation	L	Land Development	
TN05130202 010 – 0800	EWING CREEK	Davidson	17.6		Pathogens Other Habitat Alterations	M L	Urban Runoff/Storm Sewers Hydromodification	

Final 2002 303(d) LIST (Cheatham Reservoir Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130202 010 – 1000	WHITES CREEK	Davidson		2.9	Pathogens Organic Enrichment/Low DO	M L	Collection System Failure	Water contact advisory.
TN05130202 014 – 0400	NORTH FORK SYCAMORE CREEK	Robertson		15.4	Siltation Other Habitat Alterations	L L	Hydromodification	
TN05130202 023 – 0100	EAST FORK BROWN'S CREEK	Davidson		2.2	Nutrients Other Habitat Alterations Pathogens Oil and Grease	M L M L	Minor Industrial Point Source Urban Runoff/Storm Sewers Hydromodification	Impacted by spills and runoff from Radnor Yards.
TN05130202 023 – 0200	MIDDLE FORK BROWN'S CREEK	Davidson	3.5		Other Habitat Alterations	L	Land Development	
TN05130202 023 – 0300	WEST FORK BROWN'S CREEK	Davidson	3.6		Organic Enrichment/Low DO Pathogens	M M	Urban Runoff/Storm Sewers	
TN05130202 023 – 1000	BROWN'S CREEK	Davidson		0.2	Nutrients Organic Enrichment/Low DO Other Habitat Alterations Pathogens Oil and Grease	M M L M L	Minor Industrial Point Source Collection System Failure Urban Runoff/Storm Sewers Hydromodification	Water contact advisory.
TN05130202 023 – 2000	BROWN'S CREEK	Davidson		4.1	Nutrients Organic Enrichment/Low DO Other Habitat Alterations Pathogens Oil and Grease	M M L M L	Minor Industrial Point Source Urban Runoff/Storm Sewers Hydromodification	Water contact advisory.
TN05130202 027 – 1000	DRY CREEK	Davidson		0.5	Pathogens	M	Collection System Failure	Water contact advisory.
TN05130202 027 – 2000	DRY CREEK	Davidson	5.9		Other Habitat Alterations	L	Hydromodification	
TN05130202 202 – 1000	PAGES BRANCH	Davidson		0.6	Pathogens	M	Collection System Failure Urban Runoff/Storm Sewers	
TN05130202 202 – 2000	PAGES BRANCH	Davidson		4.5	Pathogens	M	Urban Runoff/Storm Sewers	
TN05130202 209 – 1000	COOPER CREEK	Davidson	3.9		Other Habitat Alterations Pathogens	L M	Urban Runoff/Storm Sewers	
TN05130202 211 – 1000	LOVES BRANCH	Davidson		2.0	Other Habitat Alterations	L	Hydromodification	
TN05130202 212 – 0100	NEELEYS BRANCH	Davidson	1.7		Pathogens	M	Urban Runoff/Storm Sewers	
TN05130202 212 – 1000	GIBSON CREEK	Davidson	3.7		Flow Alteration Other Habitat Alterations Pathogen	L L M	Urban Runoff/Storm Sewers Hydromodification	Stream baseflow captured by construction of sewer line in stream.
TN05130202 220 – 0100	LUMSLEY FORK	Davidson	4.7		Pathogens	M	Source Unknown	

Final 2002 303(d) LIST (Cheatham Reservoir Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130202 220 – 0200	WALKERS CREEK	Davidson	7.8		Pathogens	M	Source Unknown	
TN05130202 220 – 0210	BAKERS FORK CREEK	Davidson	7.5		Pathogens	M	Urban Runoff/Storm Sewers Industrial Permitted Runoff	Downstream of sludge composting facility.
TN05130202 220 – 0211	BAKERS SPRING RUN	Davidson		0.2	Nitrate Unionized Ammonia Pathogens	M M M	Urban Runoff/Storm Sewers Industrial Permitted Runoff	Downstream of sludge composting facility.
TN05130202 220 – 0300	SLATERS CREEK	Sumner	11.3		Siltation Pathogens	L M	Urban Runoff/Storm Sewers Bank Modification	
TN05130202 220 – 0400	MADISON CREEK	Sumner	14.4		Siltation	L	Land Development	
TN05130202 220 – 1000	MANSKERS CREEK	Davidson Sumner		7.9	Siltation Pathogens	L M	Urban Runoff/Storm Sewers Land Development	Water contact advisory.
TN05130202 220 – 2000	MANSKERS CREEK	Davidson Sumner	7.6		Siltation Pathogens	L M	Urban Runoff/Storm Sewers Land Development	
TN05130202 314 – 0100	UNNAMED TRIB TO RICHLAND CREEK	Davidson		1.1	Pathogens	M	Urban Runoff/Storm Sewers	Tributary near I-40.
TN05130202 314 – 0200	MURPHY ROAD BRANCH	Davidson		1.5	Pathogens	M	Urban Runoff/Storm Sewers	
TN05130202 314 – 0300	BOSLEY SPRINGS BRANCH	Davidson		1.5	Other Habitat Alterations Pathogens	L M	Urban Runoff/Storm Sewers Hydromodification	
TN05130202 314 – 0400	SUGARTREE CREEK	Davidson		4.3	Organic Enrichment/Low DO Other Habitat Alterations Pathogens	L L M	Urban Runoff/Storm Sewers Hydromodification	
TN05130202 314 – 0700	VAUGHNS GAP BRANCH	Davidson		0.6	Other Habitat Alterations Pathogens	L M	Collection System Failure Hydromodification	
TN05130202 314 – 0750	VAUGHNS GAP BRANCH	Davidson		1.9	Other Habitat Alterations Pathogens	L M	Urban Runoff/Storm Sewers Hydromodification	
TN05130202 314 – 0800	JOCELYN HOLLOW BRANCH	Davidson		2.0	Pathogens	M	Urban Runoff/Storm Sewers	
TN05130202 314 – 1000	RICHLAND CREEK	Davidson		1.9	Pathogens Other Habitat Alterations	M L	Collection System Failure Hydromodification	Water contact advisory due to Metro collection system overflows.
TN05130202 314 – 2000	RICHLAND CREEK	Davidson		6.7	Pathogens Other Habitat Alterations	M L	Collection System Failure Hydromodification	Water contact advisory due to Metro collection system overflows.
TN05130202 314 – 3000	RICHLAND CREEK	Davidson		4.0	Nutrients Other Habitat Alterations Pathogens	M L M	Collection System Failure Urban Runoff/Storm Sewers Hydromodification	

Stones River Watershed

This basin contains the following USGS Hydrologic Unit Code: 05130203 (Stones River)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130203 001 – 0100	MCCRORY CREEK	Davidson	1.4		Pathogens	H	Collection System Failure	Moved to Appendix C for habitat alteration due to approval of TMDL.
TN05130203 001 – 1000	STONES RIVER	Davidson	6.7		Other inorganics Organic enrichment/DO Flow alteration Taste & odor	L L L L	Upstream Impoundment	Other Inorganics: manganese and sulfides below Percy Priest. Sulfides cause odor problem below dam.
TN05130203 003T – 0100	FINCH BRANCH	Rutherford	5.7		Organic Enrichment/DO Pathogens	H H	Collection System Failure	Moved to Appendix C for habitat alteration due to approval of TMDL.
TN05130203 010 – 1000	STEWARTS CREEK	Rutherford	16.9		Nitrate	H	Urban Runoff/Storm Sewers Major Municipal Point Source	Development in the Smyrna area impacting d/s portion of Stewarts Creek and tribs. Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.
TN05130203 015 – 0110	ARMSTRONG BRANCH	Rutherford		5.3	Organic Enrichment/Low DO	H	Pasture Grazing	
TN05130203 018 – 0210	CHRISTMAS CREEK	Rutherford		12.3	Pathogens	H	Pasture Grazing	Moved to Appendix C for siltation due to approval of TMDL.
TN05130203 018 - 1000	WEST FORK STONES RIVER	Rutherford		7.6	Organic Enrichment Nutrients	L L	Major Municipal Point Source Land Development	Moved to Appendix C for siltation due to approval of TMDL.
TN05130203 022 –0100	UNNAMED TRIB TO LYTLE CREEK	Rutherford	1.0		Organic Enrichment/Low DO Pathogens	H L	Undetermined Source	Stream running through municipal park.
TN05130203 022 –1000	LYTLE CREEK	Rutherford		9.0	Oil and grease	L	Urban Runoff/Storm Sewers Hydromodification	Lytle Creek in Murfreesboro impacted by urban runoff. Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.

Final 2002 303(d) LIST (Stones River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130203 029 – 0100	JARMAN BRANCH	Rutherford Wilson	4.4		Organic Enrichment/Low DO	H	Pasture Grazing	Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.
TN05130203 029 – 0200	UNNAMED TRIB TO BRADLEY CREEK	Rutherford		2.7	Organic Enrichment/Low DO	H	Pasture Grazing Livestock in Stream	Moved to Appendix C for habitat alteration due to approval of TMDL.
TN05130203 035 – 1000	STONERS CREEK	Davidson	1.9		Pathogens	H	Collection System Failure	Area impacts include Metro collection system bypassing and development. Moved to Appendix C for siltation due to approval of TMDL.
TN05130203 036 – 1000	HURRICANE CREEK	Rutherford	8.5		Nutrients Organic Enrichment/Low DO	H H	Industrial Point Source	Moved to Appendix C for siltation due to approval of TMDL.

Harpeth River Watershed

This basin contains the following USGS Hydrologic Unit Code: 05130204 (Harpeth River)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130204 002 –0400	UNNAMED TRIB. TO JONES CREEK	Dickson		0.5	Flow Alteration	L	Hydromodification Golf Course Construction	Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.
TN05130204 002 –2000	JONES CREEK	Dickson	15.1		Organic Enrichment/Low DO	L	Agriculture Land Development	Upper section of stream. Moved to Appendix C for siltation due to approval of TMDL.
TN05130204 009 – 1100	BEECH CREEK	Davidson		3.6	Organic Enrichment/Low DO	H	Pasture Grazing Urban Runoff/Storm Sewers Removal of Riparian Vegetation	Moved to Appendix C for habitat alteration due to approval of TMDL.
TN05130204 009 – 1211	FLATROCK BRANCH	Cheatham Davidson	3.5		Organic Enrichment/Low DO	H	Minor Municipal Point Source	Fairview STP.
TN05130204 009 – 2000	HARPETH RIVER	Cheatham Davidson	18.8		Organic Enrichment/Low DO	H	Major Municipal Point Source Minor Municipal Point Source Urban Runoff/Storm Sewers	EPA performing TMDL for organic enrichment in this section.

Final 2002 303(d) LIST (Harpeth River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130204 009 – 3000	HARPETH RIVER	Davidson Williamson	16.8		Organic Enrichment/Low DO	H	Major Municipal Point Source Minor Municipal Point Source Urban Runoff/Storm Sewers	EPA performing TMDL for organic enrichment in this section.
TN05130204 013 – 0610	RATTLESNAKE BRANCH	Williamson		6.5	Organic Enrichment/Low DO	H	Removal of Riparian Vegetation Pasture Grazing	Moved to Appendix C for habitat alteration due to approval of TMDL.
TN05130204 013 – 1000	WEST HARPETH RIVER	Williamson	13.4		Low DO	H	Pasture Grazing	Moved to Appendix C for siltation due to approval of TMDL.
TN05130204 016 –1000	HARPETH RIVER	Williamson	6.8		Organic Enrichment/Low DO	H	Major Municipal Point Source Urban Runoff/Storm Sewers	Massive fish kill in this section in 2000. EPA doing an organic enrichment TMDL on this section.
TN05130204 016 – 2000	HARPETH RIVER	Williamson	3.9		Organic Enrichment/Low DO	H	Urban Runoff/Storm Sewers	Low DO near Pinkerton Park.
TN05130204 016 – 3000	HARPETH RIVER	Williamson	9.0		Low DO	H	Agriculture Removal of Riparian Vegetation	Moved to Appendix C for siltation due to approval of TMDL.
TN05130204 016 – 4000	HARPETH RIVER	Williamson	7.5		Low DO	H	Agriculture Removal of Riparian Vegetation	Moved to Appendix C for siltation due to approval of TMDL.
TN05130204 018 – 0200	CONCORD CREEK	Rutherford		15.1	Organic Enrichment/Low DO	H	Agriculture	Agricultural impacts near Eagleville. Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.
TN05130204 018 – 0300	KELLEY CREEK	Rutherford		9.3	Organic Enrichment/Low DO	H	Agriculture	Agricultural impacts near Eagleville. Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.
TN05130204 018 – 3000	HARPETH RIVER	Rutherford		7.4	Low DO	H	Agriculture Removal of Riparian Vegetation	Agricultural impacts near Eagleville. Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.
TN05130204 021 – 1000	LITTLE HARPETH RIVER	Davidson Williamson	4.1		Low DO	H	Land Development	Moved to Appendix C for siltation and habitat alteration due to approval of TMDL.

Barkley Reservoir Watershed

This basin contains the following USGS Hydrologic Unit Code: 05130205 (Lake Barkley)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130205 015T - 1100	WALL BRANCH	Montgomery	4.8		Organic Enrichment/Low DO Pathogens	L L	Collection System Failure	
TN05130205 015T - 1300	BRUSH CREEK	Montgomery	11.6		Siltation	L	Pasture Grazing	
TN05130205 015T - 1900	BUDDS CREEK	Montgomery	13.9		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Pasture Grazing	
TN05130205 015T - 1910	ANTIOCH CREEK	Montgomery	15.8		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Pasture Grazing	
TN05130205 020 - 1000	EAST FORK YELLOW CREEK	Montgomery	5.5		Pathogens	L	Pasture Grazing	
TN05130205 038 - 2000	BIG MCADOO CREEK	Montgomery	5.8		Siltation Organic Enrichment	L L	Nonirrigated Crop Production Land Development	
TN05130205 1735 - 1000	WELLS CREEK	Houston	9.9		Pathogens	L	Undetermined Source	

Red River Watershed

This basin contains the following USGS Hydrologic Unit Code: 05130206

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN05130206 002 - 0100	DUNBAR CAVE CREEK	Montgomery	2.7		Siltation Other Habitat Alterations	H H	Urban Runoff/Storm Sewers Land Development	
TN05130206 002 - 0200	ELK FORK CREEK	Robertson	3.9		Other Habitat Alterations	H	Pasture Grazing	
TN05130206 002 - 0700	SEVEN SPRINGS	Montgomery		1.1	Siltation Nutrients Pesticides	H M L	Urban Runoff/Storm Sewer Groundwater Loadings	
TN05130206 002 - 1000	RED RIVER	Montgomery	2.4		Siltation Pathogens Other Habitat Alterations Organic Enrichment/Low DO	H M H M	Nonirrigated Crop Production Collection System Failure Land Development	
TN05130206 002 - 2000	RED RIVER	Montgomery	22.9		Nutrients	M	Pasture Grazing	
TN05130206 002 - 5000	RED RIVER	Robertson	3.3		Other Habitat Alterations	H	Nonirrigated Crop Production Pasture Grazing	
TN05130206 003 - 1100	WARTRACE CREEK	Robertson	6.8		Unknown Toxicity	L	Undetermined Source	

Final 2002 303(d) LIST (Red River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)		Pollutant Source	COMMENTS
TN05130206 003 - 1220	UNNAMED TRIB TO CARR CREEK	Robertson	1.6		Organic Enrichment/Low DO Thermal Modifications Pathogens	M L M	Minor Municipal Point Source	
TN05130206 003 - 3000	SULPHUR FORK	Robertson	1.9		Nutrients Siltation	L H	Major Municipal Point Source Urban Runoff/Storm Sewers	
TN05130206 019 - 0321	FREY BRANCH	Robertson	7.2		Unionized Ammonia Siltation Pathogens	M H M	Minor Municipal Point Source Livestock in Stream	
TN05130206 019 - 0600	SMITH BRANCH	Robertson	4.1		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN05130206 024 - 0150	SUMMERS BRANCH	Robertson Sumner	12.6		Nutrients Siltation Organic Enrichment/Low DO Pathogens	L H L M	Major Municipal Point Source Urban Runoff/Storm Sewers	Impacts include Portland STP.
TN05130206 024 - 0200	BUNTIN BRANCH	Robertson Sumner	7.6		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN05130206 024 - 0300	AUSTIN BRANCH	Sumner	3.9		Siltation	H	Pasture Grazing	
TN05130206 024 - 0400	HALL TOWN CREEK	SUMNER	6.4		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN05130206 024 - 0600	SOMERVILLE BRANCH	Robertson Sumner	4.3		Unknown Toxicity	L	Undetermined Source	
TN05130206 034 - 0110	RACCOON BRANCH	Montgomery	7.7		Siltation Other Habitat Alterations	H H	Land Development Hydromodification	
TN05130206 034 - 0100	FLETCHERS FORK	Montgomery	25.3		Other Habitat Alterations	H	Habitat Modification	
TN05130206 034 - 0200	PINEY FORK	Stewart Montgomery	38.5		Siltation	H	Habitat Modification	
TN05130206 034 - 1000	LITTLE WEST FORK	Montgomery	7.2		Phosphorus Siltation Organic Enrichment/Low DO	L H L	Major Municipal Point Source Habitat Modification	
TN05130206 039 - 0150	SPRING CREEK	Montgomery	22.5		Siltation Organic Enrichment/Low DO Other Habitat Alterations	H M H	Nonirrigated Crop Production Removal of Riparian Vegetation Sources Outside State	
TN05130206 039 - 1000	WEST FORK RED RIVER	Montgomery		10.2	Siltation Other Habitat Alterations	H H	Land Development	

North and South Fork Holston River

This basin contains the following USGS Hydrologic Unit Codes: 06010101 (North Fork Holston) and 06010102 (South Fork Holston).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010101 001 – 1000	NORTH FORK HOLSTON RIVER	Hawkins Sullivan		6.1	Mercury	L	Industrial Point Source Source in Other State Contaminated Sediment	Provides habitat for the federally listed mussel, five-rayed pigtoe (Fusconaia cuneolus) and fish, spotfin chub (Cyprinella monacha). Fishing Advisory due to mercury historically discharged from Olin. EPA/VA should do TMDL.
TN06010102 001 – 0100	MADD BRANCH	Sullivan		2.7	Other Habitat Alterations	L	Urban Runoff/Storm Sewers Channelization	
TN06010102 001 – 1000	SOUTH FORK HOLSTON RIVER	Sullivan	5.5		Flow Alterations Thermal modifications	L L	Upstream Impoundment	Below Fort Patrick Henry, the river has also been impacted by rapid temperature and flow fluctuations. TVA 's tailwater improvements have helped, but not eliminated this problem.
TN06010102 001 – 2000	SOUTH FORK HOLSTON RIVER	Sullivan	2.4		Organic Enrichment/Low DO Flow Alterations Thermal Modifications	L L L	Upstream Impoundment	Same as above.
TN06010102 006 – 1000	BOONE RESERVOIR	Washington Sullivan	4400 ac		PCBs Chlordane	L L	Contaminated Sediment	Fishing advisory due to PCBs. Several tributaries are impacted by pathogens.
TN06010102 014 – 1000	SOUTH FORK HOLSTON RIVER	Sullivan	4.4		Flow Alterations Thermal modifications	L L	Upstream Impoundment	Biological integrity of river impacted by discharges from South Holston Reservoir. TVA 's tailwater improvements have helped, but not eliminated this problem.
TN06010102 042 – 0200	BACK CREEK	Sullivan	14.1		Siltation Other Habitat Alterations	H H	Pasture Grazing Channelization	
TN06010102 042 – 0500	CEDAR CREEK	Sullivan	11.8		Siltation Other Habitat Alterations	H H	Land Development	

Final 2002 303(d) LIST (North and South Fork Holston River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010102 042 – 1000 & 2000	BEAVER CREEK	Sullivan		21.6	Pathogens Nutrients	H M	Pasture Grazing Urban Runoff/Storm Sewers Sources Outside State Borders	Water contact advisory. Bacterial levels higher at stateline than further downstream.
TN06010102 046 – 0100	TRANSBARGER BRANCH	Sullivan	1.4		Unknown Toxicity Other Habitat Alterations	L H	Urban Runoff/Storm Sewers Hydromodification	
TN06010102 046 – 1000	REEDY CREEK	Sullivan	2.0		Siltation Other Habitat Alterations	H H	Urban Runoff/Storm Sewers	
TN06010102 237 – 1000	MUDDY CREEK	Sullivan	12.3		Siltation Other Habitat alterations	H H	Pasture Grazing	

Watauga River Basin

This basin contains the following USGS Hydrologic Unit Codes: 06010103 (Watauga River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010103 006 – 1000	BOONES CREEK	Washington	18.6		Siltation Other Habitat Alterations	H H	Pasture Grazing Land Development	
TN06010103 009 – 1000	BRUSH CREEK	Washington	20.3		Nutrients Siltation Other Habitat Alterations	M H H	Hydrologic Modification Land Development Urban Runoff/Storm Sewers	
TN06010103 013 – 0210	SHELL CREEK	Carter	3.8		Other Habitat Alterations	L	Channelization	
TN06010103 013 – 0300	HAMPTON CREEK	Carter	6.2		Other Habitat Alterations	L	Channelization	
TN06010103 013 – 2000	DOE RIVER	Carter	6.4		Other Habitat Alterations	L	Channelization	
TN06010103 034 – 0300	TOWN CREEK	Johnson	3.0		Suspended Solids	H	Minor Municipal Point Source	Impacts include Mountain City bypasses-- Commissioner's Order issued as control strategy. TMDL for fecal coliform developed and approved by EPA. See Appendix C.
TN06010103 034 – 2000	ROAN CREEK	Johnson	6.0		Siltation	H	Minor Municipal Point Source Pasture Grazing	Same as above
TN06010103 635 – 1000	KNOB CREEK (CASH HOLLOW CREEK)	Washington		12.3	Other Habitat Alterations	H	Pasture Grazing Urban Runoff/Storm Sewers Land Development	Water contact advisory. Moved to Appendix C for pathogens due to TMDL approval by EPA.

Holston River Basin

This basin contains the following USGS Hydrologic Unit Codes: 06010104 (Holston River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010104 001 - 0100	LOVE CREEK	Knox	9.7		Siltation Other Habitat Alterations	L L	Land Development	
TN06010104 001 - 0500	ROSEBERRY CREEK	Knox	20.0		Pathogens	M	Pasture Grazing Septic Tanks	
TN06010104 001 - 0800	LOST CREEK	Jefferson	26.8		Siltation Pathogens	L M	Pasture Grazing Septic Tanks	
TN06010104 001 - 1400	SWANPOND CREEK	Knox	16.3		Siltation Other Habitat Alterations	L L	Land Development Channelization	
TN06010104 001 - 2000	HOLSTON RIVER	Grainger Jefferson	26.9		Low DO Flow Alteration	L L	Upstream Impoundment	Trout stream. Provides habitat for the federally listed pink mucket pearly mussel (Lampsilis abrupta). Impacted by low DO releases from Cherokee Reservoir. TVA tailwater improvements have helped, but not eliminated this problem.
TN06010104 004T - 0600	UNNAMED TRIB TO RED HOUSE BR. EMBAYMENT	Hawkins	1.5		Siltation	L	Resource Extraction	Sand mine. Enforcement action was taken.
TN06010104 004T - 0900	STOCK CREEK	Hawkins	4.2		Other Habitat Alterations	L	Pasture Grazing	
TN06010104 004T - 1150	CANEY CREEK	Hawkins	16.8		Pathogens	M	Pasture Grazing	
TN06010104 004T - 1200	CROCKETT CREEK	Hawkins	5.3		Siltation Pathogens	L M	Land Development Urban Runoff/Storm Sewers	
TN06010104 004T - 2100	TURKEY CREEK	Hamblen		8.0	Siltation Other Habitat Alterations Pathogens	L L M	Collection System Failure Urban Runoff/Storm Sewers	Water contact advisory due to pathogens.
TN06010104 004T - 2400	MOSSY CREEK	Jefferson	9.1		Zinc Siltation Pathogens	L L M	Collection System Failure Urban Runoff/Storm Sewers Resource Extraction	
TN06010104 011 - 0100	SINKING CREEK	Hawkins	2.7		Pathogens	M	Pasture Grazing	
TN06010104 011 - 0200	FORGEY CREEK	Hawkins	3.6		Pathogens	M	Pasture Grazing	
TN06010104 011 - 0300	SURGOINSVILLE CREEK	Hawkins	7.0		Pathogens	M	Pasture Grazing Septic Tanks	
TN06010104 011 - 0400	STONEY POINT CREEK	Hawkins	13.1		Pathogens	M	Pasture Grazing	

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010104 011 - 0500	BRADLEY CREEK	Hawkins	9.2		Pathogens	M	Livestock in Stream	
TN06010104 011 - 0510	RENFROE CREEK	Hawkins	12.5		Pathogens	M	Livestock in Stream	
TN06010104 011 - 0700	HORD CREEK	Hawkins	8.9		Pathogens	M	Pasture Grazing	
TN06010104 011 - 0800	ALEXANDER CREEK	Hawkins	1.0		Unknown Toxicity Pathogens	L M	Urban Runoff/Storm Sewers	
TN06010104 011 - 0850	ALEXANDER CREEK	Hawkins	12.5		Pathogens	M	Pasture Grazing	
TN06010104 011 - 0900	SMITH CREEK	Hawkins	4.6		Other Habitat Alterations Pathogens	L M	Pasture Grazing Land Development	
TN06010104 011 - 1100	ARNOTT CREEK	Hawkins	2.8		Thermal Modifications Flow Alterations	L L	Major Industrial Point Source	
TN06010104 011 - 1600	HUNT CREEK	Hawkins	7.7		Pathogens	M	Livestock in Stream	
TN06010104 019 - 0100	LITTLE FLAT CREEK	Knox	30.3		Pathogens	M	Confined Animal Feeding Operations (NPS)	
TN06010104 019 - 2000	FLAT CREEK	Union Knox	2.8		Siltation Other Habitat Alterations	L L	Hydromodification Dam Construction	

Upper French Broad River Basin This basin contains the following USGS Hydrologic Unit Codes: 06010105 (Upper French Broad) and 06010106 (Pigeon River),

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010105 001 - 0100	CLEAR CREEK	Cocke	28.0		Pathogens	M	Pasture Grazing	
TN06010105 003 – 1100	JOHNS CREEK	Cocke		5.0	Pathogens	M	Septic Tanks	Water contact advisory due to pathogens.
TN06010105 003 – 1110	BAKER CREEK	Cocke		4.4	Pathogens	M	Septic Tanks	Water contact advisory due to pathogens.
TN06010106 001 – 4000	PIGEON RIVER-	Cocke		5.0	Color	M	Major Industrial Point Source Source in Other State	Color from Blue Ridge Paper is still objectionable at times in this segment. NC or EPA should do TMDL.
TN06010106 001 – 1100	ENGLISH CREEK	Cocke	15.3		Pathogens	M	Pasture Grazing	
TN06010106 002 – 1000	SINKING CREEK	Cocke	6.8		Pathogens	M	Undetermined Source	

Lower French Broad River Basin This basin contains the following USGS Hydrologic Unit Codes: 06010107 (Lower French Broad)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010107 003 - 1000	BOYDS CREEK	Sevier	15.4		Pathogens	M	Pasture Grazing	
TN06010107 006 - 2000	FRENCH BROAD RIVER	Sevier	4.9		Low DO Thermal Modifications Flow alteration	L L L	Upstream Impoundment	Provides habitat for the federally listed fish, the snail darter (Percina tanasi). Segment impacted by Douglas Reservoir releases (low DO and flow alteration). TVA 's tailwater improvements have helped, but not eliminated this problem.
TN06010107 007 – 1000 & 2000	LITTLE PIGEON RIVER	Sevier		5.9	Pathogens	M	Septic Tanks Collection System Failure	Water contact advisory.
TN06010107 007 - 1650	MIDDLE CREEK	Sevier	3.3		Unknown Toxicity	L	Undetermined Source	
TN06010107 010 - 0100	GNATTY BRANCH	Sevier		1.8	Pathogens	M	Septic Tanks	Water contact advisory.
TN06010107 010 - 0200	KING BRANCH	Sevier		2.5	Pathogens	M	Septic Tanks	Water contact advisory.
TN06010107 010 - 0300	BEECH BRANCH	Sevier		1.0	Pathogens	M	Septic Tanks	Water contact advisory.
TN06010107 010 - 0400	DUDLEY CREEK	Sevier		5.7	Pathogens	M	Septic Tanks	Water contact advisory.
TN06010107 010 - 0500	ROARING FORK	Sevier		1.5	Pathogens	M	Collection System Failure	Water contact advisory.
TN06010107 010 - 0600	BASKINS CREEK	Sevier		1.3	Pathogens	M	Collection System Failure	Water contact advisory.
TN06010107 010 - 1000	WEST PRONG LITTLE PIGEON RIVER	Sevier		8.1	Pathogens Siltation	M M	Septic Tanks Collection System Failure Land Development Channelization	Water contact advisory due to pathogens. Development between Sevierville and Pigeon Forge adding silt to river.
TN06010107 010 - 1300	HOLY BRANCH	Sevier		1.0	Pathogens	M	Collection System Failure	Water contact advisory.
TN06010107 010 - 1800	MILL CREEK	Sevier	5.9		Other Habitat Alterations Pathogens	M M	Collection System Failure Channelization	

Final 2002 303(d) LIST (Lower French Broad River cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010107 010 - 1900	WALDEN CREEK	Sevier	2.6		Siltation Pathogens	M M	Pasture Grazing Land Development Septic Tanks	
TN06010107 010 - 1950	WALDEN CREEK	Sevier	8.6		Siltation Other Habitat Alterations	M M	Pasture Grazing Land Development	
TN06010107 010 - 2000	WEST PRONG LITTLE PIGEON RIVER	Sevier		5.7	Unknown toxicity Pathogens	M M	Septic Tanks Collection System Failure Urban Runoff/Storm Sewers	Water contact advisory due to pathogens.
TN06010107 010 - 3000	WEST PRONG LITTLE PIGEON RIVER	Sevier		5.4	Pathogens	M	Septic Tanks Collection System Failure	Water contact advisory due to pathogens.
TN06010107 029T - 0400	LEADVALE CREEK	Jefferson		4.4	Pathogens	M	Pasture/Grazing	Water contact advisory due to pathogens.
TN06010107 029T - 1100	CLEAR CREEK	Jefferson	3.3		Pathogens	M	Pasture Grazing	
TN06010107 029T - 1150	CLEAR CREEK	Jefferson Cocke	13.6		Nutrients Pathogens	M M	Pasture Grazing	
TN06010107 038 - 1000	DUMPLIN CREEK	Jefferson Sevier	19.1		Siltation Other Habitat Alterations	M M	Pasture Grazing Land Development Channelization	

Nolichucky River

This basin contains the following USGS Hydrologic Unit Codes: 06010108 (Nolichucky River)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 001 - 0100	FLAT CREEK	Hamblen	4.9		Pathogens	M	Pasture Grazing	
TN06010108 001 - 0110	ROBINSON CREEK	Hamblen	3.4		Siltation	M	Pasture Grazing	
TN06010108 001 - 0200	TURKEY CREEK	Hamblen	5.8		Siltation	M	Pasture Grazing	
TN06010108 001 - 1000	NOLICHUCKY RIVER	Hamblen Cocke	4.0		Siltation Pathogens	M M	Agriculture Source in Other State	
TN06010108 001 - 2000	NOLICHUCKY RIVER	Hamblen Cocke	7.7		Pathogens	M	Pasture Grazing	Provides habitat for the federally listed oyster mussel (Epioblasma capsaeformis) and the fish, the snail darter (Percina tanasi).

Final 2002 303(d) LIST (Nolichucky River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 001 - 3000	NOLICHUCKY RIVER	Greene Cocke	9.0		Siltation	M	Agriculture Source in Other State	Provides habitat for the federally listed snail darter (Percina tanasi).
TN06010108 005 - 0310	PRIVET BRANCH	Greene	1.4		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 005 - 0500	GREGG BRANCH	Greene	2.7		Siltation	M	Pasture Grazing	
TN06010108 005 - 0710	SHELTON BRANCH	Greene	3.0		Siltation Other Habitat Alterations	M M	Pasture Grazing Channelization	
TN06010108 005 - 0800	KYKER BRANCH	Greene	2.5		Siltation	M	Pasture Grazing	
TN06010108 005 - 1000	NOLICHUCKY RIVER	Greene	9.4		Siltation	M	Agriculture Source in Other State	
TN06010108 005 - 1121	RADER BRANCH	Cocke	2.0		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 005 - 2000	NOLICHUCKY RIVER	Greene Cocke	6.6		Siltation Pathogens	M M	Agriculture Source in Other State	
TN06010108 005 - 3000	NOLICHUCKY RIVER	Greene Cocke	6.4		Siltation	M	Agriculture Source in Other State	
TN06010108 007 - 1000	MEADOW CREEK	Greene Cocke	23.4		Pathogens	M	Livestock in Stream	
TN06010108 009 - 0300	CEDAR CREEK	Greene	5.4		Siltation	M	Pasture Grazing	
TN06010108 009 - 1000	COVE CREEK	Greene	29.7		Siltation	M	Pasture Grazing	
TN06010108 010 - 0200	HOLLEY CREEK	Greene Washington	8.5		Siltation	M	Land Development Urban Runoff/Storm Sewers	
TN06010108 010 - 0300	COLLEGE CREEK	Greene Washington	9.3		Siltation Other Habitat Alterations	M M	Pasture Grazing Land Development	
TN06010108 010 - 0400	MOON CREEK	Greene Washington	8.7		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 010 - 0500	PUDDING CREEK	Greene Washington	5.5		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 010 - 0750	RHEATOWN CREEK	Greene Washington	6.7		Siltation Other Habitat Alterations	M M	Pasture Grazing Land Development	
TN06010108 010 - 0800	HICE CREEK	Greene	2.1		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 010 - 0900	SNAPP BRANCH	Greene	1.9		Siltation Other Habitat Alterations	M M	Pasture Grazing	

Final 2002 303(d) LIST (Nolichucky River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 010 – 1000, 2000 & 3000	NOLICHUCKY RIVER	Greene Washington	38.5		Siltation	M	Agriculture Source in Other State	
TN06010108 010 - 1100	ASBURY CREEK	Greene	3.0		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 010 - 1200	KNAVE BRANCH	Greene	4.6		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 010 - 1300	KEPLINGER CREEK	Washington	5.3		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 010 - 1400	LEBANON BRANCH	Greene	1.9		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 010 - 1900	MARTINS CREEK	Unicoi	8.3		Other Habitat Alterations	M	Urban Runoff/Storm Sewers	
TN06010108 010 - 1910	SPRING CREEK	Unicoi	1.7		Other Habitat Alterations	M	Urban Runoff/Storm Sewers	
TN06010108 010 - 3100	KATY BRANCH	Washington	0.8		Siltation	M	Agriculture	
TN06010108 010 - 3600	MOORE BRANCH	Washington	7.7		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 010 - 3800	WOLF BRANCH	Greene	1.3		Siltation Other Habitat Alterations	M M	Nonirrigated Crop Production	
TN06010108 010 - 6000	NOLICHUCKY RIVER	Unicoi	3.2		Siltation	M	Source in Other State	Provides habitat for the federally listed Appalachian elktoe (Alasmidonta rayeneliana). North Carolina or EPA should do the TMDL for this section of the river.
TN06010108 029 - 0300	SCIOTO CREEK	Unicoi	14.8		Siltation	M	Land Development	
TN06010108 029 – 0900	TATE SPRINGS	Unicoi	1.0		Suspended Solids	M	Aquaculture	
TN06010108 029 - 1000	NORTH INDIAN CREEK	Unicoi	8.0		Siltation	M	Urban Runoff/Storm Sewers	
TN06010108 030 - 0100	CEDAR CREEK	Greene	3.3		Siltation Other Habitat Alterations	M M	Pasture Grazing	

Final 2002 303(d) LIST (Nolichucky River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 030 - 0200	JOCKEY CREEK	Greene	8.0		Nitrate Siltation Pathogens	M M M	Pasture Grazing	
TN06010108 030 - 0210	SPLATTER CREEK	Greene	3.6		Siltation Other Habitat Alterations	M M	Pasture Grazing Livestock in Stream	
TN06010108 030 - 0220	CARSON CREEK	Greene Washington		17.9	Nitrate Siltation Pathogens	M M M	Pasture Grazing Livestock in Stream	
TN06010108 030 - 0300	KEEBLER BRANCH	Washington	7.4		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 030 - 0400	CLEAR FORK	Washington	12		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 030 - 0420	UNNAMED TRIB TO CLEAR FORK	Washington	6.9		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 030 - 0430	MUDDY FORK	Washington	23.8		Pathogens	M	Agriculture	
TN06010108 030 - 0431	LEESBURG BRANCH	Washington	3.4		Siltation Other Habitat Alteration	M M	Pasture Grazing	
TN06010108 030 - 1000	BIG LIMESTONE CREEK	Greene Washington	3.1		Pathogens	M	Pasture Grazing	
TN06010108 030 - 2000	BIG LIMESTONE CREEK	Washington	8.8		Phosphorus Nitrate Siltation Pathogens	M M M M	Pasture Grazing	
TN06010108 033 - 0100	BUFFALO CREEK	Greene	3.0		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 033 - 1000	PIGEON CREEK	Greene		8.8	Pathogens	M	Pasture Grazing	
TN06010108 035 - 0200	POTTER CREEK	Greene		15.3	Siltation Other Habitat Alterations Pathogens	M M M	Pasture Grazing	
TN06010108 035 - 0400	MUD CREEK	Greene	4.4		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 0700	LICK BRANCH	Greene	1.2		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 0900	PUNCHEON CAMP CREEK	Greene		11.5	Nutrients Siltation Pathogens	M M M	Agriculture	
TN06010108 035 - 1000	LICK CREEK	Greene	3.9		Nutrients Siltation Other Habitat Alterations Pathogens	M M M M	Pasture Grazing	

Final 2002 303(d) LIST (Nolichucky River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 035 - 1110	BABB CREEK	Greene	4.6		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 1400	GARDINER CREEK	Greene	5.4		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 1410	WATTENBARGER CREEK	Greene	5.3		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 1800	PYBORN CREEK	Greene	6.4		Pathogens	M	Pasture Grazing	
TN06010108 035 - 1900	CLEAR CREEK	Greene Washington	19.9		Siltation	M	Pasture Grazing	
TN06010108 035 - 2000	LICK CREEK	Greene	2.3		Pathogens	M	Pasture Grazing	
TN06010108 035 - 2300	HORSE FORK	Greene	1.6		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 2310	UNION TEMPLE CREEK	Greene	23.9		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 035 - 2320	DAVIS CREEK	Greene	2.8		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 035 - 2400	HOODLEY BRANCH	Greene	5.3		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 2521	POSSUM CREEK	Greene	7.5		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 2800	MINK CREEK	Greene	9.1		Pathogens	M	Pasture Grazing	
TN06010108 035 - 2810	POND CREEK	Greene	2.2		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 2900	FOX BRANCH	Greene	1.5		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 035 - 3000	LICK CREEK	Greene	7.4		Nutrients Siltation Other Habitat Alterations Pathogens	M M M M	Pasture Grazing	
TN06010108 035 - 4000	LICK CREEK	Greene	4.9		Pathogens	M	Pasture Grazing	
TN06010108 035 – 5000, 6000 & 7000	LICK CREEK	Greene	36.1		Nutrients Siltation Other Habitat Alterations Pathogens	M M M M	Pasture Grazing	
TN06010108 035 - 8000	LICK CREEK	Greene	7.2		Pathogens	M	Pasture Grazing	

Final 2002 303(d) LIST (Nolichucky River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 035 - 9000	LICK CREEK	Greene	7.7		Nutrients Siltation Pathogens	M M M	Pasture Grazing	
TN06010108 042 - 0100	HALE BRANCH	Hamblen	7.1		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 042 - 0110	SLOP CREEK	Hamblen	1.7		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 042 - 0600	MUD CREEK	Hamblen Hawkins	8.2		Pathogens	M	Pasture Grazing	
TN06010108 042 - 0610	COLDSPRING BRANCH	Hawkins	1.1		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 042 - 1000	BENT CREEK	Hamblen	13.7		Pathogens	M	Pasture Grazing	
TN06010108 043 - 0200	CRIDER CREEK	Hamblen	6.2		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 043 - 0300	SARTAIN CREEK	Jefferson Hamblen	4.4		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 043 - 0310	CARTER BRANCH	Jefferson Hamblen	3.5		Siltation Other Habitat Alterations	M M	Pasture Grazing Livestock in Stream	
TN06010108 043 - 0400	CEDAR CREEK	Hamblen Jefferson	7.5		Siltation	M	Pasture Grazing	
TN06010108 043 - 1000	LONG CREEK	Jefferson Hamblen	13.5		Pathogens	M	Pasture Grazing	
TN06010108 064 – 1000 & 2000	SINKING CREEK	Greene	23.4		Pathogens	M	Pasture Grazing	
TN06010108 088 - 0200	ALEXANDER CREEK	Greene	2.8		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 102 - 0100	UNNAMED TRIB TO RICHLAND CREEK	Greene	3.0		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 102 - 0200	SIMPSON CREEK	Greene	3.0		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 102 – 0300	TIPTON CREEK	Greene	3.0		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 102 - 0400	EAST FORK RICHLAND CREEK	Greene	5.0		Other Habitat Alterations	M	Pasture Grazing	
TN06010108 102 - 2000	RICHLAND CREEK	Greene	6.1		Nutrients Siltation Other Habitat Alterations Pathogens	M M M M	Pasture Grazing Urban Runoff/Storm Sewers	

Final 2002 303(d) LIST (Nolichucky River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010108 456 - 0200	DRY CREEK	Greene	3.3		Siltation Other Habitat Alterations	M M	Resource Extraction	
TN06010108 510 - 0100	BROWN BRANCH	Washington	8.3		Siltation Other Habitat Alterations	M M	Pasture Grazing Land Development	
TN06010108 510 - 0200	BACON BRANCH	Washington	4.6		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 510 - 0300	FEIST BRANCH	Washington	2.3		Siltation	M	Pasture Grazing	
TN06010108 510 - 0400	HOMINY CREEK	Washington		7.0	Nitrate Pathogens	M M	Agriculture	
TN06010108 510 - 0500	ONION CREEK	Washington	4.0		Siltation	M	Pasture Grazing Land Development	
TN06010108 510 - 1000	LITTLE LIMESTONE CREEK	Washington	8.0		Nitrate Pathogens	M M	Pasture Grazing	
TN06010108 510 - 2000	LITTLE LIMESTONE CREEK	Washington	13.5		Other Habitat Alterations Pathogens	M M	Pasture Grazing	
TN06010108 536 - 0100	LOYD CREEK	Washington	4.2		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 536 - 0200	LITTLE CHEROKEE CREEK	Washington	7.2		Siltation Other Habitat Alterations	M M	Pasture Grazing Land Development	
TN06010108 536 – 1000 & 2000	CHEROKEE CREEK	Washington	20.8		Siltation	M	Pasture Grazing Land Development	
TN06010108 0102.0DCCR OCKETT - 1000	DAVY CROCKETT RESERVOIR	Greene	383 ac		Siltation	M	Agriculture Source in Other State	
TN06010108 DCTRIBS-0100	MUTTON CREEK	Greene	1.7		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06010108 DCTRIBS – 0200	JOHNSON CREEK	Greene	1.4.		Siltation	M	Pasture Grazing	
TN06010108 DCTRIBS – 0500	MUD CREEK	Greene	21.4		Siltation	M	Pasture Grazing Land Development	
TN06010108 DCTRIBS – 0600	FLAG BRANCH	Greene	5.8		Siltation Other Habitat Alterations	M M	Pasture Grazing Channelization	

Upper Tennessee River Basin

This basin contains the following USGS Hydrologic Unit Codes: 06010201 (Watts Bar Res., Fort Loudoun Res., and Little River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010201 001 - 1000	WATTS BAR RESERVOIR	Rhea		34075 ac	PCBs	L	Contaminated sediments	Fishing advisory due to PCBs.
TN06010201 001 – 2000	UPPER WATTS BAR RESERVOIR Sweetwater Creek to Fort Loudoun Dam.	Loudon		1790 ac	Low DO PCBs	L L	Upstream Impoundment Contaminated Sediment	Fishing advisory due to PCBs. Provides habitat for the federally listed fish, snail darter (Percina tanasi) and the following mussels: orange-foot pimpleback pearly mussel (Plethobasus cooperianus) and pink mucket pearly mussel (Lampsilis abrupta). TVA injects oxygen into the Fort Loudoun forebay to raise oxygen levels, which has helped, but not eliminated this problem.
TN06010201 013 - 0100	MUD CREEK	Loudon Monroe	7.2		Pathogens	M	Pasture Grazing	
TN06010201 013 - 0200	GREASY BRANCH	Loudon Monroe	7.3		Pathogens	M	Pasture Grazing	
TN06010201 013 – 1000 & 2000	POND CREEK	Loudon Monroe	21.1		Pathogens Nutrients	M M	Pasture Grazing	
TN06010201 015 - 1000	SWEETWATER CREEK	Loudon Monroe		29.3	Siltation	H	Channelization Pasture Grazing Land Development	
TN06010201 020	FORT LOUDOUN RESERVOIR	Knox Loudon		14600 ac	PCBs	L	Contaminated Sediment	Fishing advisory due to PCBs.
TN06010201 022 – 1000	GALLAGHER CREEK	Knox	13.2		Siltation	H	Pasture Grazing	
TN06010201 026 – 0100	STOCK CREEK	Knox	30.0		Siltation Other Habitat Alterations Pathogens	H H H	Pasture Grazing Channelization	
TN06010201 026 – 0200	RODDY BRANCH	Blount Knox	6.4		Siltation Other Habitat Alterations Pathogens	H H H	Pasture Grazing Channelization Removal of Riparian Vegetation	
TN06010201 026 – 0300	CANEY BRANCH	Blount	2.0		Other Habitat Alterations	H	Resource Extraction	
TN06010201 026 – 0400	PISTOL CREEK	Blount		19.7	Pathogens Siltation	H H	Urban Runoff/Storm Sewers	

Final 2002 303(d) LIST (Upper Tennessee River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE TMDL Priorlty	Pollutant Source	COMMENTS
TN06010201 026 – 0410	BROWN CREEK	Blount	24.7		Nitrate M Siltation H	Land Development Urban Runoff/Storm Sewers	
TN06010201 026 – 0420	BANK BRANCH	Blount	16.6		Pathogens H	Undetermined Source	
TN06010201 026 – 0500	RUSSELL BRANCH	Blount		3.0	PCBs L Siltation H	Contaminated Sediment Land Development Hazardous Waste	
TN06010201 026 – 1000	LITTLE RIVER	Blount		7.1	PCBs L	Contaminated Sediment	Fishing advisory due to PCBs.
TN06010201 026 – 2000	LITTLE RIVER	Blount			This 21.2 mile section of the Little River has been identified as "threatened" due to a documented decline in diversity at biological stations at miles 7.6 and 9.6. The specific stressor is undetermined. TMDL priority: Low.		Provides habitat for the federally listed snail darter (Percina tanasi) and duskytail darter (Etheostoma percnurum), plus the fine-rayed pigtoe (Fusconaia cuneolus).
TN06010201 028 – 1000	CROOKED CREEK	Blount		42.7	Siltation H Pathogens H	Pasture Grazing Livestock in Stream	
TN06010201 032 –0500	SHORT CREEK	Blount	10.7		Pathogens H	Undetermined Source	
TN06010201 033-0100	LITTLE ELLEJOY CREEK	Blount	14.7		Nitrate M	Pasture Grazing	
TN06010201 033-1000	ELLEJOY CREEK	Blount	34.9		Pathogens H	Pasture Grazing	
TN06010201 034 – 1000	NAILS CREEK	Blount Sevier	24.5		Pathogens H Other Habitat Alterations H	Pasture Grazing	
TN06010201 037 – 1000	LITTLE TURKEY CREEK	Knox		14.0	Siltation H Other Habitat Alterations H	Urban Runoff/Storm Sewers	
TN06010201 038 – 1000	TOWN CREEK	Loudon	12.9		Other Habitat Alterations H Siltation H	Pasture Grazing Land Development Hydromodification	
TN06010201 040 –0600	BLACK CREEK	Roane	16.7		Priority Organics L Organic Enrichment/Low DO M Other Habitat Alterations H	Major Municipal Point Source Hazardous Waste Channelization	CERCLA site discharging PAHs.
TN06010201 065 – 1000	STEEKEE CREEK	Loudon	11.0		Other Habitat Alterations H	Pasture Grazing	
TN06010201 067 – 1000	THIRD CREEK	Knox		20.7	Nutrients M Siltation H Other Habitat Alterations H	Collection System Failure Land Development Hydromodification Urban Runoff/Storm Sewers	Water contact advisory due to pathogens. A fecal coliform TMDL has been developed and approved by EPA. See Appendix C.

Final 2002 303(d) LIST (Upper Tennessee River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010201 080 – 0100	WHITES CREEK	Knox	10.2		Other Habitat Alterations	H	Urban runoff/storm sewers	
TN06010201 080 – 1000	FIRST CREEK	Knox		16.1	Nutrients Siltation Other Habitat Alterations	M H H	Collection System Failure Urban Runoff/Storm Sewers Hydromodification	Water contact advisory. A fecal coliform TMDL has been developed and approved by EPA. See Appendix C.
TN06010201 083 – 1000	FLOYD CREEK	Loudon Blount	7.7		Siltation Pathogens	H H	Pasture Grazing	
TN06010201 097- 1000	SECOND CREEK	Knox		12.8	Other Habitat Alterations Nutrients Siltation	H H H	Urban Runoff/Storm Sewers Collection System Failure Hydromodification	Water contact advisory. Coster CERCLA site source of metals. A fecal coliform TMDL has been developed and approved by EPA. See Appendix C.
TN06010201 620 – 1000	CARDIFF CREEK	Roane	3.8		Chrome	L	Hazardous Waste	Hexavalent chrome levels exceed acute criteria in this stream.
TN06010201 1015 – 1000	CLOYD CREEK	Loudon	11.3		Siltation Other Habitat Alterations Pathogens	H H H	Pasture Grazing Livestock in Stream	
TN06010201 1330 – 1000	SINKING CREEK	Knox		1.5	Pathogens	H	Urban Runoff/Storm sewers	Water contact advisory.
TN06010201 1340 – 1000	TURKEY CREEK	Knox		15.8	Nutrients Siltation	M H	Land Development	
TN06010201 1697 – 1000	FOURTH CREEK	Knox		14.9	Other Habitat Alterations	H	Urban Runoff/Storm Sewers Channelization	
TN06010201 1719 – 1000	WILLIAMS CREEK	Knox		2.8	Other Habitat Alterations	H	Urban Runoff/Storm Sewers	A fecal coliform TMDL has been developed and approved by EPA. See Appendix C.
TN06010201 1721 – 1000	BAKER CREEK	Knox		3.3	Other Habitat Alterations	H	Urban Runoff/Storm Sewers	A fecal coliform TMDL has been developed and approved by EPA. See Appendix C.
TN06010201 1723 – 1000	GOOSE CREEK	Knox		4.9	Siltation Other Habitat Alterations PCBs	H H L	Collection System Failure Urban Runoff/Storm Sewers Hazardous Waste	Water contact advisory due to pathogens. Witherspoon Superfund site.

Little Tennessee River Basin

This basin contains the following USGS Hydrologic Unit Codes: 06010204 (Little Tennessee River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010204 001 - 1000	TELLICO RESERVOIR	Loudon Monroe		16500 ac	PCBs	L	Contaminated Sediment	Fishing advisory-PCBs in catfish. The Tellico River was habitat for the federally listed snail darter (Percina tanasi). However, there are no records of this species post-impoundment.
TN06010204 002 - 1000	FORK CREEK	Loudon Monroe	19.3		Nitrate Siltation Pathogens	L L M	Pasture Grazing	
TN06010204 004 - 1000	BAT CREEK	Monroe	19.1		Pathogens	M	Minor Municipal Point Source Pasture Grazing	
TN06010204 020 - 1000	LITTLE TENNESSEE RIVER	Monroe Blount	1.1		Flow Alteration	L	Upstream Impoundment	Flow is diverted around this section of the Little Tennessee River below Calderwood Reservoir.
TN06010204 042 – 1000	NINEMILE CREEK	Blount	17.1		Pathogens	M	Pasture Grazing	
TN06010204 043 – 1000	BAKER CREEK	Blount Loudon	39.9		Pathogens	M	Pasture Grazing	
TN06010204 045 – 1000	NOTCHY CREEK	Monroe	11.2		Pathogens	M	Pasture Grazing	

Upper Clinch River

This basin contains the following USGS Hydrologic Unit Codes: 06010205 (Upper Clinch River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010205 013 - 0500	GREASY ROCK CREEK	Hancock	5.7		Other Habitat Alterations Pathogens	M M	Pasture Grazing Land Development	
TN06010205 013 - 0620	EAST FORK PAINTHER CREEK	Hancock	5.5		Pathogens	M	Pasture Grazing	
TN06010205 013 - 0710	SWEET CREEK	Hancock	4.3		Pathogens	L	Septic Tanks	
TN06010205 014 - 0400	FLAT GAP CREEK	Hancock Hawkins	5.5		Unknown Toxicity	L	Undetermined Source	
TN06010205 016 - 0100	NORTH FORK CLINCH RIVER	Hancock	1.7		Pathogens	L	Sources Outside of State	Virginia should do TMDL for this stream.

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010205 016 - 0400	MILL CREEK	Hancock Hawkins	5.1		Pathogens	L	Septic Tanks	
TN06010205 064 - 1000	BIG CREEK	Campbell		1.2	Unknown Toxicity Nutrients	L L	Minor Municipal Point Source	
TN06010205 064 - 2000	BIG CREEK	Campbell	1.9		Nutrients	L	Urban Runoff/Storm Sewers	

Upper Powell River

This basin contains the following USGS Hydrologic Unit Codes: 06010206 (Powell River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010206 006 - 0310	UNNAMED TRIB TO BLAIRS CREEK	Claiborne	1.8		Siltation	M	Hwy/Road/Bridge Construction	
TN06010206 008 – 2000	RUSSELL CREEK	Claiborne		7.0	Nutrients Siltation	M M	Urban Runoff/Storm Sewers	Tazewell area impacts.
TN06010206 026 - 0100	CAWOOD BRANCH	Claiborne	5.2		Pathogens	M	Pasture Grazing	
TN06010206 026 - 0200	RUSSELL BRANCH	Claiborne		3.5	Nitrate Siltation Other Habitat Alterations Pathogens	M M M M	Pasture Grazing	
TN06010206 026 - 1000	DAVIS CREEK	Campbell Claiborne		8.0	Nutrients Siltation Pathogens	M M M	Confined Animal Feeding Operation (point and nonpoint)	Dairy operations. Site of 319 Program nonpoint source study.
TN06010206 026 - 2000	DAVIS CREEK	Claiborne		5.1	Nitrate Siltation Other Habitat Alterations Pathogens	M M M M	Pasture Grazing Confined Animal Feeding Operation (nonpoint)	Dairy operations. Site of 319 Program nonpoint source study.
TN06010206 026 - 3000	DAVIS CREEK	Claiborne	3.6		Nitrate Siltation Pathogens	M M M	Pasture Grazing Confined Animal Feeding Operation (nonpoint)	Dairy operations. Site of 319 Program nonpoint source study.
TN06010206 026 - 4000	DAVIS CREEK	Claiborne		2.6	Nutrients Siltation Organic Enrichment/Low DO Pathogens	M M M M	Pasture Grazing Confined Animal Feeding Operation (nonpoint)	Dairy operations. Site of 319 Program nonpoint source study.

Lower Clinch River

This basin contains the following USGS Hydrologic Unit Codes: 06010207 (Clinch River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06010207 001 - 1000	WATTS BAR RESERVOIR, CLINCH RIVER ARM	Roane			PCBs Chlordane Metals	L L L	Industrial Point Source Contaminated Sediments	Fishing advisory due to PCBs. DOE Reservation impacts. Mercury is metal of concern.
TN06010207 004 – 0100	GRABLE BRANCH	Knox		1.3	Oil & Grease Siltation Other Habitat Alterations	L L L	Minor Industrial Point Source Channelization Industrial Permitted Runoff Urban Runoff/Storm Sewer	Truck stops near I-40.
TN06010207 006 - 1000	MELTON HILL RESERVOIR	Anderson		5690 ac	PCBs Chlordane	L L	Contaminated Sediment	Fishing advisory due to PCBs and chlordane.
TN06010207 011 – 0500	HINES BRANCH	Knox	3.2		Other Habitat Alterations	M	Urban Runoff/Storm Sewers	
TN06010207 011 – 0600	KNOB FORK	Knox	8.1		Siltation Other Habitat Alterations	M M	Urban Runoff/Storm Sewers	
TN06010207 011 – 0700	GRASSY CREEK	Knox	8.2		Siltation	M	Land Development	
TN06010207 011 – 0800	MEADOW CREEK	Knox	5.0		Siltation	M	Land Development	
TN06010207 011 – 1000	BEAVER CREEK	Knox	22.5		Phosphorus Nitrate Pathogens Siltation Other Habitat Alterations	M M M M M	Major Municipal Point Source Pasture Grazing Land Development	Sources for nutrients include agricultural runoff, land development, and municipal point sources.
TN06010207 011 – 2000 & 3000	BEAVER CREEK	Knox	21.2		Pathogens Siltation Other Habitat Alteration	M M M	Pasture Grazing Land Development	
TN06010207 014 – 0100	WILLIAMS BRANCH	Knox	2.4		Siltation	M	Industrial Permitted Runoff	
TN06010207 014 – 0110	FOSTER BRANCH	Knox	1.2		Siltation	M	Industrial Permitted Runoff	
TN06010207 014 – 0300	NORTH FORK BULLRUN CREEK	Knox	19.0		Unknown Toxicity	L	Minor Municipal Point Source	
TN06010207 014 – 1000	BULLRUN CREEK	Knox	11.8		Siltation Other Habitat Alterations Pathogens	M M M	Pasture Grazing Channelization	
TN06010207 014 – 3000	BULLRUN CREEK	Knox	11.4		Pathogens	M	Pasture Grazing	
TN06010207 016 – 0100	BUFFALO CREEK	Anderson	19.9		Unknown Toxicity	L	Pasture Grazing Land Development	

Final 2002 303(d) LIST (Clinch River cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE /TMDL Priority		Pollutant Source	COMMENTS
TN06010207 016 – 3000	HINDS CREEK	Anderson Union	8.9		Pathogens	M	Pasture Grazing	
TN06010207 019 – 2000	CLINCH RIVER	Anderson	7.4		Thermal Modifications Flow Alteration	L L	Upstream Impoundment	The Clinch River below Norris does not meet biocriteria due to rapid temperature and flow changes.
TN06010207 026 – 0600	BEAR CREEK	Roane	5.5		Other Habitat Alterations	M	Land Development	
TN06010207 026 – 1000	EAST FORK POPLAR CREEK	Roane		9.7	PCBs Mercury Pathogens Siltation Nutrients	L L M M M	Industrial Point Source Contaminated Sediments Collection System Failure Urban Runoff/Storm Sewers	Stream impacted by releases at DOE's Oak Ridge facilities (K-25, Y-12, ORNL). Fishing advisory due to mercury and PCBs. Bacteria levels are also elevated due to sources in the Oak Ridge area.
TN06010207 026 – 2000	EAST FORK POPLAR CREEK	Anderson		11.3	PCBs Mercury Pathogens Siltation Nutrients Other Habitat Alterations	L L M M M M	Industrial Point Source Contaminated Sediments Hydromodification Urban Runoff/Storm Sewers	Same as above.
TN06010207 029 – 1000	COAL CREEK	Anderson	10.9		Unknown Toxicity Pathogens	L M	Minor Municipal Point Source	
TN06010207 247 – 1000	WHITEOAK CREEK	Anderson	5.3		Unknown Toxicity	L	Major Industrial Point Source	

Emory River

This basin contains the following USGS Hydrologic Unit Codes: 06010208 (Emory River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE TMDL Priority		Pollutant Source	COMMENTS
TN06010208 001 - 1000	WATTS BAR RESERVOIR, EMORY RIVER ARM	Roane Morgan			PCBs Chlordane	L L	Industrial Point Source Contaminated Sediments	Fishing advisory due to PCBs. TMDL Priority: Low.
TN06010208 004 – 0200	FLAT FORK	Morgan	3.7		Nutrients Other Habitat Alterations Siltation	M H H	Pasture Grazing Channelization	TMDL Priority: Low.

Final 2002 303(d) LIST (Emery River Watershed cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority	Pollutant Source	COMMENTS
TN06010208 004 – 2000	CROOKED FORK	Morgan	16.7		Other Habitat Alterations L Siltation L	Abandoned Mining Channelization	
TN06010208 008 – 2000	CLEAR CREEK	Morgan		1.6	Oil L	Petroleum Activities	Serious oil spill in this section included in the Obed National Wild and Scenic River. The stream provides habitat for the federally listed Spotfin chub (*Cyprinella monacha*) and Tangerine darter (*Percina aurantiaca*).
TN06010208 013 – 0400	DROWNING CREEK	Cumberland	13.1		Siltation H Other Habitat Alterations H	Confined Animal Feeding Operations (Nonpoint)	
TN06010208 013 – 1000	OBED RIVER	Cumberland			This 12.4 mile section of the Obed River has been identified as "threatened" by the Division due to a documented decline in diversity at biological stations. TMDL Priority: Low.		Federally-listed species have been documented downstream of this section, but not in it. The Obed is also a Wild and Scenic River downstream.
TN06010208 013 – 2000	OBED RIVER	Cumberland		3.2	Flow Alterations L Other Habitat Alterations L	Urban Runoff/Storm Sewers Upstream Impoundment	A significant loss of expected diversity below Lake Holiday near Crossville.
TN06010208 015 – 0510	LONG BRANCH	Cumberland	2.2		Siltation L	Resource Extraction	
TN06010208 015 – 0810	ONE MILE CREEK	Cumberland	8.5		Siltation H	Land Development	
TN06010208 020 – 0400	GOLLIHER CREEK	Morgan		5.6	Manganese L Iron L	Abandoned Mines	PH TMDL developed and approved on this watershed. See Appendix C.
TN06010208 020 – 0500	FAGON MILL CREEK	Morgan		2.6	Manganese L	Abandoned Mines	PH TMDL developed and approved on this watershed. See Appendix C.
TN06010208 020 – 3000	CRAB ORCHARD CREEK	Morgan		7.9	Manganese L	Abandoned Mines	PH TMDL developed and approved on this watershed. See Appendix C.

Lower Tennessee Basin This basin contains the following USGS Hydrologic Unit Codes: 06020001 (Nickajack/Chickamauga Reservoirs).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020001 001 – 1000	NICKAJACK RESERVOIR	Marion Hamilton	10370.0 ac		PCBs Dioxins	L L	Contaminated Sediment	Precautionary fishing advisory for catfish due to PCBs and dioxin. The federally listed fish, the snail darter (Percina tansi), has been documented.
TN06020001 001T – 0200	NORTH MARKET STREET BRANCH	Hamilton		2.5	Pathogens	M	Collection System Failure	In North Chattanooga.
TN06020001 007 – 0100	FRIAR BRANCH	Hamilton		26.9	Siltation Organic Enrichment/Low DO Other Habitat Alterations Pathogens	M M M M	Land Development Urban Runoff/Storm Sewers	
TN06020001 007 – 0200	UNNAMED TRIB TO SOUTH CHICKAMAUGA CR.	Hamilton	1.1		Organic Enrichment/Low DO Other Habitat Alterations Pathogens	M M M	Collection System Failure Urban Runoff/Storm Sewers Hydromodification	
TN06020001 007 – 0510	SPRING CREEK	Hamilton		9.6	Pathogens	M	Collection System Failure	
TN06020001 007 – 1000	SOUTH CHICKAMAUGA CREEK	Hamilton	17.6		Phosphorus Other Habitat Alterations Pathogens Siltation	M L M L	Land Development Urban Runoff/Storm Sewers Channelization Sources Outside of State	The federally list fish, the snail darter (Percina tansi), has been documented. Some pollutants from GA. EPA should do TMDL.
TN06020001 029 – 0300	LEWIS CREEK	Hamilton		1.5	Other Habitat Alterations Pathogens	L M	Confined Animal Feeding Operations (Nonpoint)	
TN06020001 067 – 0100	UNNAMED TRIB TO N. CHICKAMAUGA CREEK	Hamilton	4.3		Siltation Other Habitat Alterations	L L	Land Development Hydromodification	Near Grubb Road.
TN06020001 067 – 0210	NINEMILE BRANCH	Hamilton	4.0		Low DO Other Habitat Alterations	M L	Pasture Grazing Channelization	
TN06020001 067 – 0400	STANDIFER CREEK	Sequatchie	3.9		pH	H	Abandoned Mining	
TN06020001 067 – 1100	ROGERS BRANCH	Hamilton	1.9		Pesticides Low DO Flow Alterations	L M L	Urban Runoff/Storm Sewers Upstream Impoundment Spills	Fish kill in this stream. Pesticide spill.
TN06020001 067 – 2000	N. CHICKAMAUGA CREEK	Hamilton	4.1		pH Other Habitat Alterations	H H	Abandoned Mining Hydromodification	
TN06020001 067 – 4000	N. CHICKAMAUGA CREEK	Hamilton Sequatchie	21.4		pH	H	Abandoned Mining	Headwaters of stream.

Final 2002 303(d) LIST (Lower Tennessee Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priorlty		Pollutant Source	COMMENTS
TN06020001 1240 – 0100	UNNAMED TRIB TO CITICO CREEK	Hamilton		1.2	Phosphorus Thermal Modifications Pathogens Other Habitat Alterations	M L M L	Collection System Failure Urban Runoff/Storm Sewers Hydromodification	Water contact advisory. Orchard Grove area of Chattanooga.
TN06020001 1240 – 1000	CITICO CREEK	Hamilton		6.1	Nutrients Low DO Pathogens Other Habitat Alterations	M M M L	Collection System Failure Hydromodification	
TN06020001 1244 – 0100	DOBBS BRANCH	Hamilton		5.3	Organic Enrichment/Low DO Pathogens Other Habitat Alterations	M M L	Collection System Failure Hydromodification	
TN06020001 1244 – 0200	UNNAMED TRIB TO CHATTANOOGA CR.	Hamilton		1.4	Pathogens Other Habitat Alterations	M L	Combined Sewer Overflow Hydromodification	Near Cedar Hill School.
TN06020001 1244 – 0300	MCFARLAND SPRINGS BRANCH	Hamilton		1.2	Pathogens	L	Source in Other State	Sources in Rossville. GA or EPA should do TMDL.
TN06020001 1244 – 0400	GILLESPIE SPRINGS BRANCH	Hamilton		1.9	Pathogens Other Habitat Alterations	M L	Urban Runoff/Storm Sewers Hydromodification	
TN06020001 1244 – 1000	CHATTANOOGA CREEK	Hamilton		8.4	PCBs Dioxins Organic Enrichment/Low DO Pathogens Other Habitat Alterations Oil and Grease	L L M M L L	Combined Sewer Overflow Urban Runoff/Storm Sewers Non-Industrial Permitted Hydromodification Spills Contaminated Sediment	Water contact and fishing advisories in the section. Some contaminated sediment removed by Superfund.
TN06020001 1244 – 2000	CHATTANOOGA CREEK	Hamilton		3.5	Pathogens	L	Source in Other State	Water contact advisory. Pathogens in this section originate in GA. GA or EPA should do TMDL.
TN06020001 421 – 0100	SOUTH SUCK CREEK	Marion		9.2	pH Iron Siltation	L L L	Abandoned Mining	Iron is metal of concern.
TN06020001 421 – 0200	NORTH SUCK CREEK	Marion Sequatchie	16.2		pH	L	Abandoned Mining	
TN06020001 426 – 0100	STRINGERS BRANCH	Hamilton		5.8	Pathogens Other Habitat Alterations	M L	Collection System Failure Urban Runoff/Storm sewers Hydrologic Modification	Water contact advisory. Stream heavily culverted and otherwise altered.
TN06020001 426 – 1000	MOUNTAIN CREEK	Hamilton	3.2		Other Habitat Alterations	L	Land Development Urban Runoff/Storm Sewers	Biological integrity impacted by development.
TN06020001 497 - 1000	UNNAMED TRIB. TO CHICKAMAUGA RESERVOIR	Hamilton	3.5		Cause Unknown	L	Undetermined Source	Stream near Daisy Dallas Road. Biological integrity impacted according to TVA.

Hiwassee River

This basin contains the following USGS Hydrologic Unit Codes: 06020002 (Hiwassee River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priorlty		Pollutant Source	COMMENTS
TN06020002 001 - 0100	AGENCY CREEK	Meigs	32.7		Pathogens	H	Pasture Grazing	
TN06020002 005 - 0200	UNNAMED TRIB TO CANDIES CREEK	Bradley	6.7		Siltation Other Habitat Alterations	M M	Pasture Grazing	
TN06020002 008 – 1000	HIWASSEE RIVER	Bradley McMinn	7.7		Pathogens	H	Agriculture	Fecal levels may be lower now, but not enough data to consider de-listing.
TN06020002 009 – 2000	SOUTH MOUSE CREEK	Bradley	6.5		Unknown Toxicity Siltation Other Habitat Alterations	L M M	Urban Runoff/Storm Sewers Illicit Connections/Illegal Hookups/Dry Weather Flow Channelization Bank Modification/Destabilization	Upper South Mouse Creek
TN06020002 012 – 1000	CHATATA CREEK	Bradley	27.6		Siltation Other Habitat Alterations Pathogens	M M H	Pasture Grazing	
TN06020002 018 – 3000 & 4000	HIWASSEE RIVER	Polk	11.4		Flow Alteration	L	Upstream Impoundment	Provides habitat for the federally listed Cumberland bean pearly mussel (Villosa trabalis). Section between Apalachia Dam and Powerhouse impacted by flow diversions.
TN06020002 082 – 2000	CHESTUEE CREEK	McMinn Monroe	17.9		Pathogens		Pasture Grazing	Upper Chestuee is impacted.
TN06020002 083 – 3000	OOSTANAULA CREEK	McMinn		7.4	Nutrients	L	Major Municipal Point Source Urban Runoff/Storm Sewers	Water contact advisory. A fecal coliform TMDL has been approved for this stream.(See Appendix C)
TN06020002 084 - 0500	LITTLE NORTH MOUSE CREEK	McMinn	8.5		Pathogens	H	Pasture Grazing	
TN06020002 084 - 1000	NORTH MOUSE CREEK	McMinn	45.2		Pathogens	H	Pasture Grazing	
TN06020002 085 - 1000	SPRING CREEK	McMinn	33.8		Pathogens	H	Pasture Grazing	
TN06020002 087 - 1000	ROGERS CREEK	McMinn	21.6		Pathogens	H	Pasture Grazing	
TN06020002 088 - 1000	PRICE CREEK	Meigs	6.9		Pathogens	H	Pasture Grazing	

Conasauga River

This basin contains the following USGS Hydrologic Unit Codes: 03150101 (Conasauga River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priorlty		Pollutant Source	COMMENTS
TN03150101 012 - 0200	MILL CREEK	Bradley Polk	20.1		Nitrate Pathogens	M M	Pasture Grazing	
TN03150101 012 - 0300	BALL PLAY CREEK	Polk	5.0		Nitrate Pathogens	M M	Pasture Grazing Septic Tanks	

Ocoee River

This basin contains the following USGS Hydrologic Unit Codes: 06020003 (Ocoee River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020003 001 - 0100	FOURMILE CREEK	Polk	4.8		Pathogens	M	Urban Runoff/Storm Sewers Livestock in Stream	
TN06020003 001 - 1000	OCOEE RIVER	Polk	13.0		Unknown Toxicity	L	Upstream Impoundment	Biological integrity criteria not met below Parksville.
TN06020003 004 – 1000 & 2000	PARKSVILLE RES- Ocoee Dam #1 to Baker Cr is partial. From Baker Cr to reservoir headwaters is not supporting.	Polk	704 ac	576 ac	Metals Siltation	L L	Contaminated Sediment	Parksville Reservoir fishery is improving, but sediment contamination exerts toxic effect near head of lake. Some concerns about PCBs.
TN06020003 013 - 1000	OCOEE RIVER - Parksville Res. to Ocoee #2 Dam is not supporting.	Polk		4.7	Metals Flow Alteration	L L	Resource Extraction Upstream Impoundment	Use is impacted by metals and flow alteration for power generation.
TN06020003 013.5 – 1000	OCOEE NUMBER 2 Reservoir	Polk		494 ac	Metals Siltation Flow Alteration	L L L	Contaminated Sediment Resource Extraction Upstream Impoundment	Upstream power generation causes flow alteration. Aquatic life impacted by metals and flow alteration.
TN06020003 013.55–1000	OCOEE RIVER- From Res. #2 to Dam #3 is not supporting.	Polk		3.9	Metals Siltation Flow Alteration	L L L	Contaminated Sediment Resource Extraction Upstream Impoundment	Upstream water diversion for power generation causes flow alteration. Releases of sediment-laden water from the reservoir to provide for recreational uses may cause aquatic impacts. Alternative methods to release water for recreational flows should be investigated.

Final 2002 303(d) LIST (Ocoee River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE TMDL Priority		Pollutant Source	COMMENTS
TN06020003 013.7 – 1000	OCOEE NUMBER THREE RESERVOIR	Polk		480.0 ac	Metals Siltation	L L	Abandoned Mining Contaminated Sediment	
TN06020003 014 - 0100	NORTH POTATO CREEK	Polk		6.3	Metals pH Siltation Other Habitat Alterations	L L L L	Abandoned Mining Mine Tailings Channelization Contaminated Sediments	Acid mine drainage from historical mining operations. Erosion from historic smelting operation.
TN06020003 014 - 0110	BURRA BURRA CREEK	Polk		2.2	Metals pH Siltation	L L L	Abandoned Mining Mine Tailings Mill Tailings	Acid mine drainage from historical mining operations.
TN06020003 014 - 0120	ELLIS BRANCH	Polk		2.8	Copper Zinc Iron	L L L	Mill Tailings	Historical mining operations.
TN06020003 014 - 0200	DAVIS MILL CREEK	Polk		3.8	Metals pH Siltation	L L L	Abandoned Mining Waste Storage/Storage Tank Leaks	
TN06020003 014 - 1000	OCOEE RIVER	Polk		2.5	Iron Copper pH Siltation	L L L L	Abandoned Mining	Section was originally proposed for delisting, but additional sampling in late 2002 and early 2003 indicated that water quality standards were still being exceeded.

Sequatchie River This basin contains the following USGS Hydrologic Unit Codes: 06020004 (Sequatchie River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06020004 001 - 0110	STANDIFER BRANCH	Marion	18.0		Siltation	M	Pasture Grazing Land Development	TMDL Priority: Low.
TN06020004 001 - 0600	UNNAMED TRIB TO SEQUATCHIE RIVER	Marion	2.0		Pathogens	M	Pasture Grazing	TMDL Priority: Low.
TN06020004 001 - 0910	UNNAMED TRIB TO SHELTON CREEK	Marion	6.3		Pathogens	M	Pasture Grazing	TMDL Priority: Low.
TN06020004 001 - 1100	UNNAMED TRIB TO SEQUATCHIE RIVER	Marion	1.7		Pathogens	M	Pasture Grazing	TMDL Priority: Low.
TN06020004 001 – 1300	PECK BRANCH	Marion	2.4		Pathogens	M	Pasture Grazing	TMDL Priority: Low.

Final 2002 303(d) LIST (Sequatchie River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE TMDL Priority		Pollutant Source	COMMENTS
TN06020004 005 - 0500	MCWILLIAMS CREEK	Bledsoe Sequatchie	11.2		Pathogens	M	Pasture Grazing	TMDL Priority: Low.
TN06020004 007 - 0400	HALL CREEK	Bledsoe	10.0		Pathogens	M	Pasture Grazing	
TN06020004 007 - 0600	LITTLE CREEK	Bledsoe	8.7		Pathogens	M	Pasture Grazing	
TN06020004 007 - 0630	BROWNS CREEK	Bledsoe	2.8		Pathogens	M	Pasture Grazing	
TN06020004 007 - 0800	SWAFFORD BRANCH	Bledsoe	6.5		Pathogens	M	Pasture Grazing	
TN06020004 007 - 0900	STEPHENS BRANCH	Bledsoe Cumberland	8.8		Pathogens	M	Pasture Grazing	
TN06020004 007 - 1200	MANNING SPRINGS	Cumberland	1.4		Pathogens	M	Pasture Grazing	
TN06020004 007 - 1400	UNNAMED TRIB TO SEQUATCHIE RIVER	Bledsoe	1.4		Pathogens	M	Pasture Grazing	
TN06020004 007 - 2200	SKILLERN CREEK	Bledsoe	10.60		Pathogens	M	Pasture Grazing	
TN06020004 007 - 2800	UNNAMED TRIB TO SEQUATCHIE RIVER	Bledsoe	2.3		Pathogens	M	Pasture Grazing	
TN06020004 008 - 0200	MAISE CREEK	Bledsoe	4.7		Pathogens	M	Pasture Grazing	
TN06020004 009 - 0500	GLADY FORK	Sequatchie	6.5		Manganese Other Habitat Alterations	L L	Surface Mining	
TN06020004 009 – 1000 & 2000	BIG BRUSH CREEK	Sequatchie Bledsoe	21.7		Manganese Other Habitat Alterations	L L	Surface Mining	
TN06020004 012 – 0100	UNNAMED TRIB TO WOODCOCK CREEK	Sequatchie	1.7		Iron pH	L L	Inactive Mining	Underground mining impacts.
TN06020004 014 - 0100	DANIEL CREEK	Marion	2.2		Pathogens	M	Pasture Grazing	

Guntersville Reservoir

This basin contains the following USGS Hydrologic Unit Codes: 06030001 (Guntersville Reservoir and misc. tribs).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06030001 057 - 0511	UNNAMED TRIB TO LAUREL LAKE	Marion	0.5		Nonpriority Organics Pathogens	L M	Collection System Failure Waste Storage/Tank Leaks	Laurel Lake is the water supply for Monteagle.
TN06030001 057 - 0811	HEDDEN BRANCH	Marion		1.5	Pathogens	M	Pasture Grazing Septic Tanks	Water contact advisory. No sewage treatment facility in Tracy City.
TN06030001 057 - 0812	CLOUSE HILL BRANCH	Marion		1.9	Pathogens	M	Septic Tanks	Same as above.
TN06030001 057 - 0815	LITTLE FIERY GIZZARD CREEK	Marion		3.7	Pathogens	M	Pasture Grazing Septic Tanks	Same as above.

Wheeler Lake Watershed

This basin contains the following USGS Hydrologic Unit Codes: 06030002 (Wheeler Lake).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06030002 1124 - 0200	UNNAMED TRIB TO HESTER CREEK	Lincoln	2.5		Pathogens	L	Undetermined Source	
TN06030002 1149 - 1000	FLINT RIVER	Lincoln	22.0		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	

Elk River Basin

This basin contains the following USGS Hydrologic Unit Codes: 06030003 (Upper Elk River) and 06030004 (Lower Elk River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)		Pollutant Source	COMMENTS
TN06030003 012 – 0400	ROBINSON CREEK	Franklin	23.0		Siltation	H	Agriculture	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 015 – 1000	ELK RIVER	Franklin Moore	15.4		Thermal Modification Flow Alteration	L L	Upstream Impoundment	This segment provides habitat for the federally listed shiny pigtoe and slabside pearly mussel. Tailwater releases from Tims Ford Reservoir impact Elk River. TVA tailwater improvements have helped, but not eliminated this situation.

Final 2002 303(d) LIST (Elk River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06030003 026 – 1000	DRY CREEK	Franklin	21.1		Organic Enrichment/Low DO	M	Agriculture	
TN06030003 032 – 1000	WAGNER CREEK	Franklin	18.8		Other Habitat Alterations	H	Urban Runoff/Storm Sewers	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 035 –1000	ELK RIVER	Franklin	6.2		Flow Alteration Organic Enrichment/Low DO	L M	Upstream Impoundment	
TN06030003 036 – 1000	WOODS RESERVOIR	Franklin Coffee		3908 ac	PCBs	L	Contaminated Sediments	Fishing advisory due to PCBs. Historical PCB releases from AEDC.
TN06030003 041 – 0100	YELLOW BRANCH	Franklin		7.1	Siltation Other Habitat Alterations	H H	Pasture Grazing	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 044 – 0100	BETSY WILLIS CREEK	Coffee Grundy		22.5	Siltation Other Habitat Alterations	H H	Agriculture	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 044 – 0200	PATTON CREEK	Grundy		4.2	Siltation Other Habitat Alterations	H H	Agriculture	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 044 – 0721	JUANITA CREEK	Grundy		0.8	Pathogens	M	Collection System Failure	
TN06030003 051 – 0200	BLUE SPRING CREEK	Coffee	13.0		Other Habitat Alterations	H	Nonirrigated Crop Production	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 053 – 0100	BLUE CREEK	Franklin Coffee	10.9		Cause Unknown	L	Undetermined Source	
TN06030003 053 – 2000	ROCK CREEK	Franklin		16.1	Organic Enrichment/Low DO Flow Alteration Thermal Modification Siltation	M L L H	Major Municipal Point Source Land Development	Area impacts include Tullahoma STP. Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 056 – 0300	EAST FORK MULBERRY CREEK	Moore	16.8		Siltation Organic Enrichment/Low DO	H M	Minor Municipal Point Source Pasture Grazing	Lynchburg area impacts. Siltation/habitat alteration TMDL has been completed and awaits EPA approval.

Final 2002 303(d) LIST (Elk River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)		Pollutant Source	COMMENTS
TN06030003 060 – 1000	CANE CREEK	Lincoln		44.5	Pathogens	H	Undetermined Source	
TN06030003 063 – 2000	SWAN CREEK	Lincoln	9.9		Pathogens Organic Enrichment/Low DO	H M	Confined Animal Feeding Operation (nonpoint)	Fish kills from animal feeding operation.
TN06030003 085 – 1000	CHILDER CREEK	Franklin	8.9		Nutrients Siltation	M H	Agriculture	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 435 – 1000	ROLLINS CREEK	Franklin Coffee		11.9	Thermal Modifications Flow Alterations	L L	Major Industrial Point Source	Biology very poor downstream of AEDC.
TN06030003 552 – 1000	GUM CREEK	Franklin		12.9	Siltation Other Habitat Alterations	H H	Nonirrigated Crop Production Channelization Bank Modification/Destabilization	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030003 567 – 1000	HESSEY BRANCH	Franklin		9.6	Nutrients Siltation	M H	Nonirrigated Crop Production	Same as above.
TN06030004 013 – 1000	ELK RIVER	Giles	7.4		Pathogens	H	Undetermined Source	Section is habitat for two federally listed fish species: the snail darter (Percina tanasi) and the boulder darter (Etheostoma wapiti).
TN06030004 017 – 0300	UNNAMED TRIB. TO RICHLAND CREEK-	Giles		3.2	Unknown Toxicity Siltation Other Habitat Alterations	L H H	Industrial Permitted Stormwater Urban Runoff/Storm Sewers	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030004 017 – 2000	RICHLAND CREEK	Giles	26.7		Siltation Pathogens Oil and Grease	H H L	Industrial Point Source Collection System Failure Land Development Urban Runoff/Storm Sewers	Pulaski area impacts include Denbo (oil and grease) and collection system problems. Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030004 043 – 0300	CORN CREEK	Marshall		4.0	Siltation Organic Enrichment Pathogens	H M H	Pasture Grazing Livestock in Stream	Siltation/habitat alteration TMDL has been completed and awaits EPA approval.
TN06030004 043 – 0400	TOWN CREEK	Marshall	12.5		Nitrate/Nitrite Pathogens	M H	Pasture Grazing Minor Municipal Point Source	Town Creek impacts include Cornersville STP.
TN06030004 043 – 0600	COFFEY CREEK	Marshall	3.4		Pathogens	H	Intensive Animal Feeding Operations	

Pickwick – Shoal Creek Basin

This basin contains the following USGS Hydrologic Unit Codes: 06030005 (Pickwick Reservoir, including Shoal Creek).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06030005 078 – 1000	SHOAL CREEK	Lawrence	13.2		Nutrients Other Habitat Alterations	L M	Major Industrial Point Source Major Municipal Point Source Removal of Riparian Vegetation	
TN06030005 081 – 1000	SHOAL CREEK	Lawrence	21.3		Nutrients	L	Major Industrial Point Source Major Municipal Point Source	
TN06030005 082 – 1000	SHOAL CREEK	Lawrence	2.3		Metals Pathogens	L H	Major Industrial Point Source Major Municipal Point Source Collection System Failure	
TN06030005 084 – 1000	LITTLE SHOAL CREEK	Lawrence	20.7		Siltation	M	Pasture Grazing	Documented habitat for a federally listed fish: the slackwater darter (Etheostoma boschungi).
TN06030005 106 – 0100	GRASSY CREEK	Wayne Hardin	14.9		Siltation Other Habitat Alterations	M M	Livestock in Stream Dredging	Dredging activity is gravel for road construction.

Upper Kentucky Reservoir

This basin contains the following USGS Hydrologic Unit Codes: 06040001 (Upper Kentucky Reservoir).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE /TMDL Priority		Pollutant Source	COMMENTS
TN06040001 041 - 0200	EAST PRONG DOE CREEK	Decatur Henderson	18.1		Other Habitat Alterations	H	Channelization	
TN06040001 043 - 0100	CHALK CREEK	Hardin	14.0		Siltation Other Habitat Alterations	H H	Pasture Grazing Channelization	
TN06040001 043 - 0200	MUD CREEK	McNairy Hardin	13.4		Siltation Organic Enrichment/Low DO Other Habitat Alterations	H M H	Agriculture Channelization	
TN06040001 043 - 1000	WHITEOAK CREEK	Hardin McNairy	15.1		Siltation Organic Enrichment/Low DO	H M	Nonirrigated Crop Production Channelization	
TN06040001 054 – 0800	LICK CREEK	McNairy	20.0		Siltation Other Habitat Alterations	H H	Nonirrigated Crop Production	
TN06040001 054 – 1000	SNAKE CREEK	McNairy Hardin	9.3		Siltation	H	Irrigated Crop Production	
TN06040001 054 – 1100	STANLEY BRANCH	McNairy	9.8		Siltation Organic Enrichment/Low DO Other Habitat Alterations	H M H	Pasture Grazing Landfills	
TN06040001 060 - 0300	WARDLOW CREEK	McNairy	20.9		Siltation	H	Undetermined Source	
TN06040001 060 - 0500	HOOVER BRANCH	Hardin	4.3		Unknown Toxicity	L	Undetermined Source	

Final 2002 303(d) LIST (Upper Kentucky Reservoir Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040001 060 - 2000	CHAMBERS CREEK	McNairy	4.0		Siltation Organic Enrichment/Low DO	H M	Pasture Grazing	
TN06040001 364 – 2000	EAGLE CREEK	Benton Decatur	3.9		Organic Enrichment/Low DO	H	Minor Municipal Point Source Onsite Wastewater System (Septic Tanks)	Truck stops and motels at Interstate exchange.
TN06040001 364 – 3000	EAGLE CREEK	Benton Decatur		5.1	Unionized Ammonia Organic Enrichment/Low DO Pathogens	H H M	Minor Municipal Point Source Onsite Wastewater System (Septic Tanks)	Same as above.
TN06040001 802 – 1150	BROWN'S CREEK	Henderson		0.3	Organic Enrichment/Low DO Flow Alteration	L L	Upstream Impoundment	Stream impacted by poor quality discharges from Browns Reservoir.
TN06040001 991 – 1000	ROBERTS CREEK	Humphreys		4.4	Siltation Other Habitat Alterations	M M	Silviculture Harvesting/Residue Man.	Forestry clearcut without proper BMPs.
TN06040001 1000 – 0150	JACK BRANCH	Humphreys	1.0		Siltation Other Habitat Alterations	M M	Silviculture Harvesting/Residue Man.	Same as above.
TN06040001 1000 – 0200	NORTH FORK BLUE CREEK	Humphreys	7.4		Siltation Other Habitat Alterations	M M	Silviculture Harvesting/Residue Man.	Same as above.
TN06040001 1163 – 0110	UNNAMED TRIB TO LITTLE BEECH CR.	Wayne	5.6		Siltation Other Habitat Alterations	M M	Livestock in Stream	
TN06040001 1163 – 2000	BEECH CREEK	Wayne	6.2		PCBs	L	Landfills	

Duck River Basin

This basin contains the following USGS Hydrologic Unit Codes: 06040002 (Upper Duck River) and 06040003 (Lower Duck River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040002 001 - 0300	GOOSE CREEK	Maury	7.3		Other Habitat Alteration	H	Pasture Grazing	TMDL Priority: Low.
TN06040002 002 – 0310	EAST FORK GLOBE CREEK	Marshall		8.8	Unionized Ammonia Salinity/TDS/Chlorides	L L	Landfills	The Division responded to a fish kill at this site. TMDL Priority: Low.
TN06040002 002 – 3000	FOUNTAIN CREEK	Maury	7.9		Pathogens	H	Livestock in Stream	TMDL Priority: Low.
TN06040002 012 - 0100	EAST ROCK CREEK	Marshall	16.9		Siltation Other Habitat Alterations	H H	Pasture Grazing	TMDL Priority: Low.
TN06040002 012 - 0700	SNELL BRANCH	Marshall		4.5	Siltation Other Habitat Alterations	H H	Land Development Channelization	TMDL Priority: Low.

Final 2002 303(d) LIST (Duck River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040002 012 - 2000	BIG ROCK CREEK	Marshall	9.0		Nutrients Siltation Organic Enrichment/Low DO	H H H	Major Municipal Point Source Urban Runoff/Storm Sewer	Lewisburg area impacts.
TN06040002 012 - 3000	BIG ROCK CREEK	Marshall	6.0		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN06040002 021 - 0100	LITTLE SINKING CREEK	Bedford	7.6		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN06040002 021 – 1000 & 2000	SINKING CREEK	Bedford	26.4		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN06040002 024 - 0100	DAVIS BRANCH	Bedford	2.2		Siltation	H	Pasture Grazing	
TN06040002 024 - 1000	SUGAR CREEK	Bedford		21.7	Cause Unknown	L	Undetermined Source	
TN06040002 027 - 0200	BOMAR CREEK	Bedford		4.1	Organic Enrichment/Low DO	H	Collection System Failure	Shelbyville area impacts.
TN06040002 027 - 0300	BUTLER CREEK	Bedford	14.2		Other Habitat Alterations	H	Pasture Grazing Land Development	
TN06040002 027 - 1000	DUCK RIVER	Bedford	1.6		Pathogens Siltation	H H	Collection System Failure Urban Runoff/StormSewers	Shelbyville area impacts.
TN06040002 030 - 0310	CASCADE CREEK	Bedford Coffee		2.7	Organic Enrichment/Low DO Pathogens	H H	Confined Animal Feeding Operations (NPS)	
TN06040002 030 - 1000	DUCK RIVER	Bedford	12.1		Thermal Modification Flow Alteration Manganese	L L L	Upstream Impoundment	Duck River impacted by discharges from Normandy. TVA tailwater improvements have helped, but not eliminated this situation.
TN06040002 032 - 0100	BASHAW CREEK	Coffee	16.4		Cause Unknown	L	Undetermined Source	
TN06040002 032 - 0300	CLEAR BRANCH	Coffee		7.3	Organic Enrichment/Low DO Pathogens	H H	Agriculture	
TN06040002 032 - 2000	DUCK RIVER	Coffee		2.0	Pathogens	H	Collection System Failure	Water contact advisory due to elevated bacteria levels from Manchester area sewage collection system problems and urban runoff.
TN06040002 033 - 0300	BELL BUCKLE CREEK	Bedford		11.1	Siltation Other Habitat Alterations Pathogens	H H H	Minor Municipal Point Source Livestock in Stream	Bell Buckle area impacts, incl. Bell Buckle STP.

Final 2002 303(d) LIST (Duck River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE /TMDL Priority		Pollutant Source	COMMENTS
TN06040002 038 - 0300	HURRICANE CREEK	Bedford	29.4		Pathogens Nutrients Siltation Other Habitat Alterations	H H H H	Pasture Grazing	
TN06040002 038 - 1000	FALL CREEK	Bedford	11.4		Pathogens Nutrients Siltation Other Habitat Alterations	H H H H	Pasture Grazing	
TN06040002 039 - 0100	CLEM CREEK	Bedford	14.2		Nutrients Pathogens	H H	Pasture Grazing	
TN06040002 039 - 0200	WEAKLEY CREEK	Bedford	6.2		Pathogens	H	Agriculture	
TN06040002 039 - 0250	WEAKLEY CREEK	Bedford Rutherford	13.1		Siltation Nutrients Pathogens	H H H	Agriculture	
TN06040002 039 - 0300	ALEXANDER CREEK	Bedford	21.1		Siltation Pathogens	H H	Pasture Grazing	
TN06040002 039 – 1000	NORTH FORK CREEK	Bedford	3.7		Pathogens	H	Agriculture	
TN06040002 039 – 2000	NORTH FORK CREEK	Bedford	4.0		Pathogens Nutrients	H H	Agriculture	
TN06040002 039 – 3000	NORTH FORK CREEK	Bedford	9.2		Siltation Nutrients Pathogens	H H H	Agriculture	
TN06040002 046 - 1000	WILSON CREEK	Marshall Bedford	19.5		Pathogens Nitrate Other Habitat Alterations	H H H	Pasture Grazing	
TN06040002 047 - 0300	LICK CREEK	Marshall Rutherford	8.8		Pathogens Other Habitat Alterations	H H	Livestock in Stream	
TN06040002 047 – 1000	SPRING CREEK	Marshall Rutherford	13.2		Pathogens	H	Livestock in Stream	
TN06040002 048 - 0100	THICK CREEK	Marshall Williamson	13.4		Siltation Other Habitat Alterations Pathogens	H H H	Pasture Grazing	
TN06040002 048 - 1000	CANEY CREEK	Marshall Williamson	13.1		Nitrate Siltation	H H	Livestock in Stream Removal of Riparian Vegetation	
TN06040002 049 - 0400	WALLACE BRANCH	Maury Williamson	3.8		Pathogens	H	Pasture Grazing	
TN06040002 502 – 1000	LITTLE DUCK RIVER	Coffee		10.6	Pathogens	H	Collection System Failure	Water contact advisory due to Manchester area sewage collection system problems.

Final 2002 303(d) LIST (Duck River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040003 019 – 2000	BIG BIGBY CREEK	Maury	4.6		Nitrate Pathogens	H H	Major Municipal Point Source	Middle section of stream impacted.
TN06040003 023 – 0100	QUALITY CREEK	Maury	7.1		Unionized Ammonia Siltation Other Habitat Alterations	H H H	Minor Industrial Point Source Urban Runoff/Storm Sewers Abandoned Mining	
TN06040003 023 - 0200	SUGAR CREEK	Maury	13.6		Unionized Ammonia Siltation Organic Enrichment/Low DO Salinity/TDS/Chlorides Other Habitat Alterations	H H H L H	Urban Runoff/Storm Sewers Landfills Abandoned Mining	Smelter Services landfill. Associated Commodity landfill.
TN06040003 023 - 1000	SUGAR FORK	Maury		2.0	Suspended Solids Organic Enrichment/Low DO Pathogens	L L H	Major Municipal Point Source	Mt Pleasant area sources include municipal STP.
TN06040003 027 – 0100	UNNAMED TRIB TO LITTLE BIGBY CR.	Maury	2.0		Other Habitat Alterations	H	Urban Runoff/Storm Sewer Channelization	Columbia area urban runoff impacts.
TN06040003 030 - 0100	UNNAMED TRIB TO LYTLE CREEK	Maury		1.6	Siltation Other Habitat Alterations	H H	Urban Runoff/Storm Sewers Channelization	
TN06040003 034 – 0300	MCCUTCHEON CREEK	Maury Williamson	21.8		Siltation	H	Land Development Urban Runoff/Storm Sewers	
TN06040003 034 – 0700	CROOKED CREEK	Maury	2.5		Siltation Other Habitat Alterations	H H	Pasture Grazing	
TN06040003 034 – 2000	RUTHERFORD CREEK	Maury Williamson	12.5		Siltation Organic Enrichment/Low DO	H L	Minor Municipal Point Source Land Development	Area sources include Spring Hill STP.
TN06040003 041 – 0800	POTTS BRANCH	Maury	2.9		Organic Enrichment/Low DO Pathogens Suspended Solids	H H H	Confined Animal Feeding Operation (nonpoint)	
TN06040003 041 – 0950	LUNNS BRANCH	Hickman Maury		2.4	Organic Enrichment/Low DO Pathogens	H H	Concentrated Animal Feeding Operation (permitted point)	
TN06040003 041 – 1150	DOG BRANCH	Maury		2.0	Organic Enrichment/Low DO Pathogens	H H	Concentrated Animal Feeding Operation (permitted point)	
TN06040003 050 - 0610	GRAB BRANCH	Dickson	3.9		Unknown Toxicity Siltation	L H	Pasture Grazing Urban Runoff/Storm Sewers Industrial Permitted Runoff	
TN06040003 062 – 3000	BLUE CREEK	Humphreys		5.1	Organic Enrichment/Low DO Pathogens	H H	Minor Municipal Point Source	McEwen STP

Buffalo River

This basin contains the following USGS Hydrologic Unit Codes: 06040004 (Buffalo River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040004 001 – 0250	BLACK BRANCH	Humphreys		8.9	Nonpriority Organics	L	Leaking Underground Storage Tanks	Petroleum products being lost from business(es) near I-40.
TN06040004 001 – 0900	TANYARD CREEK	Humphreys Perry		2.1	Siltation Other Habitat Alterations	H H	Logging Road Construction/ Maintenance	Road constructed for forestry activities without proper BMPs.
TN06040004 013 - 0200	WEAVER BRANCH	Lawrence		1.3	Flow Alteration Organic Enrichment/Low DO	L L	Upstream Impoundment	Creek is impacted by lack of flow and poor quality releases from VFW Lake.
TN06040004 025 - 0200	BOOKER HOLLOW	Lewis		1.8	Nutrients Organic Enrichment/ Low DO Thermal Modification Pathogens	H H L H	Failing Collection System	Hohenwald area impacts which include STP collection system problems.
TN06040004 025 - 2000	ROCKHOUSE CREEK	Lewis	5.1		Phosphorus Nitrate Other Habitat Alterations Pathogens	H H H H	Municipal Point Source Dredging	Same as above.

Lower Kentucky Reservoir

This basin contains the following USGS Hydrologic Unit Codes: 06040005 (Lower Kentucky Reservoir).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040005 022	WEST SANDY EMBAYMENT	Henry	3.7 ac		Nutrients Organic Enrichment/Low DO Siltation	L L L	Septic Tanks Recreational Activities Upstream Impoundment	TMDL Priority: Low.
TN06040005 023 – 0500	CLIFTY CREEK	Henry	15.8		Organic Enrichment/Low DO	L	Undetermined Source	319 Program project on this stream TMDL Priority: Low.
TN06040005 023 – 1000	WEST SANDY CREEK	Henry	15.0		Nutrients Siltation Other Habitat Alterations	L L L	Agriculture Urban Runoff/Storm Sewers Bank or Shoreline Modification	Same as above. TMDL Priority: Low.
TN06040005 024 – 1000	HOLLY FORK CREEK	Henry	13.8		Organic Enrichment/Low DO Pathogens Other Habitat Alterations	M M M	Pasture Grazing Channelization	TMDL Priority: Low.

Final 2002 303(d) LIST (Lower Kentucky Reservoir cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN06040005 027 – 0300	DRY CREEK	Benton	17.8		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Pasture Grazing	
TN06040005 027 – 1000	BIG SANDY RIVER	Carroll Benton	27.7		Siltation Other Habitat Alterations	L L	Channelization	
TN06040005 032 – 0150	MAPLE CREEK	Carroll	4.0		Unionized Ammonia	L	Upstream Impoundment	Creek impacted by poor quality releases from Maple Creek Lake.
TN06040005 032 – 0700	BIG BEAVER CREEK	Henderson	18.1		Other Habitat Alterations	L	Channelization	
TN06040005 032 – 0710	LITTLE BEAVER CREEK	Henderson		5.9	Nutrients Other Habitat Alterations Pathogens	M L M	Pasture Grazing Channelization	
TN06040005 032 – 0900	MUD CREEK	Carroll Henderson	24.9		Organic Enrichment/Low DO Pathogens	M M	Pasture Grazing	
TN06040005 032 – 1000	BIG SANDY RIVER	Carroll	7.3		Organic Enrichment/Low DO Pathogens	M M	Pasture Grazing	
TN06040005 032 – 2000	BIG SANDY RIVER	Carroll Henderson	12.5		Nutrients Organic Enrichment/Low DO Pathogens	M M M	Pasture Grazing	
TN06040005 047 –0800	FOURTEEN CREEK	Benton	20.7		Siltation Organic Enrichment/Low DO	L M	Pasture Grazing	
TN06040005 050 – 2000	TRACE CREEK	Humphreys	8.4		Siltation Organic Enrichment/Low DO Other Habitat Alterations	L L L	Major Municipal Point Source Land Development	Waverly area impacts, including Waverly STP.

Mississippi River Basin

This basin contains the following USGS Hydrologic Unit Codes: 08010100 (Mississippi River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010100 001 - 0200	BLUE BANK BAYOU	Lake	9.8		Nutrients Siltation	L L	Agriculture	TMDL Priority: Low.
TN08010100 001 –1000	MISSISSIPPI RIVER	Shelby		24.9	PCBs Dioxin Chlordane Nitrate Siltation Other Habitat Alterations	L L L L L L	Agriculture Urban Runoff/Storm Sewers Dredging Contaminated Sediments Sources Outside the State	Fishing advisory originally due to chlordane. EPA should develop TMDL for this large interstate water.

Final 2002 303(d) LIST (Mississippi River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010100 001 - 1100	MCKELLAR LAKE	Shelby		13.0	PCBs Chlordane Dioxin Siltation Organic Enrichment/Low DO Pathogens	L L L L L L	Collection System Failure Urban Runoff/Storm Sewers Dredging Contaminated Sediment	Fishing advisory originally due to chlordane. McKellar Lake is not really a lake.
TN08010100 001 - 2000	MISSISSIPPI RIVER	Shelby Tipton	40.0.1		PCBs Dioxin Chlordane Nitrate Siltation Other Habitat Alterations	L L L L L L	Agriculture Dredging Sources from Other States	EPA should develop TMDL for this large interstate water.
TN08010100 001 - 3000	MISSISSIPPI RIVER	Tipton Lauderdale	45.2		PCBs Dioxin Chlordane Nitrate Siltation Other Habitat Alterations	L L L L L L	Agriculture Dredging Sources from Other States	EPA should develop TMDL for this large interstate water.
TN08010100 001 - 4000	MISSISSIPPI RIVER	Dyer Lake	74.0		PCBs Dioxin Chlordane Nitrate Siltation Other Habitat Alterations	L L L L L L	Agriculture Dredging Sources from Other States	Documented habitat for a federally listed fish: the pallid sturgeon (Scaphirhynchus albus). EPA should develop TMDL for this large interstate water.
TN08010100 001 - 5000	MISSISSIPPI RIVER	Lake	10.2		PCBs Dioxin Chlordane Nitrate Siltation Other Habitat Alterations	L L L L L L	Agriculture Dredging Sources from Other States	EPA should develop TMDL for this large interstate water.
TN08010100 POPLARTLK	POPLAR TREE LAKE	Shelby		125 ac	Nutrients	L	Agriculture	No recent data on this lake.

Obion River Basin

This basin contains the following USGS Hydrologic Unit Codes: 08010202 (Obion River and North Fork Obion River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE TMDL Priority		Pollutant Source	COMMENTS
TN08010202 001 - 0100	UNNAMED TRIB TO OBION RIVER`	Obion Dyer	25.8		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 001 - 0600	DRY CREEK	Obion	6.8		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 001 - 0900	MURRAY CREEK	Dyer	6.4		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 001 – 1000, 2000 & 3000	OBION RIVER	Dyer Obion	65.6		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 001 - 4000	OBION RIVER	Obion	7.6		Siltation Other Habitat Alterations Pathogens	L L M	Nonirrigated Crop Production Channelization Undetermined Source	
TN08010202 003 - 0200	PARKER BRANCH	Gibson	10.0		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010202 003 - 1000	REEDS CREEK	Dyer Gibson	8.3		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 009 - 0200	TOMMY CREEK	Weakley	7.4		Siltation Other Habitat Alterations	L L	Channelization	
TN08010202 009 - 0700	BIGGS CREEK	Weakley	2.2		Pathogens	L	Agriculture	
TN08010202 009 - 0710	HURRICANE CREEK	Weakley	13.6		Nutrients Siltation Other Habitat Alterations Pathogens	L L L M	Agriculture Nonirrigated Crop Production Channelization	
TN08010202 009 - 1000	NORTH FORK OBION RIVER	Obion Weakley	10.4		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 009 - 1100	DRY CREEK	Henry	6.3		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010202 009 - 1700	SPRING HILL CREEK	Henry	11.6		Siltation Other Habitat Alterations	L L	Upstream Impoundment Removal of Riparian Vegetation	
TN08010202 009 - 1900	MAYO BRANCH	Weakley	7.4		Other Habitat Alterations	L	Nonirrigated Crop Production	
TN08010202 009 - 2300	STEPHENS CREEK	Weakley	9.2		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010202 009 - 2400	CAMP GROUND CREEK	Weakley	20.5		Other Habitat Alterations	L	Nonirrigated Crop Production	
TN08010202 024 - 1000	RICHLAND CREEK	Weakley Obion	12.2		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	

Final 2002 303(d) LIST (Obion River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010202 025 - 1000	HARRIS FORK CREEK	Obion	9.6		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Urban Runoff/Storm Sewers Channelization	South Fulton area impacts.
TN08010202 026 - 1000	DAVIDSON CREEK	Obion	14.6		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Pasture Grazing Channelization	
TN08010202 027 - 1000	RICHLAND CREEK	Obion	11.2		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010202 028 - 1000	CLOVER CREEK	Obion	11.7		Siltation	L	Nonirrigated Crop Production	
TN08010202 029 – 1000	RUNNING REELFOOT BAYOU	Obion Lake	23.8		Siltation Organic Enrichment Flow Alteration Nutrients Other Habitat Alterations	L L L L L	Nonirrigated Crop Production Channelization Upstream Impoundment	Two fully supporting tributaries, Paw Paw Creek and Rock Branch are reference streams for the West TN uplands.
TN08010202 036 - 1000	REELFOOT CREEK	Obion		8.0	Siltation Organic Enrichment/Low DO Flow Alteration Pathogens	L L L M	Nonirrigated Crop Production Upstream Impoundment Channelization	Channelization, erosion, agricultural runoff, and the building of sedimentation dams have caused impacts.
TN08010202 040 - 1000	BLUE BASIN, REELFOOT LAKE	Obion Lake	10950.0 ac		pH Siltation Nutrients Organic Enrichment/Low DO Flow Alteration	L L L L L	Nonirrigated Crop Production Land Development Internal Nutrient Cycling Drainage/filling wetlands Habitat Modification	The Blue Basin has been impacted by shoreline development, sedimentation, low DO, occasional fish kills, high pH, and the effects of accelerated eutrophication.
TN08010202 040 - 2000	BUCK BASIN, REELFOOT LAKE	Obion		2900.0 ac	Nutrients Siltation Noxious Aquatic Plants Organic Enrichment/Low DO	L L L L	Nonirrigated Crop Production Habitat Modification Internal Nutrient Cycling	Buck Basin has been impacted by sedimentation, low DO, submerged and emergent aquatic plants, high pH, and the Effects of accelerated eutrophication.
TN08010202 040 - 3000	UPPER BLUE BASIN, REELFOOT LAKE	Obion		1650.0 ac	Nutrients Siltation Noxious Aquatic Plants Organic Enrichment/Low DO	L L L L	Nonirrigated Crop Production Habitat Modification Internal Nutrient Cycling	Upper Blue Basin has been impacted by sedimentation, low DO, submerged & emergent aquatic plants, and the effects of accelerated eutrophication.

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010202 040T - 0500	INDIAN CREEK	Obion	11.5		Siltation Flow Alteration	L L	Nonirrigated Crop Production Upstream Impoundment	Sedimentation lake has altered stream flows.
TN08010202 041 - 1000	BAYOU DU CHIEN	Obion	5.3		Nutrients Siltation Organic Enrichment/Low DO	L L L	Nonirrigated Crop Production	
TN08010202 048 - 1000	CLOVERDALE CREEK	Obion Dyer	8.7		Other Habitat Alterations	L	Nonirrigated Crop Production Channelization	
TN08010202 054 - 1000	BIFFLE CREEK	Dyer	7.8		Other Habitat Alterations	L	Nonirrigated Crop Production Channelization	
TN08010202 419 - 1000	HOOSIER CREEK	Obion	10.3		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010202 500 - 1000	CYPRESS CREEK	Obion Weakley	12.1		Other Habitat Alterations	L	Nonirrigated Crop Production Channelization	
TN08010202 948 - 1000	MILL CREEK	Obion	17.2		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	

South Fork Obion River

This basin contains the following USGS Hydrologic Unit Codes: 08010203 (South Fork Obion River and Rutherford Fork Obion River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010203 001 - 0700	CLEAR CREEK	Carroll	3.6		Siltation Organic Enrichment/Low DO Other Habitat Alterations Pathogens	L M L M	Channelization Upstream Impoundment Undetermined Source	
TN08010203 001 - 0900	DeMOSS CREEK	Carroll	24.2		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010203 001 – 1000 & 2000	SOUTH FORK OBION RIVER	Obion Weakley Gibson	42.8		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010203 001 - 1100	THOMPSON CREEK	Carroll Gibson	20.2		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010203 001 - 1200	DOLAN CREEK	Gibson		7.7	Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010203 001 - 1600	LICK CREEK	Gibson	6.6		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010203 001 - 1610	UNNAMED TRIB TO LICK CREEK	Gibson	4.4		Siltation	L	Nonirrigated Crop Production	
TN08010203 007 - 1000	REEDY CREEK	Carroll	19.3		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	

Final 2002 303(d) LIST (South Fork Obion River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010203 010 - 2000	BEAVER CREEK	Carroll	3.4		Nutrients Siltation Organic Enrichment/Low DO	M L M	Minor Municipal Point Source Nonirrigated Crop Production Urban Runoff/Storm Sewers	
TN08010203 010 - 3000	BEAVER CREEK	Carroll	8.8		Siltation	L	Nonirrigated Crop Production	
TN08010203 011 - 1000	CROOKED CREEK	Carroll	4.7		Other Habitat Alterations	L	Nonirrigated Crop Production Channelization	
TN08010203 015 - 0100	TERRELL BRANCH	Weakley	4.6		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010203 015 - 0600	THOMPSON CREEK	Weakley	6.2		Other Habitat Alteration Flow Alteration	L L	Upstream Impoundment Channelization	Segment below Garrett Lake impacted by flow alteration from the lake, plus channelization.
TN08010203 015 - 1400	SUMMERS CREEK	Weakley	3.7		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010203 015 - 1500	MORRIS BRANCH	Weakley	4.2		Organic Enrichment/Low DO Other Habitat Alterations	M L	Nonirrigated Crop Production	
TN08010203 015 - 1800	BUCKOR DITCH	Weakley		6.2	Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010203 015 – 2000 & 3000	MIDDLE FORK OBION RIVER	Weakley Henry	26.9		Nitrate Siltation	L L	Nonirrigated Crop Production Channelization	
TN08010203 020 – 0100	CANE CREEK	Obion Weakley	16.7		Other Habitat Alterations	L	Urban Runoff/Storm Sewers	
TN08010203 020 - 2000	MUD CREEK	Weakley	11.6		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010203 032 – 1000, 2000, & 3000	RUTHERFORD FORK OBION RIVER	Obion Gibson Carroll	54.3		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010203 032 – 1200	JOHNS CREEK	Carroll	21.7		Nonpriority Organics	L	Hazardous Waste	
TN08010203 032 – 1210	HALLS BRANCH	Carroll	11.4		Nonpriority Organics	L	Hazardous Waste	
TN08010203 032 – 1300	WOLF CREEK	Gibson	21.6		Nonpriority Organics Siltation	L L	Hazardous Waste Channelization	
TN08010203 032 – 1310	EAST FORK WOLF CREEK	Gibson Carroll	8.2		Nonpriority Organics Siltation	L L	Hazardous Waste Channelization	
TN08010203 032 – 1900	EDMUNDSON CREEK	Gibson	14.7		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	

North Fork Forked Deer River This basin contains the following USGS Hydrologic Unit Codes: 08010204 (North and Middle Forks Forked Deer River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010204 001 - 1000	NORTH FORK FORKED DEER RIVER	Gibson Dyer	15.5		Nitrate Siltation	M L	Nonirrigated Crop Production Urban Runoff/Storm Sewers Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 003 - 1000	POND CREEK	Dyer Crockett		24.7	Nutrients Siltation Other Habitat Alterations	M L L	Nonirrigated Crop Production Channelization Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 005 - 1000	STOKES CREEK	Dyer Crockett	31		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010204 007 - 1000	MIDDLE FORK FORKED DEER RIVER	Gibson Crockett	15.3		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 009 - 1000	CYPRESS CREEK	Crockett	13.0		Other Habitat Alterations	L	Channelization	
TN08010204 010 - 0400	POPLAR CREEK	Madison	9.7		Other Habitat Alterations	L	Land Development Channelization	
TN08010204 010 - 0500	JOHNSON CREEK	Madison		11.0	Siltation	L	Nonirrigated Crop Production	
TN08010204 010 - 0600	DYER CREEK	Madison	30.6		Siltation Other Habitat Alterations	L L	Land Development	
TN08010204 010 - 0700	MOIZE CREEK	Madison	12.8		Siltation Other Habitat Alterations	L L	Land Development	
TN08010204 010 - 1100	BEECH CREEK	Madison Crockett	23.8		Nitrate Other Habitat Alterations	M L	Nonirrigated Crop Production Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 013 – 1000	GILME'S CREEK	Madison	15.3		Other Habitat Alterations	L	Channelization	TMDL Priority: Low.
TN08010204 014 – 0100	DRY CREEK	Madison Carroll		9.0	Nutrients Flow Alteration Other Habitat Alterations	M L L	Livestock in Stream Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 015 – 1000	TURKEY CREEK	Madison Gibson		24.3	Siltation Other Habitat Alterations	L L	Channelization Nonirrigated Crop Production Land Development	
TN08010204 016 - 1000	SUGAR CREEK	Gibson	26.5		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization Land Development	

Final 2002 303(d) LIST (North Fork Forked Deer River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010204 017 – 0100	DAVIS CREEK	Gibson	32.6		Other Habitat Alterations	L	Channelization	
TN08010204 017 – 0110	REAGAN CREEK	Gibson	13.3		Other Habitat Alterations	L	Channelization	
TN08010204 017 – 1000	BUCK CREEK	Gibson		39.8	Nutrients Siltation Other Habitat Alterations Organic Enrichment/Low DO	M L L M	Nonirrigated Crop Production Channelization Undetermined Pathogen Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 020 - 2000	NORTH FORK FORKED DEER RIVER	Gibson	8.2		Other Habitat Alterations	L	Channelization	
TN08010204 022 - 0200	BETHEL BRANCH	Dyer	30.4		Nitrate Other Habitat Alterations	M L	Channelization	
TN08010204 022 - 1000	DOAKVILLE CREEK	Dyer	36.0		Siltation Other Habitat Alterations	L L	Channelization Undetermined Pathogen Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 023 – 0200	JONES CREEK	Dyer	50.6		Other Habitat Alterations	L	Channelization	
TN08010204 023 - 1000	LEWIS CREEK	Dyer	46.3		Siltation Other Habitat Alterations	L L	Agriculture Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010204 HUMBOLDT LK – 1000	HUMBOLDT LAKE	Crockett		87 ac	Nutrients Organic Enrichment/Low DO	L L	Agriculture	

South Fork Forked Deer River

This basin contains the following USGS Hydrologic Unit Codes: 08010205 (South Fork Forked Deer River) and 08010206 (Forked Deer River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010205 001 - 1000	SOUTH FORK FORKED DEER RIVER	Lauderdale	15.6		Siltation Other Habitat Alterations	L L	Agriculture Channelization	
TN08010205 003 - 1000	SOUTH FORK FORKED DEER RIVER	Crockett Lauderdale	6.8		Siltation Other Habitat Alterations	L L	Agriculture Channelization Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.

Final 2002 303(d) LIST (South Fork Forked Deer River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010205 005 –1000	NIXON CREEK	Haywood		20.4	Siltation Organic Enrichment/Low DO Other Habitat Alterations	L M L	Agriculture Channelization Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010205 010 - 1000	SOUTH FORK FORKED DEER RIVER	Haywood Crockett	13.2		Siltation Other Habitat Alterations	L L	Agriculture Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010205 012 – 0400	SANDY CREEK	Madison		4.3	Nutrients Other Habitat Alterations	M L	Collection System Failure Urban Runoff/Storm Sewers Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010205 012 – 0500	ANDERSON BRANCH	Madison	5.2		Unknown Toxicity	L	Collection System Failure Major Industrial Point Source	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010205 012 - 0800	HICKS CREEK	Madison		28.5	Siltation	L	Resource Extraction	
TN08010205 012 - 0900	JOHNSON CREEK	Madison		44.2	Nitrate Siltation Other Habitat Alterations	M L L	Agriculture Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010205 012 – 1000	SOUTH FORK FORKED DEER RIVER	Crockett Madison	21.6		Phosphorus Siltation Other Habitat Alterations	M L L	Collection System Failure Nonirrigated Crop Production Resource Extraction Land Development Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010205 031 - 1000	BLACK CREEK	Crockett	12.9		Siltation Organic Enrichment/Low DO Other Habitat Alterations	L M L	Nonirrigated Crop Production Channelization	
TN08010205 036 - 1000	SUMROW CREEK	Lauderdale	15.7		Siltation	L	Nonirrigated Crop Production Channelization	
TN08010206 001 - 1000	FORKED DEER RIVER	Dyer Lauderdale		14.9	Siltation Other Habitat Alterations	L L	Channelization	

Hatchie River Basin

This basin contains the following USGS Hydrologic Unit Codes: 08010207 (Upper Hatchie River) and 08010208 (Lower Hatchie River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010207 031 - 1000	CYPRESS CREEK	Mc Nairy	16.7		Siltation	L	Agriculture Channelization	
TN08010207 044 - 1000	TUSCUMBIA RIVER	Mc Nairy	8.9		Siltation	L	Sources Outside of State	Channelization in Mississippi. Mississippi should do TMDL.
TN08010208 001 -0600	WADE CREEK	Hardeman Chester	27.4		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Channelization	
TN08010208 001 -0800	CUB CREEK	Hardeman	26.4		Other Habitat Alterations	L	Channelization	
TN08010208 001 -1300	SHORT CREEK	Hardeman	19.2		Other Habitat Alterations	L	Channelization	
TN08010208 001 -1600	HICKORY CREEK	Hardeman	25.5		Siltation Other Habitat Alterations	L L	Channelization	
TN08010208 002 - 0810	EAST FORK HURRICANE CREEK	Tipton		11.1	Flow Alteration	L	Upstream Impoundment	Glenn Springs Lake's poor quality releases impact downstream uses.
TN08010208 007 -1000	BIG MUDDY CREEK	Haywood	7.5		Other Habitat Alterations	L	Channelization	
TN08010208 009 - 1000	POPLAR CREEK	Haywood Fayette	17.8		Siltation	L	Agriculture Channelization	
TN08010208 011 - 2000	BEAR CREEK	Fayette	7.9		Siltation	L	Agriculture Channelization	
TN08010208 031 - 1000	SUGAR CREEK	Haywood	10.5		Siltation	L	Agriculture Urban Runoff/Storm Sewers	Brownsville area impacts.
TN08010208 032 - 1000	CYPRESS CREEK	Haywood	19.2		Siltation Organic Enrichment/Low DO	L M	Nonirrigated Crop Production	
TN08010208 033 - 1000	LAGOON CREEK	Lauderdale Haywood	19.3		Organic Enrichment/Low DO	M	Undetermined Source	
TN08010208 034 - 0100	OLD CHANNEL OF NELSON CREEK	Lauderdale		2.0	Copper Nutrients Pathogens	L M M	Major Industrial Point Source Undetermined Fecal Source	Extremely high nutrient levels. A copper TMDL has been developed for this segment and approved by EPA. However, the criteria established by the TMDL are still being violated.

Final 2002 303(d) LIST (Hatchie River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010208 034 - 0300	HYDE CREEK	Lauderdale		5.7	Nitrate Pathogens	M M	Major Industrial Point Source Collection System Failure	Extremely high nutrient levels. A copper TMDL has been developed for this segment and approved by EPA. See Appendix C.
TN08010208 034 - 0310	UNNAMED TRIB TO HYDE CREEK	Lauderdale		1.2	Nitrate	M	Major Industrial Point Source	Extremely high nutrient levels. A copper TMDL has been developed for this segment and approved by EPA. See Appendix C.
TN08010208 034 - 1000	CANE CREEK	Lauderdale	14.1		Nitrate Other Habitat Alterations	M L	Major Industrial Point Source Channelization	TMDL Priority: Low.
TN08010208 034 - 2000	CANE CREEK	Lauderdale	4.5		Copper Nitrate Other Habitat Alterations Pathogens	L M L M	Major Industrial Point Source Collection System Failure Channelization	Extremely high nutrient levels.
TN08010208 034 - 3000	CANE CREEK	Lauderdale	1.0		Nitrate Other Habitat Alterations Pathogens	M L M	Major Industrial Point Source Collection System Failure Channelization	Extremely high nutrient levels. A copper TMDL has been developed for this segment and approved by EPA. See Appendix C.
TN08010208 056 - 1000	FLAT CREEK	Tipton	8.1		Nutrients Siltation Other Habitat Alterations Pathogens	M L L M	Agriculture Channelization	
TN08010208 072 - 1000	RICHLAND CREEK	Haywood Hardeman	11.0		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production	
TN08010208 073 - 1000	RICHLAND CREEK	Tipton	11.0		Nutrients Siltation Other Habitat Alterations Pathogens	M L L M	Agriculture Channelization	
TN08010208 1866 - 1000	CARTER CREEK	Haywood	6.4		Other Habitat Alterations	L	Channelization	

Loosahatchie River Basin

This basin contains the following USGS Hydrologic Unit Codes: 08010209 (Loosahatchie River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010209 001 - 0100	TODD BRANCH	Shelby		4.9	Organic Enrichment/Low DO	M	Collection System Failure Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010209 001 - 1000	LOOSAHATCHIE RIVER	Shelby		7.8	PCBs Dioxins Chlordane Other Habitat Alterations	L L L L	Contaminated Sediment Channelization	Fishing advisory originally due to chlordane.
TN08010209 002 - 0100	OLIVER CREEK	Shelby	7.4		Siltation	L	Land Development	
TN08010209 002 - 1000	LOOSAHATCHIE RIVER	Shelby		10.3	Chlordane PCBs Dioxin Siltation Other Habitat Alterations	L L L L L	Contaminated Sediment Nonirrigated Crop Production Urban Runoff/Storm Sewers Land Development Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010209 002 - 2000	LOOSAHATCHIE RIVER	Shelby	8.2		Other Habitat Alterations	L	Confined Animal Feeding Operations (Nonpoint) Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010209 003 - 1000	CYPRESS CREEK	Shelby Fayette	20.5		Other Habitat Alterations	L	Confined Animal Feeding Operations (Nonpoint) Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010209 004 – 0100	BLACK ANKLE CREEK	Fayette	27.0		Organic Enrichment/Low DO	M	Agriculture	
TN08010209 004 – 1000	LOOSAHATCHIE RIVER	Shelby Fayette	10.0		Other Habitat Alterations	L	Channelization	
TN08010209 010 – 1000	JONES CREEK	Fayette	36.9		Nitrate/Nitrite	M	Nonirrigated Crop Production	
TN08010209 014 – 1000	LITTLE LAUREL CREEK CANAL	Fayette	38.2		Other Habitat Alterations	L	Channelization	
TN08010209 016 – 0100	WEST BEAVER CREEK	Shelby Tipton	56.6		Nutrients Phosphorus Siltation Other Habitat Alterations	M M L L	Agriculture Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010209 016 – 0300	MIDDLE BEAVER CREEK	Tipton	44.8		Nutrients Phosphorus Siltation Other Habitat Alterations	M M L L	Agriculture Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.

Final 2002 303(d) LIST (Loosahatchie River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010209 016 – 1000	BEAVER CREEK	Shelby	28.9		Siltation Other Habitat Alterations	L L	Agriculture Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010209 016 – 2000	MIDDLE BEAVER CREEK	Tipton Shelby	26.7		Other Habitat Alterations	L	Channelization	Same as above.
TN08010209 021 - 1000	BIG CREEK	Shelby	19.5		Organic Enrichment/Low DO Siltation Nitrate/Nitrite	M L M	Landfills Channelization Urban Runoff/Storm Sewers Agriculture	Covington area impacts. Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.

Wolf River Basin

This basin contains the following USGS Hydrologic Unit Codes: 08010210 (Wolf River).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010210 001 – 0100	HARRINGTON CREEK	Shelby	16.5		Lead Nutrients Organic Enrichment/Low DO Pathogens	L M L L	Urban Runoff/Storm Sewers	TMDL Priority: Low.
TN08010210 001 - 0300	WORKHOUSE BAYOU	Shelby	3.7		Pathogens	L	Urban Runoff/Storm Sewers	TMDL Priority: Low.
TN08010210 001 – 1000	WOLF RIVER	Shelby		12.8	Lead Chlordane PCBs Dioxin Siltation	L L L L L	Land Development Urban Runoff/Storm Sewers Hazardous Waste Channelization Contaminated sediments	Fishing advisory on Wolf River. Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010210 002 – 0100	SWEETBRIAR CREEK	Shelby	2.5		Other Habitat Alterations	L	Hydromodification	
TN08010210 002 – 1000	WOLF RIVER	Shelby		6.3	Chlordane PCBs Dioxin Lead Siltation	L L L L L	Contaminated Sediments Channelization Urban Runoff/Storm Sewers Land Development	Fishing advisory on Wolf River. Pathogens moved to Appendix C due to approval of a TMDL by EPA.

Final 2002 303(d) LIST (Wolf River Basin cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010210 002 – 2000	WOLF RIVER	Shelby	3.8		Lead Siltation	L L	Channelization Urban Runoff/Storm Sewers Land Development	
TN08010210 003 – 1000	WOLF RIVER	Shelby Fayette	9.7		Lead	L	Hazardous Waste	
TN08010210 005 - 0100	TEAGUE BRANCH	Fayette	17.0		Siltation Other Habitat Alterations	L L	Pasture Grazing	
TN08010210 005 - 0200	STOUT CREEK	Fayette	6.7		Siltation Organic Enrichment/Low DO	L M	Pasture Grazing Sources Outside of State	
TN08010210 005 - 1000	GRISSUM CREEK	Fayette	17.9		Siltation Organic Enrichment/Low DO	L M	Pasture Grazing	Pathogens moved to Appendix C due to approval of a TMDL by EPA.
TN08010210 009 – 0100	UNNAMED TRIB TO WOLF RIVER	Fayette	4.9		Nutrients	M	Nonirrigated Crop Production	
TN08010210 021 - 1000	SHAWS CREEK	Fayette	20.1		Organic Enrichment/Low DO	M	Undetermined Source	
TN08010210 022 - 0100	UNNAMED TRIB TO GRAYS CREEK	Shelby	8.4		Siltation Other Habitat Alterations	L L	Nonirrigated Crop Production Urban Runoff/Storm Sewers	
TN08010210 022 - 0300	MARYS CREEK	Shelby	17.4		Siltation Organic Enrichment/Low DO	L L	Agriculture Upstream Impoundment	
TN08010210 022 - 0350	MARYS CREEK	Shelby Fayette		2.5	Flow Alteration	M	Upstream Impoundment	Mary's Creek below Herb Parson's Lake impacted by lack of releases.
TN08010210 022 - 1000	GRAYS CREEK	Shelby Fayette	15.8		Copper Lead Phosphorus Siltation	L L M L	Nonirrigated Crop Production Land Development Channelization	
TN08010210 023 – 1000	FLETCHER CREEK	Shelby		10.7	Other Habitat Alterations	L	Pasture Grazing Urban Runoff/Storm Sewers Channelization	Pathogens moved to Appendix C due to approval of a TMDL by EPA.
TN08010210 032 - 1000	CYPRESS CREEK	Shelby		13.6	Nutrients Other Habitat Alterations	M L	Urban Runoff/Storm Sewers Hydromodification Channelization	Some sections of Cypress Creek concreted. Pathogens moved to Appendix C due to approval of a TMDL by EPA.

Nonconnah Creek Basin

This basin contains the following USGS Hydrologic Unit Codes: 08010211 (Nonconnah Creek).

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010211 001 – 1000	HORN LAKE CREEK	Shelby	10.3		Organic Enrichment/Low DO Pathogens	L L	Urban Runoff/Storm Sewers	
TN08010211 001 – 2000	HORN LAKE CREEK	Shelby	5.2		Organic Enrichment/Low DO Pathogens	L L	Sources Outside of State	
TN08010211 007 – 1000	CYPRESS CREEK	Shelby	18.2		Organic Enrichment/Low DO	M	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00711– 0400	TENMILE CREEK	Shelby		13.3	Organic Enrichment/Low DO	M	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00711– 0500	HURRICANE CREEK	Shelby		13.3	Organic Enrichment/Low DO Other Habitat Alterations	M L	Collection System Failure Urban Runoff/Storm Sewers Industrial Permitted Runoff Hydromodification	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00711– 0600	DAYS CREEK	Shelby		10.6	Copper Other Habitat Alterations	L L	Collection System Failure Urban Runoff/Storm Sewers Hydromodification	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00711 – 1000	NONCONNAH CREEK	Shelby		3.2	PCBs Dioxins Copper Chlordane Lead Phosphorus Siltation Other Habitat Alterations	L L L L L M L L	Urban Runoff/Storm Sewers Collection System Failure Hazardous Waste Contaminated Sediment Channelization	Fishing advisory. Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00711 – 2000	NONCONNAH CREEK	Shelby		5.0	Copper Lead Phosphorus Siltation Other Habitat Alterations	L L M L L	Urban Runoff/Storm Sewers Collection System Failure Hazardous Waste Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00711 – 3000	NONCONNAH CREEK	Shelby		4.1	Copper Lead Siltation Other Habitat Alterations	L L L L	Urban Runoff/Storm Sewers Collection System Failure Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.
TN08010211 00720– 1000	NONCONNAH CREEK	Shelby		8.3	Copper Lead Siltation Other Habitat Alterations	L L L L	Urban Runoff/Storm Sewers Collection System Failure Channelization	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.

Final 2002 303(d) LIST (Nonconnah Creek cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE / TMDL Priority		Pollutant Source	COMMENTS
TN08010211 00720– 2000	NONCONNAH CREEK	Shelby		12.6	Siltation Other Habitat Alterations	L L	Collection System Failure Channelization	
TN08010211 176 – 1000	JOHN'S CREEK	Shelby		13.7	Nitrate Organic Enrichment/Low DO	M M	Urban Runoff/Storm Sewers Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA. See Appendix C.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN05110002 00918.6	MIDDLE FORK DRAKES CREEK	Sumner	29.8		Other Inorganics Taste & odor	Petroleum activities	In the 1920's a wildcat oil well was drilled near Middle Fork Drakes Creek. The well never produced oil but rather, became a sulfur artesian spring that impacted aquatic life some distance downstream. An inter-agency effort has successfully capped the well. The stream has recovered to the point that it supports biological life. In 2000 the stream passed biological guidelines for subecoregion 71g with 21 total taxa, 7 EPT, and 3 intolerant taxa which falls within the range of conditions documented at the reference streams for subecoregion 71g.
TN05110002 0291.0	SALT LICK CREEK	Macon	24.5		Siltation Other Habitat Alterations	Channelization Land development	The reference stream database made it possible to reassess this stream. Salt Lick Creek meets the biological expectations documented at the reference streams for subecoregion 71g. TDEC personnel performed a biorecon on this stream in 2000. Salt Lick Creek passed biological and habitat guidelines for 71g with 34 total taxa, 17 EPT, and 17 intolerant taxa.
TN05130101 0091.0	CAPUCHIN CREEK	Campbell	29.8		Siltation	Abandoned Mining	The reference stream database made it possible to reassess this stream. Capuchin Creek meets the biological expectations documented at the reference streams for subecoregion 69d. TDEC personnel performed a biorecon on this stream in 1999. Capuchin Creek passed biological and habitat guidelines for 69d with 43 total taxa, 29 EPT, and 18 intolerant taxa.
TN05130104 019	NORTH WHITE OAK CREEK	Scott	77.7		pH	Abandoned Mining	The reference stream database made it possible to reassess this stream. North White Oak Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2001. North White Oak Creek passed biological and habitat guidelines for 68a with 21 total taxa, 10 EPT, and 6 intolerant taxa.
TN05130104 019_0100	MILL CREEK	Fentress	22.5		pH	Abandoned Mining	The reference stream database made it possible to reassess this stream. Mill Creek meets the biological expectations documented at the reference streams for subecoregion 69a. TDEC personnel performed a biorecon on this stream in 2001. Mill Creek passed biological and habitat guidelines for 69a with 36 total taxa, 23 EPT, 16 intolerant taxa.
TN05130104 026	CLEAR FORK RIVER	Scott	18.4		Siltation	Silviculture	The reference stream database made it possible to reassess this stream. Clear Fork River meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2001. Clear Fork River passed biological and habitat guidelines for 68a with 61 total taxa and 30 EPT.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN05130104 026_0800	CROOKED CREEK	Fentress	38.4		Siltation	Silviculture	The reference stream database made it possible to reassess this stream. Crooked Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2001. Crooked Creek passed biological and habitat guidelines for 68a with 25 total taxa, 11 EPT, and 8 intolerant taxa.
TN05130104 032	WHITEOAK CREEK	Scott	99.7		Siltation	Resource Extraction	The reference stream database made it possible to reassess this stream. Whiteoak Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2000. White Oak Creek passed biological and habitat guidelines for 68a at two locations with 34 and 53 total taxa, 17and 26 EPT, and 8 and 15 intolerant taxa.
TN05130104 032_0500	BONE CAMP CREEK	Scott	22.2		Siltation	Resource Extraction	The reference stream database made it possible to reassess this stream. Bone Camp Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2000. Bone Camp Creek passed biological and habitat guidelines for 68a with 47 total taxa, 27 EPT, and 14 intolerant.
TN05130104 032_0100	BLACK WOLF CREEK	Scott	32.2		Siltation	Resource Extraction	The reference stream database made it possible to reassess this stream. Black Wolf Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2000. Black Wolf Creek passed biological and habitat guidelines for 68a with 43 total taxa, 19 EPT, 17 intolerant taxa.
TN05130104 038	BRIMSTONE CREEK	Scott	19.4		Siltation	Silviculture Inactive Mining	The reference stream database made it possible to reassess this stream. Brimstone Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 2000. Brimstone Creek passed biological and habitat guidelines for 68a with 46 total taxa, 24 EPT, and 11 intolerant taxa.
TN05130106 018	MILL CREEK	Clay	47.8		Siltation Metals	Upstream impoundment	The reference stream database made it possible to reassess this stream. Mill Creek meets the biological expectations documented at the reference streams for subecoregion 71h. TDEC personnel performed a biorecon on this stream in 2001. Mill Creek passed biological and habitat guidelines for 71h with 27 total taxa, 13 EPT, and 11 intolerant taxa.
TN05130107 BIGCKLAKE	BIG CREEK UTILITY DISTRICT LAKE	Grundy	69.0 ac		pH Metals	Resource Extraction	With the assistance of the Division of Water Supply, the Division obtained raw water sampling data from the Big Creek Utility District. All pH and metals data were within water quality standards.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN05130108 045 – 0400	PIGEON ROOST CREEK	Putnam		2.4	Organic Enrichment Algal Growth	Major Municipal Point Source Urban Runoff/ Storm Sewers Hydromodification	The Division has added "nutrients" as a cause of impairment for this stream and as a result, will remove "organic enrichment" and "algal growth" as causes. "Nutrients" is considered sufficient to describe the condition leading to loss of biological integrity.
TN05130108 SPENCERCI TYLAKE	SPENCER CITY LAKE	Van Buren	16.0 ac		Metals	Resource Extraction	With the assistance of the Division of Water Supply, the Division obtained raw water sampling data from the Spencer Utility District. All pH and metals data were within water quality standards.
TN05130202 001 – 2000	CHEATHAM RESERVOIR	Davidson		2449 ac	Pathogens	Combined Sewer Overflow Urban runoff/storm Sewers Major Municipal Wet Weather discharge	This section of the Cumberland River within Cheatham Reservoir has been posted for many years due to combined sewer overflows from Metro Nashville. Metro has been working to correct the CSO problem and the results have been reflected in the monthly reports. The frequency and duration of bypassing events have diminished to the point that the Division has recommended that the water contact advisory be lifted from this segment. As the advisory was the basis for the 303(d) Listing, we have proposed the stream for delisting, a decision supported by Region IV.
TN05130202 001 – 4000	CHEATHAM RESERVOIR	Davidson		1000 ac	Pathogens	Combined Sewer Overflow Urban runoff/storm Sewers Major Municipal Wet Weather discharge	Same as above.
TN05130202 001 – 5000	CHEATHAM RESERVOIR	Davidson	740 ac		Pathogens	Combined Sewer Overflow Urban runoff/storm Sewers Major Municipal Wet Weather discharge	Same as above.
TN05130202 007 – 0930	UNNAMED TRIB TO OWL CREEK	Williamson	2.6		Siltation Other Habitat Alterations	Land Development	The reference stream database made it possible to reassess this stream. Unnamed tributaries to Owl Creek meet the biological expectations documented at the reference streams for subecoregion 71h. TDEC personnel performed biorecons on both of these streams in 2001. Both unnamed tributaries to Owl Creek passed biological and habitat guidelines for 71h with 19 and 24 total taxa and 5 and 8 EPT.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN05130202 015 – 1000	BIG BLUFF CREEK	Cheatham		7.4	Siltation	Recreational Activities	The reference stream database made it possible to reassess this stream. Big Bluff Creek meets the biological expectations documented at the reference streams for subecoregion 71f. TDEC personnel performed a biorecon on this stream in 2001. Big Bluff Creek passed biological and habitat guidelines for 71f with 21 total taxa, 10 EPT, and 6 intolerant taxa.
TN05130203 025 – 2000	CRIPPLE CREEK	Rutherford	31.1		Other Habitat Alterations Siltation	Pastureland Riparian Loss	The reference stream database for subecoregion 71i made it possible to reassess this stream in 2000. The 4 EPT families found in these streams fall well within the range of conditions documented at the reference streams. Like many other streams in 71i, Cripple Creek and its tribs go dry from time to time, which may contribute to the lack of intolerant families.
TN05130203 026 – 0700	CAVENDER BRANCH	Rutherford	5.5		Other Habitat Alterations	Agriculture Riparian Loss	The reference stream database for subecoregion 71h made it possible to reassess this stream in 2000. The 9 EPT families found in this stream fall within the range of conditions documented at the reference streams.
TN05130203 032 – 1000	FALL CREEK	Rutherford	65.5	4.1	Siltation	Pastureland Riparian Loss	The reference stream database for subecoregion 71h made it possible to reassess this stream in 2000. The 8 EPT families found in this stream fall within the range of conditions documented at the reference streams. (Note: 2 small tribs. are still listed)
TN05130203 539 – 1000	EAST BRANCH HAMILTON CREEK	Davidson		6.0	Organic Enrichment/ Low DO Pathogens	Collection System Failure	The historical bypass point was actually into the embayment of J. Percy Priest reservoir rather that to the tributary, East Fork Hamilton Creek. Thus, it would have been more accurate originally to have assessed the embayment as impacted rather than the stream. However, the bypassing has ceased and the Division is proposing to remove the water contact advisory from the area. East Fork Hamilton Creek will remain listed for siltation and habitat alteration.
TN05130204 010 –0600	ARKANSAS CREEK	Williamson	5.7		Other Habitat Alterations Siltation Other inorganics Organic Enrichment/ Low DO	Landfill	Williamson County landfill has worked to restore Arkansas Creek. Civil and Environmental Consultants, Inc. was hired to evaluate Arkansas and Kelley Creek after the restoration efforts. Biological samples collected at 3 locations in the Fall of 2000 passed biological criteria for subecoregion 71f. TDEC staff also reassessed the creek in 2001 at two locations downstream of the landfill. Both locations passed biological and habitat guidelines for 71f with 31 and 26 total taxa, 11 and 12 EPT, and 7 and 8 intolerant taxa.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN05130206 003	POORHOUSE BRANCH	Montgomery	2.1		Siltation	Landfill	Poorhouse Branch was originally assessed as impacted by Robertson County Landfill. In 2001,TDEC personnel performed a biorecon on this stream. Poorhouse Branch meets the biological expectations documented at the reference streams for subecoregion 71e. Poorhouse Branch passed biological criteria for 71e with 25 total taxa and 9 EPT.
TN05130206 0195.8	SOUTH FORK RED RIVER	Robertson	109.5		Siltation	Agriculture	The reference stream database made it possible to reassess this stream. South Fork Red River meets the biological expectations documented at the reference streams for subecoregion 71e. TDEC personnel performed biorecons on this stream at two locations in 2000. South Fork Red River passed biological and habitat guidelines for 71e at both locations with 29 and 25 total taxa and 11 and 8 EPT.
TN05130206 019_0300	HONEY RUN CREEK	Robertson	12.2		Siltation	Agriculture	The reference stream database made it possible to reassess this stream. Honey Run Creek meets the biological expectations documented at the reference streams for subecoregion 71e. TDEC personnel performed a biorecon on this stream in 2001. Honey Run Creek passed biological criteria for 71e with 26 total taxa and 8 EPT.
TN06010103 013 – 0100	LAUREL FORK	Carter	1.9		Other Habitat Alterations	Channelization	Although this stream was channelized in 1998, a biorecon preformed by TVA in 2001 showed that it passed biological guidelines for subecoregion 71e. Laurel Creek meets the biological expectations documented at the reference streams for subecoregion 66f. Laurel Fork had 40 total taxa, 23EPT, and 18 intolerant taxa.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN06010105 001 - 1000	FRENCH BROAD RIVER	Cocke	29.3		Metals Siltation	Source From Other State	The reference stream database made it possible to reassess this stream. French Broad River meets the biological expectations for the 2 subecoregions it crosses, 67f and 66e. In 2001, TDEC personnel performed biorecons on this stream at 2 locations. French Broad River passed biological and habitat guidelines for 67f at river mile 77.5 with 38 total taxa, 19 EPT, and 7 intolerant taxa and for ecoregion 66e at river mile 95.9 with 47 total taxa, 19 EPT, and 7 intolerant taxa.
TN06010105 003 – 1000	TRAIL FORK BIG CREEK	Cocke	3.9		Pathogens	Septic Tanks	Existing water contact advisory was lifted in 2002 after sampling indicated that the water quality standard was being met. Rehabilitation of failing septic tanks helped reduce problem.
TN06010105 003 – 1300	GULF FORK BIG CREEK	Cocke	4.3		Pathogens	Septic Tanks	Existing water contact advisory was lifted in 2002 after sampling indicated that the water quality standard was being met. Rehabilitation of failing septic tanks helped reduce problem.
TN06010106 001 – 1000, 2000 & 3000.	PIGEON RIVER-	Cocke		24.8	Dioxin	Contaminated Sediment Source Other State	Existing fishing advisory for dioxin lifted in 2003 after several years of monitoring indicated that concerntrations were well below levels of concern.
TN06010106 001 – 4000	PIGEON RIVER-	Cocke		5.0	Dioxin	Contaminated Sediment Major Industrial Point Source Source in Other State	Same as above. Stream remains listed for objectionable color.
TN06010107 025	LITTLE EAST FORK	Sevier	91.4		Nutrients Siltation	Agriculture	The reference stream database made it possible to reassess this stream. Little East Fork meets the biological expectations documented at the reference streams for subecoregions 67g and 66g. TDEC personnel performed a biorecon on this stream in 2001. Little East Fork passed biological and habitat guidelines for 67g and 66g with 47 total taxa, 24 EPT, and 11 intolerant taxa.
TN06010107 025 - 0400	DUNN CREEK	Sevier	16		Nutrients Siltation	Agriculture	The reference stream database made it possible to reassess this stream. Dunn Creek meets the biological expectations documented at the reference streams for subecoregion 66g. TDEC personnel performed biorecons on this stream at two locations in 2001. Dunn Creek passed biological and habitat guidelines for 66g at both locations with 56 and 50 total taxa, 25 and 28 EPT, and 12 and 19 intolerant taxa.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN06010201	CANEY CREEK	Roane	35.2		Siltation	Land Development	The reference stream database for subecoregion 67f made it possible to reassess this stream in 2000. The 7 EPT families found in this stream fall within the range of conditions documented at the reference streams.
TN06010201 015 - 1000	SWEETWATER CREEK	Loudon Monroe		29.3	Priority Organics Arsenic Copper Chromium	Hazardous Waste	The contaminated sediment was removed from the stream near a CERCLA cleanup site. The implementation of this control strategy has eliminated the source of priority organics, copper, and chromium. (The stream will remain listed for siltation.)
TN06010201 020	FORT LOUDOUN RESERVOIR	Knox Loudon		14600 ac	Nutrients Siltation	Urban Runoff/ Storm Sewers	Fort Loudoun Reservoir was originally listed as impacted by silt and nutrient on the basis of interpretations of water quality data provided by the Tennessee Valley Authority and the results of a national study of urban runoff that included Knoxville as a study site. Those original assessments have been reconsidered. In regard to siltation, there is no doubt that many of the Knoxville area tributaries are impacted due to land disturance activities associated with rapid urbaniztion. We have listed many of these streams are impacted by siltation on the evidence provided by habitat and biological assessments. However, it is difficult to make a convincing aurgu ment that silt is being transported to Fort Loudoun Reservoir in such amounts as to be causing a clear loss of beneficial use. On the lack of such a clear listing basis and the general absence of narrative silt criteria for lakes, it is our judgement that the original listing of the lake, rather than the tributaries, was in error. In regard to nutrients, we have spent considerable effort in developing criteria for streams, but have no such parallel effort for lakes. As a result , there is considerable uncertainly in how to apply Tennessse's existing narrative criteria to lakes. Additionally, uses are much more complicated in lakes. We originally listed Fort Loudoun as nutrient-impacted due to TVA's biomass data that indicated that generally, Fort Loudoun is more productive that some of the other TVA reservoirs. However, this is an assessment generally unrelated to state water quality standards. Due to the lack of a clear listing basis and the general absence of methods to interpret the narrative nutrient criteria for lakes, it is our judgement that the original listing of the lake, rather than the tributaries, was in error.

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Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN06010201 097- 1000	SECOND CREEK	Knox		12.8	Metals	Hazardous wastes	Coster CERCLA site source of metals. Remediation of the site has successfully eliminated the source of the metals to this stream.
TN06010208 005	EMORY RIVER	Morgan	32.2		Siltation	Abandoned Mines	This stream was reassessed in 1999 by staff from the Knoxville EAC. Stations were established at miles 41.4 & 49.0. At both sites species intolerant of pollution where found. At the upstream site, 26 EPT genera were documented. Habitat assessments at each site indicated a lack of current impacts due to historical mining activities. The upper Emory appears to be supporting its intended uses, including FAL.
TN06010208 005	GREASY CREEK	Morgan	5.1		Siltation	Silviculture	Greasy Creek was originally listed as a result of a complaint investigation in 1991. In 1999 the stream was reassessed. Greasy Creek was found to be recovered, with an excellent biological community. TDEC documented 26 total EPT taxa and 36 total taxa. As these values are as good as reference conditions in subecoregion 69d, Greasy Creek was judged to fully support its designated uses.
TN06020001 007 – 0400	WEST CHICKAMAUGA CREEK	Hamilton	3.8		Pathogens	Source in Other State	TDEC personnel sampled this creek on multiple occasions at river mile 1.7 in 2001. No WQS violations noted.
TN06020001 064 – 1000	SODDY CREEK	Hamilton	72.9		Metals Siltation pH Other Habitat Alterations	Hwy/road/bridge Construction Resource Extraction	Biological surveys by TDEC and TVA in 1999 indicated that the biological integrity criteria are now being met in Soddy Creek. TVA documented 9 EPT families at Jones Gap. TDEC noted a similar number at Back Valley Road.
TN0602002 008 – 0100	UNNAMED TRIBUTARY TO HIWASSEE RIVER	Bradley	11.3		Pathogens	Package Plant	The package plant previously impacting this small waterbody has moved its discharge to a larger stream with more flow. Thus, the source has been removed. Without the flow from the discharge, this stream appears to be a wet weather conveyance.
TN06020004 012	WOODCOCK CREEK	Sequatchie	37.8		Metals Siltation pH	Inactive Mining	A March, 2000 biological survey was performed on this stream by the Aquatic Biology Section. At mile 6.0, 9 EPT genera, and 12 total genera were documented along with an excellent habitat score (179). These values are within the expected range for sub-ecoregion 68c. Note: an unnamed trib had a pH of 4.49 and will remain listed.

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Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN06020004 013	HICKS CREEK	Sequatchie	19.6		Metals Siltation Other Habitat Alteration	Resource Extraction Channelization	March, 2000 biological surveys were performed on these streams by the Aquatic Biology Section. At mile 1.4 on Hicks Creek, 6 EPT genera, and 11 total genera were documented along with a good habitat score (142). Hicks Creek was previously dry in the fall of 1999. The EPT and habitat scores for these streams are within the expected range for sub-ecoregion 68c.
TN06020004 013_0100	KELLY CREEK	Sequatchie	7		Metals Siltation Other Habitat Alteration	Resource Extraction Channelization	The reference stream database made it possible to reassess this stream. Kelly Creek meets the biological expectations documented at the reference streams for subecoregion 68a. TDEC personnel performed a biorecon on this stream in 1999. Kelly Creek passed biological and habitat guidelines for 68a with 16 total taxa, 9 EPT, and 6 intolerant taxa.
TN06020004 014	GRIFFITH CREEK	Marion	16.5		Siltation	Silviculture Resource Extraction	A March, 2000 biological survey was performed on this stream by the Aquatic Biology Section. At mile 6.0, (downstream of Mine # 26), 14 EPT genera, and 18 total genera were documented along with a very good habitat score (153). These values are within the expected range for sub-ecoregion 68a.
TN06030001 GRUNDY1	GRUNDY LAKE # 1	Grundy	16 ac		pH	Subsurface Mining	These small lakes were sampled in conjunction with the fecal coliform surveys in Tracy City. Observed pH levels fell within the criterion range found in Tennessee's water quality standards.
TN06030001 GRUNDY2	GRUNDY LAKE # 2	Grundy	5 ac		pH	Subsurface Mining	These small lakes were sampled in conjunction with the fecal coliform surveys in Tracy City. Observed pH levels fell within the criterion range found in Tennessee's water quality standards.
TN06030003 006	COLDWATER CREEK	Lincoln	48.5		Siltation	Agriculture	Coldwater Creek was reassessed as a Group 2 watershed. A TDEC monitoring station was established at mile 1.3. 14 EPT families and 28 total families were documented. TVA had a station at mile 1.1 and identified 13 EPT families. These results are within the range of the ecoregion database and document support of fish and aquatic life.
TN06030003 065 – 1000	INDIAN CREEK	Giles	45.3		Siltation	Agriculture	In 1999, Nashville EAC staff performed a biological survey at mile 0.9. Clean water indicators were noted, including 11 EPT families (22 total families). According to the habitat assessment, siltation was not noted as a problem. Rest of watershed was also visually assessed.
TN06030003 036T	WOODS RESERVOIR TRIBS -	------	6.9	39.0	PCBs	Contaminated Sediment	The embayment portions of these streams are still impacted by the PCB advisory on Woods Reservoir. However, the streams above the embayment are free of PCBs and aquatic life is good.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN06030003 441_1000	BRUMALOW CREEK	Franklin Coffee	6.9		PCBs	Contaminated Sediment	The reference stream database made it possible to reassess this stream. Brumalow Creek meets the biological expectations documented at the reference streams for subecoregion 71g. TDEC personnel performed a biorecon on this stream in 1999. Brumalow Creek passed biological and habitat guidelines for 71g with 23 total taxa, 10 EPT, 6 intolerant taxa.
TN06030003 051_1000	BRADLEY CREEK	Coffee		39.0	PCBs	Contaminated Sediment	The reference stream database made it possible to reassess this stream. Bradley Creek meets the biological expectations documented at the reference streams for subecoregion 71g. TDEC personnel performed a biorecon on this stream in 1999. Bradley Creek passed biological and habitat guidelines for 71g with 23 total taxa, 7 EPT, and 4 intolerant taxa.
TN06030004 029_1000	WEAKLEY CREEK	Giles Lawrence	16.6		Siltation	Agriculture	The reference stream database made it possible to reassess this stream. Weakley Creek meets the biological expectations documented at the reference streams for subecoregion 71h. TDEC personnel performed a biorecon on this stream in 2001. Weakley Creek passed biological and habitat guidelines for 71h with 20 total taxa, 11 EPT, and 7 intolerant taxa.
TN06030005 082 – 1000	SHOAL CREEK	Lawrence	2.3		Unionized Ammonia Organic Enrichment/ Low DO	Major Industrial Point Source Major Municipal Point Source Collection System Failure	This section of Shoal Creek was reassessed in 2002. The stream is still considered impaired, but nutrients were substituted for the cause in the place of unionized ammonia or low DO. Chemical sampling indicated that ammonia and DO levels are meeting criteria.
TN06040001 1219 - 0300	SHAKERAG BRANCH	Wayne		3.0	Siltation Other Habitat Alterations	Road Construction Channelization Highway/Road Runoff	TDEC reassessed this stream in 1999. The 10 EPT families documented at mile 0.2 indicates the construction site has been stabilized and the stream has recovered from the previous impact.
TN06040002 028	THOMPSON CREEK	Bedford	5.5		Siltation Other Inorganics Metals	Landfill	This stream was originally assessed as impacted due to landfill leachate from Quail Hollow landfill. In 1999, Nashville EAC staff performed biological surveys on this creek at two locations. The biorecons indicate that recovery has taken place and Thompson Creek meets the biological expectations documented at the reference streams for subecoregion 71h. This creek passed biological guidelines for 71h at both locations with 23 and 21 total taxa, 10 and 10EPT, and 3 and 5 intolerant taxa.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN06040002 028_0300	BENNETT BRANCH	Bedford Moore	3.8		Siltation Other Inorganics Metals	Landfill	This stream was originally assessed as impacted due to landfill leachate from Quail Hollow landfill. In 1999, TDEC personnel performed a biorecon on this stream. The biorecon indicated that recovery has taken place and Bennett Creek meets the biological expectations documented at the reference streams for subecoregion 71h. Bennett Creek passed biological and habitat guidelines for 71h with 23 total taxa, 9 EPT, and 5 intolerant taxa.
TN06040002 028_0200	ANDERTON BRANCH	Bedford Moore		2.9	Siltation Other Inorganics Metals	Landfill	This stream was originally assessed as impacted due to landfill leachate from Quail Hollow landfill. In 1999, TDEC personnel performed a biorecon on this stream. The biorecon indicated that recovery has taken place and Anderton Creek meets the biological expectations documented at the reference streams for subecoregion 71h. Anderton Creek passed biological and habitat guidelines for 71h with 22 total taxa, 10 EPT, and 5 intolerant taxa
TN06040002 030	DODDY CREEK	Bedford	1.5		Flow Alteration Organic Enrichment/ Low DO	Upstream Impoundment	In 1998, Doddy Creek was considered impacted by poor quality discharges from Bedford Lake. In 1999, Nashville EAC staff performed biological surveys at 2 locations. Doddy Creek passed biological and habitat guidelines for 71h at both locations with 28 and 23 total taxa, 11 and 8 EPT, and 7 and 3 intolerant taxa
TN06040003 017 – 0110	CURRY BRANCH	Maury	7.4		Organic Enrichment/ Low DO Pathogens	Confined Animal Feeding Operation (nonpoint)	The original source of the pathogens and organic enrichment is no longer located on this stream. The Division located a chemical monitoring site at mile 1.0 (Cathy's Creek Road) and confirmed that water quality standards are currently being met.
TN06040001 043 - 0600	MIDDLETON CREEK	Hardin	18.5		Siltation	Agriculture	The reference stream database made it possible to reassess this stream. Middleton Creek meets the biological expectations documented at the reference streams for subecoregion 65e. TDEC personnel performed a biorecon on this stream in 2000. Middleton Creek passed biological and habitat guidelines for 65e with 24 total taxa, 9 EPT, and 2 intolerant taxa.
TN06040004 019 – 0210	NORTH FORK SAW CREEK	Lawrence	2.3		Organic Enrichment/ Low DO	Package plant	In 1999, Nashville EAC staff performed a biological survey at mile 0.3 (Saw Creek Road). The 11 EPT families found at this site indicate that the biological integrity criteria is currently being met. Additionally, chemical samples were collected at Highway 240. No WQS violations noted.
TN08010204 004 - 1000	NORTH FORK FORKED DEER RIVER	Dyer Gibson	20.6		Siltation	Nonirrigated Crop Production Channelization	1999 TDEC chemical sampling at miles 20.5 (Highway 104) and at Highway 188. No WQS violations noted.

APPENDIX A: Streams on the 1998 303 (d) List That Have Been Delisted in 2002 For Reasons Related to Water Quality

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN08010204 014 – 0500	GURLEY CREEK	Madison	17.6		Siltation Organic Enrichment/ Low DO Other Habitat Alterations	Channelization	1999 TDEC chemical sampling at Law Road. No WQS violations noted. Habitat was acceptable.
TN08010205 028 – 0100	BROWNS CREEK	Madison	2.3		Other Habitat Alterations	Upstream Impoundment	In April 2000, Jackson EAC staff performed a biological survey at Beech Bluff Road. The 7 EPT families and 25 total families documented at this site indicate that the biological integrity criteria is currently being met. The habitat score of 128 was within the acceptable range for sub-ecoregion 65e.
TN08010208 024	PORTER'S CR	Hardeman	114		Siltation	Channelization	The reference stream database made it possible to reassess this stream. Porter's Creek meets the biological expectations documented at the reference streams for subecoregion 65e. TDEC personnel performed a biorecon on this stream at two locations in 2001. Porter's Creek passed biological and habitat guidelines for 65e at both locations with 20 and 16 total taxa, 5 and 7 EPT, and 1 and 1 intolerant taxa.
TN08010208 027	PINEY CREEK	Hardeman	88.4		Siltation	Filling of Wetlands Golf Course Construction	The reference stream database made it possible to reassess this stream. Piney Creek meets the biological expectations documented at the reference streams for subecoregion 65e. TDEC personnel performed a biorecon on this stream in 2001. Piney Creek passed biological and habitat guidelines for 65e with 21 total taxa, 7 EPT, and 2 intolerant taxa.
TN08010208 029	CLOVER CR	Hardeman	167.8		Siltation	Channelization Agriculture	The reference stream database made it possible to reassess this stream. Clover Creek meets the biological expectations documented at the reference streams for subecoregion 65e. TDEC personnel performed biorecons at 2 locations on this stream in 2001. Clover Creek passed biological and habitat guidelines for 65e at both locations with 17 and 17 total taxa and 4 and 6 EPT.

APPENDIX B: Streams On The 1998 303(d) List That Have Been Delisted in 2002 For Reasons Unrelated to Water Quality Status

Waterbody ID	1998 Impacted Waterbody	County	Partial	Not	1998 CAUSE (Pollutant)	1998 Pollutant Source	Reason For Delisting
TN05130202 WATGAL	WATAUGA LAKE	Davidson	5 ac		Nutrients Organic Enrichment	Urban Runoff/ Storm Sewers	Watauga Lake was ruled a "publicly-owned lake" in the late '70s during Tennessee's original Clean Lakes statewide assessment. At five acres, it just barely met the size requirement (5 acres). Watauga Lake (not to be confused with the large TVA reservoir of the same name in East Tennessee) is a small duck pond in Nashville's Centennial Park. Its primary public use is for waterfowl feeding by bread toting children. No swimming is allowed or feasible. Under normal conditions, the lake has no outlet to other surface waters. It is the opinion of the Division that Watauga Lake could more accurately be described as a stormwater retention pond than as a publicly-owned lake. It is our judgment that Watauga Lake is meeting the public's expectation and current usage and is not appropriate for 303(d) Listing or TMDL development.
TN06010207 020	POPLAR CREEK EMBAYMENT	Anderson		5	PCBs Metals	Industrial Point Source Contaminated Sediments	This waterbody has not been taken off the 303(d) List. Since it is an embayment of Watts Bar lake, it has been added to the Watts Bar assessment. Fishing advisory in embayment. DOE Reservation impacts.
TN08010208 Mccool#1	McCOOL LAKE Number One	Haywood	18.0 ac		Nutrients	Natural	McCool Lake #1 and #2 were ruled "publicly-owned lakes" in the late '70s during Tennessee's original Clean Lakes statewide assessment. Both lakes were primarily created during the construction of Interstate 40 during the 1960's when dirt needed to create road fill was excavated, created two large borrow pits which filled with rain and overflow from the Hatchie River. Under normal conditions, these lake have limited connection to other surface waters. It is the opinion of the Division that these lakes could more accurately be described as borrow pits rather than as publicly-owned lakes. It is our judgment that these waterbodies are meeting the public's expectations and current usage. They are not appropriate for 303(d) Listing or TMDL development.
TN08010208 Mccool#2	McCOOL LAKE Number Two	Haywood	42.0 ac		Nutrients	Natural	Same as above.
TN08010210 019	SANDY BRANCH	Hardeman	4.8		Siltation Suspended Solids	Agriculture Channelization	Sandy Branch has been ruled a wet weather conveyance under Tennessee regulations. Fish and aquatic life protection criteria do not apply to wet weather conveyances.

APPENDIX C. Specific Parameters for Specific Stream Segments Proposed for Delisting Due to Completion And EPA Approval of a TMDL For that Segment*

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130107 002 – 0100	GATH BRANCH	Warren	2.9		Other Habitat Alterations	Specialty Crop Production Pasture Grazing	TMDL for siltation and habitat alteration for this watershed approved by EPA.
TN05130107 002 – 0300	UNNAMED TRIB OF MOUNTAIN CREEK	Warren		1.9	Siltation Other Habitat Alterations	Livestock in Stream Removal of Riparian Habitat	TMDL for siltation and habitat alteration for this watershed approved by EPA.
TN05130107 004 – 0100	HICKORY GROVE BRANCH	Warren	6.5		Other Habitat Alterations	Specialty Crop Production Pasture Grazing Removal of Riparian Vegetation	TMDL for siltation and habitat alteration for this watershed approved by EPA.
TN05130107 006 – 0310	MUD CREEK	Coffee	14.0		Siltation Other Habitat Alterations	Removal of Riparian Vegetation Bank Destabilization	TMDL for siltation and habitat alteration for this watershed approved by EPA.
TN05130107 006 – 0500	DOG BRANCH	Warren	9.2		Siltation Other Habitat Alterations	Removal of Riparian Vegetation Bank Destabilization	TMDL for siltation and habitat alteration for this watershed approved by EPA.
TN05130107 006 – 0700	OAKLAND BRANCH	Warren	6.3		Siltation Other Habitat Alterations	Urban Runoff/Storm Sewers Habitat Modification Removal of Riparian Vegetation	TMDL for siltation and habitat alteration for this watershed approved by EPA.
TN05130203 001 – 0100	MCCRORY CREEK	Davidson	1.4		Other Habitat Alterations	Collection System Failure Hydromodification	A habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 001 – 0150	MCCRORY CREEK	Davidson	10.7		Other Habitat Alterations	Hydromodification	A habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 003T – 0100	FINCH BRANCH	Rutherford	5.7		Other Habitat Alterations	Land Development Riparian Loss	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

* **Important Note:** Stream segments in Appendix C have been placed there because either the state or EPA has developed a TMDL for a specific pollutant and that TMDL has been approved by EPA. However, this status does not mean that the water quality standard has been met or that the stream is no longer impaired.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130203 010 – 0200	OLIVE BRANCH	Rutherford	8.1		Other Habitat Alterations	Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 010 – 0300	ROCK SPRING BRANCH	Rutherford	10.8		Siltation Other Habitat Alterations	Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 010 – 1000	STEWARTS CREEK	Rutherford	16.9		Siltation Other Habitat Alterations	Urban Runoff/Storm Sewers	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 018 – 0210	CHRISTMAS CREEK	Rutherford		12.3	Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 018 – 1000	WEST FORK STONES RIVER	Rutherford		7.6	Siltation	Major Municipal Point Source Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 018 – 2000	WEST FORK STONES RIVER	Rutherford	5.1		Siltation	Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 018 – 3000	WEST FORK STONES RIVER	Rutherford	15.2		Siltation	Pasture Grazing Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 021 – 0100	HURRICANE CREEK	Rutherford	18.1		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 021 – 0320	HENRY CREEK	Rutherford	4.2		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 022 –0200	LEES SPRING BRANCH	Rutherford		1.0	Siltation Other Habitat Alterations	Urban Runoff/Storm Sewers	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130203 022 –1000	LYTLE CREEK	Rutherford		9.0	Siltation Other Habitat Alterations	Urban Runoff/Storm Sewers Hydromodification	Lytle Creek in Murfreesboro impacted by urban runoff. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 022 – 2000	LYTLE CREEK	Rutherford	10.1		Siltation Other Habitat Alteration	Land Development	Subdivision development. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 023 – 0100	WADES BRANCH	Rutherford	7.2		Siltation Other Habitat Alteration	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 023 – 0150	WADES BRANCH	Rutherford		3.9	Siltation Other Habitat Alteration	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 023 – 0300	DRY BRANCH	Rutherford	1.6		Siltation	Pasture Grazing Land Development	Impacted by subdivision development in Murfreesboro. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 023 – 0310	BEAR BRANCH	Rutherford		3.5	Siltation Other Habitat Alterations	Pasture Grazing Land Development	Impacted by subdivision development in Murfreesboro. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 025 – 1000	CRIPPLE CREEK	Rutherford	7.7		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 026 – 0200	MCKNIGHT BRANCH	Rutherford Cannon	18.8		Other Habitat Alterations	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130203 026 – 3000	EAST FORK STONES RIVER	Cannon	11.1		Other Habitat Alterations	Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 029 – 0100	JARMAN BRANCH	Rutherford Wilson	4.4		Siltation Other Habitat Alterations	Pasture Grazing Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 029 – 0200	UNNAMED TRIB TO BRADLEY CREEK	Rutherford		2.7	Other Habitat Alterations	Pasture Grazing Livestock in Stream	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 032 – 0100	UNNAMED TRIB TO FALL CREEK	Wilson		3.0	Siltation Other Habitat Alterations	Highway/Road/Bridge Construction	Unnamed trib near Blue Well Road. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 032 – 0200	CEDAR CREEK	Wilson	1.7		Other Habitat Alterations	Livestock in Stream Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 035 – 0400	UNNAMED TRIB TO STONERS CREEK	Davidson	1.4		Siltation	Industrial Permitted Runoff Urban Runoff/Storm Sewers	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 035 – 1000	STONERS CREEK	Davidson	1.9		Siltation	Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 036 – 0100	EAST BRANCH HURRICANE CREEK	Rutherford	7.3		Siltation Other Habitat Alterations	Urban Runoff/Storm Sewers Channelization Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 036 – 1000	HURRICANE CREEK	Rutherford	8.5		Siltation	Land Development Hwy/Road/Bridge Construction	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 232 – 1000	SUGGS CREEK	Rutherford	18.1		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130203 539 – 0100	WEST FORK HAMILTON CREEK	Davidson		1.8	Siltation Other Habitat Alterations	Urban Runoff/ Storm Sewers Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130203 539 – 1000	EAST BRANCH HAMILTON CREEK	Davidson		6.0	Siltation Other Habitat Alterations	Land Development Channelization	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 001 – 0500	DOG CREEK	Cheatham		3.8	Siltation Other Habitat Alterations	Hwy/Road/Bridge Construction	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 002 – 0300	SPICER BRANCH	Dickson		4.6	Siltation Other Habitat Alterations	Land Development Channelization	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 002 –0400	UNNAMED TRIB. TO JONES CREEK	Dickson		0.5	Siltation Other Habitat Alteration	Hydromodification Golf Course Construction	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 002 –2000	JONES CREEK	Dickson	15.1		Siltation	Agriculture Land Development	Upper section of stream. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 –0300	TIDWELL BRANCH	Williamson	1.1		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 – 0500	BARREN FORK	Dickson Hickman	10.6		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 –0510	RIALS BRANCH	Dickson Hickman	1.9		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130204 006 – 0600	PARKER CREEK	Dickson	4.1		Siltation Other Habitat Alteration	Pasture Grazing Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 –0700	GOSLIN BRANCH	Dickson	4.3		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 –0800	NAILS CREEK	Dickson	7.6		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 –0920	JORDAN HOLLOW CREEK	Dickson	2.4		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 006 –0930	GUM BRANCH	Dickson	2.7		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 009 – 0200	NEWSOM BRANCH	Davidson	1.7		Siltation	Urban Runoff/Storm Sewers Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 009 – 0600	MURRAY BRANCH	Williamson	3.6		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 009 – 0800	UNNAMED TRIB. TO HARPETH RIVER	Williamson		2.1	Siltation	Urban Runoff/Storm Sewers	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 009 – 0900	TRACE CREEK	Davidson Williamson	4.9		Other Habitat Alterations	Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130204 009 – 1100	BEECH CREEK	Davidson		3.6	Other Habitat Alterations	Pasture Grazing Urban Runoff/Storm Sewers Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 010 – 0500	BEDFORD CREEK	Williamson	5.0		Siltation Other Habitat Alterations	Livestock in Stream	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 0100	POLK CREEK	Williamson	8.8		Siltation Other Habitat Alterations	Removal of Riparian Vegetation Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 0200	UNNAMED TRIB TO WEST HARPETH R.	Williamson	1.8		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 0300	UNNAMED TRIB TO WEST HARPETH R.	Williamson	1.3		Siltation	Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 0400	KENNEDY CREEK	Williamson	4.8		Siltation Other Habitat Alterations	Hwy/Road/Bridge Construction Land Development	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 0610	RATTLESNAKE BRANCH	Williamson		6.5	Other Habitat Alterations	Removal of Riparian Vegetation Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 0620	CAYCE BRANCH	Williamson	5.9		Siltation Other Habitat Alterations	Livestock in Stream	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 013 – 1000	WEST HARPETH RIVER	Williamson	13.4		Siltation	Pasture Grazing	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130204 013 – 3000	WEST HARPETH RIVER	Williamson	7.4		Siltation Other Habitat Alterations	Pasture Grazing Hwy/Road/Bridge Construction	Highway construction impacts. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 0100	LYNWOOD CREEK	Williamson	5.4		Siltation Other Habitat Alterations	Land Development Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 0200	SPENCER CREEK	Williamson	19.9		Siltation	Land Development	Site of 2000 pump station failure and fish kill. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 0300	WATSON BRANCH	Williamson	6.8		Siltation	Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 0500	ARRINGTON CREEK	Williamson	24.6		Siltation	Agriculture Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 0700	STARNES CREEK	Williamson	10.0		Siltation Other Habitat Alterations	Agriculture	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 0900	FIVEMILE CREEK	Williamson	14.4		Siltation	Agriculture	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 1100	DONELSON CREEK	Williamson		3.4	Siltation	Hwy/Road/Bridge Construction	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 016 – 3000	HARPETH RIVER	Williamson	9.0		Siltation	Agriculture Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130204 016 – 4000	HARPETH RIVER	Williamson	7.5		Siltation	Agriculture Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 018 – 0200	CONCORD CREEK	Rutherford		15.1	Other Habitat Alterations Siltation	Agriculture Removal of Riparian Vegetation	Agricultural impacts near Eagleville. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 018 – 0300	KELLEY CREEK	Rutherford		9.3	Other Habitat Alterations Siltation	Agriculture Removal of Riparian Vegetation	Agricultural impacts near Eagleville. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 018 – 0400	CHEATHAM BRANCH	Rutherford	3.4		Other Habitat Alterations Siltation	Agriculture Land Development	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 018 – 2000	HARPETH RIVER	Williamson Rutherford	2.7		Lead	Industrial Point Sources Contaminated Sediments	Legacy chemicals from General Smelting. Lead in sediment. A lead TMDL has been developed for this watershed and approved by EPA.
TN05130204 018 – 3000	HARPETH RIVER	Rutherford		7.4	Other Habitat Alterations Siltation	Agriculture Removal of Riparian Vegetation	Agricultural impacts near Eagleville. A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 021 – 0100	OTTER CREEK	Davidson	4.6		Other Habitat Alterations Siltation	Land Development Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN05130204 021 – 0200	BEECH CREEK	Williamson	7.7		Other Habitat Alterations Siltation	Land Development Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN05130204 021 – 1000	LITTLE HARPETH RIVER	Davidson Williamson	4.1		Other Habitat Alterations Siltation	Land Development Removal of Riparian Vegetation	A siltation and habitat alteration TMDL has been developed for this watershed and approved by EPA.
TN06010102 042 – 0400	LITTLE CREEK	Sullivan		0.3	Pathogens	Sources Outside State Borders	Almost the entire watershed for Little Creek is in Virginia. Virginia has completed a TMDL on this watershed and EPA has approved it.
TN06010103 034 – 0300	TOWN CREEK	Johnson	3.0		Pathogens	Minor Municipal Point Source	Impacts include Mountain City bypasses--Commissioner's Order issued as control strategy. TMDL for fecal coliform developed and approved by EPA.
TN06010103 034 – 2000	ROAN CREEK	Johnson	6.0		Pathogens	Minor Municipal Point Source Pasture Grazing	Same as above
TN06010103 046 – 1000	SINKING CREEK	Washington Carter		10.0	Pathogens	Pasture Grazing Urban Runoff/Storm Sewers	Water contact advisory. TMDL for fecal coliform developed and approved by EPA.
TN06010103 635 – 1000	KNOB CREEK (CASH HOLLOW CREEK)	Washington		12.3	Pathogens	Pasture Grazing Urban Runoff/Storm Sewers	Water contact advisory. TMDL for fecal coliform developed and approved by EPA.
TN06010201 067 – 1000	THIRD CREEK	Knox		20.7	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Water contact advisory due to pathogens. TMDL for fecal coliform approved by EPA.
TN06010201 080 – 1000	FIRST CREEK	Knox		16.1	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Water contact advisory. TMDL for fecal coliform approved by EPA.
TN06010201 097- 1000	SECOND CREEK	Knox		12.8	Pathogens	Urban Runoff/Storm Sewers Collection System Failure	Water contact advisory. TMDL for fecal coliform approved by EPA.
TN06010201 1719 – 1000	WILLIAMS CREEK	Knox		2.8	Pathogens	Urban Runoff/Storm Sewers	TMDL for fecal coliform approved by EPA.
TN06010201 1721 – 1000	BAKER CREEK	Knox		3.3	Pathogens	Urban Runoff/Storm Sewers	TMDL for fecal coliform approved by EPA.
TN06010201 1723 – 1000	GOOSE CREEK	Knox		4.9	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Water contact advisory due to pathogens. TMDL for fecal coliform approved by EPA.
TN06010208 020 – 0100	SMITH BRANCH	Morgan	5.4		PH	Abandoned Mines	pH TMDL was developed for this watershed and was approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN06010208 020 – 0400	GOLLIHER CREEK	Morgan		5.6	pH	Abandoned Mines	pH TMDL was developed for this watershed and was approved by EPA.
TN06010208 020 – 0500	FAGON MILL CREEK	Morgan		2.6	pH	Abandoned Mines	pH TMDL was developed for this watershed and was approved by EPA.
TN06010208 020 – 0600	LAUREL CREEK	Morgan	2.7		pH	Abandoned Mines	pH TMDL was developed for this watershed and was approved by EPA.
TN06010208 020 – 2000	CRAB ORCHARD CREEK	Morgan	2.3		pH	Abandoned Mines	pH TMDL was developed for this watershed and was approved by EPA.
TN06010208 020 – 3000	CRAB ORCHARD CREEK	Morgan		7.9	PH	Abandoned Mines	pH TMDL was developed for this watershed and was approved by EPA.
TN06020002 083 – 1000	OOSTANAULA CREEK	McMinn	5.7		Pathogens	Pasture Grazing	A fecal coliform TMDL has been developed for this watershed and was approved by EPA.
TN06020002 083 – 2000	OOSTANAULA CREEK	McMinn		21.1	Pathogens	Pasture Grazing	Water contact advisory. A fecal coliform TMDL has been developed for this watershed and was approved by EPA.
TN06020002 083 – 3000	OOSTANAULA CREEK	McMinn		7.4	Pathogens	Major Municipal Point Source Urban Runoff/Storm Sewers	Water contact advisory due to bypassing & collection system problems in Athens. A fecal coliform TMDL has been developed for this watershed and was approved by EPA.
TN06020002 083 – 4000	OOSTANAULA CREEK	McMinn		8.5	Pathogens	Pasture Grazing	Water contact advisory. 319 Project in this section. A fecal coliform TMDL has been developed for this watershed and was approved by EPA.
TN06020002 083 – 5000	OOSTANAULA CREEK	Monroe	6.2		Pathogens	Pasture Grazing	A fecal coliform TMDL has been developed for this watershed and was approved by EPA.
TN06020002 081 - 0100	CANE CREEK	McMinn	13.7		Pathogens	Pasture Grazing Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN08010204 001 - 1000	NORTH FORK FORKED DEER RIVER	Gibson Dyer	15.5		Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 003 - 1000	POND CREEK	Dyer Crockett		24.7	Pathogens	Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 007 - 1000	MIDDLE FORK FORKED DEER RIVER	Gibson Crockett	15.3		Pathogens	Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 010 – 1000	MIDDLE FORK FORKED DEER R.	Crockett Madison	9.5		Pathogens	Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 010 - 1100	BEECH CREEK	Madison Crockett	23.8		Pathogens	Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 014 – 0100	DRY CREEK	Madison Carroll		9.0	Pathogens	Livestock in Stream	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 017 – 1000	BUCK CREEK	Gibson		39.8	Pathogens	Undetermined Pathogen Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 022 - 1000	DOAKVILLE CREEK	Dyer	36.0		Pathogens	Undetermined Pathogen Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010204 023 - 1000	LEWIS CREEK	Dyer	46.3		Pathogens	Agriculture	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 003 - 1000	SOUTH FORK FORKED DEER RIVER	Crockett Lauderdale	6.8		Pathogens	Agriculture Undetermined Fecal Source	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 005 –1000	NIXON CREEK	Haywood		20.4	Pathogens	Agriculture Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 010 - 1000	SOUTH FORK FORKED DEER RIVER	Haywood Crockett	13.2		Pathogens	Agriculture	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 012 – 0400	SANDY CREEK	Madison		4.3	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 012 – 0500	ANDERSON BRANCH	Madison	5.2		Pathogens	Collection System Failure Major Industrial Point Source	Pathogen TMDL for this waterbody developed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN08010205 012 - 0900	JOHNSON CREEK	Madison		44.2	Pathogens	Agriculture	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 012 – 1000	SOUTH FORK FORKED DEER RIVER	Crockett Madison	21.6		Pathogens	Collection System Failure	General impacts from development in the Jackson area. Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010205 028 - 1000	NORTH FORK OF THE SOUTH FORK FORKED DEER	Madison Henderson	24.4		Pathogens	Pasture Grazing	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010208 034 - 0300	HYDE CREEK	Lauderdale		5.7	Copper	Major Industrial Point Source Collection System Failure	A copper TMDL has been developed for this segment and approved by EPA.
TN08010208 034 - 0310	UNNAMED TRIB TO HYDE CREEK	Lauderdale		1.2	Copper	Major Industrial Point Source	A copper TMDL has been developed for this segment and approved by EPA.
TN08010208 034 - 3000	CANE CREEK	Lauderdale	1.0		Copper	Major Industrial Point Source Collection System Failure	A copper TMDL has been developed for this segment and approved by EPA.
TN08010209 001 - 0100	TODD BRANCH	Shelby		4.9	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010209 002 - 1000	LOOSAHATCHIE RIVER	Shelby		10.3	Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010209 002 - 2000	LOOSAHATCHIE RIVER	Shelby	8.2		Pathogens	Confined Animal Feeding Operations (Nonpoint)	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010209 003 - 1000	CYPRESS CREEK	Shelby Fayette	20.5		Pathogens	Confined Animal Feeding Operations (Nonpoint)	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010209 016 – 0100	WEST BEAVER CREEK	Shelby Tipton	56.6		Pathogens	Agriculture	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010209 016 – 0300	MIDDLE BEAVER CREEK	Tipton	44.8		Pathogens	Agriculture	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010209 016 – 1000	BEAVER CREEK	Shelby	28.9		Pathogens	Agriculture	Pathogen TMDL for this waterbody developed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN08010209 021 - 1000	BIG CREEK	Shelby	19.5		Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010210 001 – 1000	WOLF RIVER	Shelby		12.8	Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010210 005 - 1000	GRISSUM CREEK	Fayette	17.9		Pathogens	Pasture Grazing	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010210 023 - 0200	UNNAMED TRIB TO FLETCHER CREEK	Shelby		6.5	Pathogens	Livestock in Stream	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010210 023 – 1000	FLETCHER CREEK	Shelby		10.7	Pathogens	Pasture Grazing Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010210 032 - 1000	CYPRESS CREEK	Shelby		13.6	Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 007 - 1000	CYPRESS CREEK	Shelby	18.2		Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00711– 0400	TENMILE CREEK	Shelby		13.3	Pathogens	Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00711– 0500	HURRICANE CREEK	Shelby		13.3	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00711– 0600	DAYS CREEK	Shelby		10.6	Pathogens	Collection System Failure Urban Runoff/Storm Sewers	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00711 - 1000	NONCONNAH CREEK	Shelby		3.2	Pathogens	Urban Runoff/Storm Sewers Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00711 - 2000	NONCONNAH CREEK	Shelby		5.0	Pathogens	Urban Runoff/Storm Sewers Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00711 - 3000	NONCONNAH CREEK	Shelby		4.1	Pathogens	Urban Runoff/Storm Sewers Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 00720– 1000	NONCONNAH CREEK	Shelby		8.3	Pathogens	Urban Runoff/Storm Sewers Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA.

Appendix C (cont.)

Waterbody ID	Impacted Waterbody	County	Partial	Not	CAUSE (Pollutant)	Pollutant Source	COMMENTS
TN08010211 00720– 2000	NONCONNAH CREEK	Shelby		12.6	Pathogens	Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA.
TN08010211 176 - 1000	JOHN'S CREEK	Shelby		13.7	Pathogens	Urban Runoff/Storm Sewers Collection System Failure	Pathogen TMDL for this waterbody developed and approved by EPA.

APPENDIX D: Federally Listed Endangered Aquatic Species in the State of Tennessee

Scientific Name	Common Name	Status	Total Obs.	Pre-1975 obs.	Post-1975 obs.	HUC location of endangered species post-1975	Extirpated since 11/1975	When Listed	Federal Register Citation
Fish									
Cyprinella caerulea	Blue shiner	T	9	1 obs. 1974	8 obs. 1982-2000	03150101	No	462	57 FR 14790; April 22,1992
Cyprinella monacha	Spotfin chub	T	38	17 obs. 1936-08/1975	21 obs. 1977-2000	06010208 06010204 06010104 06010101 06010205 06010206 06040004	No	28	42 FR 45528; Sept. 9, 1977
Erimystax cahni	Slender chub	T	15	5 obs. 1941-1974	10 obs. 1979-1993	06010205 06010206 05130108	No	28	42 FR 45528; Sept. 9, 1977
Etheostoma boschungi	Slackwater darter	T	15	5 obs. 1971-1974	10 obs. 1976-1994	06040004 06030005 06030002	No	28	42 FR 45528; Sept. 9, 1977
Etheostoma percnurum	Duskytail darter	E	11	1 obs. 1947	10 obs. 1992-2000	06010201 05130104 06010201 06010204	No	502	58 FR 25763; April 27, 1993
Etheostoma wapiti	Boulder darter	E	11	0	11 obs. 1983-2001	06030004 06030003	No	322	53 FR 33998; Sept. 1, 1988
Notropis albizonatus	Palezone shiner	E	2	1 obs. 1936	1 obs. 1978	06010205	Yes*	502	58 FR 25763; April 27, 1993
Noturus baileyi	Smoky madtom	E	16	1 obs. 1957	15 obs. 1981-1995	06010204	No	163	49 FR 43069; Oct. 26, 1984
Noturus flavipinnis	Yellowfin madtom	T	11	5 obs. 1884-1970	6 obs. 1981-1998	06010206 06010204 06010207	No	28 Or 317	42 FR 455528; Sept. 9, 1977 Or 53 FR 29337; Aug. 4, 1988
Noturus stanauli	Pygmy madtom	E	5	1 obs. 1974	4 obs. 1978-1996	06040003 06010205	No	502	58 FR 25763; April 27, 1993
Percina antesella	Amber darter	E	6	3 obs. 1969-1973	3 obs. 1976-1978	05130101	No	196	50 FR 31603; Aug. 5, 1985
Percina jenkinsi	Conasauga logperch	E	7	3 obs. 1969	4 obs. 1985-2001	03150101	No	196	50 FR 31603; Aug. 5, 1985

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Scientific Name	Common Name	Status	Total Obs.	Pre-1975 obs.	Post-1975 obs.	HUC location of endangered species post-1975	Extirpated since 11/1975	When Listed	Federal Register Citation
Percina tanasi	Snail darter	T	47	3 obs. 1974-09/1975	44 obs. 1976-2000	06010201 06020001 06020002 06010204 06020004 06030004 06010104 06010108 06010107 06010201 06020003	No	12 Or 150	40 FR 47506; Oct. 9, 1975 Or 49 FR 27514; July 5, 1984
Phoxninus cumberlandensis	Blackside dace	T	26	0	26 obs. 1985-2000	05130101	No	273	52 FR 22585; June 12, 1987
Scaphirhynchus albus	Pallid sturgeon	E	3	0	3 obs. 1990	08010100	No	399	55 FR 36647; Sept. 6, 1990
Crustaceans									
Orconectes shoupi	Nashville crayfish	E	57	0	57 obs 1981-2000	5130202	No	242	51 FR 34412; Sept. 26, 1986
Mollusca									
Alasmidonta atropurpurea	Cumberland elktoe	E	19	0	19 obs. 1978-2000	05130104 05130107	No	602	62 FR 1657; Jan. 10, 1997
Alasmidonta raveneliana	Appalachian elktoe	E	1	0	1 obs. 1992	06010108	Yes*	563	59 FR 60334; Nov. 23, 1994
Cyprogenia stegaria (irrorata)	Eastern fanshell pearlymussel	E	30	4 obs 1936-1974	26 obs 1978-1999	05130108 06010205 06020001 06040001	No	391	55 FR 25595; June 21, 1990
Dromus dromas	Dromedary pearlymussel	E	71	32 obs 1899-1964	39 obs 1975-1999	05130108 05130201 06010205 06010206 06020001	No	15	41 FR 24064; June 14, 1976

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Scientific Name	Common Name	Status	Total Obs.	Pre-1975 obs.	Post-1975 obs.	HUC location of endangered species post-1975	Extirpated since 11/1975	When Listed	Federal Register Citation
Epioblasma brevidens	Cumberlandian combshell	E	46	0	46 obs 1975-2000	05130104 05130108 05130201 05130202 06010205 06010206 06040002 06040003	No	602	62 FR 1657; Jan. 10, 1997
Epioblasma capsaeformis	Oyster mussel	E	38	0	38 obs 1979-2000	05130108 06010205 06010206 06040002	No	602	62 FR 1657; Jan. 10, 1997
Epioblasma florentina florentina	Yellow-blossom pearlymussel	E	25	23 obs 1913-1973	2 obs 1979-1981	05130201	Yes*	15	41 FR 24064; June 14, 1976
Epioblasma metastriata	Upland combshell	E	1	1 obs pre-1974	0	03150101	Yes*	495	58 FR 14339; March 17, 1993
Epioblasma obliquata obliquata	Purple cat's paw pearlymussel	E	2	0	2 obs 1979-1982	05130201	No	394	55 FR 28213; July 10, 1990
Epioblasma torulosa gubernaculums	Green-blossom pearlymussel	E	13	11 obs 1913-1935	2 obs 1975-1979	06010205 06010206	Yes*	15	41 FR 24064; June 14, 1976
Epioblasma torulosa torulosa	Tubercled-blossom pearlymussel	E	8	6 obs 1919-1965	2 obs 1981	05130201	Yes*	15	41 FR 24064; June 14, 1976
Epioblasma turgidula	Turgid-blossom pearlymussel	E	17	16 obs pre-1886-1972	1 obs 1979	06040003	Yes*	15	41 FR 24064; June 14, 1976
Fusconaia cor (edgariana)	Shiny pigtoe	E	56	16 obs 1913-1967	40 obs 1975-1998	06010205 06010206 06030003	No	15	41 FR 24064; June 14, 1976
Fusconaia cuneolus	Fine-rayed pigtoe	E	49	21 obs 1899-1973	28 obs 1978-1998	06010101 06010201 06010205 06010206 06030003	No	15	41 FR 24064; June 14, 1976
Hemistena lata	Cracking pearlymussel	E	33	9 obs 1914-1970	24 obs 1975-1999	06010205 06010206 06030003 06040001	No	36	43 FR 12691; March 27, 1978

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Scientific Name	Common Name	Status	Total Obs.	Pre-1975 obs.	Post-1975 obs.	HUC location of endangered species post-1975	Extirpated since 11/1975	When Listed	Federal Register Citation
Lampsilis abrupta	Pink mucket pearlymussel	E	81	12 obs 1920-1973	69 obs 1975-2001	05130108 05130201 06010104 06010107 06010201 06010205 06010207 06020001 06040001 06030001 06040005	No	15	41 FR 24064; June 14, 1976
Lampsilis virescens	Alabama lampmussel	E	6	5 obs 1915-1974	1 obs 1995	06030002	Yes*	15	41 FR 24064; June 14, 1976
Medionidus parvulus	Coosa moccasinshell	E	8	1 obs 1973	7 obs 1997-1999	03150101	No	495	58 FR 14339; March 17, 1993
Obovaria retusa	Ring pink mussel	E	14	7 obs 1924-1964	7 obs 1978-1999	05130201 06040001	No	369	54 FR 40112; Sept. 29, 1989
Pegias fabula	Little-wing pearlymussel	E	11	5 obs 1914-1966	6 obs 1981-2000	05130104 05130107 05130108	No	342	53 FR 45865; Nov. 14, 1988
Plethobasus cicatricosus	White wartyback pearlymussel	E	11	4 obs 1956-1964	7 obs 1978-1987	05130201 06040001	No	15	41 FR 24064; June 14, 1976
Plethobasus cooperianus	Orange-foot pimpleback pearlymussel	E	41	19 obs 1895-1970	22 obs 1978-1999	05130201 06010201 06010206 06020001 06040001	No	15	41 FR 24064; June 14, 1976
Pleurobema clava	Clubshell	E	3	0	3 obs 1978-1992	5130108 06040001	No	488	58 FR 5642; Jan. 22, 1993
Pleurobema georgianum	Southern pigtoe	E	11	1 obs pre-1975	10 obs 1995-1997	03150101	No	495	58 FR 14339; March 17, 1993
Pleurobema gibberum	Cumberland pigtoe	E	13	0	13 obs 1976-1998	05130107 05130108 06030003	No	423	56 FR 21087; May 7, 1991
Pleurobema plenum	Rough pigtoe	E	17	3 obs 1920-1964	14 obs 1979-1998	05130201 06010205 06020001 06040001	No	15	41 FR 24064; June 14, 1976

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Scientific Name	Common Name	Status	Total Obs.	Pre-1975 obs.	Post-1975 obs.	HUC location of endangered species post-1975	Extirpated since 11/1975	When Listed	Federal Register Citation
Ptychobranchus greeni	Triangular kidneyshell	E	2	0	2 obs 1980-1995	03150101	Yes*	495	58 FR 14339; March 17, 1993
Quadrula cylindrica strigillata	Rough rabbitfoot	E	24	1 obs 1960	23 obs 1975-1999	06010205 06010206	No	602	62 FR 1657; Jan. 10, 1997
Quadrula intermedia	Cumberland monkeyface pearlymussel	E	45	15 obs 1900-1973	30 obs 1975-2001	06010206 06030003 06040002	No	15	41 FR 24064; June 14, 1976
Quadrula sparsa	Applachian monkeyface pearlymussel	E	11	2 obs 1958-1964	9 obs 1976-1998	05130201 06010206	No	15	41 FR 24064; June 14, 1976
Toxolasma cylindrellus	Pale lilliput pearlymussel	E	13	10 obs 1886-1970	3 obs 1982-1995	06030002 06040002 06040003	Yes*	15	41 FR 24064; June 14, 1976
Villosa perpurpurea	Purple bean	E	10	3 obs 1913-1970	7 obs 1985-2000	06010104 06010208	No	602	62 FR 1657; Jan. 10, 1997
Villosa trabalis	Cumberland bean pearlymussel	E	17	4 obs 1913-1939	13 obs 1980-2000	05130104 05130108 06010104 06010208 06020002	No	15	41 FR 24064; June 14, 1976
Snails									
Athearnia anthonyi	Anthonys River Snail	E	14	6 obs 1941-1965	8 obs 1975-1994	06010201 06010205 06020004 06030001	No	538	59 FR 17998; April 15, 1994
Pyrgulopsis (Marstonia) ogmorhaphe	Royal marstonia (Obese snail)	E	4	0	4 obs 1997	03150101	No	538	59 FR 17998; April 15, 1994

*Note: None of the extirpated species have been found on segments listed as partially or non-supporting on the 2002 303(d) List. See the 2002 303 (d) List for endangered species located on partially or not-supporting waterbody segments.

Status:
E = Endangered
T = Threatened

APPENDIX E

May 27, 1998

AGREEMENT BETWEEN
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 4
AND TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER POLLUTION CONTROL
REGARDING THE IMPLEMENTATION OF
SECTION 303(d) OF THE CLEAN WATER ACT

WHEREAS, Clean Water Act ("CWA") § 303(d), 33 U.S.C. § 1313(d), provides for: (i) identification of waters for which applicable technology-based effluent limitations and other controls are not stringent enough to implement water quality standards; (ii) the establishment of a priority ranking for water quality limited segments ("WQLSs"); and (iii) establishment of total maximum daily loads ("TMDLs") as necessary for pollutants for which those WQLSs are not in attainment with water quality standards;

WHEREAS, the U.S. Environmental Protection Agency, Region 4 ("EPA") and the Tennessee Department of Environment and Conservation, Division of Water Pollution Control ("Tennessee") desire to restore the quality of impaired waters to achieve water quality standards, in accordance with § 303(d) of the CWA, thereby removing waters from the list of WQLSs not meeting water quality standards;

WHEREAS, EPA acknowledges the ongoing efforts being undertaken by Tennessee to implement CWA § 303(d), 33 U.S.C. § 1313(d);

WHEREAS, Tennessee has the lead responsibility for the designation of WQLSs and the establishment of TMDLs pursuant to § 303(d) of the CWA, and its implementing regulations;

WHEREAS, Tennessee submitted its draft 1998 303(d) list on April 1, 1998, to EPA, and the Tennessee 1998 303(d) list contains impaired segments where the appropriate TMDLs, or other pollution control requirements pursuant to 40 C.F.R.130.7, have and will be developed; and

WHEREAS, EPA and Tennessee now desire to set forth their understanding of the commitments they have made to each other concerning their joint efforts to implement CWA § 303(d).

NOW, THEREFORE, EPA AND TENNESSEE HAVE PREPARED THIS AGREEMENT AS FOLLOWS:

I. Tennessee's TMDL Approach

A. Tennessee has developed a watershed-based water quality management approach. As part of the watershed planning process, activities within the Tennessee Division of Water Pollution Control, including permitting, monitoring, modeling, TMDL development/implementation and water quality assessment are coordinated and integrated by watershed for each of the 54 watersheds within the state.

Watershed-based management allows the state to examine each watershed in detail and to determine the interaction between the upstream and downstream point and non-point pollutant sources. As such, more effective TMDLs and other pollution control requirements can be developed across the state.

B. Each watershed plan will have a chapter devoted to the establishment of TMDLs and other pollution control requirements, including an implementation plan for that particular watershed. Tennessee will submit a copy of the watershed plan and any additional documentation such as modeling reports to EPA according to the watershed plan schedule. In addition, where numeric TMDLs have been developed, a TMDL index will be

submitted which outlines the following: a summary of the water quality issues; the modeling approach; the TMDL, including the wasteload allocation, load allocation, and margin of safety; dates of public meetings and a summary of public comments received on the TMDL.

C. The Tennessee 1998 303(d) list contains clear priorities for TMDLs and other pollution control requirements based on the use support rating (i.e., degree of impairment), the water body's classification (i.e., uses to be made of the water body), the ecological importance of the water body, available resources, adequate instream monitoring data, available technical tools, and the degree of public interest.

D. Also in its 1998 303(d) list, Tennessee has categorized the water bodies as point source impacted, non-point source impacted, or blends of the two. The TMDL schedule agreed upon in Paragraph II. A., below will contain similar categorizations in order to provide estimated timelines for actual TMDL development.

E. Each water body that has a priority rating of 'high' for TMDL development will be addressed during the first watershed cycle. In each watershed cycle both the TMDL and other pollution control requirements will be addressed, including implementation issues. During the second watershed cycle, any available updated information on each impaired water body will be reviewed to determine if the water body still belongs on the 1998 303(d) list. During the second 5-year basin cycle, TMDLs for all WQLSs from the FY 98 303(d) list will be completed.

II. TMDLs for WQLSs on the 1998 CWA 303(d) List

A. EPA and Tennessee agree to the schedule set forth in Attachment 1 ("the Schedule"), the terms of which are incorporated by reference into this AGREEMENT, for Tennessee to establish numeric TMDLs or to develop pollution control requirements for the WQLSs identified on the 1998 303(d) list or the then-current 303(d) list, subject to Paragraph B below.

B. EPA and Tennessee understand that there is no obligation to submit numeric TMDLs for any WQLSs which either (a) are determined consistent with § 303(d) of the CWA and its implementing regulations, including 40 C.F.R. § 130.7(b)(1) not to need TMDLs; or (b) are on Tennessee's 1998 § 303(d) list but, consistent with the provisions of the CWA and its implementing regulations, are removed in accordance with any applicable law or regulation from a subsequent EPA-approved § 303(d) list for Tennessee. Waters can be removed from the 303(d) list for reasons including, but not limited to: (1) more recent or accurate monitoring data indicates that the water has attained compliance with the applicable water quality standards for the identified pollutants of concern; (2) more sophisticated water quality modeling indicates that the water is not a water quality limited segment for the identified pollutant(s) of concern; (3) flaws to the original analysis that led to the water being listed are identified; or (4) other pollution control requirements are developed for the water and pollutant(s) of concern leading to attainment of WQSs in two years.

C. Tennessee agrees, in accordance with the Schedule, to:

1. analyze all impaired waters in the state and initially determine for which waterbodies numeric TMDLs or other pollution control requirements are appropriate;
2. appropriately categorize the impaired waters in the state by reference to their impacts from point sources, non-point sources or blends of the two, and amend the WQLS identified on the § 303(d) list accordingly;

3. take one or more of the following TMDL actions: i) establish a numeric TMDL; (ii) establish watershed-based pollution control requirements; or (iii) otherwise determine consistent with paragraph B. above that there is no TMDL obligation necessary.

D. EPA and Tennessee agree that any such TMDLs on the Schedule may be established on a watershed-wide basis in accordance with applicable regulations and guidance.

E. EPA and Tennessee understand that Tennessee has primary responsibility for the development of TMDLs on the Schedule.

F. By June 1st of each year , Tennessee will notify EPA of the TMDL actions that have been taken and will be taken during that calendar year.

G. If EPA believes that Tennessee may not meet the final deadline in the Schedule, or if EPA believes that Tennessee may not meet any other deadlines set in the Schedule, Tennessee agrees to consult with EPA. If after consultation, based on information available, EPA believes that Tennessee may not meet the final deadline in the Schedule for establishing TMDLs for WQLSs identified on the 1998 § 303(d)list, EPA agrees to take any steps necessary: (a) to ensure completion of the TMDLs at issue by the final deadline in the Schedule either through establishment of TMDLs or approval of any subsequently submitted TMDLs; or (b) to determine that TMDLs are not necessary for the WQLSs consistent with Paragraph II B. above.

H. Should it become necessary for EPA to take action under the provisions of II.G., Tennessee agrees that it will use its best efforts to help EPA establish TMDLs according to the Schedule. Moreover, Tennessee agrees that it will provide any existing and readily available data to assist EPA in establishing TMDLs at EPA's request.

I. EPA and Tennessee agree that in the event Tennessee submits a TMDL to EPA that EPA disapproves, the agencies will make a good faith effort to resolve the differences.

J. EPA and Tennessee agree that Tennessee will develop TMDLs in accordance with (1) Tennessee's Waste Load Allocation Agreement with EPA, where appropriate, which is incorporated by reference into this AGREEMENT as Attachment 2, and any modifications to that memorandum that are mutually agreed upon by EPA and Tennessee; (2) site specific water quality models developed to address specific management questions, or (3) other scientific sources mutually agreed upon.

III. Funding

A. Tennessee maintains that in order for Tennessee to establish the TMDLs or other pollution control requirements according to the Schedule, Tennessee requires funds in the range of $400,000 to $500,000 annually, in addition to grant funding provided under § 106 of the CWA.

B. EPA agrees in good faith to make the Agency's best effort -- consistent with EPA's need to fund other programs and activities as appropriate -- to provide Tennessee with sufficient funds to meet the resource needs for this effort which might consist of additional new funds, flexibility in the use of existing federal funds or a combination of the two.

C. Tennessee recognizes that EPA's "best efforts" is not a guarantee that new funds will be provided. If EPA is not able to provide sufficient funds in each annual period for the development of TMDLs by Tennessee, EPA and Tennessee agree to meet and confer over a reasonable period of time, which is to be determined, to explore other options prior to any assumption by

EPA of TMDL activities and responsibilities now being done by Tennessee.

IV. Reports

Tennessee agrees to provide EPA with a written report of its progress toward completion of the commitments contained in this AGREEMENT, including but not limited to, identification of TMDLs submitted during the previous calendar year beginning December 31, 2000 and by December 31 of each year thereafter until the last TMDL action is taken on the Schedule.

V. Legal Effect

A. This AGREEMENT creates no cause of action against EPA or Tennessee beyond those, if any, that may already exist under state or federal law. In addition, the execution and implementation of this AGREEMENT does not constitute an explicit or implicit agreement by either EPA or Tennessee to subject itself to the jurisdiction of any federal or state court. Nor shall this AGREEMENT be construed as an admission by Tennessee or EPA that either failed to implement the provisions of CWA § 303(d). Nor shall this AGREEMENT be construed as creating any right or benefit, substantive or procedural, enforceable in law or in equity, by any person or entity against EPA or Tennessee. This AGREEMENT shall not create any right to judicial review involving the compliance or noncompliance with this AGREEMENT.

B. Nothing in this AGREEMENT shall be construed to require actions by EPA or Tennessee which are inconsistent with local, state, or federal laws or regulations or any court order.

VI. Force Majeure

A. EPA and Tennessee recognize that the performance of this AGREEMENT is subject to the fiscal and procurement laws and regulations of Tennessee and the United States, which include, but are not limited to, the Anti-Deficiency Act, 31 U.S.C. § 1341, et seq.

B. The possibility exists that circumstances outside the reasonable control of Tennessee or EPA could delay compliance with the Schedule. Such situations include, but are not limited to, sufficient funds not being appropriated as requested, appropriated funds not being available for expenditure, Congressional or legislative action or significant regulatory action affecting EPA's or Tennessee's commitments under this AGREEMENT, or catastrophic environmental events requiring an immediate and/or time-consuming response by Tennessee or EPA. Should a delay occur due to such circumstances, any resulting failure to meet the timetables set forth in the Schedule shall not constitute a failure to comply with the terms of this AGREEMENT, and any deadlines so affected shall be extended one day for each day of the delay.

C. EPA and Tennessee will provide each other with reasonable notice in the event that either EPA or Tennessee invokes this term of the AGREEMENT.

VII. Termination

This AGREEMENT, and all obligations arising hereunder, shall remain in effect until the last TMDL action is taken on the Schedule.

VIII. Modification

A. EPA and Tennessee understand that, while the commitments made under this AGREEMENT are based on the best available projections of future funding, such projections may prove to be

inaccurate, and the AGREEMENT will have to be modified accordingly.

B. EPA and Tennessee understand that the commitments made in this AGREEMENT are based on the statutes and regulations currently in effect and that changes to such laws or regulations may allow or require that the AGREEMENT be modified accordingly.

C. EPA and Tennessee understand that Tennessee may, as part of its ongoing watershed planning cycle, acquire updated new information that will add impaired waters to its 303(d) list. EPA understands that if these waters are deemed "high priority" by Tennessee these newly listed waters may be assigned a higher priority than a water currently listed on the 1998 303(d) list. In the event that Tennessee is unable to meet the final deadline in the Schedule because of the number of new "high priority" waters found, this AGREEMENT may be modified by extending the final deadline in the Schedule up to 3 years. Pursuant to Paragraph II. G., if after consultation with Tennessee, EPA believes Tennessee may not meet this modified final deadline in the Schedule, EPA will ensure completion of the TMDLs by the final deadline.

D. EPA and Tennessee understand that this AGREEMENT may be modified only by their agreement.

DATED this 27th day of May, 1998

United States Environmental Protection Agency
By: John H. Hankinson, Jr.
Regional Administrator, Region 4

The State of Tennessee
Department of Environment and Conservation
By: Milton H. Hamilton Jr., Commissioner