ENVIRONMENTAL PROTECTION AGENCY - REGION 7's REVIEW
of the
MISSOURI 2004/2006 CLEAN WATER ACT SECTION 303(D) LIST

The purpose of this review document is to provide EPA's rationale for approving certain delistings from Missouri's Clean Water Act (CWA) Section 303(d) list. EPA's review of Missouri's 303(d) list is based on EPA's analysis of whether the State reasonably considered existing and readily available data and information and reasonably identified waters required to be listed by the CWA and EPA regulations (40 CFR § 130.7). The following is a list of acronyms used in this review document:

BOD	Biological (Biochemical) Oxygen Demand
CBOD	Carbonaceous BOD
CFR	Code of Federal Regulations
CWA	Clean Water Act
DO	Dissolved Oxygen
FR	Federal Register
IRG	Integrated Report Guidance
MDNR	Missouri Department of Natural Resources
NFR	Non Filterable Residue
NVSS	Non-Volatile Suspended Solids
PCBs	Polychlorinated Biphenyls
PIL	Permit In Lieu of a TMDL
TMDL	Total Maximum Daily Load
VSS	Volatile Suspended Solids
WBID	Water Body Identification
WQS	Water Quality Standards
WWTP	Wastewater Treatment Plant

A. Statutory and Regulatory Background

Section 303(d) of the CWA and the applicable federal regulations direct states to identify those waters within its jurisdiction for which effluent limitations required by section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standards (WQS), and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. In developing their list, states are required to assemble and evaluate all existing and readily available water quality-related data and information, and provide an opportunity for the public to comment. States are required to submit to EPA a priority ranking for developing Total Maximum Daily Loads (TMDLs) for all water-quality limited segments and specifically identify those waters that are targeted for TMDLs development in the next two years (40 CFR § 130.7(b)(4)). In developing the priority ranking and schedule for development of TMDLs, EPA encourages states to ensure that all TMDLs for every water body/pollutant pair be established in a time frame that is no longer than 8 to 13 years from the time the water body/pollutant pair is first identified in Category 5, as discussed in EPA's *Guidance for 2006 Assessment, Listing and Reporting Requirements*

Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act (often referred to as the Integrated Reporting Guidance, or IRG).

B. Analysis of Missouri's Submission

While Missouri's submission included all the components as required by the CWA and federal regulations, after completing its review EPA found that the state's list did not include all water quality-limited segments still requiring a TMDL. EPA's review is based on its analysis of whether the state reasonably considered existing and readily available water quality-related data and information and reasonably identified waters to be listed. EPA finds that Missouri's submission only partially satisfies the statutory and regulatory requirements of section 303(d) of the CWA and 40 CFR § 130.7. EPA is partially approving and partially disapproving Missouri's 2004/2006 list and adding several water bodies and corresponding pollutants to the state's list, as described in greater detail below. The sections below cover broad categories of EPA's action on Missouri's list. Table 11 provides a summary of all the decisions for each water body.

For more information on the statutory and regulatory background for EPA's review and analysis of Missouri's submission, refer to EPA's September 27, 2007, partial action letter to MDNR.

C. Approved Listings

C.1. Water Quality Limited Segments for Inclusion on the Section 303(d) List

As noted above, EPA took partial action on Missouri's 2004/2006 section 303(d) list submission on September 27, 2007. In that first action EPA approved the inclusion of several water body/pollutant pairs that Missouri included on its 2004/2006 list. EPA has completed its review of Missouri's submission and is approving additional water body/pollutant pairs that Missouri included on its list. This letter approves the listing of the water bodies and corresponding pollutants identified in Table 1.

C.2. Waters EPA Approves for Listing with Additional Segment Length

As discussed in EPA's 2006 IRG, "ideally, all decisions about the WQS attainment status of individual assessment units would be based on a complete census of water quality conditions, which could involve sampling every portion of a waterbody at frequent intervals. Unfortunately, gathering this vast amount of data is not currently feasible, due to limitation of current monitoring technology as well as the amount of funding available for gathering and analysis of water quality information…Given this situation, states and EPA will continue to need to make WQS attainment status determination by extrapolating, in time and space, to a substantial degree, from individual points of data."

It is important that MDNR, EPA, and the general public be able to track the progress of individual water bodies as they are listed, pollution controls are implemented, and the applicable WQS are eventually attained. The 2006 IRG promotes the use of the integrated report format, the five category approach, and the assessment database as tools to better enable states to assess

and track progress of water quality limited segments. "Use of the Integrated Report format and the use of the five-part categorization scheme envisions that each state provides a comprehensive description of the water quality standards attainment status of all segments within a state…Fundamental to this accounting is the use of a consistent and rational segmentation and geo-referencing approach for all segments." The IRG continues, noting that "it is important that the selected segmentation approach be consistent with the state's water quality standards," which is critical to tracking progress.

Missouri's submission did not contain a systematic or rational segmentation approach that is consistent with the state's WQS. For certain waters on its 303(d) list, MDNR identified only *portions* of the classified segment as impaired. The 2004/2006 list does not contain identifiers that are easily comparable to the classified segment in the state's WQS, making it difficult and time consuming to determine which classified segments are impaired. While EPA approves the addition of the waters to the 2004/2006 303(d) list, the Agency is adding additional segment length as noted in the "Listing Approved, Segment Length/Area Added by EPA" column in Table 11.

The result of these changes is that the complete classified segment is included in the 303(d) list, ensuring transparency to the public and enabling better tracking of individual waters in subsequent listing cycles. Additionally, by improving the ability to track individual classified segments from one listing cycle to the next, EPA believes significant improvements can be made in the timeframe for submittal and review. In future submissions, EPA recommends that Missouri include full legal descriptions consistent with those that are found in the state's WQS or develop unique identifiers for sub-segments of water bodies that would enable clear tracking of these segments from one listing cycle to the next.

C.3. Pollutant Changes EPA is Approving

BOD to Low DO

For several water bodies that were included on the state's 2002 303(d) list, Missouri changed the pollutant causing the impairment from Biological Oxygen Demand (BOD) to low dissolved oxygen (DO) in their 2004/2006 303(d) list submission. Missouri's WQS contain water quality criteria for DO and do not contain a water quality criterion for BOD. DO levels in a stream can be impacted by many factors. The state's approach listed the impairment as low DO and, when the supporting data was available, identified the cause of the impairment in the Source column of their list submission. While the source of the low DO levels may be the result of high BOD from wastewater treatment facility or lagoon effluent, the water quality impact documented in the supporting assessment data files provided by MDNR is low DO. In summary, the assessment data supports the conclusion that the segments are water quality limited when compared to the state's DO criteria. As such, EPA approves the pollutant change from BOD to low DO for the water bodies listed in Table 2. This approval is limited to the pollutant change component of each listing identified in Table 2. Refer to the remaining sections of this document for other aspects of EPA's action on each water body. The segment lengths listed in Table 2 reflect the length of the entire classified segment, as discussed above in section C.2.

NVSS to Inorganic Sediment and VSS to Organic Sediment

As described in EPA's 2003 draft *Developing Water Quality Criteria for Suspended and Bedded Sediments: Potential Approaches*, excessive sediments may present a significant ecosystem stressor. In streams, inorganic sediments can negatively impact aquatic habitat and, thereby affect macroinvertebrate communities and fish populations' spawning, rearing, and feeding behaviors. Missouri's WQS contain narrative water quality criteria, which apply to all waters of the state. The criteria at 10 CSR 20.7.031(3)(A) and (C) state that "waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses" and "free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life."

Missouri's 2002 303(d) list included several water bodies listed for nonvolatile suspended solids (NVSS) or volatile suspended solids (VSS). In its 2004/2006 submission, Missouri changed the listed pollutants from NVSS to inorganic sediment or VSS to organic sediment. In evaluating its data, MDNR identified these waters as impaired based on sediment deposition data. Although the characterization of impairment as NVSS or VSS has changed to inorganic or organic sediment, respectively, the cause of impairment and type of data used to identify the impairment have not changed. MDNR staff indicated that one reason for the changes was to make the list more understandable for the general public. EPA supports this effort to help the public better understand the condition of the waters and approves the pollutant changes identified in Table 2. The segment lengths listed in Table 2 reflect the length of the entire classified segment, as discussed above in section C.2.

Fecal Coliform to Bacteria

Missouri recently adopted and EPA approved new ***E. coli*** criteria for the protection of human health. The WQS now have two effective criteria, fecal coliform and ***E. coli***, that apply to water bodies designated for recreational uses. EPA understands that Missouri plans to revise its standards to remove the fecal coliform criteria and retain ***E. coli***. However, until such revisions are made and approved by EPA, waters may be listed based on either criteria. As such, Missouri's decision to revise the pollutant causing the impairment in its 303(d) list from "fecal coliform" to "bacteria" provides Missouri the flexibility to assess its waters based on data for either indicator organism. EPA finds this revision to be a helpful clarification that appears to be consistent with Missouri's current WQS. EPA approves the pollutant change from fecal coliform to bacteria for the water bodies listed in Table 2.

D. Approved Delistings

Federal regulations require that the state provide documentation to EPA to support their decision to list or not to list its waters. Upon request from EPA, the State must demonstrate good cause for not including a water or waters on its list (40 CFR § 130.7(6)). In its *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act* (known as the Integrated Report Guidance, or IRG), the EPA describes what constitutes good cause for removing a water body from the 303(d) list, which is comprised of waters identified for inclusion in Category 5 of a state's Integrated Report. As is

further described in the IRG, consistent with 40 CFR § 130.7(b), good cause for not including segments on the 303(d) list may be based on the following determinations:

- New information or more sophisticated water quality modeling is available that demonstrates that the applicable WQS(s) is being met.
- Flaws in the original analysis of data and information led to the segment being incorrectly listed.
- Effluent limitations required by state or local authorities that are more stringent than technology-based effluent limitations, required by the CWA, will result in the attainment of WQS for the pollutant causing the impairment (pursuant to 40 CFR § 130.7(b)(1)(ii)).
- Other pollution control requirements required by state, local, or federal authority will result in attainment of WQS within a reasonable period of time (pursuant to 40 CFR § 130.7(b)(1)(iii)).
- Documentation that the state included on a previous section 303(d) list an impaired segment that was not required to be listed by EPA regulations, e.g., segments where there is no pollutant associated with the impairment.
- The water body and pollutants are addressed in a TMDL approved or established by EPA.

States may assign waters to Category 4 if available data and/or information indicate that one or more designated uses are not being attained or are threatened, but a TMDL is not needed. States may place these water bodies in one of the following three subcategories:

Category 4A: An EPA-approved TMDL has been established to address the water body and pollutant.

Category 4B: Alternative pollution controls required by local, state, or federal authority are sufficiently stringent and expected to achieve WQS within a reasonable period of time. One example of such controls is an EPA-approved state National Pollutant Discharge Elimination System (NPDES) Permit in Lieu (PIL) of a TMDL.

Category 4C: Impairment not caused by a pollutant, but instead caused by other types of "pollution," as defined by the CWA. Development of a TMDL is not required.

D.1. Category 4A – Waters with EPA-Approved TMDLs

Table 3 lists several waters that are appropriate for placement in Category 4A, as a TMDL has been completed and approved by EPA. These water bodies no longer require the development of a TMDL, consistent with 40 CFR § 130.7(b). In the cases of Joyce Creek (WBID 3233), Pogue Creek (WBID 3232), and Shoal Creek (WBID 3231), MDNR identified these three waters as impaired by bacteria during the preparation of their 2004/2006 303(d) list, but did not include them in their final list claiming that they were included in an EPA-approved TMDL for Shoal Creek (WBID 3230). EPA requested and MDNR subsequently submitted a revised TMDL for Shoal Creek (WBID 3230) that incorporated these three additional water bodies. EPA approved the revised TMDL on November 21, 2007. Pogue, Joyce, and Shoal (WBID 3231) Creeks were never included on an EPA-approved 303(d) list; however, placing

these water bodies into Category 4A is appropriate because they no longer require the development of a TMDL. EPA approves the placement of the water bodies identified in Table 3 into Category 4A.

D.2. Category 4B – Waters with EPA-Approved PIL of a TMDL

Table 3 lists several waters that are appropriate for placement in Category 4B as they have an EPA-approved PIL that is expected to result in the attainment of WQS within a reasonable period of time. Each PIL has a site-specific NPDES permit as the other pollution control requirement that is stringent enough to implement the applicable WQS, pursuant to 40 CFR § 130.7(b)(1)(iii), and as such, EPA approves the removal of these waters from the section 303(d) list.

D.3. Other Waters EPA Approves for Delisting

The water bodies listed in Tables 4 and 5 are appropriate for delisting because Missouri has demonstrated good cause for removing each of the water bodies from the state's 303(d) list, consistent with 40 CFR § 130.7(b)(6). As such, EPA is approving the removal of these water bodies and/or pollutants from the 2004/2006 section 303(d) list. Table 4 includes those water body/pollutant pairs that EPA is approving for delisting because the data indicates attainment with current WQS. Table 5 identifies those water body/pollutant pairs that EPA is approving for delisting and agrees with the state's conclusion that they are appropriate for placement in Category 3B. Additional explanation about the approved delistings for several pollutants is provided below.

Manganese Criterion

Missouri revised its WQS, deleting the manganese criterion for the protection of drinking water supplies. Consistent with the CWA, EPA approved the deletion of the manganese criterion applicable to protect the drinking water supply use. As such, this criterion no longer applies. For a detailed explanation of EPA's approval of this WQS revision, see the enclosure to EPA's April 28, 2006 letter to Doyle Childers.

Mercury

Missouri's WQS do not identify a methylmercury fish tissue criteria; however, the standards state that the state or federal maximum fish tissues levels for fish consumption shall not be exceeded (10 CSR 20-7.031(4)(B)1). EPA's recommended 304(a) criterion for methylmercury in fish tissue is 0.3 mg/kg. In the public notice for the draft 2004/2006 list, Missouri described its rationale for delisting several waters that were previously listed as impaired by mercury. The public notice explained:

> Generally, waters that have mercury levels sufficient to contaminate fish are considered eligible for placement on the 303(d) List. However, listing only the few waters for which data is available and indicates a problem, may create a misconception that only those waters are affected. Likewise, listing all of the state's waters could cause a belief that all waters contain fish unsafe to eat. Neither scenario is likely true. Furthermore, the listing may cause an excessive focus on sources of mercury within Missouri when most of the mercury in fish sampled in this state comes from sources outside of the state via atmospheric deposition. Because of the complexity of the problem, the department is participating in a state mercury taskforce to inventory, track and recommend controls for mercury sources in Missouri. Placing a few or all

waters on the 303(d) List may confuse, rather than facilitate, the ongoing efforts to address the broader-based mercury concern.

While EPA does not endorse Missouri's policy decision to not list any waters for mercury, especially those waters where there are data indicating impairment, the Agency reviewed all the available data to determine if the state's decision to not list waters on its 2004/2006 list is consistent with the CWA and federal regulations. EPA identified 10 water bodies where the recent data indicate that mercury concentrations are below EPA's recommended 304(a) criteria for fish tissue and the designated uses are being supported. In the specific instances identified in Table 4, EPA approves the state's decision to not list these waters as impaired by mercury.

In addition, EPA agrees with the state's decision to place 20 water bodies that were previously listed as impaired by mercury in Category 3B because there is insufficient data to determine attainment (Table 5). Missouri's listing methodology and section 4.2.5 of EPA's *Draft Guidance for Implementing the January 2001 Methylmercury Water Quality Criterion* recommend a minimum of three samples for assessment purposes. As discussed in EPA's IRG, EPA may request that the state provide good cause for delisting waters. One example of good cause that is provided in the IRG, is that the "previous listing was inconsistent with the assessment methodology and the available data is insufficient to determine attainment status." In each of these 20 cases, the water bodies were originally listed based on only one or two samples, which is insufficient for determining impairment according to Missouri's listing methodology and EPA's guidance. EPA agrees with the state's placement of these waters in Category 3B, as noted in Table 5, and encourages Missouri to gather additional monitoring data so that these waters may be fully assessed in subsequent listing cycles.

E. Water Bodies and Pollutants EPA is Restoring or Adding to Missouri's 2004/2006 303(d) List

As discussed under section D of this document, federal regulations require that the state provide documentation to EPA to support their decision to list or not to list its waters. Upon request from EPA, the state must demonstrate good cause for not including a water or waters on its list (40 CFR § 130.7(6)). In its January 17, 2007, comment letter to MDNR on the draft list, EPA requested that MDNR include in its submission a demonstration of good cause for not including previously listed water bodies on its 2004/2006 303(d) list. In reviewing the information submitted by MDNR, EPA found that the state did not provide good cause for delisting or the data did not support MDNR's decision to not list the water body/pollutant pairs identified in Tables 6 and 7. As such, EPA is restoring or adding these water body/pollutant pairs to Missouri's 303(d) list. The sections below further explain EPA's rationale for adding/restoring waters to Missouri's list as impaired by mercury, low DO, bacteria, chloride, or unknown pollutant or toxicity. In addition to these specific pollutants discussed below, EPA is restoring other water body/pollutant pairs for which Missouri did not provide good cause for delisting, which are also identified in Table 6.

E.1. Mercury

EPA, states, and other stakeholders have been working to determine how best to address waters impaired by mercury, particularly where the predominant mercury source is atmospheric deposition. According to a March 8, 2007, memorandum from Craig Hooks, Director of EPA's Office of Wetlands, Oceans, and Watersheds, over 8,500 water bodies in 43 states and Puerto Rico are listed on state section 303(d) lists as impaired due to mercury. Estimates from modeling conducted by EPA suggest that over 80 percent of the mercury deposited in the United States originates from sources outside the U.S. and Canada.

In its public notice of the state's draft 303(d) list, Missouri clearly explained the difficulty of appropriately characterizing the extent of impairment in waters across the state given the site-specific availability of data. EPA-Region 7 appreciates MDNR's effort to provide all available information to the public for review during the comment period and encourages MDNR's participation in a state mercury task force. EPA recognizes the complexity in developing a TMDL for a water body that is impaired by mercury predominantly from atmospheric sources. For states that have in place a comprehensive mercury reduction program, EPA is recommending a voluntary approach to listing waters in a separate subcategory of their impaired waters list ("5m"). States that choose to list waters in the 5m subcategory may defer the development of a TMDL. This approach is intended to recognize and encourage states through the section 303(d) listing process to take early action to implement and achieve environmental results through comprehensive mercury reduction programs. EPA recommends MDNR consider whether the state has a mercury reduction program in place with the recommended elements that would offer MDNR an alternative to listing water bodies as impaired by mercury using the optional Category 5m approach. The March 8, 2007, memorandum (http://www.epa.gov/owow/tmdl/mercury5m/) by EPA, contains details about the recommended elements of a comprehensive mercury reduction program.

Pursuant to section 303(d) of the CWA, "each state shall identify those waters within its boundaries for which the effluent limitations required by section 301(b)(1)(A) and section 301(b)(1)(B) are not stringent enough to implement any water quality standard (WQS)applicable to such waters." For certain water bodies identified by the state in its public notice and several additional waters, data indicate that the designated use of human health-fish consumption is not supported. As such, EPA is adding these 19 waters to Missouri's CWA section 303(d) list as impaired by mercury. The waters EPA is adding/restoring are identified in Tables 6 and 7.

E.2. Low Dissolved Oxygen (DO)

Missouri's current water quality standards state that "Water contaminants shall not cause the dissolved oxygen to be lower than the levels described in Table A..." Table A sets the water quality criterion at 5 mg/L for warm-water and cool-water fisheries and 6 mg/L for cold-water fisheries. However, in its public notice of their final 303(d) list, MDNR explained that numerous waters with DO criteria violations were not included on the 2004/2006 303(d) list because there were "no apparent pollutant sources" and MDNR believes it to be naturally-occurring low DO. At this time, Missouri has not provided any data to demonstrate that the observed DO levels are naturally-occurring or modified its WQS to include site-specific criteria.

Because Missouri indicated in its public notice that it decided not to list several water bodies that violated the DO criteria, EPA found this to be reasonable cause to warrant a further evaluation of the DO data submitted by Missouri with its 2004/2006 303(d) list. In reviewing Missouri's data, EPA used the binomial probability method described in the ***Statistical Procedures Used in the Preparation of the 2004 303(d) List*** document submitted by MDNR. EPA found 50 waters that violate the state's DO criterion, and as such, are not fully attaining the aquatic life use designation. Pursuant to section 303(d) of the CWA, "each state shall identify those waters within its boundaries for which the effluent limitations required by section 301(b)(1)(A) and section 301(b)(1)(B) are not stringent enough to implement any water quality standard (WQS)applicable to such waters." Where violations of the state's water quality criteria were documented in the supporting data, EPA is adding these waters to Missouri's 2004/2006 303(d) list. Tables 6 and 7 include all the water bodies that EPA is adding/restoring to the state's list as being impaired for low DO. EPA is not adding water bodies to the list that lack sufficient sample sizes for statistical analysis. EPA recommends that Missouri consider placing these water bodies in Category 3B to allow time for additional sampling and assessment prior to the next iteration of the 303(d) list.

E.3. Bacteria

Missouri published a draft 303(d) list with several water bodies identified as impaired by bacteria. During its review, EPA found several examples in Missouri assessment worksheets where errors were made in the analysis of the data. Examples include instances where the geometric mean was calculated for the entire dataset, rather than for each recreation season; the geometric mean was calculated for each sampling site, rather than for each water body; or recreation season data were mistakenly excluded from the evaluation. Moreover, at the March 7, 2007, Missouri Clean Water Commission meeting MDNR explained that they reevaluated several water bodies by weighting the data by stormwater flow frequency, and as such, removed them from the state's 2004/2006 list. EPA's 2006 IRG briefly discusses data gathered during extreme events, such as floods. It says that "disregarding valid data gathered during extreme conditions (e.g., significant droughts or floods) can be appropriate if applicable state's WQS include a provision specifying that some or all water quality criteria do not apply during certain rare events, such as 7Q10 low (or high) stream flow." Missouri's WQS do not include provisions which would allow for excluding or, in this case, weighting the data gathered during stormwater flow events. Finally, Missouri assessed numerous waters that are designated for Whole Body Contact Recreation – Category B against the ***E. coli*** criterion of 548 cfu/100mL. This criterion has not been approved by EPA and is, therefore, not effective for CWA purposes. The EPA-approved criterion in Missouri's WQS for protection of Whole Body Contact Recreation is 126 cfu/100mL. For these reasons described above, EPA reevaluated the state's bacteria data against the approved WQS and is adding 19 waters to the 2004/2006 list. Tables 6 and 7 include the waters EPA is adding/restoring to Missouri's 2004/2006 303(d) list as impaired by bacteria. EPA also recommends that Missouri consider placing in Category 3B those water bodies that lacked sufficient samples for assessing impairment so that they may be included in the priority list for follow-up monitoring.

E.4. Chloride

Federal regulations require states to evaluate all existing and readily available water quality-related data to develop their 303(d) list (40 CFR § 130.7(5)), and to provide documentation to EPA to support the state's determination to list or not list its waters. Missouri's October 11, 2006, draft 2004/2006 CWA section 303(d) list proposed listing several water bodies as impaired by chloride that were not previously identified as impaired by chloride on the state's 303(d) list. On March 7, 2007, the Missouri Clean Water Commission approved the removal of these streams from the draft 303(d) list. The data made available during the public comment period indicate multiple exceedances of the acute and chronic criteria for several streams. Additionally, in reviewing the assessment worksheets, EPA found instances where MDNR cited exceedances of the criteria only during "non-stormwater flows," which indicates that MDNR exempted data that was gathered after storm events. This sort of high flow exclusion is not consistent with the state's WQS and is not supported by EPA. In reviewing Missouri's data, EPA did not take into consideration a high flow exclusion, as MDNR indicated they may have included in some assessments. Missouri has not provided adequate documentation to support its decision to not include the water bodies with documented chloride criteria violations (identified in Table 7) on their 2004/2006 303(d) list. As such, EPA is adding these 12 water bodies to the state's list.

E.5. Unknown Pollutant or Toxicity

EPA regulations require states to identify all waters still requiring TMDLs where standards are not met or are not expected to be met through the applications of controls described in 40 CFR section 130.7(b)(1). While the CWA specifies that TMDLs shall be developed for pollutants, section 303(d)(1) simply requires that certain waters be listed. The regulations do not exempt waters where the specific pollutant causing or expected to cause the exceedance of the applicable WQS is not known. Where either EPA's or MDNR's evaluation of data and/or information of the water body's designated use, numeric criteria, or narrative criteria for water bodies, classified and unclassified, indicate impairment of the natural biological community, then the water body should be included on the state's 303(d) list. As such, listing for "unspecified" or "unknown" pollutants is a valid listing until such time as a specific pollutant or pollutants have been determined through additional monitoring and assessment before a TMDL is actually developed.

In 2002, EPA added or restored several water bodies to Missouri's 2002 303(d) list as impaired by an unknown pollutant or unknown toxicity. EPA relied upon several sources of information, including visual/benthic low flow surveys conducted by MDNR for its decision on the 2002 list. In its 2004/2006 submission, Missouri did not provide new or additional information to support its decision not to include 16 water bodies on the state's 303(d) list, and, as such, Missouri has not provided good cause for the delisting of these streams. EPA is restoring these 16 water body/pollutant pairs to Missouri's 2004/2006 303(d) list as impaired by unknown pollutants or toxicity (Table 6).

F. Summary

In this action, EPA is partially approving and partially disapproving Missouri's 2004/2006 303(d) list. This and the September 27, 2007, actions complete EPA's review of Missouri's 2004/2006 303(d) list. As part of this action, EPA is proposing to add or restore a number of water body/pollutant pairs to Missouri list. EPA is now providing an opportunity for the public to comment on EPA's proposed revision to Missouri's list. EPA will review and respond to public comments, and, if necessary, publish a revised decision on Missouri's 2004/2006 303(d) list. Tables 8 through 11 provide consolidated summaries for each water body/pollutant pair from this and the September 27, 2007 decisions. Table 8 identifies those that are approved for delisting, Table 9 lists those that are in Category 4A, and Table 10 lists those that are in Category 4B. Table 11 is the consolidated list from this and the September 27, 2007, decision of the 2004/2006 Missouri 303(d) list with a summary of EPA's actions for each water body/pollutant pair.

Table 1

Water quality limited segments EPA approves for inclusion on the 2004/2006 section 303(d) list. These waters are approved for listing, in addition to EPA's September 27, 2007 decision. Refer to Table 11 for a summary table of EPA's actions that includes this decision and the September 27, 2007 decision.

No.	Water Body Name	WBID	Class	Length (mi)	County	Pollutant
1	Clear Creek	3239	C	3.0[1]	Lawrence, Barry	Low DO
2	East Fork Chariton River	682	P	48.5	Randolph	Sulfate
3	Indian Creek, Tributary to	3663	C	0.5[2]	Washington	Lead
4	Indian Creek, Tributary to	3663	C	0.5[2]	Washington	Zinc
5	Main Ditch	2814	C	14.0	Butler	Temperature

[1] According to MDNR, incorrectly listed in 1998 as WBID 3238 (1 mile impaired) and 3239 (2 miles impaired). The 2002 list attempted to correct error. The classified segment of Clear Creek is 2 miles long, but according to MDNR this is in error and the segment length should be 3 miles.

[2] The classified segment in Missouri's water quality standards is 0.3 miles long. According to MDNR this is in error and the segment length should be 0.5 miles.

Table 2

Water bodies for which EPA approves the specified pollutant changes.

No.	Water Body Name	WBID	Class	Length (mi)	County	Approved Pollutant Change
1	Big Bottom Creek	1746	C	1.9	Ste. Genevieve	BOD to Low DO
2	Big River	2080	P	68	Jefferson, Washington	NVSS to Inorganic Sediment
3	Brush Creek[3]	1371	P	4.0	St. Clair, Polk	BOD to Low DO
4	Buffalo Ditch	3118	P	18.0	Dunklin	BOD to Low DO
5	Flat River Creek	2168	C	9.0	St. Francois	NVSS to Inorganic Sediment
6	Indian Creek[4]	420	C	3.0	Jackson	Fecal coliform to Bacteria
7	McKenzie Creek	2786	P	6.0	Wayne	BOD to Low DO
8	Mound Branch	1300	C	10.0	Bates	BOD to Low DO
9	Piper Creek (Town Branch)	1444	P	7.5	Polk	VSS to Organic Sediment

[3] EPA approved the listing of Brush Creek (WBID 1371) for Low DO in its September 27, 2007 letter to MDNR. That letter did not clearly indicate EPA's intent to approve the pollutant change from BOD to Low DO. EPA is including this clarification in today's action.

[4] EPA approved the listing of Indian Creek (WBID 420) for Bacteria in its September 27, 2007 letter to MDNR. That letter did not clearly indicate EPA's intent to approve the pollutant change from Fecal coliform to Bacteria. EPA is including this clarification in today's action.

Table 3

Water bodies with EPA-approved TMDLs or PILs, which are appropriate for placement in Category 4.

No.	Water Body Name	WBID	Class	Length (mi) /Area (acres)	County	Pollutant	Approved
1	Bynum Creek	709	C	4.5	Callaway	NVSS	PIL, Category 4B
2	Dog Creek	510	C	5.0	Daviess	NVSS	PIL, Category 4B
3	Dry Auglaize Creek	1145	P	7.0	Laclede	Unknown	PIL, Category 4B
4	East Brush Creek	811	C	1.0	Moniteau	Nutrients	PIL, Category 4B
5	Gabriel Creek[5]	883	C	11.1	Morgan	Ammonia, Low DO	PIL, Category 4B
6	Joyce Creek	3233	C	5.0	Barry	Fecal coliform	TMDL, Category 4A
7	Lake Creek	875	P	4.3	Pettis	Sediment	TMDL, Category 4A
8	Little Lindley Creek	1438	C	3.0	Dallas	BOD,VSS	PIL, Category 4B
9	Mill Creek	159	C	5	Lincoln	Sediment	TMDL, Category 4A
10	Pogue Creek	3232	C	2.5	Barry	Fecal coliform	TMDL, Category 4A
11	Shoal Creek	3231	C	4.0	Barry	Fecal coliform	TMDL, Category 4A

[5] In 2002, Gabriel Creek was listed for BOD and NFR. MDNR revised this listing in the submission of its 2004/2006 list, identifying the pollutants causing impairment as ammonia and low DO. Subsequent to submission of its 303(d) list to EPA, MDNR completed and EPA approved a PIL for Gabriel Creek. In its September 27, 2007 letter, EPA approved the delisting of Gabriel Creek and noted that it was appropriate for Category 4B for BOD and NFR. This letter clarifies that Gabriel Creek is also appropriate for inclusion in Category 4B for ammonia and low DO, as the approved PIL is expected to remedy these impairments.

Table 4

Other water body/pollutant pairs EPA approves for delisting.

No.	Water Body Name	WBID	Length (mi) /Area (acres)	County	Pollutant	Comment
1	Ben Branch Lake	7186	45	Osage	Mercury	Data indicates attainment
2	Bourbeuse River	2034	132	Franklin	Mercury	Data indicates attainment
3	Fellows Lake	7237	820	Greene	Mercury	Data indicates attainment
4	James River	2347	28	Stone	Mercury	Data indicates attainment
5	James River	2362	26	Stone	Mercury	Data indicates attainment
6	Lake of the Ozarks	7205	Truman Dam		Low DO	Data indicates attainment
7	Lake of the Ozarks	7205	Truman Dam		Gas supersaturation	Data indicates attainment
8	Lamine River	847	54	Cooper	Mercury	Data indicates attainment
9	Longview Lake	7097	930	Jackson	Mercury	Data indicates attainment
10	Meramec River	1846	75	Franklin	Mercury	Data indicates attainment
11	Mound Branch	1300	10.0	Bates	Ammonia	Data indicates attainment
12	North Fabius River	0056	82	Marion	Manganese	Criterion no longer applies
13	Osage River	1031	82	Osage	Mercury	Data indicates attainment
14	River des Peres	1711U		St. Louis	Low DO	Inappropriately listed, criterion does not apply to unclassified stream
15	Sewer Branch	860	1	Pettis	Low DO	Data indicates attainment
16	Sewer Branch	860U		Pettis	Low DO	Inappropriately listed, criterion does not apply to unclassified stream
17	Smithville Lake	7077	7190	Clay	Mercury	Data indicates attainment
18	Troublesome Creek	0073	3.5	Marion	Manganese	Criterion no longer applies
19	Wallace State Park Lake	7453	6	Clinton	Fecal Coliform	Data indicates attainment
20	Watkins Mill Lake	7087	126	Clay	Fecal Coliform	Data indicates attainment

Table 5

Water body/pollutant pairs EPA approves for delisting because there is insufficient data to determine attainment status. These water bodies were inappropriately listed based on inadequate data. EPA agrees with Missouri's placement of these water body/pollutant pairs in Category 3B.

No.	Water Body Name	WBID	Length (mi) / Area (acres)	County	Pollutant
1	Bethany Reservoir	7109	78	Harrison	Mercury
2	Black River	2769	45	Butler	Mercury
3	Bluestem Lake	7370	15	Jackson	Mercury
4	Cameron Lake #4 (Grindstone Reservoir)	7384	180	DeKalb	Mercury
5	Cooley Lake	7090	300	Clay	Mercury
6	Crowder State Park Lake	7135	18	Grundy	Mercury
7	Ditch #1	3050	44	Scott	Mercury
8	Eleven Point River	2593	21	Oregon	Mercury
9	Femme Osage Slough	1605	5.5	St. Charles	Mercury
10	Foxboro Lake	7382	25	Franklin	Mercury
11	Grand Glaize Creek	2184	4	St. Louis	Mercury
12	Hunnewell Lake	7029	228	Shelby	Mercury
13	Indian Hills Lake	7288	326	Crawford	Mercury
14	Jamesport Community Lake	7105	30	Daviess	Mercury
15	Labelle Lake #2	7023	112	Lewis	Mercury
16	Little Blue River	423	22	Jackson	Mercury
17	Long Branch Lake	7171	2430	Macon	Mercury
18	Swift Ditch	3151	4	New Madrid	Mercury
19	Weatherby Lake	7071	194	Platte	Mercury
20	Winnebago, Lake	7212	350	Cass	Mercury

Table 6

Water body/pollutant pairs that EPA disapproves for delisting and is restoring to Missouri's 2004/2006 303(d) list.

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
1	Bear Creek	115U	U	U	Adair	Unknown
2	Big Bottom Creek	1746	C	1.9	St. Genevieve	Organic Sediment*
3	Big River	2074	P	53.0	Jefferson	Lead
4	Brush Creek[6]	1371	P	4.0	St. Clair, Polk	Organic Sediment*
5	Clear Creek	3239	C	3.0 (2.0)[7]	Lawrence, Barry	Nutrients
6	Clearwater Lake	7326	L2	1650	Reynolds	Mercury
7	Dardenne Creek	221	P	15.0	St. Charles	Unknown
8	Deer Ridge Community Lake	7015	L3	48	Texas	Mercury
9	Gasconade River	1455	P	249.0	Gasconade	Mercury
10	Hickory Creek	442	C	1.5	Daviess	Unknown
11	Hickory Creek	588	C	7.0	Grundy	Unknown
12	Hickory Creek, Trib. to	589	C	1.0	Grundy	Unknown
13	Hough Park Lake	7388	L3	7	Cole	Mercury
14	Indian Camp Creek	212	C	5.0	St. Charles, Warren	Inorganic sediment*
15	Knob Noster State Park Lakes (Lake Buteo)	7196	L3	24	Johnson	Mercury
16	Lateral #2 Main Ditch	3105	P	11.5	Stoddard	Sediment
17	Little Osage River	3652	C	16.0	Vernon	Low DO
18	Long Branch	602	C	13.0	Linn	Unknown
19	Long Branch	857	C	4.5	Pettis, Johnson	Unknown

[6] EPA approved the listing of Brush Creek (WBID 1371) for Low DO in its September 27, 2007 letter to MDNR. That letter did not clearly indicate EPA's intent to approve the pollutant change from BOD to Low DO. EPA is including this clarification in today's action.

[7] According to MDNR, incorrectly listed in 1998 as WBID 3238 (1 mile impaired) and 3239 (2 miles impaired). The 2002 list attempted to correct the error. The classified segment of Clear Creek is 2 miles long, but according to MDNR this is in error and the segment length should be 3 miles.

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
20	Mark Twain Lake	7033	L2	18600	Ralls	Mercury
21	Marmaton River	1308	P	49.5	Vernon	Low DO
22	Mississippi River	1707	P	195.5	Mississippi, St. Louis	Lead
23	Mississippi River	1707	P	195.5	Mississippi, St. Louis	Zinc
24	Muddy Creek	557	P	36.5	Grundy, Mercer	Unknown
25	Noblett Lake	7316	L3	26	Douglas	Mercury
26	Ozarks, Lake of the	7205	L2	59520	Camden	Fish Trauma
27	Pearson Creek	2373[8]	P	8.0	Greene	Unknown toxicity
28	Peruque Creek	217	P	4.0	St. Charles	Inorganic Sediment*
29	Peruque Creek	218	C	8.5	St. Charles	Inorganic Sediment*
30	Pond Creek, Tributary to	2128	C	1.0	Washington	Inorganic Sediment*
31	Salt River	91	P	29.0	Pike, Ralls	Mercury
32	Sandy Creek	652	C	3.0	Putnam	Unknown
33	Schuman Park Lake	7280	L3	5	Phelps	Mercury
34	Sewer Branch	860	C	1.0	Pettis	Unknown
35	Sewer Branch	0860U	U	U	Pettis	Unknown
36	Shaw Branch	2170	C	2.0	St. Francois	Inorganic Sediment*
37	Shibboleth Creek	2120	C	3.0	Washington	Inorganic Sediment*
38	Spring Branch (Creek)	3708[9]	P	7.4	Dent	Organic Sediment*
39	Spring Branch (Creek)	3708[9]	P	7.4	Dent	Low DO*
40	Ste. Louise, Lake	7055	L3	87	St. Charles	Bacteria*
41	Stinson Creek	710	C	9.0	Callaway	Low DO*
42	Stinson Creek	710	C	9.0	Callaway	Organic Sediment*

[8] Pearson Creek was erroneously identified on the 2002 303(d) list as WBID 2375. The correct WBID is 2373.

[9] The ***Revised US EPA Consolidated 2002 Missouri 303(d) List*** identified Spring Creek (WBID 1870) as impaired. The stream is classified in Missouri's WQS 10 CSR 20-7.031 Table H as Spring Branch. Spring Branch (WBID 1870) was resegmented in the 2005 revisions to Missouri's WQS. This resulted in the original classified segment being divided into two segments, which are now identified as WBIDs 1870 and 3708. The impaired portion of Spring Branch is part of WBID 3708 rather than WBID 1870.

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
43	Village Creek	2864	C	3.0	Madison	Inorganic Sediment*
44	West Fork Black River	2755	P	31.7	Reynolds	Nutrients
45	West Fork Locust Creek	612	P	17.0	Linn, Sullivan	Unknown
46	West Fork Locust Creek	613	C	17.0	Sullivan	Unknown
47	Willow Branch	0654U	U	U	Putnam	Unknown
48	Wilson Creek	2375	P	18.0	Greene	Unknown toxicity
49	Woods, Lake of the	7436	L3	3	Boone	Mercury

*As explained elsewhere in this document, in this listing cycle Missouri has chosen to change the way it identifies several pollutants. For this reason, to be consistent with the state's method of describing these pollutants, EPA is restoring those waters that were previously listed for NVSS, VSS, BOD, or fecal coliform as being impaired by inorganic sediment, organic sediment, low DO, or bacteria, respectively.

Table 7

Water body/pollutant pairs for which EPA assessed readily available water quality-related data and found that it did not support MDNR's decision to not include them on the state's 303(d) list. EPA is adding these new water body/pollutant pairs to Missouri's list.

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
1	Belcher Branch Lake	7365	L3	55	Buchanan	Mercury
2	Big Otter Creek, Tributary to	1225	C	1.0	Henry	Low DO
3	Blackberry Creek	3185	C	7.5	Jasper	Sulfate + Chloride
4	Blue River	421	C	11.0	Jackson	Bacteria
5	Bonne Femme Creek	750	P	7.0	Boone	Bacteria
6	Burgher Branch	1865	C	2	Phelps	Low DO
7	Busch W.A. #35	7057	L3	51	St. Charles	Mercury
8	Cedar Creek, Trib. To	743	C	1.5	Callaway	Low DO
9	Clear Creek	1333	P	15.5	St. Clair, Vernon	Low DO
10	Clear Creek	1336	C	15.0	Vernon	Low DO
11	Clear Creek	3238	P	9	Newton, Lawrence	Bacteria
12	Clear Fork	935	P	24.5	Johnson	Low DO
13	Coldwater Creek	1706	C	5.5	St. Louis	Chloride
14	Coldwater Creek	1706	C	5.5	St. Louis	Low DO
15	Creve Coeur Creek	1703	C	2.0	St. Louis	Bacteria
16	Creve Coeur Creek	1703	C	2.0	St. Louis	Chloride
17	Creve Coeur Creek	1703	C	2.0	St. Louis	Low DO
18	Current River	2636	P	118.0	Ripley, Shannon	Mercury
19	Dardenne Creek	219	P1	7.0	St. Charles	Low DO
20	Dardenne Creek	222	C	6.0	St. Charles	Low DO
21	Dark Creek	690	C	8.0	Randolph	Low DO
22	Ditch #36	3109	P	7	Dunklin	Low DO
23	Ditch to Buffalo Ditch	3120	P	12	Dunklin	Low DO

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
24	East Fork Medicine Creek	619	P	36.0	Grundy, Putnam	Bacteria
25	Eleven Point River	2597	P	10.0	Oregon	Mercury
26	Elm Branch	1283	C	3.0	Henry	Low DO
27	Fabius River	55	P1	3.5	Marion	Bacteria
28	Fassnight Creek	3370	P	2.4	Greene	Low DO
29	Fishpot Creek	2186	P	2.0	St. Louis	Bacteria
30	Fishpot Creek	2186	P	2.0	St. Louis	Low DO
31	Fowler Creek	747	C	6	Boone	Low DO
32	Grand Glaize Creek	2184	C	4.0	St. Louis	Chloride
33	Gravois Creek	1713	C	4.0	St. Louis	Chloride
34	Gravois Creek	1713	C	5.0	St. Louis	Low DO
35	Hinkson Creek	1008	C	18.0	Boone	Bacteria
36	Indian Creek	420	C	3.0	Jackson	Chloride
37	Lateral #2 Main Ditch	3105	P	11.5	Stoddard	Low DO
38	Little Beaver Creek	1529	C	4.0	Phelps	Low DO
39	Little Dry Fork	1864	C	4.5	Phelps	Low DO
40	Little Drywood Creek	1325	P	17	Vernon	Low DO
41	Little Niangua River	1189	P	43	Camden, Dallas	Low DO
42	Locust Creek	606	P	84.0	Chariton, Putnam	Bacteria
43	Maline Creek	1709	C	1.0	St. Louis City, St. Louis	Chloride
44	McKay Park Lake (Sunset Lake)	7399	L3	6	Cole	Mercury
45	Meramec River	1841	P	37.0	Jefferson, Franklin	Mercury
46	Miami Creek	1299	P	18.0	Bates	Low DO
47	Mississippi River	3152	P	124.5	Pemiscot, Mississippi	Mercury
48	Missouri River	1604	P	100.0	St. Louis, Gasconade	Bacteria
49	Muddy Creek	853	P	55.0	Pettis, Johnson	Chloride
50	Mussel Fork Creek	674	C	29.0	Macon, Sullivan	Bacteria
51	North Fork Cuivre River	170	C	8	Pike	Bacteria

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
52	North Fork Cuivre River	170	C	8	Pike	Low DO
53	Osage River	1031	P	82.0	Osage, Miller	Low DO
54	Panther Creek	1373	C	7.8	Polk, Hickory	Low DO
55	Red Oak Creek	2038	C	9.0	Gasconade	Low DO
56	River des Peres	1711	C	1.0	St. Louis City	Chloride
57	River des Peres	1711U001	U	U	St. Louis	Chloride
58	Roubidoux Creek	1512	P	4.0	Pulaski	Low DO
59	Shoal Creek	3231	C	4	Barry	Low DO
60	Sni-a-Bar Creek	399	P	32	Lafayette, Jackson	Low DO
61	South Fork Salt River	142	C	32	Audrain	Low DO
62	South Grand River	1249	P	62.5	Henry, Cass	Bacteria
63	St. Johns Ditch	3138	P	35.0	New Madrid, Scott	Mercury
64	St. Johns Ditch	3138	P	35.0	New Madrid, Scott	Bacteria
65	St. Louis, Lake	7054	L3	525	St. Charles	Mercury
66	Stevenson Bayou	3135	C	14	Mississippi	Low DO
67	Stockton Branch	1361	C	5.0	Cedar	Low DO
68	Straight Fork	959	C	6.0	Morgan	Chloride
69	Straight Fork	959	C	6.0	Morgan	Low DO
70	Sugar Creek	686	P	5.0	Randolph	Low DO
71	Trib. To Red Oak Creek	3360	P	0.5	Gasconade	Low DO
72	Trib. To Red Oak Creek	3361	C	1.5	Gasconade	Low DO
73	Troublesome Creek	73	P	3.5	Marion	Low DO
74	Turkey Creek	3216	P	7.0	Jasper	Bacteria
75	Walt Disney Lake	7137	L3	18	Linn	Chloride
76	Watkins Creek	1708	C	3.5	St. Louis City, St. Louis	Chloride
77	Weldon River	560	P	42.0	Grundy, Mercer	Bacteria
78	West Fork Drywood Creek	1317	C	5.5	Vernon	Low DO
79	West Fork Medicine Creek	623	P	40.0	Grundy, Mercer	Bacteria

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
80	West Fork Niangua River	1175	P	7	Webster	Low DO
81	West Yellow Creek	599	C	14.0	Sullivan	Low DO
82	Whetstone Creek	1504	P	13	Wright	Low DO
83	Willow Fork	955	C	6.5	Moniteau	Low DO
84	Wilson Creek	2375	P	18.0	Greene	Bacteria
85	Wolf Creek	2879	C	8	St. Francois	Low DO
86	Wolf Creek, Trib. To	3589	C	1.5	St. Francois	Low DO

Table 8

Summary list of water bodies that EPA approved for delisting because the state provided good cause for not including them on their 303(d) list. This table is a summary of the September 27, 2007 decision, and today's action. For additional details about the basis for each delisting, refer to the text and relevant tables in this and the September 27, 2007 decision letters. Tables 9 and 10 list those waters that are also approved for delisting and appropriate for placement in Category 4A or 4B.

No.	Water Body Name	WBID	Length (mi) /Area (acres)	County	Pollutant	Comment
1	Ben Branch Lake	7186	45	Osage	Mercury	Data indicates attainment
2	Bethany Reservoir	7109	78	Harrison	Mercury	Category 3B.
3	Black River	2769	45	Butler	Mercury	Category 3B.
4	Bluestem Lake	7370	15	Jackson	Mercury	Category 3B.
5	Bourbeuse River	2034	132	Franklin	Mercury	Data indicates attainment
6	Cameron Lake #4 (Grindstone Reservoir)	7384	180	DeKalb	Mercury	Category 3B.
7	Cooley Lake	7090	300	Clay	Mercury	Category 3B.
8	Crowder State Park Lake	7135	18	Grundy	Mercury	Category 3B.
9	Ditch #1	3050	44	Scott	Mercury	Category 3B.
10	Edina Reservoir	7026	51	Knox	Atrazine	Data indicate attainment with criterion.
11	Edina Reservoir	7026	51	Knox	Cyanazine	Recent data indicates designated use is supported.
12	Eleven Point River	2593	21	Oregon	Mercury	Category 3B.
13	Fellows Lake	7237	820	Greene	Mercury	Data indicates attainment
14	Fellows Lake	7237	820	Greene	Nutrients	Data indicate downward trend and indicate attainment with WQS.
15	Femme Osage Slough	1605	5.5	St. Charles	Mercury	Category 3B.
16	Fox River	0037	12	Clark	Manganese	Criterion no longer applies.
17	Foxboro Lake	7382	25	Franklin	Mercury	Category 3B.
18	Grand Glaize Creek	2184	4	St. Louis	Mercury	Category 3B.
19	Harry S. Truman Lake	7207	10000	Benton	Manganese	Manganese criterion no longer applies.
20	Hunnewell Lake	7029	228	Shelby	Mercury	Category 3B.
21	Indian Camp Creek	0212	0.3	Warren	Ammonia	Data indicate attainment with criterion.
22	Indian Hills Lake	7288	326	Crawford	Mercury	Category 3B.
23	James River	2347	28	Stone	Mercury	Data indicates attainment
24	James River	2362	26	Stone	Mercury	Data indicates attainment
25	Jamesport Community Lake	7105	30	Daviess	Mercury	Category 3B.

No.	Water Body Name	WBID	Length (mi) /Area (acres)	County	Pollutant	Comment
26	Labelle Lake #2	7023	112	Lewis	Atrazine	Data indicate attainment with criterion.
27	Labelle Lake #2	7023	112	Lewis	Cyanazine	Recent data indicates designated use is supported.
28	Labelle Lake #2	7023	112	Lewis	Mercury	Category 3B.
29	Lake of the Ozarks	7205	Truman Dam		Low DO	Data indicates attainment
30	Lake of the Ozarks	7205	Truman Dam		Gas supersaturation	Data indicates attainment
31	Lamine River	847	54	Cooper	Mercury	Data indicates attainment
32	Lewistown Reservoir	7020	29	Lewis	Cyanazine	Recent data indicates designated use is supported.
33	Little Blue River	423	22	Jackson	Mercury	Category 3B.
34	Long Branch Lake	7171	2430	Macon	Mercury	Category 3B.
35	Longview Lake	7097	930	Jackson	Mercury	Data indicates attainment
36	Meramec River	1846	75	Franklin	Mercury	Data indicates attainment
37	Middle Fabius River	0063	57	Lewis	Manganese	Criterion no longer applies.
38	Monroe City Route J Lake	7031	94	Ralls	Atrazine	Data indicate attainment with criterion.
39	Monroe City Route J Lake	7031	94	Ralls	Cyanazine	Recent data indicates designated use is supported.
40	Mound Branch	1300	10.0	Bates	Ammonia	Data indicates attainment
41	North Fabius River	0056	82	Marion	Manganese	Criterion no longer applies
42	Osage River	1031	82	Osage	Mercury	Data indicates attainment
43	River des Peres	1711U		St. Louis	Low DO	Inappropriately listed, criterion does not apply to unclassified stream
44	Salt River	0103	10	Pike	Iron	Criterion no longer applies.
45	Salt River	0103	10	Pike	Manganese	Criterion no longer applies.
46	Salt River	0091	29	Ralls	Manganese	Criterion no longer applies.
47	Sewer Branch	860	1	Pettis	Low DO	Data indicates attainment
48	Sewer Branch	860U		Pettis	Low DO	Inappropriately listed, criterion does not apply to unclassified stream
49	Smithville Lake	7077	7190	Clay	Mercury	Data indicates attainment
50	South Wyaconda River	0050	9	Clark	Manganese	Criterion no longer applies.
51	Swift Ditch	3151	4	New Madrid	Mercury	Category 3B.
52	Troublesome Creek	0073	3.5	Marion	Manganese	Criterion no longer applies
53	Vandalia Lake	7032	37	Pike	Atrazine	Data indicate attainment with criterion.
54	Wallace State Park Lake	7453	6	Clinton	Fecal Coliform	Data indicates attainment
55	Watkins Mill Lake	7087	126	Clay	Fecal Coliform	Data indicates attainment
56	Weatherby Lake	7071	194	Platte	Mercury	Category 3B.
57	Winnebago, Lake	7212	350	Cass	Mercury	Category 3B.
58	Wyaconda River	0046	8	Lewis	Manganese	Criterion no longer applies.

Table 9

Summary list of water bodies with EPA-approved TMDLs, which are appropriate for placement in Category 4A. This table is a summary of the September 27, 2007 decision, and today's action.

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
1	Barker's Creek, Tributary to	1029U	U	U	Henry	pH, sulfate
2	Big Creek	1250	P	61.3	Henry	Sediment
3	Big Creek	2916	P	32.0	Iron	Metals
4	Big Muddy Creek	436	P	8.0	Daviess	Sediment
5	Big Otter Creek	1224	C	2.0	Henry	pH
6	Big Otter Creek, Tributary to	1225	C	1.0	Henry	pH
7	Big Sugar Creek	3250	P	31.0	McDonald	Nutrients
8	Blackbird Creek	653	P	6.0	Putnam	Sediment
9	Blue River	417	P	4.0	Jackson	Chlordane
10	Blue River	418	P	9.0	Jackson	Chlordane
11	Blue River	419	P	9.0	Jackson	Chlordane
12	Blue River	421	C	11.0	Jackson	Chlordane
13	Brushy Creek	1592	P	3.0	Texas	BOD, VSS
14	Brushy Creek (Fork)	859	P	3.0	Pettis	BOD, Ammonia, NFR
15	Buffalo Creek	3269	P	10.0	McDonald	Nutrients
16	Buffalo Creek	3273	P	5.5	McDonald	Nutrients
17	Cedar Creek	737	C	33.0	Callaway, Boone	pH, sulfate
18	Cedar Creek	737	C	33.0	Callaway, Boone	Sulfate
19	Center Creek	3203	P	26.0	Jasper	Zinc
20	Clear Creek	1336	C	15.0	Vernon	Sediment
21	Clear Creek	3239	C	3.0 (2.0)	Lawrence	BOD, NFR, Ammonia
22	Creve Coeur Lake	7255	L3	300	St. Louis	Chlordane
23	Dark Creek	690	C	8.0	Randolph	Sulfate

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
24	Davis Creek	912	C	11.4	Lafayette	Low DO attributed to BOD, Ammonia, Nutrients
25	Douger Branch	3168	C	4.5	Lawrence	Zinc
26	East Fork Medicine Creek	619	P	36.0	Grundy, Putnam	Sediment
27	East Fork Tebo Creek	1282	C	12.0	Henry	pH
28	Eleven Point River	2604	C	34.0	Howell	Chlorine
29	Elk River	3246	P	21.5	McDonald	Nutrients
30	Flat Creek	865	C	21.8	Pettis	Sediment
31	Goose Creek	2860	P	1.0	Madison	Nickel, Cobalt
32	Honey Creek	554	C	23.0	Livingston	Sediment
33	Honey Creek	1251	C	10.0	Henry	Sulfate
34	Howell Creek	2582	C	14.0	Howell	Chlorine
35	Indian Creek	3256	P	26.0	McDonald, Newton	Nutrients
36	Jack's Fork River	2681	P	39.0	Shannon	Fecal Coliform
37	James River	2347	P	28.0	Stone	Nutrients, Unknown
38	James River	2362	P	26.0	Christian	Nutrients, Unknown
39	James River	2365	P	35.0	Webster	Nutrients, Unknown
40	Joyce Creek	3233	C	5.0	Barry	Fecal Coliform
41	Kelley Branch	1016	C	2.0	Boone	Sediment
42	Lake Creek	875	P	4.3	Pettis	Sediment
43	Lamar City Lake	7356	L1	180	Barton	Nutrients
44	Little Muddy Creek	856	C	7.3	Pettis	Temperature
45	Little Muddy Creek, Tributary to	3490	C	0.4	Pettis	Temperature
46	Little Sac River	1381	P	29.0	Dade	Fecal Coliform
47	Little Sugar Creek	3249	P	11.0	McDonald	Nutrients
48	Little Tarkio Creek	248	P	17.5	Holt	Sediment

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
49	Main Ditch	2814	C	14.0	Butler	BOD, VSS, Low DO
50	Manacle Creek	742	C	2.0	Callaway	pH, Sulfate
51	McDaniel Lake	7236	L1	300.0	Greene	Nutrients
52	McKenzie Creek	2787	C	4.5	Wayne	pH
53	Miami Creek	1299	P	18.0	Bates	Sediment
54	Middle Fork Grand River	468	P	25.0	Gentry, Worth	Sediment
55	Middle Fork Salt River	121	P	49.0	Monroe	Sediment
56	Middle Fork Tebo Creek	1284	C	6.5	Henry	Sulfate
57	Middle Fork Tebo Creek Trib.	1288	C	3.5	Henry	pH, sulfate
58	Middle Fork Tebo Creek Trib.	1288	C	3.5	Henry	Sulfate
59	Middle Indian Creek	3262	C	3.0	Newton	Nutrients
60	Middle Indian Creek	3263	P	2.5	Newton	Nutrients
61	Mill Creek	159	C	5	Lincoln	Sediment
62	Mississippi River	1	P	165.0	St. Charles	Chlordane, PCBs
63	Mississippi River	1707	P	195.5	Mississippi	Chlordane, PCBs
64	Mississippi River	3152	P	124.5	Pemiscot, Mississippi	Chlordane, PCBs
65	Missouri River	226	P	179.0	Jackson	Chlordane, PCBs
66	Missouri River	356	P	125.0	Chariton	Chlordane, PCBs
67	Missouri River	701	P	129.0	Gasconade	Chlordane, PCBs
68	Missouri River	1604	P	100.0	St. Louis, Gasconade	Chlordane, PCBs
69	Monegaw Creek	1234	C	10.0	St. Clair	Sulfate
70	Muddy Creek	855	P	55.0	Pettis	BOD
71	Mussel Fork Creek	674	C	29.0	Macon, Sullivan	Sediment
72	North Fabius River	56	P	82.0	Marion	Sediment

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
73	North Fork Spring River	3188	C	51.5	Barton	Sediment
74	North Indian Creek	3260	P	5.0	Newton	Nutrients
75	North Moreau Creek	942	P	50.0	Moniteau	NFR, Ammonia, CBOD
76	Old Channel Little River	3041	P	39.5	New Madrid	Sediment
77	Patterson Creek	3268	P	2.0	McDonald	Nutrients
78	Piney Creek	2614	C	10.5	Oregon	Chlorine
79	Pleasant Hill Lake	7211	L1	115	Cass	Chlordane
80	Pogue Creek	3232	C	2.5	Barry	Fecal Coliform
81	Rock Creek	1714	P	5.0	Jefferson	CBOD, Ammonia
82	Rocky Fork	1014	C	8.0	Boone	NVSS (Sediment)
83	Rush Creek	278	P	4.0	Platte	BOD, NFR
84	Saline Creek	2190	C	3.0	Jefferson	BOD, Ammonia
85	Saline Creek	2859	P	5.5	Madison	Nickel, Cobalt
86	Second Nicolson Creek	1319	P	6.0	Barton	Sulfate
87	Shoal Creek	3230	P	13.5	Newton	Fecal Coliform
88	Shoal Creek	3231	C	4.0	Barry	Fecal Coliform
89	South Fork Blackwater River	921	P	5.0	Johnson	Sediment
90	South Indian Creek	3259	P	9.0	Newton	Nutrients
91	South Wyaconda River	50	P	9.0	Clark	Sediment
92	Spillway Ditch	3134	P	13.5	New Madrid	Sediment
93	Spring Fork Lake	7187	L1	178	Pettis	Nutrients
94	St. Francis River	2835	P	86.0	St. Francois	BOD, Ammonia
95	St. Louis, Lake	7054	L3	525	St. Charles	Chlordane
96	Sugar Creek	686	P	5.0	Randolph	pH
97	Third Fork Platte River	327	C	31.5	Buchanan	Sediment
98	Trace Creek	2850	C	5.5	Madison	pH
99	Troublesome Creek	73	P	3.5	Marion	Sediment

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
100	Turkey Creek	3216	P	7.0	Jasper	Zinc
101	Turkey Creek	3217	P	5.0	Jasper	Zinc
102	Turkey Creek	3282	P	2.4	St. Francois	BOD, VSS
103	West Fork Medicine Creek	623	P	40.0	Grundy, Mercer	Sediment
104	West Fork Sni-a-Bar Creek	400	P	6.0	Jackson	BOD, VSS
105	West Fork Tebo Creek	1292	C	7.0	Henry	Sulfate
106	Whetstone Creek (E. Whetstone Creek)	1505	C	3.5	Wright	BOD

Table 10

Summary list of water bodies with EPA-approved Permits in Lieu (PIL) of TMDLs, which are appropriate for Placement in Category 4B. This table is a summary of the September 27, 2007 decision, and today's action.

No.	Water Body Name	WBID	Class	Length/Area Classified Segment	County	Pollutant
1	Bynum Creek	709	C	4.5	Callaway	NVSS
2	Dog Creek	510	C	5.0	Daviess	NVSS
3	Dry Auglaize Creek	1145	P	7.0	Laclede	Unknown
4	East Brush Creek	811	C	8.0	Moniteau	BOD,NFR
5	East Brush Creek	811	C	8.0	Moniteau	Nutrients
6	Elkhorn Creek	189	C	19	Montgomery	BOD,VSS
7	Gabriel Creek	883	C	11.1	Morgan	Ammonia, Low DO
8	Gabriel Creek	883	C	11.1	Morgan	BOD, NFR
9	Horseshoe Creek	3413	C	5.8	Jackson	BOD, NH3N
10	Little Beaver Creek	1529	C	4.0	Phelps	VSS
11	Little Lindley Creek	1438	C	3.0	Dallas	BOD,VSS
12	Red Oak Creek	2038	C	9.0	Gasconade	VSS
13	Red Oak Creek Tributary	3360	P	0.5	Gasconade	VSS
14	Red Oak Creek Tributary	3361	C	1.5	Gasconade	VSS
15	Rocky Branch	3326	C	3.2	Clay	BOD
16	Stockton Branch	1361	C	5.0	Cedar	VSS
17	Straight Fork	959	C	6.0	Morgan	VSS
18	Walnut Creek	1339	P	3.5	St. Clair, Cedar	BOD, VSS

Table 11

Consolidated 2004/2006 Missouri 303(d) List

This table is a summary of the September 27, 2007 decision and today's action. It includes water body/pollutant pairs that are approved for listing, approved pollutant changes, additional segment length added by EPA, and water bodies and/or pollutants added or restored by EPA.

No.	Water Body Name	WBID	Class	Length/ Area on 2002 List	Length/ Area Identified by MDNR on 04/06 List	Length/ Area Classified Segment	Legal Description From	To	County	Pollutant	Year Water Body/ Pollutant Pair Listed	Listing Approved, No Changes by EPA	Approved Pollutant Change	Listing Approved, Segment Length/Area Added by EPA	Delisting Disapproved, Pollutant Restored by EPA	New Pollutant Added by EPA
1	Bear Creek	115U	U	*	0	U	near Kirksville		Adair	Unknown	2002				X	
2	Bee Fork	2760	C	NA	1.0	8.5	Mouth	30,32N,1W	Reynolds	Lead	2006			X		
3	Belcher Branch Lake	7365	L3	NA	/	55	08/17,55N,34W		Buchanan	Mercury	2006					X
4	Big Bottom Creek	1746	C	0.5	1.8	1.9	Mouth	Lake Anne	Ste. Genevieve	Low DO	1998		BOD to Low DO	X		
5	Big Bottom Creek	1746	C	0.5	0	1.9	Mouth	Lake Anne	Ste. Genevieve	Organic Sediment	1998				X	
6	Big Creek	444	P	NA	6.0	22.0	Mouth	9,63N,28W	Daviess, Harrison	Ammonia	2006			X		
7	Big Creek	444	P	NA	6.0	22.0	Mouth	9,63N,28W	Daviess, Harrison	Low DO	2006			X		
8	Big Otter Creek, Tributary to	1225	C	NA	/	1.0	Mouth	32,40N,25W	Henry	Low DO	2006					X
9	Big River	2074	P	53.0	0	53.0	Mouth	Sur 3166,40N,3D	Jefferson	Lead	1998				X	
10	Big River	2080	P	40.0	35.0	68.0	Sur 3166,40N,3D	12,35N,1E	Jefferson, Washington	Cadmium	1994			X		
11	Big River	2080	P	40.0	55.0	68.0	Sur 3166,40N,3D	12,35N,1E	Jefferson, Washington	Lead	1994			X		
12	Big River	2080	P	40.0	55.0	68.0	Sur 3166,40N,3D	12,35N,1E	Jefferson, Washington	Inorganic Sediment	1994		NVSS to Inorganic Sediment	X		
13	Big River	2080	P	40.0	19.0	68.0	Sur 3166,40N,3D	12,35N,1E	Jefferson, Washington	Zinc	1994			X		
14	Blackberry Creek	3185	C	NA	/	7.5	Mouth	28,30N,33W	Jasper	Sulfate + Chloride	2006					X
15	Blue River	417	P	NA	4.0	4.0	Mouth	Guinotte Dam	Jackson	Bacteria	2006	X				
16	Blue River	418	P	NA	9.0	9.0	Guinotte Dam	59th St.	Jackson	Bacteria	2006	X				
17	Blue River	419	P	NA	9.0	9.0	59th St.	Bannister Rd.	Jackson	Bacteria	2006	X				

No.	Water Body Name	WBID	Class	Length/ Area on 2002 List	Length/ Area Identified by MDNR on 04/06 List	Length/ Area Classified Segment	Legal Description From	To	County	Pollutant	Year Water Body/ Pollutant Pair Listed	Listing Approved, No Changes by EPA	Approved Pollutant Change	Listing Approved, Segment Length/Area Added by EPA	Delisting Disapproved, Pollutant Restored by EPA	New Pollutant Added by EPA
18	Blue River	421	C	NA	/	11.0	Bannister Rd	State Line	Jackson	Bacteria	2006					X
19	Bobs Creek	35	C	NA	1.0	12.5	34,49N,2E	27,50,1E	Lincoln	Low DO	2006			X		
20	Bonne Femme Creek	750	P	NA	/	7.0	Mouth	20,47N,12W	Boone	Bacteria	2006					X
21	Brush Creek	1371	P	0.2	4.0	4.0	31,36N,24W	16,35N,24W	St. Clair, Polk	Low DO	2002	X	BOD to Low DO			
22	Brush Creek	1371	P	0.2	0	4.0	31,36N,24W	16,35N,24W	St. Clair, Polk	Organic Sediment	2002				X	
23	Buffalo Ditch	3118	P	3.0	3.0	18.0	State Line	11,18N,9E	Dunklin	Low DO	1994		BOD to Low DO	X		
24	Buffalo Ditch	3118	P	NA	3.0	18.0	State Line	11,18N,9E	Dunklin	Ammonia	2006			X		
25	Burgher Branch	1865	C	NA	/	2	Mouth	07,37N,07W	Phelps	Low DO	2006					X
26	Busch W.A. #35	7057	L3	NA	/	51	NE NE30,46N,03E		St. Charles	Mercury	2006					X
27	Capps Creek	3234	P	NA	4.0	4.0	Mouth	17, 25N,28W	Newton, Barry	Bacteria	2006	X				
28	Cave Spring Branch	3245U	U	0.2	0.2	U			McDonald	Nutrients	1998	X				
29	Cedar Creek, Trib. To	743	C	NA	/	1.5	Mouth	14,49N,11W	Callaway	Low DO	2006					X
30	Center Creek	3203	P	NA	12.8	26.0	14,28N,34W	34,28N,31	Jasper	Cadmium	2006			X		
31	Center Creek	3203	P	NA	12.8	26.0	14,28N,34W	34,28N,31	Jasper	Lead	2006			X		
32	Chariton River	640	P	NA	20.0	110.0	Mouth	State Line	Chariton, Putnam	Bacteria	2006			X		
33	Clear Creek	1333	P	NA	/	15.5	7,37N,27W	10,35N,29W	St. Clair, Vernon	Low DO	2006					X
34	Clear Creek	1336	C	NA	/	15.0	10,35N,29W	16,34N,30W	Vernon	Low DO	2006					X
35	Clear Creek	3238	P	NA	/	9	Mouth	28,26N,28W	Newton, Lawrence	Bacteria	2006					X
36	Clear Creek	3239	C	NA	3.0	3.0 (2.0)	28,26N,28W	36,26N,28W	Lawrence, Barry	Low DO	2006	X				
37	Clear Creek	3239	C	3.0	0	3.0 (2.0)	28,26N,28W	36,26N,28W	Lawrence, Barry	Nutrients	1998				X	
38	Clear Fork	935	P	NA	/	24.5	Mouth	35,45N,25W	Johnson	Low DO	2006					X
39	Clearwater Lake	7326	L2	1650	0	1650	NW NE06,28N,03E		Reynolds	Mercury	2002				X	
40	Coldwater Creek	1706	C	NA	/	5.5	Mouth	Hwy. 67	St. Louis	Chloride	2006					X
41	Coldwater Creek	1706	C	NA	/	5.5	Mouth	Hwy. 67	St. Louis	Low DO	2006					X
42	Courtois Creek	1943	P	NA	3.0	30.0	Mouth	17,35N,1W	Crawford, Washington	Lead	2006			X		

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43	Courtois Creek	1943	P	NA	3.0	30.0	Mouth	17,35N,1W	Crawford, Washington	Zinc	2006			X		
44	Creve Coeur Creek	1703	C	NA	/	2.0	Creve Coeur Lk	1mi. S. of Hwy. 340	St. Louis	Bacteria	2006					X
45	Creve Coeur Creek	1703	C	NA	/	2.0	Creve Coeur Lk	1mi. S. of Hwy. 341	St. Louis	Chloride	2006					X
46	Creve Coeur Creek	1703	C	NA	/	2.0	Creve Coeur Lk	1mi. S. of Hwy. 340	St. Louis	Low DO	2006					X
47	Crooked Creek	1928	P	NA	3.5	3.5	Mouth	33,35N,2W	Crawford	Cadmium	2006	X				
48	Crooked Creek	1928	P	NA	3.5	3.5	Mouth	33,35N,2W	Crawford	Lead	2006	X				
49	Current River	2636	P	NA	/	118.0	State Line	24,31N,6W	Ripley, Shannon	Mercury	2006					X
50	Dardenne Creek	219	P1	NA	/	7.0	Mouth	Sur 1704,47N,4E	St. Charles	Low DO	2006					X
51	Dardenne Creek	221	P	NA	1.0	15.0	Sur 1704,47N,4E	22,46N,2E	St. Charles	Inorganic Sediment	2006			X		
52	Dardenne Creek	221	P	10.0	0	15.0	Sur 1704,47N,4E	22,46N,2E	St. Charles	Unknown	2002				X	
53	Dardenne Creek	222	C	NA	3.4	6.0	22,46N,2E	22,46N,1E	St. Charles	Inorganic Sediment	2006			X		
54	Dardenne Creek	222	C	NA	/	6.0	22,46N,2E	22,46N,1E	St. Charles	Low DO	2006					X
55	Dark Creek	690	C	NA	/	8.0	Mouth	34,55N,15W	Randolph	Low DO	2006					X
56	Deer Ridge Community Lake	7015	L3	48	0	48	18,62N,08W		Texas	Mercury	2002				X	
57	Ditch #36	3109	P	NA	/	7	Mouth	21,19N,10E	Dunklin	Low DO	2006					X
58	Ditch to Buffalo Ditch	3120	P	NA	/	12	Mouth	2,18N,9E	Dunklin	Low DO	2006					X
59	Douger Branch	3168	C	NA	2.5	4.5	Mouth	7,26N,25W	Lawrence	Cadmium	2006			X		
60	Douger Branch	3168	C	NA	2.5	4.5	Mouth	7,26N,25W	Lawrence	Lead	2006			X		
61	Dousinbury Creek	1180	P	NA	3.5	3.5	Mouth	17,33N,18W	Dallas	Bacteria	2006	X				
62	Dutro Carter Creek	3569	P	NA	0.1	1.5	Mouth	Hwy 72	Phelps	Ammonia	2006			X		
63	Dutro Carter Creek	3569	P	NA	0.6	1.5	Mouth	Hwy 72	Phelps	Low DO	2006			X		
64	East Fork Chariton River	682	P	NA	48.5	48.5	Mouth	Long Br. Dam	Randolph	Sulfate	2006	X				
65	East Fork Grand River	457	P	NA	25.0	25.0	Mouth	29,66N,30W	Gentry, Worth	Bacteria	2006	X				
66	East Fork Locust Creek	608	P	NA	2.5	16.6	Mouth	Hwy 6	Sullivan	Low DO	2006			X		
67	East Fork Medicine Creek	619	P	NA	/	36.0	9,61N,22W	State Line	Grundy, Putnam	Bacteria	2006					X

No.	Water Body Name	WBID	Class	Length/ Area on 2002 List	Length/ Area Identified by MDNR on 04/06 List	Length/ Area Classified Segment	Legal Description From	To	County	Pollutant	Year Water Body/ Pollutant Pair Listed	Listing Approved, No Changes by EPA	Approved Pollutant Change	Listing Approved, Segment Length/Area Added by EPA	Delisting Disapproved, Pollutant Restored by EPA	New Pollutant Added by EPA
68	East Fork Tebo Creek	1282	C	NA	1.0	12.0	31,43N,24W	45,44N,24W	Henry	Low DO	2006			X		
69	Eaton Branch	2166	C	NA	0.9	3.0	Mouth	9,36N,4E	St. Francois	Cadmium	2006			X		
70	Eaton Branch	2166	C	NA	0.9	3.0	Mouth	9,36N,4E	St. Francois	Lead	2006			X		
71	Eaton Branch	2166	C	NA	0.9	3.0	Mouth	9,36N,4E	St. Francois	Zinc	2006			X		
72	Eleven Point River	2597	P	NA	/	10.0	18,24N,2W	36,25N,4W	Oregon	Mercury	2006					X
73	Elm Branch	1283	C	NA	/	3.0	Mouth	12,43N,24W	Henry	Low DO	2006					X
74	Fabius River	55	P1	NA	/	3.5	Mouth	24,59N,6W	Marion	Bacteria	2006					X
75	Fassnight Creek	3370	P	NA	/	2.4	27,29N,22W	25,29N,22W	Greene	Low DO	2006					X
76	Fishpot Creek	2186	P	NA	/	2.0	Mouth	13,44N,05E	St. Louis	Bacteria	2006					X
77	Fishpot Creek	2186	P	NA	/	2.0	Mouth	13,44N,05E	St. Louis	Low DO	2006					X
78	Flat Creek	865	C	NA	15.5	21.8	13,45N,21W	02,43N,23W	Pettis	Unknown	2006			X		
79	Flat River Creek	2168	C	NA	5.0	9.0	Mouth	21,36N,4E	St. Francois	Cadmium	2006			X		
80	Flat River Creek	2168	C	5.0	5.0	9.0	Mouth	21,36N,4E	St. Francois	Lead	1994			X		
81	Flat River Creek	2168	C	5.0	5.0	9.0	Mouth	21,36N,4E	St. Francois	Zinc	1994			X		
82	Flat River Creek	2168	C	5.0	5.0	9.0	Mouth	21,36N,4E	St. Francois	Inorganic sediment	1994		NVSS to Inorganic Sediment	X		
83	Fowler Creek	747	C	NA	/	6	Mouth	13,46N,12W	Boone	Low DO	2006					X
84	Gasconade River	1455	P	249.0	0	249.0	Mouth	6,29N,14W	Gasconade	Mercury	2002				X	
85	Grand Glaize Creek	2184	C	NA	/	4.0	Mouth	9,44N,5E	St. Louis	Chloride	2006					X
86	Grand River	593	P	NA	60.0	60.0	Mouth	Shoal Cr.	Chariton, Livingston	Bacteria	2006	X				
87	Gravois Creek	1712	P	NA	2.0	2.0	Mouth	24,44N,6E	St. Louis City, St. Louis	Bacteria	2006	X				
88	Gravois Creek	1713	C	NA	4.0	4.0	24,44N,6E	Hwy. 30	St. Louis	Bacteria	2006	X				
89	Gravois Creek	1713	C	NA	/	4.0	24,44N,6E	Hwy. 30	St. Louis	Chloride	2006					X
90	Gravois Creek	1713	C	NA	/	5.0	24,44N,6E	Hwy. 30	St. Louis	Low DO	2006					X
91	Grindstone Creek	1009	C	NA	1.5	1.5	Mouth	20,48N,12W	Boone	Bacteria	2006	X				
92	Hickory Creek	442	C	*	0	1.5	Mouth	11,60N,28W	Daviess	Unknown	2002				X	
93	Hickory Creek	588	C	*	0	7.0	Mouth	9,60N,25W	Grundy	Unknown	2002				X	
94	Hickory Creek	3226	P	NA	1.0	4.5	Mouth	28,25N,31W	Newton	Bacteria	2006			X		
95	Hickory Creek, Trib. to	589	C	*	0	1.0	Mouth	9,60N,25W	Grundy	Unknown	2002				X	
96	Hinkson Creek	1007	P	*	6.0	6.0	Mouth	Hwy 163	Boone	Unknown	1998	X				
97	Hinkson Creek	1008	C	NA	/	18.0	Hwy 163	36,50N,12W	Boone	Bacteria	2006					X

No.	Water Body Name	WBID	Class	Length/ Area on 2002 List	Length/ Area Identified by MDNR on 04/06 List	Length/ Area Classified Segment	Legal Description From	To	County	Pollutant	Year Water Body/ Pollutant Pair Listed	Listing Approved, No Changes by EPA	Approved Pollutant Change	Listing Approved, Segment Length/Area Added by EPA	Delisting Disapproved, Pollutant Restored by EPA	New Pollutant Added by EPA
98	Hinkson Creek	1008	C	NA	6.3	18.0	Hwy 163	36,50N,12W	Boone	Unknown	2006			X		
99	Hough Park Lake	7388	L3	7	0	7	19,44N,11W		Cole	Mercury	2002				X	
100	Indian Camp Creek	212	C	0.3	0	5.0	6,47N,1E	4,47N,1W	St. Charles, Warren	Inorganic sediment	1998				X	
101	Indian Creek	420	C	NA	/	3.0	Mouth	State Line	Jackson	Chloride	2006					X
102	Indian Creek	420	C	*	3.0	3.0	Mouth	State Line	Jackson	Bacteria	2002	X	Fecal coliform to Bacteria			
103	Indian Creek	1946	C	NA	1.5	1.5	Mouth	17,35N,1E	Washington	Lead	2006	X				
104	Indian Creek	1946	C	*	1.5	1.5	Mouth	17,35N,1E	Washington	Zinc	2002	X				
105	Indian Creek	3256	P	NA	5.0	26.0	Mouth	24,24N,31W	McDonald, Newton	Bacteria	2006			X		
106	Indian Creek, Tributary to	3663	C	NA	0.5	0.5 (0.3)	Mouth	7,35N,1W	Washington	Lead	2006	X				
107	Indian Creek, Tributary to	3663	C	NA	0.5	0.5 (0.3)	Mouth	7,35N,1W	Washington	Zinc	2006	X				
108	Knob Noster State Park Lakes (Lake Buteo)	7196	L3	24	0	24	29/30/46N,24W		Johnson	Mercury	2002				X	
109	Lamine River	847	P	NA	54.0	54.0	Mouth	13,45N,19W	Cooper	Bacteria	2006	X				
110	Lateral #2 Main Ditch	3105	P	NA	/	11.5	24,23N,10E	25,25N,10E	Stoddard	Low DO	2006					X
111	Lateral #2 Main Ditch	3105	P	*	0	11.5	24,23N,10E	25,25N,10E	Stoddard	Sediment	1998				X	
112	Lewistown Lake	7020	L1	27	29	29	NW SW8,61N,8W		Lewis	Atrazine	2002	X				
113	Little Beaver Creek	1529	C	NA	/	4.0	Mouth	8,37N,8W	Phelps	Low DO	2006					X
114	Little Dry Fork	1863	P	NA	1.0	5.0	Mouth	8,37N,7W	Phelps	Low DO	2006			X		
115	Little Dry Fork	1864	C	NA	/	4.5	8,37N,7W	5,36N,7W	Phelps	Low DO	2006					X
116	Little Drywood Creek	1325	P	NA	/	17	Mouth	13,34N,32W	Vernon	Low DO	2006					X
117	Little Muddy Creek, Tributary to	3490	C	NA	0.4	0.4	Mouth	14,46N,22W	Pettis	Color	2006[10]	X				
118	Little Muddy Creek, Tributary to	3490	C	NA	0.4	0.4	Mouth	14,46N,22W	Pettis	Chloride	2006[10]	X				
119	Little Niangua River	1189	P	NA	/	43	Mouth	26,36N,19W	Camden, Dallas	Low DO	2006					X
120	Little Osage River	3652	C	*	0	16.0	18,37N,31W	18,37N,33W	Vernon	Low DO	2002				X	

[10] EPA's September 27, 2007 letter erroneously stated that Trib. to Little Muddy Creek was listed in 1998 for color and chloride. This segment was listed in 1998 for temperature and EPA subsequently approved the TMDL. The 2004/2006 303(d) list is the first time Trib. to Little Muddy Creek has been listed for color and chloride.

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121	Locust Creek	606	P	NA	/	84.0	Mouth	State Line	Chariton, Putnam	Bacteria	2006					X
122	Long Branch	602	C	*	0	13.0	Mouth	11,59N,20W	Linn	Unknown	2002				X	
123	Long Branch	857	C	*	0	4.5	06,45N,23W	09,45N,24W	Pettis, Johnson	Unknown	2002				X	
124	Long Branch Creek	696	C	NA	2.0	13.0	5,58N,14W	19,60N,14W	Macon	Low DO	2006			X		
125	Lost Creek	3278	P	NA	8.5	8.5	State Line	14,25N,33W	Newton	Bacteria	2006	X				
126	Main Ditch	2814	C	NA	6.0	14.0	18,22N,6E	10,24N,6E	Butler	pH	2006			X		
127	Main Ditch	2814	C	NA	6.0	14.0	18,22N,6E	10,24N,6E	Butler	Ammonia	2006			X		
128	Main Ditch	2814	C	NA	14.0	14.0	18,22N,6E	10,24N,6E	Butler	Temperature	2006	X				
129	Maline Creek	1709	C	NA	/	1.0	Mouth	Bellefontaine Rd	St. Louis City, St. Louis	Chloride	2006					X
130	Mark Twain Lake	7033	L2	18600	0	18600	26,55N,07W		Ralls	Mercury	2002				X	
131	Marmaton River	1308	P	*	0	49.5	19,38N,29W	State Line	Vernon	Low DO	2002				X	
132	McKay Park Lake (Sunset Lake)	7399	L3	NA	/	6.0	13,44N,12W		Cole	Mercury	2006					X
133	McKenzie Creek	2786	P	2.5	2.5	6.0	Mouth	23,29N,3E	Wayne	Low DO	2002		BOD to Low DO	X		
134	Meramec River	1841	P	NA	/	37.0	Big R.	Meramec State Pk.	Jefferson, Franklin	Mercury	2006					X
135	Miami Creek	1299	P	NA	/	18.0	Mouth	10,40N,32W	Bates	Low DO	2006					X
136	Middle Fork Grand River	468	P	NA	25.0	25.0	Mouth	12,66N,31W	Gentry, Worth	Bacteria	2006	X				
137	Mississippi River	1707	P	5.0	0	195.5	Ohio R.	Dam #27	Mississippi, St. Louis	Lead	1998				X	
138	Mississippi River	1707	P	5.0	0	195.5	Ohio R.	Dam #27	Mississippi, St. Louis	Zinc	1998				X	
139	Mississippi River	3152	P	NA	/	124.5	State Line	Ohio R.	Pemiscot, Mississippi	Mercury	2006					X
140	Missouri River	1604	P	NA	/	100.0	Mouth	Gasconade R.	St. Louis, Gasconade	Bacteria	2006					X
141	Mound Branch	1300	C	1.0	1.0	10.0	Mouth	13,40N,31W	Bates	Low DO	1998		BOD to Low DO	X		
142	Muddy Creek	557	P	*	0	36.5	Mouth	22,66N,23W	Grundy, Mercer	Unknown	2002				X	

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143	Muddy Creek	853	P	NA	/	55.0	Mouth	17,45N,23W	Pettis, Johnson	Chloride	2006					X
144	Muddy Creek	853	P	NA	1.0	55.0	Mouth	17,45N,23W	Pettis	Color	2006			X		
145	Mussel Fork Creek	674	C	NA	/	29.0	18,58N,17W	2,62N,18W	Macon, Sullivan	Bacteria	2006					X
146	Niangua River	1170	P	NA	2.0	51.0	Bennett Spr Cr.	33,32N,18W	Dallas	Bacteria	2006			X		
147	No Creek	550	P	NA	22.5	22.5	Mouth	14,62N,23W	Grundy	Bacteria	2006	X				
148	Noblett Lake	7316	L3	26	0	26	25,26N,11W		Douglas	Mercury	2002				X	
149	North Fork Cuivre River	170	C	NA	/	8	24,51N,3W	28,52N,3W	Pike	Bacteria	2006					X
150	North Fork Cuivre River	170	C	NA	/	8	24,51N,3W	28,52N,3W	Pike	Low DO	2006					X
151	North Fork Spring River	3188	C	NA	4.1	51.5	1,29N,32W	20,30N,28W	Barton	Low DO	2006			X		
152	North Fork Spring River	3188	C	NA	41.4	51.5	1,29N,32W	20,30N,28W	Barton	Unknown	2006			X		
153	North Fork Spring River	3188	C	NA	1.0	51.5	1,29N,32W	20,30N,28W	Barton	Ammonia	2006			X		
154	Osage River	1031	P	NA	/	82.0	Mouth	Bagnell Dam	Osage, Miller	Low DO	2006					X
155	Ozarks, Lake of the	7205	L2	*	0	59520	SE SE19,40N,15W		Camden	Fish Trauma	1998				X	
156	Panther Creek	1373	C	NA	/	7.8	Mouth	13,35N,24W	Polk, Hickory	Low DO	2006					X
157	Pearson Creek	2373	P	NA	1.5	8.0	Mouth	5,29N,20W	Greene	Bacteria	2006			X		
158	Pearson Creek	2373	P	1.5	0	8.0	Mouth	5,29N,20W	Greene	Unknown toxicity	1998				X	
159	Peruque Creek	217	P	4.0	0	4.0	Hwy. 40/61	25,47N,1E	St. Charles	Inorganic Sediment	2002				X	
160	Peruque Creek	218	C	8.5	0	8.5	25,47N,1E	23,47N,1W	St. Charles	Inorganic Sediment	2002				X	
161	Pickle Creek	1755	P	NA	7.0	7.0	Mouth	19,36N,7E	Ste. Genevieve	pH	2006	X				
162	Piper Creek (Town Branch)	1444	P	NA	0.5	7.5	Mouth	Hwy 83	Polk	Unknown	2006			X		

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163	Piper Creek (Town Branch)	1444	P	0.5	2.0	7.5	Mouth	Hwy 83	Polk	Organic Sediment	1998		VSS to Organic Sediment	X		
164	Pond Creek, Trib. to	2128	C	0.5	0	1.0	Mouth	3,37N,3E	Washington	Inorganic Sediment	1998				X	
165	Red Oak Creek	2038	C	NA	/	9.0	28,42N,4W	16,41N,5W	Gasconade	Low DO	2006					X
166	River des Peres	1711	C	NA	/	1.0	Gravois Cr.	Morgan Ford Road	St. Louis City	Chloride	2006					X
167	River des Peres	1711U001	U	NA	/	U	at University City		St. Louis	Chloride	2006					X
168	Roubidoux Creek	1512	P	NA	/	4.0	Mouth	25,36N,12W	Pulaski	Low DO	2006					X
169	Saline Creek, Trib. to	2859U	U	NA	1.0	U			Madison	Nickel	2006	X				
170	Salt River	91	P	29.0	0	29.0	Hwy. 79	Re-Reg Dam	Pike, Ralls	Mercury	2002				X	
171	Sandy Creek	652	C	*	0	3.0	Mouth	19,66N,17W	Putnam	Unknown	2002				X	
172	Schuman Park Lake	7280	L3	5	0	5	02,37N,08W		Phelps	Mercury	2002				X	
173	Sewer Branch	860	C	*	0	1.0	Mouth	16,46N,21W	Pettis	Unknown	2002				X	
174	Sewer Branch	0860U	U	*	0	U			Pettis	Unknown	2002				X	
175	Shaw Branch	2170	C	NA	2.0	2.0	Mouth	20,36N,5E	St. Francois	Cadmium	2006	X				
176	Shaw Branch	2170	C	2.0	2.0	2.0	Mouth	20,36N,5E	St. Francois	Lead	1994	X				
177	Shaw Branch	2170	C	2.0	0	2.0	Mouth	20,36N,5E	St. Francois	Inorganic Sediment	1994				X	
178	Shibboleth Creek	2120	C	0.5	0	3.0	14,38N,3E	21,38N,3E	Washington	Inorganic Sediment	1998				X	
179	Shoal Creek	3231	C	NA	/	4	12,23N,29W	Hwy. 86	Barry	Low DO	2006					X
180	Sni-a-Bar Creek	399	P	NA	/	32	Mouth	30,48N,29W	Lafayette, Jackson	Low DO	2006					X
181	South Blackbird Creek	655	C	NA	4.0	13.0	2,64N,17W	18,65N,18W	Putnam	Ammonia	2006			X		
182	South Fork Salt River	142	C	NA	/	32	Audrain Co. Line	5,49N,4W	Audrain	Low DO	2006					X
183	South Grand River	1249	P	NA	/	62.5	Mouth	02,44N,33W	Henry, Cass	Bacteria	2006					X
184	Spring Branch (Creek)	3708	P	0.3	0	7.4	02,34N,06W	Hwy. 32	Dent	Organic Sediment	1994				X	
185	Spring Branch (Creek)	3708	P	0.3	0	7.4	02,34N,06W	Hwy. 32	Dent	Low DO	1994				X	
186	Spring River	3160	P	NA	3.0	58.5	State Line	20,28N,27W	Jasper, Lawrence	Bacteria	2006			X		

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187	St. Johns Ditch	3138	P	NA	/	35.0	29,23N,15E	25,28N,13E	New Madrid, Scott	Mercury	2006					X
188	St. Johns Ditch	3138	P	NA	/	35.0	29,23N,15E	25,28N,13E	New Madrid, Scott	Bacteria	2006					X
189	St. Louis, Lake	7054	L3	NA	/	525	NE SW26,47N,02E		St. Charles	Mercury	2006					X
190	Ste. Louise, Lake	7055	L3	50	0	87	SW SW27,47N,02E		St. Charles	Bacteria	2002				X	
191	Stevenson Bayou	3135	C	NA	/	14	33,25N,16E	31,27N,17E	Mississippi	Low DO	2006					X
192	Stinson Creek	710	C	0.1	0	9.0	Mouth	16,47N,9W	Callaway	Low DO	1994				X	
193	Stinson Creek	710	C	0.1	0	9.0	Mouth	16,47N,9W	Callaway	Organic Sediment	1994				X	
194	Stockton Branch	1361	C	NA	/	5.0	Mouth	4,34N,26W	Cedar	Low DO	2006					X
195	Straight Fork	959	C	NA	/	6.0	6,43N,17W	36,43N,18W	Morgan	Chloride	2006					X
196	Straight Fork	959	C	NA	/	6.0	6,43N,17W	36,43N,18W	Morgan	Low DO	2006					X
197	Strother Creek	2751U	U	NA	1.0	U			Reynolds	Zinc	2006	X				
198	Sugar Creek	686	P	NA	/	5.0	Mouth	Sugar Cr. Lake Dam	Randolph	Low DO	2006					X
199	Table Rock Lake	7313	L2	43100	43100	43100	NW NW22,22N22W		Stone	Nutrients	2002	X				
200	Taneycomo, Lake	7314	L2	1730	865	1730	SW NE8,23N,20W		Taney	Low DO	1994			X		
201	Trib. To Red Oak Creek	3360	P	NA	/	0.5	Mouth	35,42N,5W	Gasconade	Low DO	2006					X
202	Trib. To Red Oak Creek	3361	C	NA	/	1.5	35,42N,5W	27,42N,5W	Gasconade	Low DO	2006					X
203	Troublesome Creek	73	P	NA	/	3.5	Mouth	15,59N,7W	Marion	Low DO	2006					X
204	Turkey Creek	3216	P	NA	7.0	7.0	State Line	35,28N,33W	Jasper	Cadmium	2006	X				
205	Turkey Creek	3216	P	NA	/	7.0	State Line	35,28N,33W	Jasper	Bacteria	2006					X
206	Turkey Creek	3282	P	NA	0.8	2.4	Mouth	Hwy 47	St. Francois	Cadmium	2006			X		
207	Turkey Creek	3282	P	NA	0.8	2.4	Mouth	Hwy 47	St. Francois	Zinc	2006			X		
208	Turkey Creek	3282	P	NA	2.0	2.4	Mouth	Hwy 47	St. Francois	Lead	2006			X		
209	Village Creek	2863	P	0.5	1.5	1.5	Mouth	5,33N,7E	Madison	Inorganic Sediment	1994	X	NVSS to Inorganic Sediment			
210	Village Creek	2863	P	NA	1.5	1.5	Mouth	5,33N,7E	Madison	Manganese	2006	X				
211	Village Creek	2863	P	NA	1.5	1.5	Mouth	5,33N,7E	Madison	Lead	2006	X				
212	Village Creek	2864	C	0.5	/	3.0	5,33N,7E	34,34N,7E	Madison	Inorganic Sediment	1994				X	

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213	Walt Disney Lake	7137	L3	NA	/	18	05,57N,18W		Linn	Chloride	2006					X
214	Warm Fork Spring River	2579	P	NA	9.0	12.0	State Line	25,23N,6W	Oregon	Bacteria	2006			X		
215	Watkins Creek	1708	C	NA	3.5	3.5	Mouth	Hwy. 270	St. Louis City, St. Louis	Bacteria	2006	X				
216	Watkins Creek	1708	C	NA	/	3.5	Mouth	Hwy. 270	St. Louis City, St. Louis	Chloride	2006					X
217	Weldon River	560	P	NA	/	42.0	Mouth	State Line	Grundy, Mercer	Bacteria	2006					X
218	West Fork Black River	2755	P	0.2	0	31.7	Mouth	25,33N,03W	Reynolds	Nutrients	1998				X	
219	West Fork Drywood Creek	1317	C	NA	/	5.5	Mouth	State Line	Vernon	Low DO	2006					X
220	West Fork Locust Creek	612	P	*	0	17.0	Mouth	Hwy. 67	Linn, Sullivan	Unknown	2002				X	
221	West Fork Locust Creek	613	C	*	0	17.0	Hwy. 6	33,64N,21W	Sullivan	Unknown	2002				X	
222	West Fork Medicine Creek	623	P	NA	40.0	40.0	9,61N,22W	State Line	Grundy, Mercer	Unknown	2006	X				
223	West Fork Medicine Creek	623	P	NA	/	40.0	9,61N,22W	State Line	Grundy, Mercer	Bacteria	2006					X
224	West Fork Niangua River	1175	P	NA	/	7	33,32N,18W	33,31N,18W	Webster	Low DO	2006					X
225	West Yellow Creek	599	C	NA	/	14.0	14,61N,19W	14,63N,19W	Sullivan	Low DO	2006					X
226	Whetstone Creek	1504	P	NA	/	13	Mouth	21,29N,13W	Wright	Low DO	2006					X
227	Willow Branch	0654U	U	*	0	U			Putnam	Unknown	2002				X	
228	Willow Fork	955	C	NA	/	6.5	36,45N,17W	29,45N,17W	Moniteau	Low DO	2006					X
229	Willow Fork, Tributary to	956	C	NA	0.5	0.5	Mouth	27,45N,17W	Moniteau	Low DO	2006	X				
230	Wilson Creek	2375	P	*	0	18.0	Mouth	16,29N,22W	Greene	Unknown toxicity	2002				X	
231	Wilson Creek	2375	P	NA	/	18.0	Mouth	16,29N,22W	Greene	Bacteria	2006					X
232	Wolf Creek	2879	C	NA	/	8	Mouth	29,36N,6E	St. Francois	Low DO	2006					X
233	Wolf Creek, Trib. To	3589	C	NA	/	1.5	Hwy. 32	Hwy. D	St. Francois	Low DO	2006					X
234	Woods, Lake of the	7436	L3	3	0	3	NE,02,48N,12W		Boone	Mercury	2002				X	

* There was no length/area specified on the 2002 list for this water body/pollutant pair.
NA = This water body/pollutant pair was not on the 2002 303(d) list.
/ = This water body/pollutant pair was not identified by MNDR as impaired on 2004/2006 303(d), and as such, there is no length/area to record.