United States Environmental Protection Agency
Region 7
2016 Decision Document

Missouri's Clean Water Act
Section 303(d) List
Water Quality Limited Segments Still Requiring TMDLs

Karen A. Flournoy
Director
Water, Wetlands and Pesticides Division

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Date

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U. S. ENVIRONMENTAL PROTECTION AGENCY - REGION 7's REVIEW of the 2016 MISSOURI CLEAN WATER ACT SECTION 303(D) LIST

The purpose of this review document is to provide the U. S. Environmental Protection Agency's rationale for approving certain changes from Missouri's 2014 Clean Water Act Section 303(d) List. The EPA's review of Missouri's 2016 CWA Section 303(d) List is based on EPA's analysis of whether the state reasonably considered all existing and readily available data and information, and reasonably identified waters required to be listed by the CWA and the EPA regulations (40 Code of Federal Regulations § 130.7). Throughout this review document the CWA Section 303(d) List is referred to as the "CWA Section 303(d) List" or the "Section 303(d) List."

303(d) list	Clean Water Act Section 303(d) List
Br.	Branch
C	Streams that maintain permanent pools
CFR	Code of Federal Regulations
Cr.	Creek
CWA	Clean Water Act
EPA	U. S. Environmental Protection Agency
IR	Integrated Report
L1	Public drinking water supply lake
L2	Major reservoir
L3	Other lakes
MDNR	Missouri Department of Natural Resources
P1	Standing-water reaches of Class P streams
P	Permanently flowing stream
R.	River
TMDL	Total Maximum Daily Load
Trib.	Tributary
UL	Unclassified Lake
US	Unclassified Stream
WBID	Water Body Identification
WQS	Water Quality Standards

2016 Decision Document of Missouri's Clean Water Act Section 303(d) List, Water Quality Limited Segments Still Requiring TMDLs

I. Executive Summary

On May 23, 2016, the U.S. Environmental Protection Agency received from the Missouri Department of Natural Resources its 2016 update to the Missouri Clean Water Act Section 303(d) List for review, herein referred to as the submittal. Following its review of Missouri's complete submittal, the EPA is partially approving and partially disapproving Missouri's 2016 Section 303(d) List as submitted. At this time, the EPA does approve the state's addition of 66 water bodies representing 75 water body/pollutant impairment pairs to its CWA Section 303(d) List. In addition, the EPA approves the removal of 16 water bodies representing 18 water body/pollutant impairment pairs from the state's CWA Section 303(d) List. This document summarizes the EPA's review and the basis for its approvals and its proposed actions identified below.

Section 303(d)(1) of the CWA directs states to identify those waters within their jurisdictions for which effluent limitations required by Section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard (referred to as 'water quality-limited segments' defined in 40 CFR § 130.7), 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. The CWA Section 303(d) listing requirement applies to water quality-limited segments impaired by pollutant loadings from both point and nonpoint sources. After a state submits its CWA Section 303(d) List to the EPA, the Agency is required to approve or disapprove that list.

Missouri's 2016 submittal is an update to the state's most recently approved/established CWA Section 303(d) List, approved/established by the EPA on November 13, 2014 [i.e., the state's 2014 CWA Section 303(d) List]. In its submittal, the MDNR included its assessment methodology to identify waters that do not meet the state's EPA-approved water quality standards and, therefore, are required to be included on CWA Section 303(d) Lists. This 2016 assessment methodology includes revisions to the methodology used to develop the 2014 Missouri Section 303(d) List. The changes served to more clearly define requirements for data applicability. Changes to the state's listing methodology are not changes to the state's EPA-approved water quality standards and, as such, do not have an effect on the underlying protection afforded the water bodies in the state. Water quality data that meet the assessment criteria included within the state's 2016 revised methodology were evaluated by the MDNR. Those waters determined to be water quality-limited, were submitted to the EPA as an update to the 2014 Section 303(d) List. The methodology establishes specific protocols and thresholds for assessing water bodies, in addition to data sufficiency and data quality requirements. The methodology contains procedures for assessing both aquatic life use support and human health use support.

All waters which were included in Missouri's approved/established 2016 CWA Section 303(d) List will remain on the state's CWA Section 303(d) List, unless the MDNR removes a water body from a future list and the EPA approves the removal. The MDNR's submittal for the EPA's review includes an updated list reflecting, among other things:

- Additional water bodies which MDNR determined to be water quality-limited segments pursuant to the state's listing methodology and, therefore, included in the update of the Section 303(d) List which the MDNR submitted to the EPA for review; and

- Water bodies included on Missouri's previously approved/established 2014 CWA Section 303(d) List which were determined not to need TMDLs pursuant to Missouri's EPA-approved water quality standards and, therefore, removed from the update of the CWA Section 303(d) List submitted to the EPA for review (Table 1).

While the guidelines, protocols, and requirements in state statute and the MDNR methodology might be useful tools for the MDNR to use in identifying impaired waters, they are not part of the state's EPA-approved water quality standards. Hence, the EPA did not rely solely on the state statutes or the methodology in reviewing Missouri's list. Instead, the EPA reviewed all available information including any information excluded under the state's methodology to determine if the state's list was developed consistent with the underlying EPA-approved water quality standards. The EPA's review process generally followed a two-step analysis:

1) The EPA Region 7 reviewed the state's listing methodology, including data collection and data assessment requirements, to determine whether, based on Missouri's EPA-approved water quality standards, the methodology was a reasonable method for identifying water quality-limited segments; and

2) Where the EPA was unsure whether the methodology was a reasonable method for identifying water quality-limited segments, the EPA Region 7 requested additional information from the MDNR to conduct further water body and data analysis.

Following the EPA's decision on Missouri's 2016 submission, the current Section 303(d) List (Table 2) in the state of Missouri contains:

- approved additions and removals to the 2014 Section 303(d) List; and
- waters carried over from the EPA-approved 2014 Section 303(d) List.

This action by the EPA and the waters listed in Table 2 represent a partial decision on the 2016 Missouri submittal. Following this decision, the EPA will provide for public comment on the water bodies and pollutants listed in Table 3, which the EPA proposes to add to the 2016 Missouri Section 303(d) List.

The statutory and regulatory requirements relevant to Section 303(d) Lists, and the EPA's review of Missouri's compliance with each requirement, are described in more detail below.

II. Statutory and Regulatory Background

A. Identification of Water Quality-Limited Segments for Inclusion on the Section 303(d) List

Section 303(d)(1) of the CWA directs 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. The Section 303(d) listing requirement applies to waters impaired by point and/or nonpoint sources.

The EPA regulations provide that states need to list waters where the following controls are not adequate to implement applicable standards: (1) technology-based effluent limitations required by the Act, (2)

more stringent effluent limitations required by federal, state, or local authority, and (3) other pollution control requirements required by state, local, or federal authority [see Code of Federal Regulations at 40 § CFR 130.7(b)(1)].

B. Consideration of Existing and Readily Available Water Quality-Related Data and Information

In developing Section 303(d) Lists, states are required by 40 CFR § 130.7(b)(5) to assemble and evaluate all existing and readily available water quality-related data and information, including, at a minimum, consideration of existing and readily available data and information about the following categories of waters:

1. Waters identified as partially meeting or not meeting designated uses, or as threatened, in the state's most recent Section 305(b) report;
2. Waters for which dilution calculations or predictive modeling indicate nonattainment of applicable standards;
3. Waters for which water quality problems have been reported by governmental agencies, members of the public, or academic institutions; and
4. Waters identified as impaired or threatened in any Section 319 nonpoint assessment submitted to the EPA.

States are also required to consider any other data and information that is existing and readily available. The EPA's 2002 *Recommended Framework for EPA Approval Decisions on 2002 State Section 303(d) List Submissions* describes categories of water quality related data and information that may be existing and readily available. While states are required to evaluate all existing and readily available water quality-related data and information, states may decide to rely or not rely on particular data or information in determining whether to list particular waters.

In addition to requiring states to assemble and evaluate all existing and readily available water quality-related data and information, the EPA regulations at 40 CFR § 130.7(b)(6) require states to include, as part of their submittals to the EPA, documentation to support decisions to use or not use particular data and information in decisions to list or not list waters. Such documentation needs to include, at a minimum, the following information: (1) a description of the methodology used to develop the list; (2) a description of the data and information used to identify waters; and (3) any other reasonable information requested by the EPA Region 7.

C. Priority Ranking

The EPA regulations also codify and interpret the requirement in Section 303(d)(1)(A) that states establish a priority ranking for listed waters. The regulations at 40 CFR § 130.7(b)(4) require states to prioritize waters on their Section 303(d) List for Total Maximum Daily Load development and identify those targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters. As long as these factors are taken into account, the CWA provides that states establish priorities. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs, vulnerability of particular waters as aquatic habitats, recreational, economic, and aesthetic importance of particular waters, degree of public interest and support, and state or national policies and priorities [see, 57 Federal Register 33040, 33045 (July 24, 1992) and the EPA's

1991 Guidance cited above]. The EPA reviews but does not take action to approve or disapprove the priority ranking.

III. Missouri's Approach to Identifying Waters for the 2016 Section 303(d) List

A. Missouri's 2016 Integrated Report Format

The EPA strongly encourages states to submit a single, Integrated Report (IR) to satisfy the reporting requirements of CWA Sections 303(d), 305(b) and 314. A summary of states reporting requirements for each of these sections and corresponding regulations is provided below:

CWA Section 303(d) – by April 1 of all even numbered years, a list of impaired and threatened waters still requiring TMDLs; identification of the impairing pollutant(s); and priority ranking of these waters, including waters targeted for TMDL development within the next two years.

CWA Section 305(b) – by April 1 of all even numbered years, a description of the water quality of all waters of the state (including, rivers/stream, lakes, estuaries/oceans and wetlands). States may also include in their CWA Section 305(b) submittal a description of the nature and extent of ground water pollution and recommendations of state plans or programs needed to maintain or improve ground water quality.

CWA Section 314 – in each CWA Section 305(b) submittal, an assessment of status and trends of significant publicly owned lakes including extent of point source and nonpoint source impacts due to toxics, conventional pollutants, and acidification.

Each IR will report on the WQS attainment status of all waters, document the availability of data and information for each water body, identify certain trends in water quality conditions and provide information to managers in setting priorities for future actions to protect and restore the health of our nation's waters. The EPA promotes this comprehensive assessment approach to enhance a state's ability to track programmatic and environmental goals of the CWA. The EPA promotes the use of a five-part categorization format for sorting waters in the IR.[1] In summary, the categories are:

Category 1: All designated uses are supported, no use is threatened,

Category 2: Available data and/or information indicate that some, but not all of the designated uses are supported,

Category 3: There is insufficient available data and/or information to make any use support determination,

Category 4: Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a TMDL is not needed, and

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[1] EPA. 2005. Guidance for 2006 Assessment, Listing, and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the CWA. EPA Office of Wetlands, Oceans, and Watersheds. July 29, 2005.
- and -
EPA. 2006. Memorandum: Information Concerning 2008 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions. EPA Office of Wetlands, Oceans, and Watersheds. October 12, 2006.

Category 5: Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed.

Missouri's 2016 submittal included the CWA Section 303(d) List of impaired waters (Category 5) and the state's assessment data. Today's decision is based on the 2016 Missouri Section 303(d) List received by the EPA on May 23, 2016.

B. 2016 Missouri Methodology

Missouri's *Methodology for the Development of the 2016 Section 303(d) List in Missouri* (July 9, 2014), guided the MDNR's evaluation of "existing and readily available water quality-related data and information" (40 CFR § 130.7(b)(5)) and identification of "water quality-limited segments still requiring TMDLs"(40 CFR § 130.7(a)). As described earlier, Category 5 of the 2016 IR constitutes Missouri's list of impaired waters for purposes of CWA Section 303(d) and is subject to the EPA's review and approval. The EPA is taking action only on Category 5 which consists of water quality-limited segments still requiring TMDLs.

According to the state's "Listing Methodology," data sources used to assess water quality conditions in Missouri for purposes of Section 305(b) reporting and to aid in developing the state's 303(d) list include:

1) Fixed station water quality and sediment data collected and analyzed by MDNR.
2) Fixed station water quality data collected under contract by the U.S. Geological Survey.
3) Fixed station water quality data collected by the U.S. Geological Survey under other agreements
4) Fixed station water quality, sediment quality and aquatic biological data collected by the U.S. Geological Survey under their national programs.
5) Fixed station water quality data collected by water supply companies in Kansas City, St. Louis and Springfield.
6) Fixed station water quality data collected by the U.S. Army Corps of Engineers.
7) Fixed station water quality data collected by agencies from bordering states.
8) Fixed station water quality monitoring by corporations.
9) Annual fish tissue monitoring programs of the EPA and Missouri Department of Conservation.
10) Special water quality surveys conducted by MDNR.
11) Special water quality surveys conducted by the U.S. Geological Survey.
12) Special water quality surveys conducted by other agencies.
13) Fish occurrence and distribution monitoring by the Missouri Department of Conservation.
14) Fish kill and water pollution investigations by the Missouri Department of Conservation.
15) Selected graduate research projects.
16) Water quality, sediment and aquatic biological data collected by the EPA, MNDR or contractors at hazardous waste sites in the state.
17) Self-monitoring of receiving streams by dischargers where such monitoring is required.
18) Compliance monitoring of receiving waters by the MDNR and the EPA.
19) Bacterial monitoring of lakes and streams by county health departments and other organizations using acceptable methodologies.
20) Other monitoring under a MDNR approved quality assurance project plan.
21) Fixed station water quality and aquatic invertebrate monitoring by qualified volunteers.

The state's methodology also specifies the data quality considerations used to determine if data is acceptable for use in 303(d) assessments.

IV. Analysis of Missouri's Submission

A. Identification of Water Quality-Limited Segments for Inclusion on the CWA Section 303(d) List

The EPA has reviewed Missouri's 2016 submission and found that while Missouri's submission included all the components, as required by the CWA and federal regulations, the 2016 Missouri Section 303(d) List did not include all water quality-limited segments still requiring a TMDL. The EPA's action 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. The EPA finds that Missouri's submission only partially satisfies the statutory and regulatory requirements of Section 303(d) and 40 CFR § 130.7. The EPA is partially approving and partially disapproving the 2016 Missouri Section 303(d) List and proposes 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 the EPA's action on Missouri's 2016 list submission.

B. Consideration of Existing and Readily Available Water Quality-Related Data and Information

Missouri used its *Methodology for the Development of the 2016 Section 303(d) List in Missouri, July 9, 2014,* (Listing Methodology) to develop its 2016 submission. The Listing Methodology provides a detailed explanation of the data generated by the MDNR's monitoring program; describes the procedures and methods for collecting data from other federal agencies, state agencies, universities, and monitoring networks; lists the supporting laboratories; and lists other data sources the MDNR uses for compiling the state's CWA Section 305(b) report (including the Section 314 report) and Section 303(d) list. The Listing Methodology also explains how the MDNR considers and evaluates each type of data for listing purposes.

C. Priority Ranking

Appendix C of the *Missouri Integrated Water Quality Report and Section 303(d) List, 2016,* submitted by Missouri contains the state's schedule for completing TMDLs for those waters still needing a TMDL and identified goal years for development through the year 2026. The Listing Methodology submitted with Missouri's IR details the process by which the MDNR ranks waters for TMDL development and states that the TMDL schedule represents the MDNR's priority ranking (see *Methodology for the Development of the 2016 Section 303(d) List in Missouri, July 9, 2014*). As such, the EPA understands that the TMDL development schedule serves as the state's priority ranking as required by federal regulations at 40 CFR § 130.7(b). The EPA is not taking action on these schedules as federal regulations do not require the EPA's approval of priority rankings or schedules.

D. Listing of Waters Impaired by Nonpoint Sources

Based solely on an evaluation of the final 2016 Missouri Section 303(d) List, the EPA concludes that Missouri listed waters with nonpoint sources causing or expected to cause impairment, consistent with Section 303(d) of the CWA and the EPA's guidance. The EPA believes that Section 303(d) provides

ample authority to require states to list waters impaired solely by nonpoint source pollutants. There is no expressed exclusion of the nonpoint source impaired water bodies in the CWA. The EPA's belief that Section 303(d) applies to nonpoint sources is also consistent with the CWA definition of the term "pollutant" and Congress' use of that term in other sections of the CWA, such as Section 319 and Section 320. Therefore, state Section 303(d) Lists are to include all water quality-limited segments still needing TMDLs, regardless of whether the source of the impairment is a point or a nonpoint source or a combination of both.

E. Public Comments

The MDNR provided several opportunities for public participation and comment in finalizing the 2016 Missouri CWA Section 303(d) List. Missouri posted its final draft 2016 Section 303(d) List for a 90-day public comment period commencing on October 01, 2015, and ending on January 31, 2016. The state also held two public meetings, and a public hearing on the proposed list. Missouri evaluated and responded to each public comment and, where deemed appropriate, incorporated suggested changes into its 2016 Section 303(d) List. The Missouri Clean Water Commission approved the MDNR draft Section 303(d) List on April 6, 2016. Missouri included copies of comments and Missouri's response with its list submission. In this decision, the EPA seeks public comments on the actions proposed in Section VII of this document which are summarized in Table 3.

V. Approved Listings

A. Water Quality-Limited Segments for Inclusion on the Section 303(d) List

The EPA has reviewed Missouri's 2016 list submission and concludes that the state partially developed its list of impaired waters (i.e., Category 5 of its IR) in compliance with Section 303(d) of the CWA and 40 CFR § 130.7, and as a result, approves the listing of the water bodies and corresponding pollutants identified in Table 2. The 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. The EPA is partially approving and partially disapproving the state's submitted CWA Section 303(d) List. Water body/pollutant pairs the EPA disapproves for delisting and proposes to restore are described in Section VII of this document and the tables that follow.

B. Segment Length

As discussed in the EPA's 2006 IR guidance:

> "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 water body at frequent intervals. Unfortunately, gathering this vast amount of data is not currently feasible, due to the 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 Missouri, the 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 water quality

standards are eventually attained. The EPA's 2006 IR guidance promotes the use of the IR 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 IR guidance continues, noting "it is important that the selected segmentation approach be consistent with the state's water quality standards," which is critical to tracking progress.

A key component of identifying impairments is determining the designated beneficial uses for each water body in the state's WQS regulations. The 2016 Missouri Section 303(d) List does not contain unique identifiers for each impaired portion that are easily comparable to the classified segment in the state's WQS. The EPA raised this issue beginning with Missouri's 2004/2006 submission and added the entire classified segment to the Section 303(d) listed waters for that list, and every list since. The 2016 Missouri Section 303(d) List submission included the WBID, the size of the impaired portion, latitude and longitude coordinates and the size of the classified segment. While this information provides more details about Missouri's assessment, it does not remedy the need to be consistent with the state's WQS and enable easy tracking between listing cycles. While the EPA approves the addition of waters to the 2016 Section 303(d) List, the EPA is maintaining the position that the entire classified segment must be listed.

To provide as much information as possible to the public, the EPA is including descriptive information submitted by Missouri for each classified water body (Table 2). This enables one to more readily compare the Section 303(d) list to the state's WQS regulations and track changes from one assessment cycle to the next. Should Missouri want to assess sub-segments of waters for listing purposes, Missouri could develop smaller assessment units with defined endpoints and unique identifiers. The EPA is willing to work with Missouri on this issue to find a system that meets the needs of both the EPA and the state.

VI. Approved Delistings (Table 1)

Federal regulations require that the state provide documentation to the EPA to support its decision to list or not to list its waters. Upon request from the 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 IR guidance), the EPA describes what constitutes good cause for removing a water body from the Section 303(d) List. Consistent with 40 CFR § 130.7(b), good cause for not including segments on the Section 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 the 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 the 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 of a TMDL (PIL).
>
> 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.

Table 1 is a summary list of the water body/pollutant pairs the EPA approves for delisting, as described below.

Restored Waters the EPA Approves for Delisting as Meeting WQS (16 water bodies, Table 1)

Big Creek (WBID 0444) - New water quality data indicates this water body is meeting WQS for ammonia and dissolved oxygen. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the two water quality criteria. In today's action, the EPA is approving the delisting of Big Creek for ammonia and dissolved oxygen because this water body no longer requires the development of a TMDL for ammonia or dissolved oxygen, consistent with 40 CFR § 130.7(b).

Big Creek (WBID 1250) – New water quality data indicates this water body is meeting WQS for *Escherichia coli*. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the *E. coli* criterion. In today's action, the EPA is approving the delisting of Big Creek for *E. coli* because this water body no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR § 130.7(b).

Black Creek (WBID 0111) – New water quality data indicates this water body is meeting WQS for dissolved oxygen. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the dissolved oxygen criterion. In today's action, the EPA is approving the delisting of Black Creek for dissolved oxygen because this water body no longer requires the development of a TMDL for dissolved oxygen, consistent with 40 CFR § 130.7(b).

Blue River (WBID 0421) – New water quality data indicates this water body is meeting WQS for *Escherichia coli*. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the *E. coli* criterion. In today's action, the EPA is approving the delisting of the

Blue River for *E. coli* because this water body no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR § 130.7(b).

Brush Creek (WBID 3986) – Water quality data indicates this water body is meeting WQS for benzo(a)pyrene. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the benzo(a)pyrene narrative translator. In today's action, the EPA is approving the delisting of Brush Creek for benzo(a)pyrene because this water body no longer requires the development of a TMDL for benzo(a)pyrene, consistent with 40 CFR § 130.7(b).

Center Creek (WBID 3203) – New water quality data indicates this water body is meeting WQS for *Escherichia coli*. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the *E. coli* criterion. In today's action, the EPA is approving the delisting of Center Creek for *E. coli* because this water body no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR § 130.7(b).

Dardenne Creek (WBID 0221) – New biological data indicates this water body is meeting WQS for the state's aquatic macroinvertebrate bioassessment translator. In addition, the sedimentation/siltation translator is also considered to be met as the biological condition data is newer and indicates aquatic life in this water body has recovered. In today's action, the EPA is approving the delisting of Dardenne Creek for aquatic macroinvertebrate bioassessment and sedimentation/siltation because this water body no longer requires the development of a TMDL for these causes, consistent with 40 CFR § 130.7(b).

Drywood Creek (WBID 1314) – New water quality data indicates this water body is meeting WQS for sulfate plus chloride. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the sulfate plus chloride criterion. In today's action, the EPA is approving the delisting of Drywood Creek for sulfate plus chloride because this water body no longer requires the development of a TMDL for sulfate plus chloride, consistent with 40 CFR § 130.7(b).

Little Niangua River (WBID 1189) – New water quality data indicates this water body is meeting WQS for dissolved oxygen. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the dissolved oxygen criterion. In today's action, the EPA is approving the delisting of the Little Niangua River for dissolved oxygen because this water body no longer requires the development of a TMDL for dissolved oxygen, consistent with 40 CFR § 130.7(b).

Little Whitewater Creek (WBID 2229) – New biological data indicates this water body is meeting WQS for the state's aquatic macroinvertebrates bioassessment translator. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed the aquatic macroinvertebrate community has recovered. In today's action, the EPA is approving the delisting of Little Whitewater Creek for aquatic macroinvertebrate bioassessment because this water body no longer requires the development of a TMDL for aquatic macroinvertebrate bioassessment, consistent with 40 CFR § 130.7(b).

Pickle Creek (WBID 1755) – New water quality data indicates this water body is meeting WQS for pH. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the pH criterion. In today's action, the EPA is approving the delisting of Pickle Creek for pH because this water body no longer requires the development of a TMDL for pH, consistent with 40 CFR § 130.7(b).

South Fabius River (WBID 0071) – New water quality data indicates this water body is meeting WQS for *Escherichia coli*. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the *E. coli* criterion. In today's action, the EPA is approving the delisting of the South Fabius River for *E. coli* because this water body no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR § 130.7(b).

Shoal Creek (WBID 3222) – New water quality data indicates this water body is meeting WQS for *Escherichia coli*. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the *E. coli* criterion. In today's action, the EPA is approving the delisting of Shoal Creek for *E. coli* because this water body no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR § 130.7(b).

Terre du Lac Lakes- Lac Capri (WBID 7297) – New water quality data indicates this water body is meeting WQS for chlorophyll-a. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursion of the chlorophyll-a criterion. In today's action, the EPA is approving the delisting of the Terre du Lac Lakes-Lac Capri for chlorophyll-a because this water body no longer requires the development of a TMDL for chlorophyll-a, consistent with 40 CFR § 130.7(b).

Turkey Creek (WBID 3216) – New water quality data indicates this water body is meeting WQS for *Escherichia coli*. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the *E. coli* criterion. In today's action, the EPA is approving the delisting of Turkey Creek for *E. coli* because this water body no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR § 130.7(b).

Wilsons Creek (WBID 2375) – Water quality data indicates this water body is meeting WQS for benzo(a)pyrene. In its assessment for the 2016 Missouri Section 303(d) List, Missouri showed there were no excursions of the benzo(a)pyrene narrative translator. In today's action, the EPA is approving the delisting of Wilsons Creek for benzo(a)pyrene because this water body no longer requires the development of a TMDL for benzo(a)pyrene, consistent with 40 CFR § 130.7(b).

VII. EPA Proposed Changes to the 2016 Missouri Section 303(d) List

After review of Missouri's submittal for its 2016 Section 303(d) List, the EPA proposes to make certain additions and corrections to that submittal. These proposed actions are outlined below and consist of water body/pollutant pairs that the EPA proposes to restore or add to Missouri's list of impaired waters.

Water Bodies and Pollutants EPA Proposes Restoring or Adding to Missouri's 2016 CWA Section 303(d) List (four water bodies, Table 3)

Big River (WBID 2080) – The state omitted this water body cause of zinc in sediments from both the listed and delisted waters. This water body/pollutant pair was added to the 2014 Missouri Section 303(d) List by the EPA in its final action on that submittal. The EPA had identified that data from a portion of this water body segment consistently exceeded the states narrative benchmark for zinc in sediment. As no additional data has been presented by the state to provide good cause for delisting, the EPA proposes to relist zinc in sediment to the 2016 Missouri Section 303(d) List.

Peruque Creek (WBID 0216) – The state's public noticed assessment of this water body for unknown toxicity identified a lack of fish kills as the mechanism by which it has proposed this delisting. The EPA

has always maintained that data age itself is not good cause for delisting a water body and requested data that indicated that the fish community had recovered. Rather than submission of data indicating there are any fish in this water body, the state changed its cause for delisting to a hydrological impairment causing the fish kills. The state did not submit any quantifiable information that would point to a non-pollutant cause of the previous fish kills. In addition, a March 11, 2011 newspaper article identified a legal action by the state against a permit holder in this segment for discharges leading to toxic conditions in this segment. As such, the EPA disapproves Missouri's decision to remove the unknown toxicity cause from the Section 303(d) List and is proposing to relist unknown toxicity to the 2016 Missouri Section 303(d) List.

Turkey Creek (WBID 3217) – The state has proposed to delist this water body for lead in sediment based on a geometric averaging of the lead concentration data from all sites in the water body. When the data was examined, it was found that one portion of the water body, amounting to approximately 1.5 miles, was consistently impaired using the state's narrative translator for toxic sediment. The averaging of non-impaired sections of the water body with this portion masked the impairment. In the state's listing methodology (page 15) the state acknowledges that it may be appropriate to assess impacted areas separately from unimpacted areas. As such, the EPA disapproves Missouri's decision to remove this water body/pollutant pair from the Section 303(d) list and is proposing to relist lead in sediment to the 2016 Missouri Section 303(d) List.

Willow Branch (WBID 3280) – The state has proposed to delist this water body for cadmium and lead in sediment based on a geometric averaging of the cadmium and lead concentration data from all sites in the water body. When the data was examined, it was found that one site in the water body was consistently impaired using the state's narrative translators for toxic sediment. The averaging of non-impaired sections of the water body with this portion masked the impairment. In the state's listing methodology (page 15) the state acknowledges that it may be appropriate to assess impacted areas separately from unimpacted areas. In addition, the most recent data indicates an increase in the concentrations of these two pollutants in the sediments of this water body and the state has retained the impairment for zinc in sediment. As such, the EPA disapproves Missouri's decision to remove these water body/pollutant pairs from the Section 303(d) list and is proposing to relist cadmium and lead in sediment to the 2016 Missouri Section 303(d) List.

Table 1

Missouri-Submitted Water Body/Pollutant Pairs the EPA Approves for Delisting

No.	Water Body Name	WBID	Class	Classified Segment (mi/acres)	County	Pollutant	Comment
1	Big Cr.	0444	P	22	Harrison	Ammonia	New data indicates recovery
2	Big Cr.	0444	P	22	Harrison	Dissolved Oxygen	New data indicates recovery
3	Big Cr.	1250	P	70.5	Jackson/Henry	Escherichia coli	New data indicates recovery
4	Black Cr.	0111	C	19.4	Shelby	Dissolved Oxygen	New data indicates recovery
5	Blue R.	0421	C	11	Jackson	Escherichia coli	New data indicates recovery
6	Brush Cr.	3986	C	5.4	Jackson	Benzo[a]pyrene (S)	New assessment methodology
7	Center Cr.	3203	P	26.8	Jasper	Escherichia coli	New data indicates recovery
8	Dardenne Cr.	0221	P	15	St. Charles	Aquatic macroinvertebrate bioassessment	New biological data indicates recovery
9	Dardenne Cr.	0221	P	15	St. Charles	Sedimentation / Siltation	Biological data newer than sediment data indicates recovery
10	Drywood Cr.	1314	P	29.9	Vernon/Barton	Sulfate plus chloride	New data indicates recovery
11	Little Niangua R.	1189	P	43	Dallas/Camden	Dissolved oxygen	New data indicates recovery
12	Little Whitewater Cr.	2229	P	24.2	Cape Girardeau/Bollinger	Aquatic macroinvertebrate bioassessment	New biological data indicates recovery
13	Pickle Cr.	1755	P	7	Ste. Genevieve	pH	New data indicates recovery
14	South Fabius R.	0071	P	80.6	Knox/Marion	Escherichia coli	New data indicates recovery
15	Shoal Cr.	3222	P	41.1	Newton	Escherichia coli	New data indicates recovery
16	Terre du Lac Lakes (Lac Capri)	7297	L3	103	St. Francois	Chlorophyll-a	New data indicates recovery

No.	Water Body Name	WBID	Class	Classified Segment (mi/acres)	County	Pollutant	Comment
17	Turkey Cr.	3216	P	7.7	Jasper	Escherichia coli	New data indicates recovery
18	Wilsons Cr.	2375	P	14.0	Greene	Benzo[a]pyrene (s)	New assessment methodology

Table 2

Missouri-Submitted Water Quality-Limited Segments the EPA Approves for Inclusion on Missouri's 2016 Section 303(d) List

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
1	Antire Cr.	2188	P	1.9	St. Louis	Escherichia coli (W)
2	Antire Cr.	2188	P	1.9	St. Louis	pH (W)
3	August A Busch Lake No. 37	7627	L3	30	St. Charles	Mercury in Fish Tissue (T)
4	Barker Creek Tributary	4083	C	1.2	Henry	Dissolved Oxygen
5	Bass Cr.	0752	C	4.4	Boone	Escherichia coli (W)
6	Baynham Br.	3240	P	4	Newton	Escherichia coli (W)
7	Bee Fk.	2760	C	8.7	Reynolds	Lead (W)
8	Bee Tree Lake	7309	L3	10	St. Louis	Mercury in Fish Tissue (T)
9	Beef Br.	3224	P	2.5	Newton	Cadmium (S)
10	Beef Br.	3224	P	2.5	Newton	Cadmium (W)
11	Beef Br.	3224	P	2.5	Newton	Lead (S)
12	Beef Br.	3224	P	2.5	Newton	Zinc (S)
13	Beef Br.	3224	P	2.5	Newton	Zinc (W)
14	Belcher Branch Lake	7365	L3	42	Buchanan	Mercury in Fish Tissue (T)
15	Bens Br.	3980	C	5.8	Jasper	Cadmium (S)
16	Bens Br.	3980	C	5.8	Jasper	Lead (S)
17	Bens Br.	3980	C	5.8	Jasper	Zinc (S)
18	Bens Br.	3980	C	5.8	Jasper	Zinc (W)
19	Big Cr.	2916	P	34.1	Iron	Cadmium (S)
20	Big Cr.	2916	P	34.1	Iron	Lead (S)
21	Big Piney R.	1578	P	7.8	Texas	Oxygen, Dissolved (W)
22	Big R.	2080	P	81.3	St. Francois	Cadmium (S)
23	Big R.	2080	P	81.3	St. Francois	Lead (S)
24	Big R.	2080	P	81.3	St. Francois	Lead (T)
25	Black Cr.	0111	C	19.4	Shelby	Escherichia coli (W)
26	Black Cr.	3825	P	1.6	St. Louis	Chloride (W)
27	Black Cr.	3825	P	1.6	St. Louis	Escherichia coli (W)
28	Black R.	2769	P	47.1	Butler	Mercury in Fish Tissue (T)
29	Black R.	2784	P	39.0	Wayne/Butler	Mercury in Fish Tissue (T)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
30	Blackberry Cr.	3184	C	6.5	Jasper	Chloride (W)
31	Blackberry Cr.	3184	C	6.5	Jasper	Sulfate plus chloride (W)
32	Blackberry Cr.	3184	C	6.5	Jasper	Oxygen, Dissolved (W)
33	Blue R.	0417	P	4.4	Jackson	Escherichia coli (W)
34	Blue R.	0418	P	9.4	Jackson	Escherichia coli (W)
35	Blue R.	0419	P	7.7	Jackson	Escherichia coli (W)
36	Bonhomme Cr.	1701	C	2.5	St. Louis	Escherichia coli (W)
37	Bonhomme Cr.	1701	C	2.5	St. Louis	pH (W)
38	Bonne Femme Cr.	0750	P	7.8	Boone	Escherichia coli (W)
39	Bonne Femme Cr.	0753	C	7.0	Boone	Escherichia coli (W)
40	Bourbeuse R.	2034	P	136.7	Phelps/Franklin	Mercury in Fish Tissue (T)
41	Bowling Green (Old) Lake	7003	L1	7.0	Pike	Chlorophyll-a(W)
42	Bowling Green (Old) Lake	7003	L1	7.0	Pike	Nitrogen, Total (W)
43	Bowling Green (Old) Lake	7003	L1	7.0	Pike	Phosphorus, Total (W)
44	Brazeau Cr.	1796	C	10.8	Perry	Escherichia coli (W)
45	Brush Cr.	1371	P	4.7	Polk/St. Clair	Oxygen, Dissolved (W)
46	Brush Cr.	3896	C	5.4	Jackson	Chrysene (S)
47	Brush Cr.	3896	C	5.4	Jackson	Escherichia coli (W)
48	Brush Cr.	3896	C	5.4	Jackson	Fluoranthene (S)
49	Brush Cr.	3896	C	5.4	Jackson	Oxygen, Dissolved (W)
50	Brush Cr.	3896	C	5.4	Jackson	Phenanthrene (S)
51	Brush Cr.	3896	C	5.4	Jackson	Pyrene (S)
52	Buffalo Bill Lake	7117	L3	45.0	DeKalb	Mercury in Fish Tissue (T)
53	Buffalo Cr.	3273	P	8.0	Newton/McDonald	Fishes Bioassessments (W)
54	Burgher Br.	1865	C	1.5	Phelps	Oxygen, Dissolved (W)
55	Busch Lake #35	7057	L3	51.0	St. Charles	Mercury in Fish Tissue (T)
56	Capps Cr.	3234	P	5.0	Barry	Escherichia coli (W)
57	Carver Br.	3241	P	3.0	Newton	Escherichia coli (W)
58	Castor R.	2288	P	7.5	Bollinger	Escherichia coli (W)
59	Cedar Cr.	0737	C	37.4	Boone	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
60	Cedar Cr.	1344	P	31.0	Cedar	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
61	Cedar Cr.	1344	P	31.0	Cedar	Escherichia coli (W)
62	Cedar Cr.	1344	P	31.0	Cedar	Oxygen, Dissolved (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
63	Cedar Cr.	1357	C	16.2	Cedar	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
64	Cedar Cr.	1357	C	16.2	Cedar	Oxygen, Dissolved (W)
65	Center Cr.	3203	P	26.8	Jasper	Cadmium (S)
66	Center Cr.	3203	P	26.8	Jasper	Cadmium (W)
67	Center Cr.	3203	P	26.8	Jasper	Lead (S)
68	Center Cr.	3210	P	21.0	Newton/Jasper	Escherichia coli (W)
69	Center Cr.	3214	P	4.9	Lawrence/Newton	Escherichia coli (W)
70	Center Creek Trib.	5003	C	2.7	Jasper	Cadmium (W)
71	Center Creek Trib.	5003	C	2.7	Jasper	Zinc (W)
72	Chat Creek Trib.	3963	US	0.9	Lawrence	Cadmium (W)
73	Chat Creek Trib.	3963	US	0.9	Lawrence	Zinc (W)
74	Chaumiere Lake	7634	UL	3.4	Clay	Mercury in Fish Tissue (T)
75	Cinque Hommes Cr.	1781	C	17.1	Perry	Escherichia coli (W)
76	Clear Cr.	1333	P	28.2	Vernon/St.Clair	Oxygen, Dissolved (W)
77	Clear Cr.	1336	C	22.3	Vernon	Oxygen, Dissolved (W)
78	Clear Cr.	3238	P	11.1	Barry/Newton	Escherichia coli (W)
79	Clear Cr.	3239	C	3.5	Barry/Newton	Nutrient/Eutrophication Biol. Indicators (W)
80	Clear Cr.	3239	C	3.5	Barry/Newton	Oxygen, Dissolved (W)
81	Clear Fk.	0935	P	25.8	Johnson	Oxygen, Dissolved (W)
82	Clearwater Lake	7326	L2	1635	Reynolds/Wayne	Chlorophyll-a (W)
83	Clearwater Lake	7326	L2	1635	Reynolds/Wayne	Mercury in Fish Tissue (T)
84	Clearwater Lake	7326	L2	1635	Reynolds/Wayne	Phosphorus, Total (W)
85	Coldwater Cr.	1706	C	6.9	St. Louis	Chloride (W)
86	Coldwater Cr.	1706	C	6.9	St. Louis	Escherichia coli (W)
87	Coonville Cr.	2177	C	1.3	St. Francois	Lead (W)
88	Coot Lake	7378	L3	20.0	Jackson	Mercury in Fish Tissue (T)
89	Cottontail Lake	7379	L3	22.0	Jackson	Mercury in Fish Tissue (T)
90	Courtois Cr.	1943	P	32.0	Washington	Lead (S)
91	Courtois Cr.	1943	P	32.0	Washington	Zinc (S)
92	Crane Cr.	2382	P	13.2	Stone	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
93	Crane Lake	7334	L3	109.0	Iron	Chlorophyll-a (W)
94	Crane Lake	7334	L3	109.0	Iron	Phosphorus, Total (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
95	Craven Ditch	2816	C	11.6	Butler	Oxygen, Dissolved (W)
96	Creve Coeur Cr.	1703	C	3.8	St. Louis	Chloride (W)
97	Creve Coeur Cr.	1703	C	3.8	St. Louis	Escherichia coli (W)
98	Creve Coeur Cr.	1703	C	3.8	St. Louis	Oxygen, Dissolved (W)
99	Crooked Cr.	1928	P	3.5	Dent/Crawford	Cadmium (S)
100	Crooked Cr.	1928	P	3.5	Dent/Crawford	Cadmium (W)
101	Crooked Cr.	1928	P	3.5	Dent/Crawford	Lead (S)
102	Crooked Cr.	3961	C	6.5	Iron/Dent	Cadmium (W)
103	Crooked Cr.	3961	C	6.5	Iron/Dent	Copper (W)
104	Crowder St. Park Lake	7135	L3	18.0	Grundy	Mercury in Fish Tissue (T)
105	Current R.	2636	P	124.0	Shannon/Ripley	Mercury in Fish Tissue (T)
106	Dardenne Cr.	0219	P1	7.0	St. Charles	Oxygen, Dissolved (W)
107	Deer Cr.	3826	P	1.6	St. Louis/St. Louis City	Chloride (W)
108	Deer Cr.	3826	P	1.6	St. Louis/St. Louis City	Escherichia coli (W)
109	Deer Ridge Community Lake	7015	L3	39.0	Lewis	Mercury in Fish Tissue (T)
110	Ditch # 36	3109	P	7.8	Dunklin	Oxygen, Dissolved (W)
111	Douger Br.	3810	C	2.8	Lawrence	Lead (S)
112	Douger Br.	3810	C	2.8	Lawrence	Zinc (S)
113	Dousinbury Cr.	1180	P	3.9	Dallas	Escherichia coli (W)
114	Dry Fk.	1792	C	3.2	Perry	Escherichia coli (W)
115	Dry Fk.	3189	C	10.2	Jasper	Escherichia coli (W)
116	Dry Hollow	3163	C	0.5	Lawrence	Escherichia coli (W)
117	Dutro Carter Cr.	3569	P	1.5	Phelps	Oxygen, Dissolved (W)
118	Dutro Carter Cr.	3570	P	0.5	Phelps	Escherichia coli (W)
119	Duval Cr.	3199	C	7	Jasper	Escherichia coli (W)
120	East Fk. Crooked R.	0372	P	19.9	Ray	Oxygen, Dissolved (W)
121	East Fk. Grand R.	0457	P	28.7	Worth/Gentry	Escherichia coli (W)
122	East Fk. Locust Cr.	0608	P	16.7	Sullivan	Escherichia coli (W)
123	East Fk. Locust Cr.	0610	C	15.7	Sullivan	Escherichia coli (W)
124	East Fk. Locust Cr.	0610	C	15.7	Sullivan	Oxygen, Dissolved (W)
125	East Fk. Tebo Cr.	1282	C	14.5	Henry	Oxygen, Dissolved (W)
126	East Whetstone Cr.	3964	C	3.1	Wright	Ammonia, Total (W)
127	Eaton Br.	2166	C	1.2	St. Francois	Cadmium (S)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
128	Eaton Br.	2166	C	1.2	St. Francois	Cadmium (W)
129	Eaton Br.	2166	C	1.2	St. Francois	Lead (S)
130	Eaton Br.	2166	C	1.2	St. Francois	Zinc (S)
131	Eaton Br.	2166	C	1.2	St. Francois	Zinc (W)
132	Eleven Point R.	2593	P	22.7	Oregon	Mercury in Fish Tissue (T)
133	Eleven Point R.	2597	P	11.4	Oregon	Mercury in Fish Tissue (T)
134	Eleven Point R.	2601	P	22.3	Oregon	Mercury in Fish Tissue (T)
135	Elkhorn Cr.	0189	C	21.4	Montgomery	Oxygen, Dissolved (W)
136	Elm Br.	1283	C	3.0	Henry	Oxygen, Dissolved (W)
137	Fee Fee Cr. (new)	1704	P	1.5	St. Louis	Chloride (W)
138	Fee Fee Cr. (new)	1704	P	1.5	St. Louis	Escherichia coli (W)
139	Fellows Lake	7237	L1	800.0	Greene	Mercury in Fish Tissue (T)
140	Fenton Cr.	3595	P	0.5	St. Louis	Chloride (W)
141	Fenton Cr.	3595	P	0.5	St. Louis	Escherichia coli (W)
142	Fishpot Cr.	2186	P	3.5	St. Louis	Chloride (W)
143	Fishpot Cr.	2186	P	3.5	St. Louis	Escherichia coli (W)
144	Fivemile Cr	3220	P	5.0	Newton	Escherichia coli (W)
145	Flat Cr.	0864	P	23.7	Pettis/Morgan	Mercury in Fish Tissue (T)
146	Flat River Cr.	2168	C	10.0	St. Francois	Cadmium (W)
147	Forest Lake	7151	L1	580.0	Adair	Chlorophyll-a (W)
148	Forest Lake	7151	L1	580.0	Adair	Mercury in Fish Tissue (T)
149	Forest Lake	7151	L1	580.0	Adair	Nitrogen, Total (W)
150	Forest Lake	7151	L1	580.0	Adair	Phosphorus, Total (W)
151	Foster Branch Trib.	3943	C	0.2	Boone	Oxygen, Dissolved (W)
152	Fowler Cr.	0747	C	6.0	Boone	Oxygen, Dissolved (W)
153	Fox Cr.	1842	P	7.2	St. Louis	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
154	Fox R.	0038	P	42.0	Clark	Escherichia coli (W)
155	Fox Valley Lake	7008	L3	89.0	Clark	Chlorophyll-a (W)
156	Fox Valley Lake	7008	L3	89.0	Clark	Nitrogen, Total (W)
157	Fox Valley Lake	7008	L3	89.0	Clark	Phosphorus, Total (W)
158	Foxboro Lake	7382	L3	22.0	Franklin	Mercury in Fish Tissue (T)
159	Frisco Lake	7280	L3	5.0	Phelps	Mercury in Fish Tissue (T)
160	Gailey Br.	4061	C	3.2	Pike	Oxygen, Dissolved (W)
161	Gans Cr.	1004	C	5.5	Boone	Escherichia coli (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
162	Gasconade R.	1455	P	264.0	Pulaski	Mercury in Fish Tissue (T)
163	Grand Glaize Cr.	2184	C	4.0	St. Louis	Chloride (W)
164	Grand Glaize Cr.	2184	C	4.0	St. Louis	Escherichia coli (W)
165	Grand Glaize Cr.	2184	C	4.0	St. Louis	Mercury in Fish Tissue (T)
166	Grand R.	0593	P	56.0	Livingston/Chariton	Escherichia coli (W)
167	Gravois Cr.	1712	P	2.3	St. Louis/St. Louis City	Chloride (W)
168	Gravois Cr.	1712	P	2.3	St. Louis/St. Louis City	Escherichia coli (W)
169	Gravois Cr.	1713	C	6.0	St. Louis/St. Louis City	Chloride (W)
170	Gravois Cr.	1713	C	6.0	St. Louis/St. Louis City	Escherichia coli (W)
171	Gravois Creek Trib.	4051	C	1.9	St. Louis	Escherichia coli (W)
172	Grindstone Cr.	1009	C	2.5	Boone	Escherichia coli (W)
173	Harrison County Lake	7386	L1	280.0	Harrison	Mercury in Fish Tissue (T)
174	Hazel Creek Lake	7152	L1	453.0	Adair	Chlorophyll-a (W)
175	Hazel Creek Lake	7152	L1	453.0	Adair	Mercury in Fish Tissue (T)
176	Headwater Diversion Channel	2196	P	20.3	Cape Girardeau	Mercury in Fish Tissue (T)
177	Heath's Cr.	0848	P	21.0	Pettis/Cooper	Oxygen, Dissolved (W)
178	Hickory Br.	0596	C	6.8	Chariton	Oxygen, Dissolved (W)
179	Hickory Cr.	3226	P	4.9	Newton	Escherichia coli (W)
180	Hinkson Cr.	1007	P	7.6	Boone	Escherichia coli (W)
181	Hinkson Cr.	1008	C	18.8	Boone	Escherichia coli (W)
182	Holden City Lake	7193	L1	290.2	Johnson	Mercury in Fish Tissue (T)
183	Hominy Br.	1011	C	1.0	Boone	Escherichia coli (W)
184	Honey Cr.	3169	P	16.5	Lawrence	Escherichia coli (W)
185	Honey Cr.	3170	C	2.7	Lawrence	Escherichia coli (W)
186	Horse Cr.	1348	P	27.7	Vernon/Cedar	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
187	Horse Cr.	1348	P	27.7	Vernon/Cedar	Oxygen, Dissolved (W)
188	Horseshoe Cr.	3413	C	5.8	Lafayette/Jackson	Oxygen, Dissolved (W)
189	Hough Park Lake	7388	L3	10.0	Cole	Mercury in Fish Tissue (T)
190	Hunnewell Lake	7029	L3	228.0	Shelby	Mercury in Fish Tissue (T)
191	Indian Cr.	0420	C	3.4	Jackson	Chloride (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
192	Indian Cr.	0420	C	3.4	Jackson	Escherichia coli (W)
193	Indian Cr.	1946	P	1.9	Washington	Lead (S)
194	Indian Cr.	1946	P	1.9	Washington	Zinc (S)
195	Indian Cr.	3256	P	30.8	Newton/McDonald	Escherichia coli (W)
196	Indian Creek Community Lake	7389	L3	185.0	Livingston	Mercury in Fish Tissue (T)
197	Jacobs Br.	3223	P	1.6	Newton	Cadmium (S)
198	Jacobs Br.	3223	P	1.6	Newton	Cadmium (W)
199	Jacobs Br.	3223	P	1.6	Newton	Lead (S)
200	Jacobs Br.	3223	P	1.6	Newton	Zinc (S)
201	Jacobs Br.	3223	P	1.6	Newton	Zinc (W)
202	Jenkins Cr.	3207	P	2.8	Jasper	Escherichia coli (W)
203	Jenkins Cr.	3208	C	4.8	Newton/Jasper	Escherichia coli (W)
204	Jones Cr.	3205	P	7.5	Newton/Jasper	Escherichia coli (W)
205	Joplin Cr.	5006	C	3.9	Jasper	Cadmium (W)
206	Jordan Cr.	3374	P	3.8	Greene	Benzo[a]anthracene (S)
207	Jordan Cr.	3374	P	3.8	Greene	Benzo[a]pyrene (S)
208	Jordan Cr.	3374	P	3.8	Greene	Chrysene (S)
209	Jordan Cr.	3374	P	3.8	Greene	Fluoranthene (S)
210	Jordan Cr.	3374	P	3.8	Greene	Phenanthrene (S)
211	Jordan Cr.	3374	P	3.8	Greene	Pyrene (S)
212	Kiefer Cr.	3592	P	1.2	St. Louis	Chloride (W)
213	Kiefer Cr.	3592	P	1.2	St. Louis	Escherichia coli (W)
214	Knox Village Lake	7657	L3	3.0	Jackson	Mercury in Fish Tissue (T)
215	Koen Cr.	2171	C	1.0	St. Francois	Lead (S)
216	L. St. Francis R.	2854	P	32.4	Madison	Lead (S)
217	Labelle Lake #2	7023	L1	98.0	Lewis	Mercury in Fish Tissue (T)
218	Lake Boutin	7659	L3	20.0	Cape Girardeau	Mercury in Fish Tissue (T)
219	Lake Buteo	7469	L3	7.0	Johnson	Mercury in Fish Tissue (T)
220	Lake of the Woods	7436	L3	3.0	Boone	Mercury in Fish Tissue (T)
221	Lake of the Woods	7629	U	7.0	Jackson	Mercury in Fish Tissue (T)
222	Lake Paho	7132	L3	273.0	Mercer	Mercury in Fish Tissue (T)
223	Lake St. Louis	7054	L3	444.0	St. Charles	Mercury in Fish Tissue (T)
224	Lake Ste. Louise	7055	L3	71.0	St. Charles	Mercury in Fish Tissue (T)
225	Lake Tom Sawyer	7035	L3	4.0	Monroe	Mercury in Fish Tissue (T)
226	Lake Winnebago	7212	L3	272.0	Cass	Mercury in Fish Tissue (T)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
227	Lamine R.	0847	P	64.0	Morgan/Cooper	Escherichia coli (W)
228	Lat. #2 Main Ditch	3105	P	11.5	Stoddard	Oxygen, Dissolved (W)
229	Lat. #2 Main Ditch	3105	P	11.5	Stoddard	Temperature, water (W)
230	Lee Rowe Ditch	3137	C	6.0	Mississippi	Oxygen, Dissolved (W)
231	Lewistown Lake	7020	L1	35.0	Lewis	Atrazine (W)
232	Line Cr.	3575	C	7.0	Platte	Escherichia coli (W)
233	Little Beaver Cr.	1529	C	3.5	Phelps	Escherichia coli (W)
234	Little Beaver Cr.	1529	C	3.5	Phelps	Sedimentation/Siltation (S)
235	Little Blue R.	0422	P	35.1	Jackson	Escherichia coli (W)
236	Little Bonne Femme Cr.	1003	P	9.0	Boone	Escherichia coli (W)
237	Little Dry Fk.	1863	P	5.2	Phelps	Oxygen, Dissolved (W)
238	Little Dry Fk.	1864	C	4.7	Phelps	Oxygen, Dissolved (W)
239	Little Drywood Cr.	1325	P	20.5	Vernon	Oxygen, Dissolved (W)
240	Little Drywood Cr.	1326	C	15.6	Barton/Vernon	Oxygen, Dissolved (W)
241	Little Lost Cr.	3279	P	5.8	Newton	Escherichia coli (W)
242	Little Medicine Cr.	0623	P	39.8	Mercer/Grundy	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
243	Little Medicine Cr.	0623	P	39.8	Mercer/Grundy	Escherichia coli (W)
244	Little Osage R.	3652	C	23.6	Vernon	Escherichia coli (W)
245	Locust Cr.	0606	P	91.7	Putnam/Sullivan	Escherichia coli (W)
246	Logan Cr.	2763	P	36.0	Reynolds	Lead (S)
247	Long Branch Cr.	0696	C	14.8	Macon	Oxygen, Dissolved (W)
248	Longview Lake	7097	L2	953.0	Jackson	Mercury in Fish Tissue (T)
249	Lost Cr.	3278	P	8.5	Newton	Escherichia coli (W)
250	M. Fk. Salt R.	0123	C	25.4	Macon	Oxygen, Dissolved (W)
251	Main Ditch	2814	C	13.0	Butler	pH (W)
252	Main Ditch	2814	C	13.0	Butler	Temperature, water (W)
253	Maline Cr.	1709	C	0.6	St. Louis/St. Louis City	Escherichia coli (W)
254	Maline Cr.	3839	C	0.5	St. Louis City	Chloride (W)
255	Maline Cr.	3839	C	0.5	St. Louis City	Escherichia coli (W)
256	Maple Leaf Lake	7398	L3	127.0	Lafayette	Mercury in Fish Tissue (T)
257	Maple Slough	3140	C	18.2	Miss/New Madrid	Oxygen, Dissolved (W)
258	Mark Twain Lake	7033	L2	18132.0	Ralls	Mercury in Fish Tissue (T)
259	Mattese Cr.	3596	P	1.1	St. Louis	Escherichia coli (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
260	Mattese Cr.	3596	P	1.1	St. Louis	Chloride (W)
261	McClanahan Cr.	1786	C	2.5	Perry	Escherichia coli (W)
262	McCoy Cr.	0214	C	4.5	St. Charles	Oxygen, Dissolved (W)
263	Medicine Cr.	0619	P	43.8	Putnam/Grundy	Escherichia coli (W)
264	Meramec R.	2183	P	22.8	St. Louis	Escherichia coli (W)
265	Meramec R.	2183	P	22.8	St. Louis	Lead (S)
266	Meramec R.	2185	P	15.7	St. Louis	Lead (S)
267	Miami Cr.	1299	P	19.6	Bates	Oxygen, Dissolved (W)
268	Middle Fork Grand R.	0468	P	27.5	Worth/Gentry	Escherichia coli (W)
269	Middle Indian Cr.	3262	C	3.5	Newton	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
270	Middle Indian Cr.	3263	P	2.2	Newton	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
271	Middle Indian Cr.	3263	P	2.2	Newton	Escherichia coli (W)
272	Mill Cr. (aka Town Fork Cr.)	4066	C	3.4	Jackson	Escherichia coli (W)
273	Mill Cr. (aka Town Fork Cr.)	4066	C	3.4	Jackson	Oxygen, Dissolved (W)
274	Mississippi R.	1707.03	P	44.6	St. Louis/St. Genevieve	Escherichia coli (W)
275	Missouri R.	0226	P	184.5	Atchison/Jackson	Escherichia coli (W)
276	Missouri R.	0356	P	129.0	Jackson/Saline	Escherichia coli (W)
277	Missouri R.	1604	P	104.5	Gasconade/St. Charles	Escherichia coli (W)
278	Monroe City Lake	7031	L1	94.0	Ralls	Mercury in Fish Tissue (T)
279	Monsanto Lake	7301	L3	18.0	St. Francois	Nitrogen, Total (W)
280	Mozingo Lake	7402	L1	898.0	Nodaway	Mercury in Fish Tissue (T)
281	Muddy Cr.	0853	P	62.2	Pettis	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
282	Mussel Fk..	0674	C	29.0	Sullivan/Macon	Escherichia coli (W)
283	Niangua R.	1170	P	56.0	Webster/Dallas	Escherichia coli (W)
284	Nishnabotna R.	0227	P	10.2	Atchison	Escherichia coli (W)
285	No Cr.	0550	P	28.7	Grundy/Livingston	Escherichia coli (W)
286	No Cr.	0550	P	28.7	Grundy/Livingston	Oxygen, Dissolved (W)
287	Noblett Lake	7316	L3	26.0	Douglas	Chlorophyll-a (W)
288	Noblett Lake	7316	L3	26.0	Douglas	Mercury in Fish Tissue (T)
289	Noblett Lake	7316	L3	26.0	Douglas	Phosphorus, Total (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
290	Nodaway R.	0279	P	59.3	Nodaway	Escherichia coli (W)
291	Norfork Lake	7317	L2	1000.0	Ozark	Mercury in Fish Tissue (T)
292	North Bethany City Reservoir	7109	L3	78.0	Harrison	Mercury in Fish Tissue (T)
293	North Branch Wilsons Cr.	3811	P	3.8	Greene	Zinc (S)
294	North Fk. Cuivre R.	0158	P	25.1	Pike/Lincoln	Escherichia coli (W)
295	North Fk. Cuivre R.	0170	C	10.0	Pike	Escherichia coli (W)
296	North Fk. Spring R.	3186	P	17.4	Jasper	Escherichia coli (W)
297	North Fk. Spring R.	3188	C	55.9	Barton	Ammonia, Total (W)
298	North Fk. Spring R.	3188	C	55.9	Dade/Jasper	Escherichia coli (W)
299	North Fk. Spring R.	3188	C	55.9	Dade/Jasper	Oxygen, Dissolved (W)
300	North Indian Cr.	3260	P	5.2	Newton	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
301	North Indian Cr.	3260	P	5	Newton	Escherichia coli (W)
302	Omete Cr.	1794	C	1.2	Perry	Escherichia coli (W)
303	Osage R.	1293	P	50.7	Vernon/St.Clair	Escherichia coli (W)
304	Osage R.	1293	P	50.7	Vernon/St.Clair	Oxygen, Dissolved (W)
305	Palmer Lake	7441	L3	102.0	Washington	Mercury in Fish Tissue (T)
306	Panther Cr.	1373	C	9.7	St.Clair/Polk	Oxygen, Dissolved (W)
307	Pearson Cr.	2373	P	8.0	Greene	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
308	Pearson Cr.	2373	P	8.0	Greene	Escherichia coli (W)
309	Peno Cr.	0099	C	14.4	Pike	Oxygen, Dissolved (W)
310	Perry County Community Lake	7273	L3	89.0	Perry	Mercury in Fish Tissue (T)
311	Perry Phillips Lake	7628	UL	32.0	Boone	Mercury in Fish Tissue (T)
312	Peruque Cr.	0215	P1	9.6	St. Charles	Oxygen, Dissolved (W)
313	Peruque Cr.	0217	P	4.0	St. Charles	Fishes Bioassessment/Unknown (W)
314	Peruque Cr.	0218	P	10.9	Warren/St. Charles	Oxygen, Dissolved (W)
315	Peruque Cr.	0218	P	10.9	Warren/St. Charles	Fishes Bioassessment/Unknown (W)
316	Pike Cr.	2815	C	6.0	Butler	Oxygen, Dissolved (W)
317	Platte R.	0312	P	142.4	Worth/Platte	Escherichia coli (W)
318	Pleasant Run Cr.	1327	C	7.6	Vernon	Oxygen, Dissolved (W)
319	Pole Cat Slough	3120	P	12.6	Dunklin	Oxygen, Dissolved (W)
320	Pole Cat Slough	3120	P	12.6	Dunklin	Temperature, water (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
321	Pomme de Terre R.	1440	P	69.1	Webster/Polk	Escherichia coli (W)
322	Red Oak Cr.	2038	C	10.0	Gasconade	Oxygen, Dissolved (W)
323	Rinquelin Trail Community Lake	7204	L3	27.0	Maries	Mercury in Fish Tissue (T)
324	River des Peres	1710	C	2.6	St. Louis City	Chloride (W)
325	River des Peres	1710	C	2.6	St. Louis City	Escherichia coli (W)
326	River des Peres	1710	C	2.6	St. Louis City	Oxygen, Dissolved (W)
327	River des Peres	3972	C	13.6	St. Louis	Chloride (W)
328	River des Peres	3972	C	13.6	St. Louis	Escherichia coli (W)
329	Salt Cr.	0594	C	14.9	Livingston/Chariton	Oxygen, Dissolved (W)
330	Salt Fk.	0893	P	26.7	Saline	Oxygen, Dissolved (W)
331	Salt Pine Cr.	2113	C	1.2	Washington	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
332	Salt R.	0091	P	29.0	Ralls/Pike	Oxygen, Dissolved (W)
333	Salt R.	0103	P1	9.3	Ralls	Mercury in Fish Tissue (T)
334	Salt R.	0103	P1	9.3	Ralls	Oxygen, Dissolved (W)
335	Shibboleth Br.	2119	P	1.0	Washington	Lead (S)
336	Shibboleth Br.	2119	P	1.0	Washington	Zinc (S)
337	Shoal Cr.	3222	P	50.5	Newton	Zinc (S)
338	Slater Br.	3754	C	3.7	Jasper	Escherichia coli (W)
339	Sni-a-bar Cr.	0399	P	36.6	Jackson/Lafayette	Oxygen, Dissolved (W)
340	South Blackbird Cr.	0655	C	13.0	Putnam	Ammonia, Total (W)
341	South Fk. Salt R.	0142	C	40.1	Callaway/Audrain	Oxygen, Dissolved (W)
342	South Grand R.	1249	P	66.8	Cass/Henry	Escherichia coli (W)
343	South Indian Cr.	3259	P	8.7	McDonald/Newton	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
344	South Indian Cr.	3259	P	8.7	McDonald/Newton	Escherichia coli (W)
345	Spencer Cr.	0224	C	1.5	St. Charles	Chloride (W)
346	Spring Br.	5007	C	3.1	St. Louis	Escherichia coli (W)
347	Spring R.	3160	C	61.7	Lawrence/Jasper	Escherichia coli (W)
348	Spring R.	3164	P	8.8	Lawrence	Escherichia coli (W)
349	Spring R.	3165	P	11.9	Lawrence	Escherichia coli (W)
350	St. Francis R.	2835	P	93.1	St. Francois	Temperature, water (W)
351	St. John's Ditch	3138	P	15.3	New Madrid	Escherichia coli (W)
352	St. John's Ditch	3138	P	15.3	New Madrid	Mercury in Fish Tissue (T)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
353	Stevenson Bayou	3135	C	6.4	Mississippi	Oxygen, Dissolved (W)
354	Straight Fk.	0959	C	6.0	Morgan	Oxygen, Dissolved (W)
355	Strother Cr.	2751	P	6.0	Iron/Reynolds	Aquatic Macroinvertebrate Bioassessments/Unknown (W)
356	Strother Cr.	2751	P	6.0	Iron/Reynolds	Lead (S)
357	Strother Cr.	2751	P	6.0	Iron/Reynolds	Lead (W)
358	Strother Cr.	2751	P	6.0	Iron/Reynolds	Nickel (S)
359	Strother Cr.	2751	P	6.0	Iron/Reynolds	Zinc (S)
360	Strother Cr.	2751	P	6.0	Iron/Reynolds	Zinc (W)
361	Strother Cr.	3965	US	n/a	Reynolds/Iron	Arsenic (S)
362	Strother Cr.	3965	US	n/a	Reynolds/Iron	Lead (S)
363	Strother Cr.	3965	US	n/a	Reynolds/Iron	Nickel (S)
364	Strother Cr.	3965	US	n/a	Reynolds/Iron	Zinc (S)
365	Strother Cr.	3965	US	n/a	Reynolds/Iron	Zinc (W)
366	Sugar Cr.	0686	P	6.8	Randolph	Oxygen, Dissolved (W)
367	Sugar Creek Lake	7166	L1	308.0	Randolph	Mercury in Fish Tissue (T)
368	Sunset Lake	7399	L3	6.0	Cole	Mercury in Fish Tissue (T)
369	Table Rock Lake, James, Kings and Long Cr. Arms	7313	L2	41747.0	Barry/Taney/Stone	Nutrient/Eutrophication Biol. Indicators (W)
370	Table Rock Lake, White River Arm	7313	L2	41747.0	Barry/Taney	Chlorophyll (W)
371	Table Rock Lake, White River Arm	7313	L2	41747.0	Barry/Taney	Nitrogen, Total (W)
372	Terre Du Lac Lakes	7297	L3	371.4	St. Francois	Nitrogen, Total (W)
373	Thirtyfour Corner Blue Hole	7352	L3	9.0	Mississippi	Mercury in Fish Tissue (T)
374	Thompson R.	0549	P	70.6	Harrison	Escherichia coli (W)
375	Thurman Cr.	3243	P	3.0	Newton	Escherichia coli (W)
376	Trib. To Coon Cr.	0133	C	2.0	Randolph	Oxygen, Dissolved (W)
377	Trib. To Flat River Cr.	3938	US	0.3	St. Francois	Zinc (W)
378	Trib. To Goose Cr.	1420	C	3.0	Lawrence	Escherichia coli (W)
379	Trib. To Little Muddy Cr.	3490	C	1.0	Pettis	Chloride (W)
380	Trib. To Old Mines Cr.	2114	C	1.5	Washington	Sedimentation/Siltation (S)
381	Trib. To Red Oak Cr.	3360	C	0.5	Gasconade	Oxygen, Dissolved (W)
382	Trib. To Red Oak Cr.	3361	C	1.9	Gasconade	Oxygen, Dissolved (W)
383	Trib. to Shoal Cr.	3981	US	1.6	Jasper/Newton	Cadmium (W)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
384	Trib. to Shoal Cr.	3981	US	1.6	Jasper/Newton	Zinc (W)
385	Trib. to Shoal Cr.	3982	US	2.2	Jasper/Newton	Zinc (W)
386	Trib. to Turkey Cr.	3983	US	2.9	Jasper	Cadmium (W)
387	Trib. to Turkey Cr.	3983	US	2.9	Jasper	Cadmium (S)
388	Trib. to Turkey Cr.	3983	US	2.9	Jasper	Lead (S)
389	Trib. to Turkey Cr.	3983	US	2.9	Jasper	Zinc (S)
390	Trib. to Turkey Cr.	3983	US	2.9	Jasper	Zinc (W)
391	Trib. to Turkey Cr.	3984	US	2.2	Jasper	Cadmium (W)
392	Trib. to Turkey Cr.	3984	US	2.2	Jasper	Zinc (W)
393	Trib. to Turkey Cr.	3985	US	1.6	Jasper	Zinc (W)
394	Trib. To Willow Fk.	0956	C	0.5	Moniteau	Oxygen, Dissolved (W)
395	Trib. To Wolf Cr.	3589	C	1.5	St. Francois	Oxygen, Dissolved (W)
396	Troublesome Cr.	0074	C	41.3	Knox	Oxygen, Dissolved (W)
397	Troublesome Cr.	0074	C	41.3	Knox/Marion	Sedimentation/Siltation (S)
398	Truitt Cr.	3174	P	1.5	Lawrence	Escherichia coli (W)
399	Truitt Cr.	3175	C	6.4	Lawrence	Escherichia coli (W)
400	Turkey Cr.	0751	C	6.3	Boone	Escherichia coli (W)
401	Turkey Cr.	3216	P	7.7	Jasper	Cadmium (S)
402	Turkey Cr.	3216	P	7.7	Jasper	Cadmium (W)
403	Turkey Cr.	3216	P	7.7	Jasper	Lead (S)
404	Turkey Cr.	3216	P	7.7	Jasper	Zinc (S)
405	Turkey Cr.	3217	P	6.1	Jasper	Cadmium (S)
406	Turkey Cr.	3217	P	6.1	Jasper	Escherichia coli (W)
407	Turkey Cr.	3217	P	6.1	Jasper	Zinc (S)
408	Turkey Cr.	3282	P	2.4	St. Francois	Cadmium (S)
409	Turkey Cr.	3282	P	2.4	St. Francois	Cadmium (W)
410	Turkey Cr.	3282	P	2.4	St. Francois	Copper (S)
411	Turkey Cr.	3282	P	2.4	St. Francois	Lead (S)
412	Turkey Cr.	3282	P	2.4	St. Francois	Lead (W)
413	Turkey Cr.	3282	P	2.4	St. Francois	Nickel (S)
414	Turkey Cr.	3282	P	2.4	St. Francois	Zinc (S)
415	Turkey Cr.	3282	P	2.4	St. Francois	Zinc (W)
416	Turnback Cr.	1414	P	19.9	Lawrence/Dade	Escherichia coli (W)
417	Twomile Cr.	4079	C	5.6	St. Louis	Escherichia coli (W)
418	Unity Village Lake #2	7099	L1	26.0	Jackson	Mercury in Fish Tissue (T)

No.	Water Body Name	WBID	Class	MDNR Water Body Size (mi/acres)	County Upstream/ Downstream	Pollutant/Cause
419	Warm Fk. Spring R.	2579	P	13.8	Oregon	Fecal Coliform (W)
420	Watkins Cr.	1708	C	1.4	St. Louis/St. Louis City	Chloride (W)
421	Watkins Cr.	1708	C	1.4	St. Louis/St. Louis City	Escherichia coli (W)
422	Watkins Creek Trib.	4097	C	1.2	St. Louis	Escherichia coli (W)
423	Watkins Creek Trib.	4098	C	1.2	St. Louis	Escherichia coli (W)
424	Weatherby Lake	7071	L3	185.0	Platte	Chlorophyll-a (W)
425	Weatherby Lake	7071	L3	185.0	Platte	Mercury in Fish Tissue (T)
426	Weatherby Lake	7071	L3	185.0	Platte	Nitrogen, Total (W)
427	Weatherby Lake	7071	L3	185.0	Platte	Phosphorus, Total (W)
428	Weldon R.	0560	P	43.4	Mercer/Grundy	Escherichia coli (W)
429	West Fork Black R.	2755	P	32.3	Reynolds	Lead (S)
430	West Fork Black R.	2755	P	32.3	Reynolds	Nickel (S)
431	West Fork Drywood Cr.	1317	C	8.1	Vernon	Oxygen, Dissolved (W)
432	Whetstone Cr.	1504	P	12.2	Wright	Oxygen, Dissolved (W)
433	White Oak Cr.	3182	C	18.0	Lawrence/Jasper	Escherichia coli (W)
434	Wildhorse Cr.	1700	C	3.9	St. Louis	Escherichia coli (W)
435	Williams Cr.	3171	P	1.0	Lawrence	Escherichia coli (W)
436	Williams Cr.	3172	P	8.5	Lawrence	Escherichia coli (W)
437	Williams Cr.	3594	P	1.0	St. Louis	Escherichia coli (W)
438	Willow Br.	3280	P	2.2	Newton	Escherichia coli (W)
439	Willow Br.	3280	P	2.2	Newton	Zinc (S)
440	Willow Fk.	0955	C	6.8	Moniteau	Oxygen, Dissolved (W)
441	Wilsons Cr.	2375	P	14.0	Greene/Christian	Benzo[a]anthracene (S)
442	Wilsons Cr.	2375	P	14.0	Greene/Christian	Chrysene (S)
443	Wilsons Cr.	2375	P	14.0	Greene/Christian	Fluoranthene (S)
444	Wilsons Cr.	2375	P	14.0	Greene/Christian	Phenanthrene (S)
445	Wilsons Cr.	2375	P	14.0	Greene/Christian	Pyrene (s)
446	Wilsons Cr.	2375	P	14.0	Greene/Christian	Escherichia coli (W)
447	Woods Fk.	2429	C	5.5	Christian	Fisheries Bioassessment/Unknown (W)

Table 3

Water body/pollutant pairs that the EPA disapproves for delisting and is proposing to restore or add to the 2016 Missouri Section 303(d) List. The EPA seeks public comment on these proposed actions.

No.	Water Body Name	WBID	Class	Classified Segment (mi/acres)	County	Pollutant(s)
1	Big R.	2080	P	81.3	St. Francois	Zinc (S)
2	Peruque Cr.	0216	P	10.3	St. Charles	Unknown toxicity
3	Turkey Cr.	3217	P	6.1	Jasper	Lead(S)
4	Willow Br.	3280	P	2.2	Newton	Cadmium (S), Lead (S)