

**United States Environmental Protection Agency**

**Region 7**

**2020 Decision Document**



**Iowa's Clean Water Act**

**Section 303(d) List**

**Water Quality Limited Segments Still Requiring TMDLs**

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Date

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# **DECISION DOCUMENT OF THE 2020 IOWA CLEAN WATER ACT, SECTION 303(d) LIST WATER QUALITY LIMITED SEGMENTS STILL REQUIRING TMDLS**

## **I. EXECUTIVE SUMMARY**

On February 18, 2021, the Iowa Department of Natural Resources submitted its 2020 Clean Water Act Section 303(d) List to the United States Environmental Protection Agency for review, herein referred to as the submittal. Following its review of Iowa's complete submittal, the EPA requested revisions which were submitted April 28, 2021. In accordance with 40 CFR §130.7(d)(2), the EPA approves Iowa's 2020 CWA Section 303(d) List (Category 5 of their 2020 Integrated Report), consisting of a total of 585 water bodies with 778 water body/pollutant combinations. This document summarizes the EPA's review and the basis for its decision.

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) List requirements apply to water quality-limited segments impaired by pollutant loadings from both point and/or 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.

In its submittal, the IDNR included its assessment methodology to identify waters that do not meet the state's approved water quality standards and, therefore, are required to be included on its CWA Section 303(d) List. Water quality data that meet the assessment criteria included within the state's 2020 revised methodology were evaluated by the IDNR. The methodology establishes specific protocols and thresholds for assessing water bodies and addresses data sufficiency and quality requirements. The methodology contains procedures for assessing both aquatic life use support and human health use support.

In 2000, the Iowa legislature enacted its "Credible Data Law" which sets out, in statute, minimum requirements for the use of water quality data for purposes of state water quality standards development and review, water quality assessment, changes to the state's CWA Section 303(d) List, determining designated use support or classification, identification of water quality degradation and establishment of Total Maximum Daily Loads. The IDNR has stated that nearly all recent water quality data have already been used for Section 305(b) assessments and thus have already been considered for Section 303(d) listings. A listed water body will not be removed from the state's Section 303(d) List simply because the data upon which the impairment was based have aged beyond five years.

All waters which were included in Iowa's approved 2020 CWA Section 303(d) List will remain on the state's CWA Section 303(d) List, unless the IDNR removes a water body from a future list with the EPA's approval. The IDNR's submittal for the EPA review includes:

- water bodies which the IDNR determined to be water quality-limited segments pursuant to the state's listing methodology and included in the CWA Section 303(d) List

- water bodies on Iowa’s previously approved 2018 CWA Section 303(d) List which were determined not to need TMDLs pursuant to the listing methodology and were removed from the CWA Section 303(d) List

While the guidelines, protocols, and requirements in state statute and the IDNR listing methodology might be useful tools for the IDNR 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’s statute or the methodology in reviewing the IDNR’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 state’s underlying EPA-approved water quality standards. The EPA’s review process generally followed a two-step analysis:

- 1) The EPA reviewed the state’s listing methodology, including data collection and data assessment requirements, to determine whether, based on Iowa’s EPA-approved water quality standards, the methodology was a reasonable method for identifying water quality-limited segments.
- 2) Where the EPA was unsure whether the methodology was a reasonable method for identifying water quality-limited segments, the Region requested additional information from the IDNR to conduct further water body and data analysis.

Following the EPA’s decision on Iowa’s 2020 submission, the current CWA Section 303(d) List in the State of Iowa contains:

- an approved 2020 CWA Section 303(d) List with new listings identified (Table 1)
- approved removals from the IDNR’s CWA Section 303(d) List (Table 2)

The statutory and regulatory requirements relevant to CWA Section 303(d) lists, and the EPA’s review of the IDNR’s compliance with each requirement, are described in detail below. The EPA’s approval of the IDNR’s Section 303(d) List extends to all water bodies on the list except those waters that may be located within Indian Country, as defined in 18 U.S.C. Section 1151. The EPA is taking no action to approve or disapprove the state’s list with respect to those waters. The EPA, or eligible Indian Tribes, as appropriate, will retain responsibilities under Section 303(d) for those waters. In addition, the EPA approval actions of state Section 303(d) lists do not constitute a finding of state and/or tribal jurisdiction over particular waters. The EPA offered consultation with Tribes on this action with Tribal Lands within or adjacent to Iowa and posted the offer to the Tribal Consultation Opportunities Tracking System. The EPA received no comments or requests for consultation. The EPA welcomes any tribe with interest in coordinating or consulting on Iowa waters on future listing cycles to contact the agency.

## **II. STATUTORY AND REGULATORY BACKGROUND**

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

Section 303(d)(1) of the CWA directs a state 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 standard 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, pursuant to the EPA's long-standing interpretation of Section 303(d).

The EPA regulations at 40 CFR 130.7(b)(1) provide that states do not need to list waters where the following controls are adequate to implement applicable standards:

- technology-based effluent limitations required by the CWA
- more stringent effluent limitations required by state or local authority
- other pollution control requirements required by state, local, or federal authority

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

In developing Section 303(d) lists, states are required to assemble and evaluate all existing and readily available water quality-related data and information, at a minimum considering existing and readily available data and information about the following categories of waters:

- waters identified as partially meeting or not meeting designated uses or as threatened in the state's most recent Section 305(b) Report
- waters for which dilution calculations or predictive modeling indicate non-attainment of applicable standards
- waters for which water quality problems have been reported by governmental agencies, members of the public, or academic institutions
- waters identified as impaired or threatened in any Section 319 nonpoint source assessment submitted to the EPA in accordance with 40 CFR §130.7(b)(5)

States are also required to consider any other existing or readily available data or information. 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 documentation to support decisions to rely or not to rely on particular data and information and decisions to list or not to list waters as part of their submissions to the EPA. Such documentation needs to include the following information:

- a description of the methodology used to develop the list
- a description of the data and information used to identify waters
- a rationale for any decision to not use any existing and readily available data and information
- any other reasonable information requested by the Region

## **C. Priority Ranking and Long-term Vision**

The EPA regulations codify and interpret the requirement in CWA 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) lists for TMDL development and identify water quality-limited segments targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must account for the severity of the pollution and the uses of the waters. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs; vulnerability of aquatic habitats; degree of public interest and support; state or national policies and priorities; and aesthetic, recreational, or economic importance.

For the 2018 IR, the state initiated a priority vision which identifies the state's priorities through the year 2022. The state has identified Tier I through Tier IV waters based on the water body and reports pursuant to Sections 305(b) and 303(d) of the CWA (IDNR Methodology: Attachment 7, 2018).

### **III. IOWA'S APPROACH TO IDENTIFYING WATERS FOR THE 2020 SECTION 303(d) LIST**

#### **A. Iowa's 2020 Integrated Report Format**

The EPA guidance for states in meeting the requirements of CWA Section 303(d) recommends a format which integrates the requirements of both CWA Sections 305(b) and 303(d), creating an Integrated Report. The 2020 submission is the eighth IR submission by the state of Iowa. The following describes the five categories constituting Iowa's IR and the number of water bodies assigned to each category:

- Category 1 consists of 15 water body segments attaining all designated uses and no use is threatened.
- Category 2 consists of 271 water body segments for which some, but not all, designated uses are attained and none are threatened. Attainment status of the remaining designated uses is unknown because data are insufficient to categorize a water body consistent with the state's listing methodology.
- Category 3 consists of water body segments for which there are insufficient or no data and information to determine if a designated use is impaired or attained. This category contains 518 water bodies for which there is insufficient or no data to determine the status of all designated uses. It contains 177 water bodies for which there is insufficient or no data to determine the status of some designated uses. In total category 3 contains 695 water bodies with 746 waterbody/pollutant combinations.
- Category 4 consists of water body segments for which one or more designated uses are impaired or threatened but establishment of a TMDL is not required. This category contains 167 water bodies for which no impaired designated uses require a TMDL. It contains 71 water bodies for which some impaired designated uses no longer require a TMDL. In total category 4 contains 238 water bodies with 319 waterbody/pollutant combinations.
- Category 5 consists of 585 water body segments for which one or more pollutants has caused, is suspected of causing, or is projected to cause an impairment or threat of impairment of one or more designated uses and the establishment of a TMDL is required. This category also includes segments for which impairment is indicated, but the cause or source is unknown, and segments for which the impairment is to a presumed use. In total this category contains 778 waterbody/pollutant combinations.

The state includes further sub-categories within Categories 3, 4, and 5.

Category 3 comprises sub-category 3b, which includes water body segments with ‘evaluated data’ suggesting a potential impairment. According to the IDNR methodology, “waters ‘evaluated’ as impaired are identified as having insufficient data to determine whether beneficial uses are met.” Data determined by the IDNR to be ‘evaluated data’ are not deemed of adequate quality or quantity to determine that a designated use is or is not met according to state water quality standards. The IDNR’s use of ‘evaluated data’ for statistical analysis is allowed in the EPA’s guidance. The IDNR uses this analysis to ensure statistical certainty before listing a water body segment as impaired. The IDNR places sub-category 3b water body segments on a list of waters in need of further investigation. The IDNR defines the aquatic life uses of a stream segment with a watershed size within the calibration range of biological assessment protocol as approximately 10 to 500 square miles. In order to incorporate this calibration into sub-category 3b, the category is further divided into –c (calibrated) and –u (uncalibrated) categories. The –c specification indicates the aquatic life use of a stream segment within the calibrated range of the biological assessment protocol has been assessed as potentially impaired. The –u specification indicates the aquatic life use of a stream segment with a watershed size outside the calibrated range of the biological assessment protocol has been assessed as potentially impaired.

Category 4 is expanded into the four sub-categories a, b, c, and d. Sub-category 4a includes threatened or impaired waters which have a completed TMDL approved by the EPA. Sub-category 4b includes threatened or impaired waters for which “other required control measures are expected to result in the attainment of water quality standards.” Sub-category 4c includes waters where the “threat or impairment is not caused by a pollutant.” Sub-category 4d includes waters impaired by a fish kill where enforcement actions have been taken against a responsible party. Sub-categories 4a through 4c are recognized within the EPA’s guidance for the development of an IR; however, sub-category 4d constitutes a variation on the EPA’s guidance.

Additionally, Category 5 is expanded into the three sub-categories a, b, and p. Sub-category 5a indicates the cause of impairment is known, and a TMDL is required to address the impairment. Sub-category 5b indicates the cause of impairment, usually either a biological impairment or fish kill, is unknown and additional information is required before TMDL development. Sub-category 5b is further divided into –t (tentative) and –v (verified) categories. The –t category indicates a tentative biological impairment based upon insufficient information and further sampling is required to confirm the impairment. The –v category indicates a verified biological impairment based upon two or more biological sampling events in multiple years within the previous five years. In 2006 the IDNR implemented sub-category 5p, which indicates the impairment occurs on a segment presumptively designated for the highest level of primary contact recreation and aquatic life uses. Category 5p applies to perennial streams and intermittent streams with perennial pools and requires a use attainability analysis to confirm that the presumptive uses apply to the segment.

The EPA’s review of all state categories and sub-categories was conducted within the context of listing a water body segment within Category 5 based on existing and readily available data and information. The information above regarding Categories 1 through 4 is provided for information purposes only as the EPA does not approve these categories. Only Category 5 listings or delistings, which constitute the IDNR’s list of impaired segments requiring TMDLs, are subject to the EPA’s review and approval.

## **B. Iowa’s 2020 Methodology**

The IDNR's *Methodology for Iowa's 2020 Water Quality Assessment, Listing, and Reporting Pursuant to Sections 305(b) and 303(d) of the Federal Clean Water Act* guides the IDNR'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 previously, Category 5 of the 2020 list constitutes IDNR'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 acting only on Category 5, which consists of water quality-limited segments requiring TMDLs.

Since the 2018 reporting cycle, the IDNR made the following changes to their methodology:

- The IDNR applied the fish kill follow-up (FKF) protocol to applicable fish kills by using existing biological sampling data from multiple sources that were collected post-fish kill.
- The IDNR assessed indicator bacteria data (*E. coli*) collected from both lakes and rivers using the same methodology. Annual recreational season geometric means were calculated and the overall number of violations and percent violations were calculated from the entire dataset.
- The IDNR eliminated the Fully Supported/Threatened category from the methodology document and the online assessment database, ADBNet.
- The IDNR removed redundant text throughout the document in order to streamline future updates to this methodology document.
- The IDNR shortened, updated, and moved the Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program into the body of the methodology document. The revised Long-Term TMDL Vision text is now located in the prioritization and scheduling of waters for TMDL development section of the document.
- The IDNR used pH data, where available, to assess all segments with classes A1, A2, or A3 designated use.
- The IDNR used water quality data (toxic parameters), where available, to assess segments with class HH designated use.
- The IDNR updated the tables section to match the elimination of the Fully Supported/Threatened category and the methodology text.

The EPA determined the change in assessed indicator bacteria (*E. coli*) data is not consistent with the IDNR's EPA-approved Water Quality Standards; however, this change did not impact the listing or delisting results of the IDNR's 2020 Section 303(d) List.

According to the state's methodology, Iowa used the following data sources to assess water quality conditions for the IR:

- 1) physical, chemical, and biological data from ambient fixed station water quality monitoring networks conducted by the IDNR and other agencies (e.g., the U.S. Geological Survey, the U.S. Army Corps of Engineers)
- 2) data for Iowa tributaries of the Upper Mississippi River generated by the Long-Term Resource Monitoring Program
- 3) data from water quality monitoring conducted by adjacent states on border rivers and waters flowing into the state
- 4) data from the IDNR's ambient biological monitoring program as conducted in cooperation with the State Hygienic Laboratory at the University of Iowa



- 5) data from the IDNR-sponsored statewide lake monitoring project conducted by the State Hygienic Laboratory at the University of Iowa
- 6) data from monitoring of bacterial indicators in rivers and at beaches of public-owned lakes
- 7) data from programs monitoring fish tissue for toxic contaminants
- 8) reports of pollutant-caused fish kills
- 9) data from public water supplies on the quality of raw and finished water
- 10) drinking water source assessments under Section 1453 of the Safe Drinking Water Act
- 11) data from special studies of water quality and aquatic communities
- 12) best professional judgment of the IDNR staff
- 13) results of volunteer monitoring
- 14) water related information received from the public

Additionally, sources of all existing and readily available water quality-related data and information to be considered specifically for developing the state's 303(d) list include, but are not limited to, the following:

- 1) the IDNR's most recent 305(b) Report
- 2) CWA Section 319 nonpoint source assessments
- 3) dilution calculations, trend analyses, or predictive models for determining the physical, chemical, or biological integrity of streams, rivers, lakes, and estuaries
- 4) water quality-related data and water related information from local, state, territorial, or federal agencies (especially the U.S. Geological Survey's National Water Quality Assessment Program and National Stream Quality Accounting Network), tribal governments, members of the public, and academic institutions

### **C. Coordination with Other States on the Mississippi and Missouri Rivers**

The EPA's *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b), and 314 of the Clean Water Act* contains recommendations on how states should handle shared waters with regard to sharing water-quality data, assessing waters, and accounting for list inconsistencies between states. The guidance further recommends that the EPA regional offices and Interstate Commissions, where applicable, should assist in resolving inconsistencies among states with shared waters.

The IDNR's 2020 assessment methodology specifically addresses the IDNR's coordination efforts with other state agencies regarding data assembly and evaluation for "border rivers and waters flowing into the state." Due to a 2004 interstate agreement (memorandum of understanding) developed by the Upper Mississippi River Basin Association's Water Quality Task Force, the IDNR implemented uniform assessment reaches for the Iowa reach of the Upper Mississippi River to provide consistency with assessment reaches used by adjacent states Wisconsin and Illinois. Data from water quality monitoring conducted by adjacent states on border rivers and waters flowing into the state include data from: South Dakota, Minnesota, Wisconsin, Illinois, Missouri, and Nebraska; data from fixed-station ambient water

quality monitoring programs were used for purposes of water quality assessments in Iowa (IDNR Methodology: Attachment 7, 2020). Continuing cooperation will improve states' efforts to satisfy the requirements of CWA Sections 303(d) and 305(b) for data assembly and evaluation for border rivers and waters flowing into the state.

#### **IV. THE EPA'S ANALYSIS OF IOWA'S APPROACH TO LISTING WATERS FOR THE 2020 LIST**

The EPA is approving Iowa's 2020 CWA Section 303(d) List based on the requirements of Section 303(d) of the CWA and 40 CFR §130.7. The EPA's action is based on its analysis of whether the IDNR reasonably identified all water quality-limited segments requiring listing. In determining whether the IDNR reasonably identified all water quality-limited segments requiring a TMDL, the EPA evaluated the IDNR's submission to the EPA (including the Assessment, Total Maximum Daily Load (TMDL) Tracking and Implementation System) and the IDNR's ADBNet database.

The IDNR's 2020 assessment methodology identifies a general 'cutoff date' as the end of calendar year 2018 for data collection in support of the IDNR's water-quality data assessment. The EPA's guidance recognizes the appropriateness of a reasonable data collection cutoff date allowing states to initiate actual data assessment and list preparation. Data not considered for the 2020 assessment should be considered for the 2022 submission. Despite the application of a 'cutoff date' by the IDNR for the development of the 2020 list, the IDNR considered data submitted as part of the state's public notice and comment period from December 1, 2020 through January 1, 2021. The EPA believes the IDNR complied with the requirements of federal regulations at 40 CFR §130.7(b)(5) regarding the assembly and evaluation of all existing and readily available water quality-related data and information.

The IDNR's 2020 methodology also discusses treatment of water quality-related data collected more than five years prior to the current assessment period. Federal regulations and guidance recognize that, in some instances, older data might not reflect current water quality conditions. Where the state demonstrates 'good cause' for not including older data in the derivation of its list, federal regulations at 40 CFR §130.7(b)(6)(iv) provide for the state not including a water or waters on its list. However, a demonstration of 'good cause' relies on the state showing that there are changes in condition in the watershed or water body which result in older data not being representative of current water quality status. According to the IDNR's 2020 methodology, recent water-quality data have already been used for Section 305(b) assessments and thus have already been considered for Section 303(d) listings. There are no water bodies left off the list because the data were more than five years old. A listed water body will not be removed from the state's Section 303(d) list simply because the data upon which the impairment was based have aged beyond five years.

To confirm that the IDNR's CWA Section 303(d) List was developed in a manner compliant with the requirements at 40 CFR §130.7 regarding the assembly and evaluation of "all existing and readily available water quality-related data and information", the EPA reviewed information contained in the IDNR's submission to the EPA (including ATTAINS) and the IDNR's ADBNet database for all Category 5 and proposed delistings for the IDNR's IR waters.

#### **V. THE EPA'S ANALYSIS OF CHANGES TO THE IOWA CWA SECTION 303(d) LIST**

The EPA compared waters listed in Category 5 of the state’s 2018 IR with waters listed in Category 5 of the state’s 2020 IR to determine whether waters were removed from the list, pollutants identified as causing impairment were changed, or water body descriptions had changed. In each case, such changes could constitute a change to the state’s CWA Section 303(d) List requiring the EPA’s approval. As described earlier in this document, the IDNR’s 2020 CWA Section 303(d) List is a part of the state’s IR. The IR format is consistent with the EPA’s guidance and includes five categories of waters. Category 5 of the state’s IR constitutes the state’s 2020 CWA Section 303(d) List.

The EPA has reviewed the IDNR’s description of the data and information the state relied upon in developing its list, its methodology for identifying water bodies, and the IDNR’s responses to public comment for the 2020 CWA Section 303(d) List. In accordance with 40 CFR §130.7(d)(2), the EPA is approving the IDNR’s 2020 CWA Section 303(d) List, consisting of a total of 585 water bodies with 778 water body/pollutant combinations.

The IDNR’s proposed waters for either modification or removal from Category 5 of their 2020 CWA Section 303(d) List, which could be considered a change to the CWA Section 303(d) List, are identified below. As a result of the IDNR’s modification or removal of water bodies from Iowa’s CWA Section 303(d) List, the EPA initiated its review of 95 water body/pollutant combinations to determine whether the IDNR had ‘good cause’ for modifying or removing these waters.

#### **A. Waters Modified or Removed by the IDNR from Iowa’s CWA Section 303(d) List and Approved by the EPA**

The EPA approves Iowa’s CWA Section 303(d) List with modification to or removal of 95 water body/pollutant combinations consistent with requirements of CWA 40 CFR §130.7(b)(6)(iv), the federal regulation providing for exclusion of waters from the CWA Section 303(d) List. These regulations require that the state demonstrate ‘good cause’ to exclude waters from the list. The reason for each modification or removal was included in the IDNR’s submission to the EPA and the IDNR’s ADBNet database. Following are general reasons cited for removal of water bodies from the CWA Section 303(d) List:

- 1) An EPA-approved TMDL addresses the cause of impairment.
- 2) New data shows the water body is meeting water quality standards.
- 3) The state review identified flaws in original listings that are attributable to errors associated with segment identifiers or use of inapplicable criteria.
- 4) An enforcement action has been undertaken to address the cause of a fish kill.

Below are detailed rationales supporting changes to these 95 water body/pollutant combinations (Table 2). Some waters have multiple pollutants and/or multiple causes for modification or removal, resulting in a representation of 81 total water bodies.

#### **1. Waters with EPA-approved TMDLs**

There are 61 water body segments removed from the state’s list because EPA-approved TMDLs have been developed for them. In each instance, either a TMDL was developed for the listed pollutant/condition or the IDNR and the EPA agreed that the TMDL will address the listed pollutant/condition. In Iowa’s IR, some waters continue to be listed in Category 5 for other pollutants/conditions or in other categories based on other water-quality data.

**Avenue of the Saints Lake (02-SHL-1790)** - Iowa previously listed Avenue of the Saints Lake as impaired for aquatic life due to algae, pH, and turbidity. On October 15, 2019 the EPA approved an Iowa TMDL for these pollutant impairments. Consistent with 40 CFR §130.7(b), the EPA approves removing these water body/pollutant pairs for Avenue of the Saints Lake from Iowa's Section 303(d) List because they no longer require TMDL development.

**Beaver Creek (02-IOW-6362, 02-IOW-753)** - Iowa previously listed Beaver Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Beaver Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Bennett Creek (02-IOW-6263)** - Iowa previously listed Bennett Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Bennett Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Deer Creek (02-IOW-6538)** - Iowa previously listed Deer Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Deer Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Drainage Ditch 13 (02-IOW-6550)** - Iowa previously listed Drainage Ditch 13 as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Drainage Ditch 13 from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Drainage Ditch 81 (02-IOW-6551)** - Iowa previously listed Drainage Ditch 81 as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Drainage Ditch 81 from Iowa's Section 303(d) List because it no longer requires TMDL development.

**East Branch Iowa River (02-IOW-769, 02-IOW-771)** - Iowa previously listed East Branch Iowa River as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of East Branch Iowa River from Iowa's Section 303(d) List because they no longer require TMDL development.

**East Tributary to Union Grove Lake (02-IOW-6539)** - Iowa previously listed East Tributary to Union Grove Lake as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for East Tributary to Union Grove Lake from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Eldred Sherwood Lake (02-IOW-773)** - Iowa previously listed Eldred Sherwood Lake as impaired for primary contact recreation due to algal growth (chlorophyll-a). On May 28, 2020 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Eldred Sherwood Lake from Iowa's Section 303(d) List because it no longer requires TMDL development.

**English River (02-IOW-671)** - Iowa previously listed English River as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for English River from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Galls Creek (02-IOW-774)** - Iowa previously listed Galls Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Galls Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Green Valley Lake (05-PLA-1472)** - Iowa previously listed Green Valley Lake as impaired for primary contact recreation and aquatic life due to algae growth (chlorophyll-a), turbidity, and dissolved oxygen. On October 7, 2019 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing these water body/pollutant pairs for Green Valley Lake from Iowa's Section 303(d) List because they no longer require TMDL development.

**Iowa River (02-IOW-621, 02-IOW-622, 02-IOW-623, 02-IOW-624, 02-IOW-627, 02-IOW-633, 02-IOW-641, 02-IOW-642, 02-IOW-646, 02-IOW-651)** - Iowa previously listed Iowa River as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Iowa River from Iowa's Section 303(d) List because they no longer require TMDL development.

**Little Bear Creek (02-IOW-6563, 02-IOW-705, 02-IOW-706)** - Iowa previously listed Little Bear Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Little Bear Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Meadow Lake (04-LDM-1089)** - Iowa previously listed Meadow Lake as impaired for primary contact recreation due to algae growth (chlorophyll-a). On March 25, 2020 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Meadow Lake from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Muddy Creek (02-IOW-2043)** - Iowa previously listed Muddy Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water

body/pollutant pair for Muddy Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Old Mans Creek (02-IOW-686)** - Iowa previously listed Old Mans Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Old Mans Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Price Creek (02-IOW-699, 02-IOW-6377)** - Iowa previously listed Price Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Price Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Rathbun Reservoir - Chariton Arm (05-CHA-1309, 05-CHA-2027, 05-CHA-2028, 05-CHA-2030)** - Iowa previously listed these segments of Rathbun Reservoir as impaired for primary contact recreation due to turbidity. Additionally, segments 05-CHA-2028 and 05-CHA-2027 were listed as impaired for aquatic life due to turbidity. On June 14, 2019 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Rathbun Reservoir from Iowa's Section 303(d) List because they no longer require TMDL development.

**Raven Creek (02-IOW-723)** - Iowa previously listed Raven Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Raven Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**South Beaver Creek (02-IOW-6363)** - Iowa previously listed South Beaver Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for South Beaver Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**South Fork Iowa River (02-IOW-746, 02-IOW-749, 02-IOW-750, 02-IOW-751, 02-IOW-752)** - Iowa previously listed South Fork Iowa River as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of South Fork Iowa River from Iowa's Section 303(d) List because they no longer require TMDL development.

**Tipton Creek (02-IOW-754, 02-IOW-755)** - Iowa previously listed Tipton Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Tipton Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Unnamed Tributary to East Branch Iowa River (02-IOW-6559)** - Iowa previously listed Unnamed Tributary to East Branch Iowa River as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Unnamed Tributary to East Branch Iowa River from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Unnamed Tributary to Muddy Creek (02-IOW-6588)** - Iowa previously listed Unnamed Tributary to Muddy Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Unnamed Tributary to Muddy Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Unnamed Tributary to Tipton Creek (02-IOW-6364)** - Iowa previously listed Unnamed Tributary to Tipton Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Unnamed Tributary to Tipton Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

**Unnamed Tributary to Walnut Creek (02-IOW-6317, 02-IOW-6318, 02-IOW-6590)** - Iowa previously listed Unnamed Tributary to Walnut Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Unnamed Tributary to Walnut Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Unnamed Tributary to Willow Creek (02-IOW-6587)** - Iowa previously listed Unnamed Tributary to Willow Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Unnamed Tributary to Willow Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Walnut Creek (02-IOW-1916, 02-IOW-709)** - Iowa previously listed Walnut Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for these segments of Walnut Creek from Iowa's Section 303(d) List because they no longer require TMDL development.

**Willow Creek (02-IOW-6586)** - Iowa previously listed Willow Creek as impaired for primary contact recreation due to *Escherichia coli*. On March 9, 2018 the EPA approved an Iowa TMDL for this impairment. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Willow Creek from Iowa's Section 303(d) List because it no longer requires TMDL development.

## 2. New Data Supports Change in Listing

There are 26 water body segments removed from the state's list based on new water-quality data indicating the use is supported for the specified pollutants.

**Bailey Creek (02-WFC-820)** – Iowa previously listed Bailey Creek as impaired for a fish kill caused by pesticides. New monitoring data indicates the fish community recovered from the pollutant-caused fish kill. The EPA approves removing this water body/pollutant pair for Bailey Creek from Iowa’s Section 303(d) List.

**Beaver Creek (04-UDM-1233)** – Iowa previously listed Beaver Creek as impaired for not meeting a biological integrity index score. New monitoring data indicates this water body attains Iowa’s EPA-approved recovery status for invertebrate community. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Beaver Creek from Iowa’s Section 303(d) List.

**Big Spirit Lake (06-LSR-1655)** – Iowa previously listed Big Spirit Lake as impaired for primary contact recreation by bacteria. New monitoring data indicates an improvement in water quality for both state monitored beaches for this water body and attainment of Iowa’s EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Big Spirit Lake from Iowa’s Section 303(d) List.

**Bluewing Marsh (06-LSR-1775)** – Iowa previously listed Bluewing Marsh as impaired for algal growth (chlorophyll a) for aquatic life. As a shallow lake sampled outside of the Iowa DNR sponsored statewide lake survey, it has been assessed with fewer than three years of data. However, it does meet the minimum sample number required and the monitoring data indicates an improvement in water quality for this water body and attainment of Iowa’s EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing these water body/pollutant pairs for Bluewing Marsh from Iowa’s Section 303(d) List.

**Cedar River (02-CED-456; 02-CED-457)** – Iowa previously listed Cedar River as impaired by pH for primary contact recreation and aquatic biology. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa’s EPA-approved water quality standards. As such, these water body/pollutant pairs are appropriate for removal from Iowa’s CWA Section 303(d) List. Consistent with 40 CFR §130.7(b), the EPA approves delisting Cedar River.

**Don Williams Lake (04-UDM-1249)** – Iowa previously listed Don Williams Lake as impaired for primary contact recreation by bacteria. The EPA review indicates previous listing cycle assessments were correct; however, new monitoring data for this water body indicates an improvement in water quality and attainment of Iowa’s EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Don Williams Lake from Iowa’s Section 303(d) List.

**East Lake (Osceola; 04-LDM-1065)** – Iowa previously listed East Lake (Osceola) as impaired by pH for primary contact recreation and aquatic biology. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa’s EPA-approved water quality standards. As such, these water body/pollutant pairs are appropriate for removal from Iowa’s CWA Section 303(d) List. Consistent with 40 CFR §130.7(b), the EPA approves delisting East Lake (Osceola).

**Lake Keomah (03-SSK-930)** – Iowa previously listed Lake Keomah as impaired by low dissolved oxygen for aquatic biology. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa’s EPA-approved water quality standards. As such, this water



body/pollutant pair is appropriate for removal from Iowa's CWA Section 303(d) List. Consistent with 40 CFR §130.7(b), the EPA approves delisting Lake Keomah.

**Lake Wapello (04-LDM-1035)** – Iowa previously listed Lake Wapello as impaired for turbidity (Secchi disk transparency) for primary contact recreation. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Lake Wapello from Iowa's Section 303(d) List.

**Lizard Creek (04-UDM-1278)** – Iowa previously listed Lizard Creek as impaired for not meeting a biological integrity index score. New monitoring data indicates this water body attains Iowa's EPA-approved recovery status for invertebrate community. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Lizard Creek from Iowa's Section 303(d) List.

**Lizard Lake (04-UDM-1281)** – Iowa previously listed Lizard Lake as impaired for algal growth (chlorophyll a) and turbidity (suspended solids) for aquatic life. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing these water body/pollutant pairs for Lizard Lake from Iowa's Section 303(d) List.

**Lyons Creek (04-UDM-1260)** – Iowa previously listed Lyons Creek as impaired for a fish kill caused by pesticides. New monitoring data indicates the fish community recovered from the pollutant-caused fish kill. The EPA approves removing this water body/pollutant pair for Lyons Creek from Iowa's Section 303(d) List.

**North Twin Lake (04-RAC-1167)** – Iowa previously listed North Twin Lake as impaired for primary contact recreation by bacteria. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for North Twin Lake from Iowa's Section 303(d) List.

**Pleasant Creek Lake (02-CED-459)** – Iowa previously listed Pleasant Creek Lake as impaired for primary contact recreation by bacteria. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Pleasant Creek Lake from Iowa's Section 303(d) List.

**Rice Lake (02-WIN-832)** – Iowa previously listed Rice Lake as impaired for algal growth (chlorophyll a) and turbidity (total suspended solids) for aquatic life. In addition to aquatic life, algal growth (chlorophyll a) impaired primary contact recreation. This lake underwent restoration in 2013 and 2014. Since the lake restoration, new monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Rice Lake from Iowa's Section 303(d) List.

**Rock River (06-BSR-1534)** – Iowa previously listed Rock River as impaired for a fish kill caused by an unknown toxin. New monitoring data indicates the fish community recovered from the

pollutant-caused fish kill. The EPA approves removing this water body/pollutant pair for Rock River from Iowa's Section 303(d) List.

**Shell Rock River (02-SHL-787)** – Iowa previously listed Shell Rock River as impaired by low dissolved oxygen for aquatic biology. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. As such, this water body/pollutant pair is appropriate for removal from Iowa's CWA Section 303(d) List. Consistent with 40 CFR §130.7(b), the EPA approves delisting Shell Rock River.

**South Fork Iowa River (02-IOW-751)** – Iowa previously listed South Fork Iowa River as impaired for a fish kill caused by an unknown source. New monitoring data indicates the fish community recovered from the pollutant-caused fish kill, therefore there is good cause to delist this impairment. The EPA approves removing this water body/pollutant pair for South Fork Iowa River from Iowa's Section 303(d) List.

**Viking Lake (05-NOD-1407)** – Iowa previously listed Viking Lake as impaired for primary contact recreation by bacteria. New monitoring data indicates an improvement in water quality for this water body and attainment of Iowa's EPA-approved water quality standards. Consistent with 40 CFR §130.7(b), the EPA approves removing this water body/pollutant pair for Viking Lake from Iowa's Section 303(d) List.

**Willow Creek (06-LSR-6299, 06-LSR-1626)** – Iowa previously listed Willow Creek as impaired for a fish kill caused by animal waste. New monitoring data indicates the fish community recovered from the pollutant-caused fish kill. The EPA approves removing these water body/pollutant pairs for Willow Creek from Iowa's Section 303(d) List.

### 3. Listing Error

Three water body segments are removed due to assessment error which led to inaccurately listing these water bodies in Category 5 of Iowa's 2018 CWA Section 303(d) List.

**Bohemian Creek (01-TRK-221)** – Iowa previously listed Bohemian Creek as impaired for aquatic biology due to thermal modifications to temperature. Review of this data indicates temperature violations are based on data collected at STORET station 15960019. The water quality sampling site should have been associated with Unnamed Tributary to Turkey River (segment 01-TRK-6460). Therefore, due to assessment error, the impairment for temperature is delisted from Bohemian Creek for the 2020 IR cycle.

**Beaver Creek (02-WIN-1837)** – Iowa previously listed Beaver Creek as impaired for aquatic biology due to low dissolved oxygen. The EPA agrees there is insufficient data to assess dissolved oxygen because available data is not representative of the temporal variability in the system. Therefore, due to assessment error, the impairment for dissolved oxygen is delisted from Beaver Creek for the 2020 IR cycle.

**Upper Iowa River (01-UIA-236)** – Iowa previously listed Upper Iowa River as impaired for human health due to a fish consumption advisory for mercury. State review of the sampling location used to assess this segment indicates data is collected in the upstream segment, Upper Iowa River (01-UIA-237), which remains impaired for human health due to a fish consumption advisory for mercury.

Therefore, due to assessment error, the impairment for a fish consumption advisory for mercury is delisted from Upper Iowa River (01-UIA-236) for the 2020 IR cycle.

#### **4. Enforcement Action Addresses Fish Kill**

Three water body segments are removed because of legal action taken and restitution sought for fish kills. There have been no additional fish kills for these segments and the state has taken actions to address the causes of impairments.

**Hickory Creek (01-NMQ-110)** – Iowa previously listed Hickory Creek as impaired due to a fish kill caused by animal waste from an animal feeding operation. The responsible party was identified, restitution was sought and received, and an inspection was completed to assess and address operational issues. Due to changes in conditions, the IDNR has demonstrated good cause for not including this water in its Section 303(d) List. The EPA approves removing this water body/pollutant pair for Hickory Creek from Iowa’s Section 303(d) List.

**Unnamed Tributary to Unnamed Tributary to Des Moines River (04-UDM-6625)** – Iowa previously listed Unnamed Tributary to Unnamed Tributary to Des Moines River as impaired due to a fish kill caused by an aerial pesticide applicator. The responsible party was identified, restitution was sought and received, and certification and training of operators were confirmed. Based upon the provided documentation, the IDNR has demonstrated good cause for not including this water in its Section 303(d) List. The EPA approves removing this water body/pollutant pair for Unnamed Tributary to Unnamed Tributary to Des Moines River from Iowa’s Section 303(d) List.

**West Rat Creek (06-BSR-6609)** – Iowa previously listed West Rat Creek as impaired due to a fish kill caused by an aerial pesticide applicator. The responsible party was identified, restitution was sought and received, and certification and training of operators were confirmed. Based upon the provided documentation, the IDNR has demonstrated good cause for not including this water in its Section 303(d) List. The EPA approves removing this water body/pollutant pair for West Rat Creek from Iowa’s Section 303(d) List.

## **VI. PRIORITY RANKING IN IOWA’S CWA SECTION 303(d) LIST**

The IDNR’s listing methodology describes how the state will prioritize water bodies for purposes of establishing TMDLs. Iowa’s submission of its 2020 CWA Section 303(d) List includes a priority ranking of each water body as required in CWA Section 303(d)(1)(A) and 40 CFR §130.7(b)(4).

## **VII. IOWA’S PUBLIC PARTICIPATION PROCESS**

The IDNR public noticed its 2020 draft CWA Section 303(d) List from December 1, 2020 through January 1, 2021. The list and the IDNR’s ADBNet database were also made available for public review and comment through the IDNR website. The IDNR received comments from 112 individuals. The state submitted a responsiveness summary to the EPA with its 2020 IR.

In response to public comments, the IDNR delisted two waters from the 2020 IR.

Water Body Name	ATTAINS ID	IR Category and Description
Unnamed Tributary to Unnamed Tributary to Des Moines River	04-UDM-6625	Fish kill penalty paid and inspection completed
West Rat Creek	06-BSR-6609	Fish kill penalty paid and certification and training of operators verified

The EPA has reviewed Iowa’s public participation process and concludes that the state provided adequate public notice, allowed opportunity for public comment, and complied with federal requirements regarding its CWA Section 303(d) List.

The IDNR finalized its 2020 CWA Section 303(d) List and submitted it for approval on February 18, 2021 through ATTAINS. Following its review of Iowa’s complete submittal, the EPA requested revisions which were submitted on April 28, 2021 through ATTAINS.

The submittal letter states that the ATTAINS submission is the official submittal, except in instances of discrepancy between ATTAINS and the provided Excel version of IDNR’s CWA Section 303(d) List. Should such discrepancies arise, the IDNR’s Excel version stands as the official submission.

### **VIII. IOWA’S 2020 SECTION 303(d) LIST**

The Iowa 2020 Section 303(d) List, as approved by the EPA, is presented in Table 1.

Water bodies removed from the IDNR’s 2020 Section 303(d) List are approved, with supporting rationale, in Table 2. The following defined terms are used in the tables: aka - Also Known As; EPA - U.S. Environmental Protection Agency; IBI - Index of Biological Integrity; PCBs - Polychlorinated biphenyls; pH - measure of acidic/basic condition; and TMDL - Total Maximum Daily Load.

Table 1. The EPA-approved Iowa 2020 CWA Section 303(d) List.

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
1	Arrowhead Pond	06-WED-1702	Contact Recreation	Algal Growth: Chlorophyll a	
2	Ashton Creek	06-LSR-2048	Aquatic Life	Low Dissolved Oxygen	
3	Backbone Lake	01-MAQ-20	Contact Recreation	Bacteria: <i>E. coli</i>	
4	Badger Creek Lake	04-LDM-1100	Aquatic Life	pH	
5	Badger Creek Lake	04-LDM-1100	Contact Recreation	pH	
6	Badger Lake	04-UDM-1291	Contact Recreation	Algal Growth: Chlorophyll a	
7	Badger Lake	04-UDM-1291	Contact Recreation	Turbidity	New
8	Bailey Creek	02-WFC-820	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
9	Ballard Creek	03-SSK-3053	Aquatic Life	Fish Kill: Animal Waste	
10	Bass Creek	01-TRK-215	Aquatic Life	Temperature	
11	Bass Creek	01-TRK-215	Contact Recreation	Bacteria: <i>E. coli</i>	
12	Bass Creek	01-TRK-215	Contact Recreation	Bacteria: <i>E. coli</i>	
13	Bear Creek	01-NMQ-1886	Aquatic Life	Fish Kill: Animal Waste	
14	Bear Creek	01-UIA-251	Contact Recreation	Bacteria: <i>E. coli</i>	
15	Bear Creek	01-VOL-297	Contact Recreation	Bacteria: <i>E. coli</i>	
16	Bear Creek	01-YEL-440	Aquatic Life	Low Dissolved Oxygen	
17	Bear Creek	02-CED-517	Contact Recreation	Bacteria: <i>E. coli</i>	
18	Bear Creek	02-CED-523	Contact Recreation	Bacteria: <i>E. coli</i>	
19	Bear Creek	02-IOW-702	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
20	Bear Creek	04-LDM-1947	Aquatic Life	Low Dissolved Oxygen	
21	Bear Creek (aka South Bear Creek)	01-UIA-252	Contact Recreation	Bacteria: <i>E. coli</i>	
22	Beaver Creek	01-UIA-286	Aquatic Life	Temperature	
23	Beaver Creek	01-UIA-286	Contact Recreation	Bacteria: <i>E. coli</i>	
24	Beaver Creek	01-UIA-286	Contact Recreation	Bacteria: <i>E. coli</i>	
25	Beaver Creek	02-CED-555	Contact Recreation	Bacteria: <i>E. coli</i>	
26	Beaver Creek	02-CED-557	Aquatic Life	Low Macroinvertebrate IBI	
27	Beaver Creek	02-CED-582	Aquatic Life	Low Macroinvertebrate IBI	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
28	Beaver Creek	02-IOW-753	Aquatic Life	Low Dissolved Oxygen	
29	Beaver Creek	04-UDM-1233	Contact Recreation	Bacteria: <i>E. coli</i>	
30	Beeds Lake	02-WFC-818	Contact Recreation	Algal Growth: Chlorophyll a	
31	Big Creek	04-UDM-1243	Contact Recreation	Bacteria: <i>E. coli</i>	
32	Big Creek	04-UDM-6540	Contact Recreation	Bacteria: <i>E. coli</i>	
33	Big Creek Lake	04-UDM-1242	Contact Recreation	Algal Growth: Chlorophyll a	New
34	Big Hollow Creek	02-ICD-602	Aquatic Life	Fish Kill: Other	
35	Big Hollow Lake	02-ICD-6496	Aquatic Life	pH	
36	Big Hollow Lake	02-ICD-6496	Contact Recreation	Algal Growth: Chlorophyll a	
37	Big Hollow Lake	02-ICD-6496	Contact Recreation	pH	
38	Big Sioux River	06-BSR-1522	Aquatic Life	Fish Kill: Low Dissolved Oxygen	
39	Big Wall Lake	02-IOW-656	Aquatic Life	pH	New
40	Black Hawk Creek	02-CED-546	Aquatic Life	Low Macroinvertebrate IBI	
41	Black Hawk Creek	02-CED-546	Contact Recreation	Bacteria: <i>E. coli</i>	
42	Black Hawk Creek	02-CED-550	Contact Recreation	Bacteria: <i>E. coli</i>	
43	Black Hawk Lake	04-RAC-1134	Contact Recreation	Bacteria: <i>E. coli</i>	
44	Bloody Run	01-YEL-433	Contact Recreation	Bacteria: <i>E. coli</i>	
45	Blue Creek	02-CED-518	Contact Recreation	Bacteria: <i>E. coli</i>	
46	Bob White Lake	05-CHA-1338	Aquatic Life	Low Dissolved Oxygen	
47	Bob White Lake	05-CHA-1338	Contact Recreation	Algal Growth: Chlorophyll a	
48	Bob White Lake	05-CHA-1338	Contact Recreation	Bacteria: <i>E. coli</i>	
49	Bohemian Creek	01-TRK-221	Contact Recreation	Bacteria: <i>E. coli</i>	
50	Bohemian Creek	01-TRK-221	Contact Recreation	Bacteria: <i>E. coli</i>	
51	Boone River	04-UDM-1252	Contact Recreation	Bacteria: <i>E. coli</i>	
52	Boone River	04-UDM-1256	Aquatic Life	Fish Kill: Unknown Toxicity	
53	Boyer River	06-BOY-1502	Aquatic Life	Metals: Selenium	New
54	Boyer River	06-BOY-1502	Contact Recreation	Bacteria: <i>E. coli</i>	
55	Briggs Woods Lake	04-UDM-1255	Aquatic Life	pH	
56	Briggs Woods Lake	04-UDM-1255	Contact Recreation	pH	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
57	Brockamp Creek	01-TRK-217	Contact Recreation	Bacteria: <i>E. coli</i>	
58	Broken Kettle Creek	06-BSR-1529	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
59	Brophy Creek	01-WPS-358	Aquatic Life	Low Macroinvertebrate IBI	
60	Browns Lake	06-WEM-1735	Contact Recreation	Algal Growth: Chlorophyll a	
61	Browns Lake	06-WEM-1735	Contact Recreation	Turbidity	
62	Brush Creek	01-VOL-317	Contact Recreation	Bacteria: <i>E. coli</i>	
63	Brush Creek	01-VOL-318	Aquatic Life	Low Macroinvertebrate IBI	
64	Brushy Creek	04-RAC-1208	Aquatic Life	Fish Kill: Fertilizer Spill	
65	Brushy Creek	04-RAC-1209	Aquatic Life	Fish Kill: Fertilizer Spill	
66	Brushy Creek	04-RAC-1818	Aquatic Life	Fish Kill: Animal Waste	
67	Brushy Creek Lake	04-UDM-1276	Contact Recreation	Bacteria: <i>E. coli</i>	
68	Buck Creek	01-MAQ-45	Aquatic Life	Loss of Native Mussels	
69	Buck Creek	01-MAQ-45	Aquatic Life	Low Macroinvertebrate IBI	
70	Buffalo Creek	04-EDM-985	Aquatic Life	Low Fish IBI	
71	Buffalo Creek	04-EDM-986	Aquatic Life	Low Fish IBI	
72	Burr Oak Creek	02-CED-580	Aquatic Life	Low Macroinvertebrate IBI	
73	Burr Oak Creek	02-CED-581	Aquatic Life	Low Macroinvertebrate IBI	
74	Buttermilk Creek	04-UDM-1826	Contact Recreation	Bacteria: <i>E. coli</i>	
75	Calmus Creek	02-WIN-845	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
76	Camp Creek	04-LDM-1070	Aquatic Life	Fish Kill: Pesticides	New
77	Candlelight Creek	01-NEM-6372	Contact Recreation	Bacteria: <i>E. coli</i>	
78	Canoe Creek	01-UIA-260	Contact Recreation	Bacteria: <i>E. coli</i>	
79	Carter Lake	06-WEM-1714	Human Health	Fish Consumption: PCBs	
80	Catfish Creek	01-TRK-124	Contact Recreation	Bacteria: <i>E. coli</i>	
81	Catfish Creek	01-TRK-125	Aquatic Life	Fish Kill: Unknown Toxicity	
82	Catfish Creek	01-TRK-125	Contact Recreation	Bacteria: <i>E. coli</i>	
83	Cedar Creek	03-SKU-6549	Contact Recreation	Bacteria: <i>E. coli</i>	
84	Cedar Creek	03-SKU-905	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
85	Cedar Creek	04-LDM-1053	Contact Recreation	Bacteria: <i>E. coli</i>	
86	Cedar Creek	04-LDM-1054	Aquatic Life	Low Fish IBI	New
87	Cedar River	02-CED-449	Contact Recreation	Bacteria: <i>E. coli</i>	
88	Cedar River	02-CED-451	Aquatic Life	Loss of Native Mussels	
89	Cedar River	02-CED-462	Contact Recreation	Bacteria: <i>E. coli</i>	
90	Cedar River	02-CED-469	Contact Recreation	Bacteria: <i>E. coli</i>	
91	Cedar River	02-CED-470	Contact Recreation	Bacteria: <i>E. coli</i>	
92	Cedar River	02-CED-472	Contact Recreation	Bacteria: <i>E. coli</i>	
93	Cedar River	02-CED-477	Contact Recreation	Bacteria: <i>E. coli</i>	
94	Cedar River	02-CED-477	Human Health	Fish Consumption: Mercury	
95	Cedar River	02-CED-478	Human Health	Fish Consumption: Mercury	
96	Cedar River	02-CED-479	Human Health	Fish Consumption: Mercury	
97	Center Lake	06-LSR-1663	Contact Recreation	Algal Growth: Chlorophyll a	
98	Centerville Reservoir Upper	05-CHA-1318	Human Health	Fish Consumption: Mercury	
99	Central Park Lake	01-MAQ-38	Contact Recreation	Algal Growth: Chlorophyll a	
100	Chariton Creek	05-CHA-1313	Contact Recreation	Bacteria: <i>E. coli</i>	
101	Chariton River	05-CHA-1307	Contact Recreation	Bacteria: <i>E. coli</i>	
102	Chariton River	05-CHA-1308	Contact Recreation	Bacteria: <i>E. coli</i>	
103	Chariton River	05-CHA-1310	Aquatic Life	Low Fish IBI	
104	Chariton River	05-CHA-1310	Contact Recreation	Bacteria: <i>E. coli</i>	
105	Chariton River	05-CHA-1311	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
106	Chariton River	05-CHA-1311	Contact Recreation	Bacteria: <i>E. coli</i>	
107	Chariton River	05-CHA-1312	Contact Recreation	Bacteria: <i>E. coli</i>	
108	Chatfield Lake	03-SKM-886	Human Health	Metals: Mercury	New
109	Clark Creek	01-UIA-6437	Aquatic Life	Fish Kill: Animal Waste	
110	Clear Creek	01-UIA-249	Contact Recreation	Bacteria: <i>E. coli</i>	
111	Clear Creek	01-UIA-249	Contact Recreation	Bacteria: <i>E. coli</i>	
112	Clear Lake	02-WIN-841	Contact Recreation	Bacteria: <i>E. coli</i>	
113	Cloie Branch	01-TRK-134	Aquatic Life	Low Dissolved Oxygen	



Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
114	Cloie Branch	01-TRK-134	Aquatic Life	Low Macroinvertebrate IBI	
115	Cloie Branch	01-TRK-134	Aquatic Life	Temperature	
116	Coffins Creek	01-MAQ-51	Contact Recreation	Bacteria: <i>E. coli</i>	
117	Coldwater Creek	01-UIA-280	Contact Recreation	Bacteria: <i>E. coli</i>	
118	Coldwater Creek	01-UIA-280	Contact Recreation	Bacteria: <i>E. coli</i>	
119	Coon Creek	01-UIA-265	Contact Recreation	Bacteria: <i>E. coli</i>	
120	Coon Creek	01-UIA-265	Contact Recreation	Bacteria: <i>E. coli</i>	
121	Cooper Creek	05-CHA-1323	Aquatic Life	Low Macroinvertebrate IBI	New
122	Coralville Reservoir	02-IOW-630	Contact Recreation	Bacteria: <i>E. coli</i>	New
123	Coralville Reservoir	02-IOW-630	Contact Recreation	Turbidity	
124	Cottonwood Drain	02-ICD-605	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
125	Cox Creek (aka Alderson Hollow)	01-VOL-303	Contact Recreation	Bacteria: <i>E. coli</i>	
126	Cox Creek (aka Alderson Hollow)	01-VOL-304	Aquatic Life	Low Macroinvertebrate IBI	
127	Crane Creek	01-TRK-210	Contact Recreation	Bacteria: <i>E. coli</i>	
128	Crane Creek	01-TRK-211	Contact Recreation	Bacteria: <i>E. coli</i>	
129	Crane Creek	01-TRK-212	Contact Recreation	Bacteria: <i>E. coli</i>	
130	Crane Creek	01-TRK-213	Aquatic Life	Low Macroinvertebrate IBI	
131	Crow Creek	01-NEM-86	Contact Recreation	Bacteria: <i>E. coli</i>	
132	Deep Creek	06-FLO-1562	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
133	Deer Creek	02-CED-591	Contact Recreation	Bacteria: <i>E. coli</i>	
134	Des Moines River	04-LDM-1002	Contact Recreation	Bacteria: <i>E. coli</i>	
135	Des Moines River	04-LDM-1003	Contact Recreation	Bacteria: <i>E. coli</i>	
136	Des Moines River	04-LDM-1004	Aquatic Life	Fish Kill: Unknown Toxicity	
137	Des Moines River	04-LDM-1004	Contact Recreation	Bacteria: <i>E. coli</i>	
138	Des Moines River	04-LDM-1005	Aquatic Life	Fish Kill: Unknown Toxicity	
139	Des Moines River	04-LDM-1010	Aquatic Life	Fish Kill: Unknown Toxicity	
140	Des Moines River	04-LDM-1010	Contact Recreation	Bacteria: <i>E. coli</i>	
141	Des Moines River	04-UDM-1214	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
142	Des Moines River	04-UDM-1215	Contact Recreation	Bacteria: <i>E. coli</i>	
143	Des Moines River	04-UDM-1216	Contact Recreation	Bacteria: <i>E. coli</i>	
144	Des Moines River	04-UDM-1217	Contact Recreation	Bacteria: <i>E. coli</i>	
145	Des Moines River	04-UDM-1219	Contact Recreation	Bacteria: <i>E. coli</i>	
146	Des Moines River	04-UDM-1220	Contact Recreation	Bacteria: <i>E. coli</i>	
147	Des Moines River	04-UDM-1220	Human Health	Fish Consumption: Mercury	
148	Des Moines River	04-UDM-1221	Human Health	Fish Consumption: Mercury	
149	Des Moines River	04-UDM-1222	Human Health	Fish Consumption: Mercury	
150	Des Moines River	04-UDM-1223	Human Health	Fish Consumption: Mercury	
151	Desoto Bend	06-WEM-1716	Contact Recreation	Algal Growth: Chlorophyll a	
152	Desoto Bend	06-WEM-1716	Contact Recreation	Turbidity	
153	Diamond Lake	03-NSK-861	Aquatic Life	Algal Growth: Chlorophyll a	New
154	Diamond Lake	06-LSR-1672	Aquatic Life	pH	New
155	Dibble Creek	01-TRK-202	Contact Recreation	Bacteria: <i>E. coli</i>	
156	Dick Creek	05-CHA-1336	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
157	Dousman Creek	01-YEL-438	Aquatic Life	Low Dissolved Oxygen	
158	Drainage Ditch 81	02-IOW-6551	Aquatic Life	Low Dissolved Oxygen	
159	Drainage Ditch 97	04-UDM-6494	Aquatic Life	Fish Kill: Fertilizer Spill	
160	Dry Branch	01-TRK-2002	Contact Recreation	Bacteria: <i>E. coli</i>	
161	Dry Creek	02-CED-507	Contact Recreation	Bacteria: <i>E. coli</i>	
162	Dry Creek	06-BSR-1878	Aquatic Life	Fish Kill: Natural Causes	
163	Dry Creek	06-BSR-1878	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
164	Dry Mill Creek	01-TRK-189	Contact Recreation	Bacteria: <i>E. coli</i>	
165	Dry Run	01-UIA-272	Aquatic Life	Temperature	
166	Dry Run	01-UIA-272	Contact Recreation	Bacteria: <i>E. coli</i>	
167	Dry Run	01-UIA-272	Contact Recreation	Bacteria: <i>E. coli</i>	
168	Dry Run	02-CED-554	Aquatic Life	Low Fish & Macroinvertebrate IBIs	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
169	Dry Run	02-CED-554	Contact Recreation	Bacteria: <i>E. coli</i>	
170	Dry Run	02-CED-6293	Contact Recreation	Bacteria: <i>E. coli</i>	
171	Dry Run (North Branch)	02-CED-2063	Contact Recreation	Bacteria: <i>E. coli</i>	
172	Dry Run (South Branch)	02-CED-2062	Contact Recreation	Bacteria: <i>E. coli</i>	
173	Dry Run Creek	01-UIA-6552	Contact Recreation	Bacteria: <i>E. coli</i>	
174	Duck Creek	01-UIA-254	Contact Recreation	Bacteria: <i>E. coli</i>	
175	East Branch Blue Creek	02-CED-1880	Aquatic Life	Fish Kill: Fertilizer Spill	
176	East Branch Buffalo Creek	01-WPS-380	Aquatic Life	Low Dissolved Oxygen	
177	East Branch Iowa River	02-IOW-769	Aquatic Life	Low Macroinvertebrate IBI	
178	East Fork Medicine Creek	05-GRA-1350	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
179	East Fork Wapsipinicon River	01-WPS-408	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
180	East Nishnabotna River	05-NSH-1414	Contact Recreation	Bacteria: <i>E. coli</i>	
181	East Nishnabotna River	05-NSH-1415	Contact Recreation	Bacteria: <i>E. coli</i>	
182	East Nodaway River	05-NOD-1391	Aquatic Life	Low Fish & Macroinvertebrate IBIs	New
183	East Nodaway River	05-NOD-1391	Contact Recreation	Bacteria: <i>E. coli</i>	
184	East Nodaway River	05-NOD-1392	Aquatic Life	Low Fish IBI	
185	East Pine Creek	01-UIA-279	Aquatic Life	Low Macroinvertebrate IBI	
186	Eldred Sherwood Lake	02-IOW-773	Contact Recreation	Bacteria: <i>E. coli</i>	
187	Elk Creek	01-TRK-175	Contact Recreation	Bacteria: <i>E. coli</i>	
188	Elk Lake	06-LSR-1629	Aquatic Life	Algal Growth: Chlorophyll a	
189	Elk Lake	06-LSR-1629	Aquatic Life	pH	New
190	Elk Lake	06-LSR-1629	Aquatic Life	Turbidity	
191	Elk Run	04-RAC-1161	Aquatic Life	Fish Kill: Animal Waste	
192	Elm Lake	02-IOW-657	Aquatic Life	Algal Growth: Chlorophyll a	
193	Elm Lake	02-IOW-657	Aquatic Life	pH	New
194	Elm Lake	02-IOW-657	Aquatic Life	Turbidity	
195	English Creek	04-LDM-1057	Aquatic Life	Low Macroinvertebrate IBI	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
196	Farmers Creek	01-NMQ-94	Aquatic Life	Low Macroinvertebrate IBI	
197	Fivemile Creek	05-CHA-1341	Contact Recreation	Bacteria: <i>E. coli</i>	
198	Flood Creek	02-SHL-788	Contact Recreation	Bacteria: <i>E. coli</i>	
199	Floyd River	06-FLO-1552	Aquatic Life	Metals: Selenium	New
200	Floyd River	06-FLO-1552	Contact Recreation	Bacteria: <i>E. coli</i>	
201	Floyd River	06-FLO-1553	Aquatic Life	Low Fish IBI	
202	Floyd River	06-FLO-1554	Aquatic Life	Fish Kill: Animal Waste	
203	Floyd River	06-FLO-1554	Aquatic Life	Fish Kill: Fertilizer Spill	
204	Floyd River	06-FLO-1554	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
205	Floyd River	06-FLO-6266	Aquatic Life	Fish Kill: Pesticides	
206	Fox River	04-FOX-994	Aquatic Life	Low Fish IBI	
207	Fox River	04-FOX-995	Aquatic Life	Low Fish IBI	
208	Fox River	04-FOX-995	Contact Recreation	Bacteria: <i>E. coli</i>	
209	French Creek	01-UIA-248	Contact Recreation	Bacteria: <i>E. coli</i>	
210	French Creek	01-UIA-248	Contact Recreation	Bacteria: <i>E. coli</i>	
211	Geode Lake	03-SKU-896	Human Health	Fish Consumption: Mercury	
212	Grade Lake	04-LDM-6311	Human Health	Fish Consumption: Mercury	
213	Granger Creek	01-TRK-127	Contact Recreation	Bacteria: <i>E. coli</i>	
214	Grannis Creek	01-VOL-322	Contact Recreation	Bacteria: <i>E. coli</i>	
215	Gustafson Lake	06-LSR-1625	Contact Recreation	Bacteria: <i>E. coli</i>	
216	Hawthorn Lake	03-NSK-862	Contact Recreation	Algal Growth: Chlorophyll a	
217	Hewett Creek	01-VOL-307	Aquatic Life	Low Macroinvertebrate IBI	
218	Hewett Creek	01-VOL-307	Aquatic Life	Temperature	
219	Hewett Creek	01-VOL-307	Contact Recreation	Bacteria: <i>E. coli</i>	
220	Hewett Creek	01-VOL-307	Contact Recreation	Bacteria: <i>E. coli</i>	
221	Hickory Creek	01-NMQ-110	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
222	Hickory Creek	01-YEL-441	Aquatic Life	Low Dissolved Oxygen	
223	Hickory Grove Lake	03-SSK-950	Contact Recreation	Algal Growth: Chlorophyll a	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
224	Hickory Grove Lake	03-SSK-950	Contact Recreation	Bacteria: <i>E. coli</i>	
225	High Lake	04-UDM-1304	Aquatic Life	Algal Growth: Chlorophyll a	
226	High Lake	04-UDM-1304	Aquatic Life	Turbidity	
227	Holland Creek	02-CED-552	Contact Recreation	Bacteria: <i>E. coli</i>	
228	Holland Creek	02-CED-6491	Contact Recreation	Bacteria: <i>E. coli</i>	
229	Honey Creek	01-MAQ-53	Contact Recreation	Bacteria: <i>E. coli</i>	
230	Honey Creek	01-MAQ-6560	Contact Recreation	Bacteria: <i>E. coli</i>	
231	Honey Creek	05-CHA-1337	Contact Recreation	Bacteria: <i>E. coli</i>	
232	Honey Creek	05-CHA-2019	Contact Recreation	Bacteria: <i>E. coli</i>	
233	Howard Creek	01-TRK-191	Contact Recreation	Bacteria: <i>E. coli</i>	
234	Indian Creek	02-CED-504	Aquatic Life	Low Macroinvertebrate IBI	
235	Indian Creek	02-CED-504	Contact Recreation	Bacteria: <i>E. coli</i>	
236	Indian Creek	02-CED-505	Contact Recreation	Bacteria: <i>E. coli</i>	
237	Indian Creek	03-SSK-943	Aquatic Life	Low Macroinvertebrate IBI	
238	Indian Creek	03-SSK-943	Contact Recreation	Bacteria: <i>E. coli</i>	
239	Indian Creek	05-NSH-1425	Aquatic Life	Low Fish & Macroinvertebrate IBIs	New
240	Indian Creek	06-BSR-1531	Contact Recreation	Bacteria: <i>E. coli</i>	
241	Iowa Lake	02-IOW-677	Contact Recreation	Bacteria: <i>E. coli</i>	
242	Iowa Lake	02-IOW-677	Human Health	Fish Consumption: Mercury	
243	Iowa River	02-IOW-624	Aquatic Life	Loss of Native Mussels	
244	Iowa River	02-IOW-633	Human Health	Fish Consumption: Mercury	
245	Iowa River	02-IOW-634	Human Health	Fish Consumption: Mercury	
246	Iowa River	02-IOW-635	Human Health	Fish Consumption: Mercury	
247	Iowa River	02-IOW-638	Human Health	Fish Consumption: Mercury	
248	Iowa River	02-IOW-639	Human Health	Fish Consumption: Mercury	
249	Iowa River	02-IOW-640	Contact Recreation	Bacteria: <i>E. coli</i>	
250	Iowa River	02-IOW-640	Human Health	Fish Consumption: Mercury	
251	Iowa River	02-IOW-641	Human Health	Fish Consumption: Mercury	
252	Iowa River	02-IOW-642	Human Health	Fish Consumption: Mercury	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
253	Iowa River	02-IOW-644	Human Health	Fish Consumption: Mercury	
254	Iowa River	02-IOW-645	Human Health	Fish Consumption: Mercury	
255	Iowa River	02-IOW-646	Human Health	Fish Consumption: Mercury	
256	Iowa River	02-IOW-647	Human Health	Fish Consumption: Mercury	
257	Iowa River	02-IOW-648	Human Health	Fish Consumption: Mercury	
258	Irish Hollow Creek	01-UIA-247	Aquatic Life	Low Macroinvertebrate IBI	
259	Jackson Creek	05-CHA-1332	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
260	Jackson Creek	05-CHA-1332	Contact Recreation	Bacteria: <i>E. coli</i>	
261	Johns Creek	01-NMQ-105	Aquatic Life	Loss of Native Mussels	
262	Johns Creek	06-LSR-1605	Aquatic Life	Low Fish IBI	
263	Jordan Creek	05-CHA-1330	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
264	Jordan Creek	05-CHA-1330	Contact Recreation	Bacteria: <i>E. coli</i>	
265	Keg Creek	06-WED-1686	Aquatic Life	Low Fish IBI	
266	Keg Creek	06-WED-1687	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
267	Kent Park Lake	02-IOW-694	Contact Recreation	Bacteria: <i>E. coli</i>	
268	Lake Ahquabi	04-LDM-1080	Contact Recreation	Algal Growth: Chlorophyll a	
269	Lake Ahquabi	04-LDM-1080	Contact Recreation	Bacteria: <i>E. coli</i>	
270	Lake Anita	05-NSH-1435	Contact Recreation	Algal Growth: Cyanobacteria	
271	Lake Darling	03-SKU-924	Contact Recreation	Bacteria: <i>E. coli</i>	
272	Lake Hendricks	01-WPS-356	Aquatic Life	pH	
273	Lake Hendricks	01-WPS-356	Contact Recreation	Algal Growth: Chlorophyll a	
274	Lake Hendricks	01-WPS-356	Contact Recreation	pH	
275	Lake Keomah	03-SSK-930	Contact Recreation	Bacteria: <i>E. coli</i>	
276	Lake Keomah	03-SSK-930	Human Health	Fish Consumption: Mercury	
277	Lake Macbride	02-IOW-629	Contact Recreation	Algal Growth: Chlorophyll a	
278	Lake Macbride	02-IOW-629	Contact Recreation	Bacteria: <i>E. coli</i>	
279	Lake Manawa	06-WEM-1711	Contact Recreation	Algal Growth: Chlorophyll a	

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280	Lake Manawa	06-WEM-1711	Contact Recreation	Turbidity	
281	Lake Miami	04-LDM-1016	Human Health	Fish Consumption: Mercury	
282	Lake Of Three Fires	05-PLA-1476	Aquatic Life	Low Dissolved Oxygen	
283	Lake Of Three Fires	05-PLA-1476	Aquatic Life	pH	
284	Lake Of Three Fires	05-PLA-1476	Contact Recreation	pH	
285	Lake Orient	05-NOD-1396	Aquatic Life	pH	
286	Lake Orient	05-NOD-1396	Contact Recreation	Algal Growth: Chlorophyll a	
287	Lake Orient	05-NOD-1396	Contact Recreation	pH	
288	Lake Pahoja	06-BSR-1532	Contact Recreation	Bacteria: <i>E. coli</i>	
289	Lake Petocka (formerly Lake Patoka)	03-SSK-1918	Aquatic Life	Fish Kill: Chlorine	
290	Lake Wapello	04-LDM-1035	Contact Recreation	Bacteria: <i>E. coli</i>	
291	Lake Wapello	04-LDM-1035	Human Health	Fish Consumption: Mercury	
292	Lime Creek	02-CED-524	Contact Recreation	Bacteria: <i>E. coli</i>	
293	Lime Creek	02-CED-525	Contact Recreation	Bacteria: <i>E. coli</i>	
294	Lindsey Creek	01-MAQ-54	Contact Recreation	Bacteria: <i>E. coli</i>	
295	Little Bear Creek	02-IOW-705	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
296	Little Cedar River	02-CED-574	Contact Recreation	Bacteria: <i>E. coli</i>	
297	Little Creek	04-UDM-6542	Contact Recreation	Bacteria: <i>E. coli</i>	
298	Little River	05-GRA-1357	Aquatic Life	Low Fish IBI	
299	Little River Watershed Lake	05-GRA-1358	Contact Recreation	Bacteria: <i>E. coli</i>	
300	Little River Watershed Lake	05-GRA-1358	Human Health	Metals: Mercury	New
301	Little Rock River	06-BSR-1798	Contact Recreation	Bacteria: <i>E. coli</i>	
302	Little Rock River	06-BSR-1799	Aquatic Life	Low Macroinvertebrate IBI	
303	Little Rock River	06-BSR-1800	Contact Recreation	Bacteria: <i>E. coli</i>	
304	Little Sioux River	06-LSR-1564	Aquatic Life	Metals: Selenium	New
305	Little Sioux River	06-LSR-1564	Contact Recreation	Bacteria: <i>E. coli</i>	
306	Little Sioux River	06-LSR-1565	Contact Recreation	Bacteria: <i>E. coli</i>	
307	Little Sioux River	06-LSR-1570	Contact Recreation	Bacteria: <i>E. coli</i>	
308	Little Sioux River	06-LSR-1573	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
309	Little Sioux River	06-LSR-1577	Contact Recreation	Bacteria: <i>E. coli</i>	
310	Little Sioux River	06-LSR-1578	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
311	Little Sioux River	06-LSR-1578	Contact Recreation	Bacteria: <i>E. coli</i>	
312	Little Sioux River	06-LSR-1579	Aquatic Life	Low Macroinvertebrate IBI	
313	Little Turkey River	01-TRK-160	Contact Recreation	Bacteria: <i>E. coli</i>	
314	Little Turkey River	01-TRK-162	Aquatic Life	Low Macroinvertebrate IBI	
315	Little Turkey River	01-TRK-162	Contact Recreation	Bacteria: <i>E. coli</i>	
316	Little Turkey River	01-TRK-162	Contact Recreation	Bacteria: <i>E. coli</i>	
317	Little Turkey River	01-TRK-163	Contact Recreation	Bacteria: <i>E. coli</i>	
318	Little Turkey River	01-TRK-207	Contact Recreation	Bacteria: <i>E. coli</i>	
319	Little Turkey River	01-TRK-208	Contact Recreation	Bacteria: <i>E. coli</i>	
320	Little Turkey River	01-TRK-209	Contact Recreation	Bacteria: <i>E. coli</i>	
321	Little Volga River	01-VOL-328	Contact Recreation	Bacteria: <i>E. coli</i>	
322	Little Volga River	01-VOL-328	Human Health	Fish Consumption: Mercury	
323	Lizard Creek	04-UDM-1278	Contact Recreation	Bacteria: <i>E. coli</i>	
324	Lizard Lake	04-UDM-1281	Aquatic Life	Low Dissolved Oxygen	New
325	Long Dick Creek	03-SSK-2007	Aquatic Life	Fish Kill: Animal Waste	
326	Long Dick Creek	03-SSK-2007	Aquatic Life	Fish Kill: Pesticides	
327	Long Dick Creek	03-SSK-2007	Contact Recreation	Bacteria: <i>E. coli</i>	
328	Long Dick Creek	03-SSK-960	Aquatic Life	Low Macroinvertebrate IBI	
329	Lotts Creek	05-GRA-1376	Aquatic Life	Low Fish IBI	
330	Lower Pine Lake	02-IOW-758	Contact Recreation	Bacteria: <i>E. coli</i>	
331	Lux Creek	01-TRK-123	Contact Recreation	Bacteria: <i>E. coli</i>	
332	Lyons Creek	04-UDM-1260	Contact Recreation	Bacteria: <i>E. coli</i>	
333	Mad Creek	01-NEM-81	Contact Recreation	Bacteria: <i>E. coli</i>	
334	Manteno Park Pond	06-BOY-1505	Contact Recreation	Algal Growth: Chlorophyll a	
335	Maple River	06-LSR-1581	Aquatic Life	Metals: Selenium	New
336	Maple River	06-LSR-1581	Contact Recreation	Bacteria: <i>E. coli</i>	
337	Maquoketa River	01-MAQ-13	Contact Recreation	Bacteria: <i>E. coli</i>	



Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
338	Maquoketa River	01-MAQ-14	Aquatic Life	Loss of Native Mussels	
339	Maquoketa River	01-MAQ-15	Aquatic Life	Loss of Native Mussels	
340	Maquoketa River	01-MAQ-15	Contact Recreation	Bacteria: <i>E. coli</i>	
341	Maquoketa River	01-MAQ-16	Aquatic Life	Low Macroinvertebrate IBI	
342	Maquoketa River	01-MAQ-16	Contact Recreation	Bacteria: <i>E. coli</i>	
343	Maquoketa River	01-MAQ-19	Contact Recreation	Bacteria: <i>E. coli</i>	
344	Marble Lake	06-LSR-1656	Aquatic Life	Algal Growth: Chlorophyll a	
345	Marrowbone Creek	04-RAC-1160	Aquatic Life	Low Dissolved Oxygen	
346	Marrowbone Creek	04-RAC-1160	Aquatic Life	Low Macroinvertebrate IBI	
347	McKinley Lake	05-PLA-1470	Human Health	Fish Consumption: PCBs	
348	McLoud Run	02-CED-508	Aquatic Life	Fish Kill: Chlorine	
349	McLoud Run	02-CED-508	Aquatic Life	Fish Kill: Unknown Toxicity	
350	McLoud Run	02-CED-508	Contact Recreation	Bacteria: <i>E. coli</i>	
351	Meyers Lake	02-CED-463	Contact Recreation	Algal Growth: Chlorophyll a	
352	Middle Fork Catfish Creek	01-TRK-128	Contact Recreation	Bacteria: <i>E. coli</i>	
353	Middle Fork Catfish Creek	01-TRK-6487	Contact Recreation	Bacteria: <i>E. coli</i>	
354	Middle Fork Grand River	05-GRA-1378	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
355	Middle Fork Grand River	05-GRA-1378	Contact Recreation	Bacteria: <i>E. coli</i>	
356	Middle Fork Little Maquoketa River (aka Bankston Cr.)	01-TRK-138	Aquatic Life	Low Macroinvertebrate IBI	
357	Middle Nodaway River	05-NOD-1400	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
358	Middle River	04-LDM-1083	Aquatic Life	Low Biological Integrity	
359	Middle River	04-LDM-1083	Contact Recreation	Bacteria: <i>E. coli</i>	
360	Milford Creek	06-LSR-1667	Aquatic Life	Low Macroinvertebrate IBI	
361	Mill Creek	06-LSR-1615	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
362	Mill Creek Lake	06-LSR-1616	Contact Recreation	Algal Growth: Chlorophyll a	
363	Miller Creek	04-LDM-1045	Aquatic Life	Fish Kill: Unknown Toxicity	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
364	Miners Creek	01-YEL-427	Aquatic Life	Low Macroinvertebrate IBI	
365	Mink Creek	01-VOL-314	Contact Recreation	Bacteria: <i>E. coli</i>	
366	Mink Creek	01-VOL-314	Contact Recreation	Bacteria: <i>E. coli</i>	
367	Minnehaha Creek	02-CED-6490	Contact Recreation	Bacteria: <i>E. coli</i>	
368	Minnewashta Lake	06-LSR-1650	Contact Recreation	Algal Growth: Chlorophyll a	
369	Minor Creek	01-UIA-283	Contact Recreation	Bacteria: <i>E. coli</i>	
370	Mississippi River	01-NEM-61	Aquatic Life	Metals: Aluminum	
371	Mississippi River	01-NEM-61	Contact Recreation	Bacteria: fecal coliform	
372	Mississippi River	01-NEM-62	Aquatic Life	Metals: Aluminum	
373	Mississippi River	01-NEM-62	Contact Recreation	Bacteria: fecal coliform	
374	Mississippi River	01-NEM-62	Human Health	Toxic Organics: PCBs	
375	Mississippi River	01-NEM-63	Contact Recreation	Bacteria: fecal coliform	
376	Mississippi River	01-NEM-64	Aquatic Life	Metals: Aluminum	
377	Mississippi River	01-NEM-70	Aquatic Life	Metals: Aluminum	
378	Mississippi River	01-NEM-75	Aquatic Life	Metals: Aluminum	
379	Mississippi River	02-ICM-619	Aquatic Life	Metals: Aluminum	
380	Mississippi River	03-SKM-884	Aquatic Life	Metals: Aluminum	
381	Missouri River	06-WEM-1707	Contact Recreation	Bacteria: <i>E. coli</i>	
382	Missouri River	06-WEM-1708	Contact Recreation	Bacteria: <i>E. coli</i>	
383	Missouri River	06-WEM-1709	Contact Recreation	Bacteria: <i>E. coli</i>	
384	Missouri River	06-WEM-1715	Contact Recreation	Bacteria: <i>E. coli</i>	
385	Missouri River	06-WEM-1720	Contact Recreation	Bacteria: <i>E. coli</i>	
386	Missouri River	06-WEM-1721	Contact Recreation	Bacteria: <i>E. coli</i>	
387	Missouri River	06-WEM-1722	Contact Recreation	Bacteria: <i>E. coli</i>	
388	Montgomery Creek	03-SSK-6508	Contact Recreation	Bacteria: <i>E. coli</i>	
389	Morgan Creek	02-CED-513	Contact Recreation	Bacteria: <i>E. coli</i>	
390	Mormon Trail Lake	05-NOD-1404	Human Health	Fish Consumption: Mercury	
391	Morse Lake	02-IOW-658	Aquatic Life	Algal Growth: Chlorophyll a	
392	Morse Lake	02-IOW-658	Aquatic Life	Turbidity	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
393	Mosquito Creek	02-CED-6489	Contact Recreation	Bacteria: <i>E. coli</i>	
394	Mosquito Creek	06-WED-1699	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
395	Mosquito Creek	06-WED-1701	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
396	Muchakinock Creek	04-LDM-1048	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
397	Muchakinock Creek	04-LDM-1049	Aquatic Life	Low Fish IBI	
398	Mud Creek	02-CED-519	Contact Recreation	Bacteria: <i>E. coli</i>	
399	Mud Creek	05-NSH-1457	Aquatic Life	Low Fish IBI	
400	Mud Creek	06-BSR-1546	Aquatic Life	Fish Kill: Animal Waste	
401	Mud Creek	06-BSR-1546	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
402	Mud Creek	06-BSR-1546	Contact Recreation	Bacteria: <i>E. coli</i>	
403	Nichols Creek (aka Bigalk Cr.)	01-UIA-284	Aquatic Life	Temperature	
404	Nichols Creek (aka Bigalk Cr.)	01-UIA-284	Contact Recreation	Bacteria: <i>E. coli</i>	
405	Nichols Creek (aka Bigalk Cr.)	01-UIA-284	Contact Recreation	Bacteria: <i>E. coli</i>	
406	Nine Eagles Lake	05-GRA-1361	Contact Recreation	Bacteria: <i>E. coli</i>	
407	Nine Eagles Lake	05-GRA-1361	Human Health	Fish Consumption: Mercury	
408	Ninemile Creek	05-CHA-1335	Aquatic Life	Low Fish IBI	
409	Ninemile Creek	05-CHA-1335	Contact Recreation	Bacteria: <i>E. coli</i>	
410	Nishnabotna River	05-NSH-1412	Contact Recreation	Bacteria: <i>E. coli</i>	
411	Nodaway Lake	05-NOD-1401	Contact Recreation	Algal Growth: Chlorophyll a	
412	Nodaway Lake	05-NOD-1401	Contact Recreation	Turbidity	New
413	Nodaway River (aka West Nodaway R.)	05-NOD-1389	Contact Recreation	Bacteria: <i>E. coli</i>	
414	Norfolk Creek	01-YEL-444	Aquatic Life	Low Dissolved Oxygen	
415	North Banner Lake	04-LDM-1988	Human Health	Fish Consumption: Mercury	
416	North Bear Creek	01-UIA-255	Contact Recreation	Bacteria: <i>E. coli</i>	
417	North Black Hawk Creek	02-CED-551	Contact Recreation	Bacteria: <i>E. coli</i>	
418	North Branch Turkey River	01-TRK-223	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
419	North Branch Volga River	01-VOL-330	Contact Recreation	Bacteria: <i>E. coli</i>	
420	North Branch Volga River	01-VOL-330	Human Health	Fish Consumption: Mercury	
421	North Fabius River	04-FAB-992	Aquatic Life	Low Fish IBI	
422	North Fork Catfish Creek	01-TRK-129	Contact Recreation	Bacteria: <i>E. coli</i>	
423	North Fork Catfish Creek	01-TRK-6486	Contact Recreation	Bacteria: <i>E. coli</i>	
424	North Fork Maquoketa River	01-NMQ-88	Aquatic Life	Fish Kill: Animal Waste	
425	North Fork Maquoketa River	01-NMQ-88	Contact Recreation	Bacteria: <i>E. coli</i>	
426	North Fork Maquoketa River	01-NMQ-90	Aquatic Life	Loss of Native Mussels	
427	North Fork Maquoketa River	01-NMQ-90	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
428	North Fork Maquoketa River	01-NMQ-90	Contact Recreation	Bacteria: <i>E. coli</i>	
429	North Fork Yellow River	01-YEL-2005	Contact Recreation	Bacteria: <i>E. coli</i>	
430	North Fork Yellow River	01-YEL-448	Aquatic Life	Low Dissolved Oxygen	
431	North Raccoon River	04-RAC-1139	Aquatic Life	Low Macroinvertebrate IBI	New
432	North River	04-LDM-1097	Aquatic Life	Low Fish IBI	
433	North River	04-LDM-1097	Contact Recreation	Bacteria: <i>E. coli</i>	
434	North Skunk River	03-NSK-853	Aquatic Life	Metals: Chromium	
435	North Skunk River	03-NSK-853	Contact Recreation	Bacteria: <i>E. coli</i>	
436	North Skunk River	03-NSK-854	Aquatic Life	Metals: Chromium	
437	North Skunk River	03-NSK-854	Contact Recreation	Bacteria: <i>E. coli</i>	
438	North Skunk River	03-NSK-859	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
439	Nutting Creek	01-TRK-205	Contact Recreation	Bacteria: <i>E. coli</i>	
440	Ocheyedan River	06-LSR-1638	Contact Recreation	Bacteria: <i>E. coli</i>	
441	Old Mans Creek	02-IOW-685	Aquatic Life	Low Macroinvertebrate IBI	New
442	Old Mans Creek	02-IOW-686	Aquatic Life	Low Fish IBI	
443	Otter Creek	01-TRK-198	Aquatic Life	Temperature	
444	Otter Creek	01-TRK-198	Contact Recreation	Bacteria: <i>E. coli</i>	
445	Otter Creek	01-TRK-198	Contact Recreation	Bacteria: <i>E. coli</i>	
446	Otter Creek	02-CED-514	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
447	Otter Creek	02-CED-594	Contact Recreation	Bacteria: <i>E. coli</i>	
448	Otter Creek	06-BSR-1545	Aquatic Life	Fish Kill: Animal Waste	
449	Otter Creek	06-BSR-1545	Aquatic Life	Fish Kill: Spill	
450	Paint Creek (aka Pine Cr.)	01-UIA-257	Contact Recreation	Bacteria: <i>E. coli</i>	
451	Palmer Creek	02-SHL-790	Aquatic Life	Fish Kill: Animal Waste	
452	Patterson Creek	01-UIA-259	Contact Recreation	Bacteria: <i>E. coli</i>	
453	Patterson Creek	01-UIA-259	Contact Recreation	Bacteria: <i>E. coli</i>	
454	Pecks Creek	01-TRK-168	Aquatic Life	Low Macroinvertebrate IBI	
455	Pecks Creek	01-TRK-168	Contact Recreation	Bacteria: <i>E. coli</i>	
456	Perry Creek	06-BSR-1527	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
457	Pickrel Lake	04-RAC-1180	Aquatic Life	Algal Growth: Chlorophyll a	
458	Pickrel Lake	04-RAC-1180	Aquatic Life	Low Dissolved Oxygen	New
459	Pickrel Lake	04-RAC-1180	Aquatic Life	Turbidity	
460	Pickrel Lake	04-RAC-1180	Contact Recreation	Algal Growth: Chlorophyll a	
461	Pickrel Lake	04-RAC-1180	Contact Recreation	Turbidity	
462	Pike Run	02-CED-485	Aquatic Life	Low Macroinvertebrate IBI	
463	Pike Run	02-CED-486	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
464	Pine Creek	01-TRK-179	Contact Recreation	Bacteria: <i>E. coli</i>	
465	Pine Creek	01-TRK-179	Contact Recreation	Bacteria: <i>E. coli</i>	
466	Pine Creek	01-TRK-6638	Contact Recreation	Bacteria: <i>E. coli</i>	
467	Pine Creek	01-UIA-278	Contact Recreation	Bacteria: <i>E. coli</i>	
468	Pine Creek	01-UIA-278	Contact Recreation	Bacteria: <i>E. coli</i>	
469	Pleasant Lake	06-LSR-1649	Aquatic Life	Algal Growth: Chlorophyll a	
470	Pleasant Lake	06-LSR-1649	Aquatic Life	Turbidity	
471	Plum Creek	01-MAQ-3040	Aquatic Life	Fish Kill: Animal Waste	New
472	Plum Creek	01-MAQ-46	Aquatic Life	Fish Kill: Animal Waste	New
473	Plum Creek	01-MAQ-46	Aquatic Life	Loss of Native Mussels	
474	Plum Creek	01-MAQ-47	Aquatic Life	Fish Kill: Animal Waste	New

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
475	Plum Creek	06-WED-1683	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
476	Point Hollow Creek (aka White Pine Cr.)	01-TRK-165	Aquatic Life	Low Macroinvertebrate IBI	
477	Point Hollow Creek (aka White Pine Cr.)	01-TRK-165	Contact Recreation	Bacteria: <i>E. coli</i>	
478	Point Hollow Creek (aka White Pine Cr.)	01-TRK-165	Contact Recreation	Bacteria: <i>E. coli</i>	
479	Pollmiller Park Lake	03-SKM-888	Human Health	Fish Consumption: Mercury	
480	Poor Farm Creek	04-RAC-1883	Aquatic Life	Fish Kill: Fuel Spill	
481	Prairie Creek	02-IOW-6396	General Use	Wastewater	
482	Prairie Creek	03-SSK-6598	Contact Recreation	Bacteria: <i>E. coli</i>	
483	Prairie Creek	04-UDM-6545	Contact Recreation	Bacteria: <i>E. coli</i>	
484	Prairie Rose Lake	05-NSH-1462	Contact Recreation	Algal Growth: Chlorophyll a	
485	Prairie Rose Lake	05-NSH-1462	Contact Recreation	Bacteria: <i>E. coli</i>	
486	Prairie Rose Lake	05-NSH-1462	Contact Recreation	Turbidity	
487	Purgatory Creek	04-RAC-1159	Aquatic Life	Fish Kill: Pesticides	
488	Ralston Creek	02-IOW-1899	Aquatic Life	Toxic Organics: Priority Organics	
489	Ralston Creek	02-IOW-1899	Contact Recreation	Toxic Organics: Priority Organics	
490	Ralston Creek	02-IOW-1899	General Use	Toxic Organics: Priority Organics	
491	Red Haw Lake	04-LDM-1073	Human Health	Fish Consumption: Mercury	
492	Red Rock Reservoir	04-LDM-1017	Contact Recreation	Bacteria: <i>E. coli</i>	
493	Red Rock Reservoir	04-LDM-1017	Contact Recreation	Turbidity	
494	Rhine Creek	02-IOW-6412	Aquatic Life	Fish Kill: Pesticides	
495	Rice Lake	02-WIN-832	Aquatic Life	pH	New
496	Rice Lake	02-WIN-832	Contact Recreation	pH	New
497	Roberts Creek	01-TRK-186	Contact Recreation	Bacteria: <i>E. coli</i>	
498	Roberts Creek	01-TRK-188	Contact Recreation	Bacteria: <i>E. coli</i>	
499	Roberts Creek Lake	04-LDM-1019	Aquatic Life	Low Dissolved Oxygen	New
500	Roberts Creek Lake	04-LDM-1019	Contact Recreation	Algal Growth: Chlorophyll a	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
501	Roberts Creek Lake	04-LDM-1019	Contact Recreation	Turbidity	
502	Robin Creek	01-NEM-6373	Contact Recreation	Bacteria: <i>E. coli</i>	
503	Rock Creek	01-MAQ-2	Aquatic Life	Low Dissolved Oxygen	
504	Rock Creek	02-CED-3026	Contact Recreation	Bacteria: <i>E. coli</i>	
505	Rock Creek	02-CED-585	Contact Recreation	Bacteria: <i>E. coli</i>	
506	Rock Creek	02-CED-586	Contact Recreation	Bacteria: <i>E. coli</i>	
507	Rock Creek	02-CED-587	Contact Recreation	Bacteria: <i>E. coli</i>	
508	Rock Creek	02-CED-588	Contact Recreation	Bacteria: <i>E. coli</i>	
509	Rock Creek Lake	03-NSK-865	Contact Recreation	Bacteria: <i>E. coli</i>	
510	Rock River	06-BSR-1534	Aquatic Life	Metals: Selenium	New
511	Rock River	06-BSR-1534	Contact Recreation	Bacteria: <i>E. coli</i>	
512	Rock River	06-BSR-1537	Contact Recreation	Bacteria: <i>E. coli</i>	
513	Rock River	06-BSR-1538	Contact Recreation	Bacteria: <i>E. coli</i>	
514	Rodgers Park Lake	02-CED-526	Aquatic Life	Low Dissolved Oxygen	
515	Roff Creek	02-IOW-6403	General Use	Wastewater	
516	Rogers Creek	01-TRK-218	Contact Recreation	Bacteria: <i>E. coli</i>	
517	Rutherford Branch	01-MAQ-6561	Contact Recreation	Bacteria: <i>E. coli</i>	
518	Sands Timber Lake (aka Blockton Reservoir)	05-PLA-2064	Aquatic Life	Turbidity	
519	Saunders Branch	03-SKU-902	Aquatic Life	Low Dissolved Oxygen	
520	Saunders Branch	03-SKU-902	Aquatic Life	Toxic Inorganics: Ammonia	
521	Saunders Branch	03-SKU-902	Aquatic Life	Toxic Organics: Coal Tar	
522	Saylorville Reservoir	04-UDM-1213	Contact Recreation	Aesthetics	New
523	Saylorville Reservoir	04-UDM-1213	Contact Recreation	Turbidity	
524	Shell Rock River	02-SHL-782	Human Health	Fish Consumption: Mercury	
525	Shell Rock River	02-SHL-783	Contact Recreation	Bacteria: <i>E. coli</i>	
526	Shell Rock River	02-SHL-783	Human Health	Fish Consumption: Mercury	
527	Shell Rock River	02-SHL-784	Human Health	Fish Consumption: Mercury	
528	Shell Rock River	02-SHL-787	Contact Recreation	Bacteria: <i>E. coli</i>	
529	Shrickers Slough	01-MAQ-1	Aquatic Life	Algal Growth: Chlorophyll a	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
530	Shrickers Slough	01-MAQ-1	Aquatic Life	Turbidity	
531	Siewers Spring	01-UIA-6596	Contact Recreation	Bacteria: <i>E. coli</i>	
532	Silver Creek	01-MAQ-44	Aquatic Life	Loss of Native Mussels	
533	Silver Creek	01-TRK-192	Aquatic Life	Low Dissolved Oxygen	
534	Silver Creek	01-TRK-192	Contact Recreation	Bacteria: <i>E. coli</i>	
535	Silver Creek	01-TRK-2057	Contact Recreation	Bacteria: <i>E. coli</i>	
536	Silver Creek	01-UIA-250	Contact Recreation	Bacteria: <i>E. coli</i>	
537	Silver Creek	01-UIA-250	Contact Recreation	Bacteria: <i>E. coli</i>	
538	Silver Creek	01-UIA-282	Contact Recreation	Bacteria: <i>E. coli</i>	
539	Silver Creek	05-NSH-1454	Aquatic Life	Low Fish IBI	
540	Silver Lake	02-SHL-796	Aquatic Life	pH	
541	Silver Lake	02-SHL-796	Contact Recreation	pH	
542	Silver Lake	04-UDM-1229	Aquatic Life	pH	
543	Silver Lake	04-UDM-1229	Contact Recreation	pH	
544	Sixmile Creek	06-BSR-1533	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
545	Sixmile Creek	06-BSR-1533	Contact Recreation	Bacteria: <i>E. coli</i>	
546	Skillet Creek	04-UDM-1250	Aquatic Life	Low Biological Integrity	
547	Skunk River	03-SKU-889	Contact Recreation	Bacteria: <i>E. coli</i>	
548	Slough Creek	02-CED-6565	Contact Recreation	Bacteria: <i>E. coli</i>	
549	Snyder Bend Lake	06-WEM-1734	Contact Recreation	Algal Growth: Chlorophyll a	
550	Snyder Bend Lake	06-WEM-1734	Contact Recreation	Turbidity	
551	Soap Creek	04-LDM-1033	Aquatic Life	Low Fish IBI	
552	Soldier River	06-SOL-1673	Aquatic Life	Low Macroinvertebrate IBI	
553	Soldier River	06-SOL-1673	Contact Recreation	Bacteria: <i>E. coli</i>	
554	South Banner Lake	04-LDM-1085	Human Health	Fish Consumption: Mercury	
555	South Big Creek	03-SKU-6271	Aquatic Life	Fish Kill: Pesticides	
556	South Cedar Creek (aka Cedar Cr.)	01-TRK-171	Contact Recreation	Bacteria: <i>E. coli</i>	
557	South Fork Catfish Creek	01-TRK-130	Contact Recreation	Bacteria: <i>E. coli</i>	
558	South Fork Catfish Creek	01-TRK-130	Contact Recreation	Bacteria: <i>E. coli</i>	



Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
559	South Fork Chariton River	05-CHA-1327	Aquatic Life	Low Fish IBI	
560	South Fork Chariton River	05-CHA-1327	Contact Recreation	Bacteria: <i>E. coli</i>	
561	South Fork Chariton River	05-CHA-1328	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
562	South Fork Chariton River	05-CHA-1328	Contact Recreation	Bacteria: <i>E. coli</i>	
563	South Fork Iowa River	02-IOW-746	Aquatic Life	Low Dissolved Oxygen	
564	South Fork Iowa River	02-IOW-748	Aquatic Life	Low Macroinvertebrate IBI	
565	South Fork Iowa River	02-IOW-750	Aquatic Life	Fish Kill: Silage Runoff	
566	South Prairie Lake	02-CED-962	Aquatic Life	pH	
567	South Raccoon River	04-RAC-1181	Contact Recreation	Bacteria: <i>E. coli</i>	
568	South Raccoon River	04-RAC-1183	Aquatic Life	Fish Kill: Fertilizer Spill	
569	South River	04-LDM-1074	Contact Recreation	Bacteria: <i>E. coli</i>	
570	South Skunk River	03-SSK-926	Contact Recreation	Bacteria: <i>E. coli</i>	
571	South Skunk River	03-SSK-927	Contact Recreation	Bacteria: <i>E. coli</i>	
572	South Skunk River	03-SSK-931	Contact Recreation	Bacteria: <i>E. coli</i>	
573	South Skunk River	03-SSK-934	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
574	South Skunk River	03-SSK-934	Contact Recreation	Bacteria: <i>E. coli</i>	
575	South Skunk River	03-SSK-935	Aquatic Life	Low Macroinvertebrate IBI	
576	South Twin Lake	04-RAC-1168	Aquatic Life	Algal Growth: Chlorophyll a	
577	South Twin Lake	04-RAC-1168	Aquatic Life	Turbidity	
578	Spencer Creek	01-NEM-87	Aquatic Life	Fish Kill: Unknown Toxicity	New
579	Spring Creek	02-CED-589	Contact Recreation	Bacteria: <i>E. coli</i>	
580	Spring Creek	02-CED-589	Contact Recreation	Bacteria: <i>E. coli</i>	
581	Spring Creek	02-CED-6566	Contact Recreation	Bacteria: <i>E. coli</i>	
582	Springbrook Lake	04-RAC-1196	Contact Recreation	Algal Growth: Chlorophyll a	
583	Springbrook Lake	04-RAC-1196	Contact Recreation	Bacteria: <i>E. coli</i>	
584	Staff Creek	01-UIA-288	Contact Recreation	Bacteria: <i>E. coli</i>	
585	Staff Creek	01-UIA-288	Contact Recreation	Bacteria: <i>E. coli</i>	
586	Stafford Creek	01-NEM-6370	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
587	Steeles Branch	01-TRK-178	Contact Recreation	Bacteria: <i>E. coli</i>	
588	Steeles Branch	01-TRK-178	Contact Recreation	Bacteria: <i>E. coli</i>	
589	Steeles Branch	01-TRK-6568	Contact Recreation	Bacteria: <i>E. coli</i>	
590	Stony Creek	06-LSR-1644	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
591	Storm Lake	04-RAC-1143	Contact Recreation	Bacteria: <i>E. coli</i>	
592	Sugar Creek	02-CED-489	Aquatic Life	Low Macroinvertebrate IBI	
593	Summit Lake	05-PLA-1471	Aquatic Life	Low Dissolved Oxygen	
594	Suttle Creek	01-YEL-439	Aquatic Life	Low Dissolved Oxygen	
595	Suttle Creek	01-YEL-439	Aquatic Life	Low Macroinvertebrate IBI	
596	Swan Lake	04-RAC-1199	Aquatic Life	Low Dissolved Oxygen	
597	Swan Lake	04-UDM-1232	Aquatic Life	Algal Growth: Chlorophyll a	New
598	Swan Lake	04-UDM-1232	Aquatic Life	pH	New
599	Swan Lake	04-UDM-1232	Aquatic Life	Sedimentation/Siltation	New
600	Ten Mile Creek	01-UIA-274	Aquatic Life	Low Macroinvertebrate IBI	
601	Ten Mile Creek	01-UIA-274	Contact Recreation	Bacteria: <i>E. coli</i>	
602	Tetes Des Morts Creek	01-TRK-121	Aquatic Life	Low Macroinvertebrate IBI	
603	Tetes Des Morts Creek	01-TRK-121	Contact Recreation	Bacteria: <i>E. coli</i>	
604	Tetes Des Morts Creek	01-TRK-121	Contact Recreation	Bacteria: <i>E. coli</i>	
605	Tetes Des Morts Creek	01-TRK-122	Contact Recreation	Bacteria: <i>E. coli</i>	
606	Thompson River	05-GRA-1351	Contact Recreation	Bacteria: <i>E. coli</i>	
607	Troublesome Creek	05-NSH-1436	Aquatic Life	Low Fish IBI	
608	Trout Creek	01-UIA-266	Contact Recreation	Bacteria: <i>E. coli</i>	
609	Trout Creek	01-UIA-266	Contact Recreation	Bacteria: <i>E. coli</i>	
610	Trout Creek (aka Trout Run)	01-UIA-269	Aquatic Life	Low Macroinvertebrate IBI	
611	Trout Creek (aka Trout Run)	01-UIA-269	Contact Recreation	Bacteria: <i>E. coli</i>	
612	Trout Creek (aka Trout Run)	01-UIA-269	Contact Recreation	Bacteria: <i>E. coli</i>	
613	Turkey Creek	04-UDM-6543	Contact Recreation	Bacteria: <i>E. coli</i>	
614	Turkey River	01-TRK-148	Contact Recreation	Bacteria: <i>E. coli</i>	
615	Turkey River	01-TRK-148	Human Health	Fish Consumption: Mercury	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
616	Turkey River	01-TRK-149	Contact Recreation	Bacteria: <i>E. coli</i>	
617	Turkey River	01-TRK-152	Contact Recreation	Bacteria: <i>E. coli</i>	
618	Turkey River	01-TRK-153	Contact Recreation	Bacteria: <i>E. coli</i>	
619	Turkey River	01-TRK-154	Contact Recreation	Bacteria: <i>E. coli</i>	
620	Turkey River	01-TRK-156	Contact Recreation	Bacteria: <i>E. coli</i>	
621	Turtle Creek	02-CED-590	Contact Recreation	Bacteria: <i>E. coli</i>	
622	Twelve Mile Creek Lake	05-GRA-1367	Aquatic Life	Low Dissolved Oxygen	
623	Twelve-mile Lake	04-UDM-1231	Aquatic Life	Algal Growth: Chlorophyll a	
624	Twelve-mile Lake	04-UDM-1231	Aquatic Life	Turbidity	
625	Twin Springs Creek	01-UIA-273	Contact Recreation	Bacteria: <i>E. coli</i>	
626	Unnamed Creek (aka Casey Spring Cr.)	01-UIA-275	Contact Recreation	Bacteria: <i>E. coli</i>	
627	Unnamed Creek (aka Hecker Cr.)	01-YEL-447	Aquatic Life	Dissolved Solids: Chloride	
628	Unnamed Creek (aka Hecker Cr.)	01-YEL-447	Aquatic Life	Fish Kill: Unknown Toxicity	
629	Unnamed Creek (aka Hecker Cr.)	01-YEL-447	Aquatic Life	Low Fish IBI	
630	Unnamed Creek (aka Ludlow Creek)	01-YEL-446	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
631	Unnamed Creek (aka Volga Lake Outlet)	01-VOL-325	Contact Recreation	Bacteria: <i>E. coli</i>	
632	Unnamed Creek (near Eddyville)	04-LDM-1046	Aquatic Life	Fish Kill: Wastewater	
633	Unnamed Creek (near Hazleton)	01-WPS-394	Aquatic Life	Fish Kill: Animal Waste	
634	Unnamed Tributary to Bass Creek	01-TRK-1885	Aquatic Life	Fish Kill: Animal Waste	
635	Unnamed Tributary to Big Creek	04-UDM-6541	Contact Recreation	Bacteria: <i>E. coli</i>	
636	Unnamed Tributary to Big Creek	04-UDM-6544	Contact Recreation	Bacteria: <i>E. coli</i>	
637	Unnamed Tributary to Brush Creek	03-SKU-6410	General Use	Wastewater	
638	Unnamed Tributary to Brushy Creek (Halburn Creek)	04-RAC-6537	Aquatic Life	Fish Kill: Fertilizer Spill	
639	Unnamed Tributary to Catfish Creek	01-TRK-6408	General Use	Wastewater	
640	Unnamed Tributary to Cedar Creek	03-SKU-6573	Contact Recreation	Bacteria: <i>E. coli</i>	
641	Unnamed Tributary to Cedar Creek	03-SKU-6581	Contact Recreation	Bacteria: <i>E. coli</i>	
642	Unnamed Tributary to Cedar Creek	03-SKU-6585	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
643	Unnamed Tributary to Cedar River	02-CED-6594	Contact Recreation	Bacteria: <i>E. coli</i>	
644	Unnamed Tributary to Dry Run	02-CED-6294	Contact Recreation	Bacteria: <i>E. coli</i>	
645	Unnamed Tributary to Dry Run Creek	01-UIA-6557	Contact Recreation	Bacteria: <i>E. coli</i>	
646	Unnamed Tributary to Dry Run Creek	01-UIA-6558	Contact Recreation	Bacteria: <i>E. coli</i>	
647	Unnamed Tributary to Dry Run Creek	01-UIA-6600	Contact Recreation	Bacteria: <i>E. coli</i>	
648	Unnamed Tributary to Lake Geode	03-SKU-6591	Contact Recreation	Bacteria: <i>E. coli</i>	
649	Unnamed Tributary to Lake Hendricks	01-WPS-6457	Contact Recreation	Bacteria: <i>E. coli</i>	
650	Unnamed Tributary to Lime Creek	02-CED-6432	Contact Recreation	Bacteria: <i>E. coli</i>	
651	Unnamed Tributary to Little Maquoketa River	01-TRK-6612	Aquatic Life	Fish Kill: Ammonia	
652	Unnamed Tributary to Little Rock River	06-BSR-1934	Aquatic Life	Fish Kill: Unknown Toxicity	
653	Unnamed Tributary to Little Sioux River	06-LSR-6342	Aquatic Life	Fish Kill: Animal Waste	
654	Unnamed Tributary to Maquoketa River	01-MAQ-1963	Aquatic Life	Fish Kill: Fertilizer Spill	
655	Unnamed Tributary to Muddy Creek	02-IOW-6588	Aquatic Life	Low Dissolved Oxygen	
656	Unnamed Tributary to North Fork Yellow River	01-YEL-3066	Contact Recreation	Bacteria: <i>E. coli</i>	
657	Unnamed Tributary to Otter Creek	01-TRK-6620	Aquatic Life	Fish Kill: Pesticides	
658	Unnamed Tributary to Ralston Creek	02-IOW-6300	Aquatic Life	Fish Kill: Unknown Toxicity	
659	Unnamed Tributary to Rathbun Reservoir	05-CHA-1915	Aquatic Life	Fish Kill: Fuel Spill	
660	Unnamed Tributary to Rock Creek	02-CED-3027	Contact Recreation	Bacteria: <i>E. coli</i>	
661	Unnamed Tributary to Silver Creek	01-UIA-6569	Contact Recreation	Bacteria: <i>E. coli</i>	
662	Unnamed Tributary to Snyder Creek	02-IOW-6401	General Use	Wastewater	
663	Unnamed Tributary to Spring Creek	02-CED-6567	Aquatic Life	Low Dissolved Oxygen	
664	Unnamed Tributary to Spring Creek	02-CED-6567	Aquatic Life	Toxic Inorganics: Ammonia	
665	Unnamed Tributary to Spring Creek	02-CED-6567	Contact Recreation	Bacteria: <i>E. coli</i>	
666	Unnamed Tributary to Squaw Creek	03-SSK-6599	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
667	Unnamed Tributary to Tetes Des Morts Creek	01-TRK-6580	Contact Recreation	Bacteria: <i>E. coli</i>	
668	Unnamed Tributary to Tetes Des Morts Creek	01-TRK-6589	Contact Recreation	Bacteria: <i>E. coli</i>	
669	Unnamed Tributary to Turkey River	01-TRK-6460	Contact Recreation	Bacteria: <i>E. coli</i>	New
670	Unnamed Tributary to Turkey River	01-TRK-6562	Aquatic Life	pH	
671	Unnamed Tributary to Turkey River	01-TRK-6562	Contact Recreation	pH	
672	Unnamed Tributary to Unnamed Tributary to Silver Creek	01-TRK-2058	Aquatic Life	Toxic Inorganics: Ammonia	
673	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	01-UIA-6554	Contact Recreation	Bacteria: <i>E. coli</i>	
674	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	01-UIA-6555	Contact Recreation	Bacteria: <i>E. coli</i>	
675	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	01-UIA-6556	Contact Recreation	Bacteria: <i>E. coli</i>	
676	Unnamed Tributary to Unnamed Tributary to Silver Creek	01-TRK-2058	Contact Recreation	Bacteria: <i>E. coli</i>	
677	Unnamed Tributary to Unnamed Tributary to Yellow River	01-YEL-6575	Aquatic Life	pH	
678	Unnamed Tributary to Unnamed Tributary to Yellow River	01-YEL-6575	Contact Recreation	Bacteria: <i>E. coli</i>	
679	Unnamed Tributary to Unnamed Tributary to Yellow River	01-YEL-6575	Contact Recreation	pH	
680	Unnamed Tributary to Upper Iowa River	01-UIA-6597	Contact Recreation	Bacteria: <i>E. coli</i>	
681	Unnamed Tributary to Waterloo Creek	01-UIA-6570	Contact Recreation	Bacteria: <i>E. coli</i>	
682	Unnamed Tributary to West Branch Wapsinoc Creek (aka Hoover Creek)	02-CED-6262	Contact Recreation	Bacteria: <i>E. coli</i>	
683	Unnamed Tributary to West Fork Cedar River	02-WFC-2075	Aquatic Life	Fish Kill: Unknown Toxicity	
684	Unnamed Tributary to Yellow River	01-YEL-2059	Aquatic Life	pH	
685	Unnamed Tributary to Yellow River	01-YEL-2059	Contact Recreation	Bacteria: <i>E. coli</i>	
686	Unnamed Tributary to Yellow River	01-YEL-2059	Contact Recreation	pH	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
687	Unnamed Tributary to Yellow River	01-YEL-6574	Aquatic Life	pH	
688	Unnamed Tributary to Yellow River	01-YEL-6574	Contact Recreation	Bacteria: <i>E. coli</i>	
689	Unnamed Tributary to Yellow River	01-YEL-6574	Contact Recreation	pH	
690	Unnamed Tributary to Yellow River	01-YEL-6582	Aquatic Life	pH	
691	Unnamed Tributary to Yellow River	01-YEL-6582	Contact Recreation	Bacteria: <i>E. coli</i>	
692	Unnamed Tributary to Yellow River	01-YEL-6582	Contact Recreation	pH	
693	Upper Iowa River	01-UIA-236	Contact Recreation	Bacteria: <i>E. coli</i>	
694	Upper Iowa River	01-UIA-237	Contact Recreation	Bacteria: <i>E. coli</i>	
695	Upper Iowa River	01-UIA-237	Human Health	Fish Consumption: Mercury	
696	Upper Iowa River	01-UIA-238	Human Health	Fish Consumption: Mercury	New
697	Upper Iowa River	01-UIA-239	Aquatic Life	Loss of Native Mussels	
698	Upper Iowa River	01-UIA-239	Contact Recreation	Bacteria: <i>E. coli</i>	
699	Upper Iowa River	01-UIA-239	Human Health	Fish Consumption: Mercury	New
700	Upper Iowa River	01-UIA-241	Aquatic Life	Loss of Native Mussels	
701	Upper Iowa River	01-UIA-241	Contact Recreation	Bacteria: <i>E. coli</i>	
702	Virgin Lake	06-LSR-1630	Aquatic Life	Algal Growth: Chlorophyll a	
703	Virgin Lake	06-LSR-1630	Aquatic Life	Turbidity	
704	Volga River	01-VOL-291	Human Health	Fish Consumption: Mercury	
705	Volga River	01-VOL-294	Human Health	Fish Consumption: Mercury	
706	Volga River	01-VOL-295	Human Health	Fish Consumption: Mercury	
707	Volga River	01-VOL-296	Contact Recreation	Bacteria: <i>E. coli</i>	
708	Walker Branch	05-CHA-1329	Contact Recreation	Bacteria: <i>E. coli</i>	
709	Walnut Creek	01-WPS-372	Aquatic Life	Fish Kill: Animal Waste	
710	Walnut Creek	02-IOW-708	Aquatic Life	Low Macroinvertebrate IBI	
711	Walnut Creek	02-IOW-709	Aquatic Life	Low Fish IBI	
712	Walnut Creek	03-SSK-953	Aquatic Life	Low Fish IBI	
713	Wapsipinicon River	01-WPS-332	Contact Recreation	Bacteria: <i>E. coli</i>	
714	Wapsipinicon River	01-WPS-333	Contact Recreation	Bacteria: <i>E. coli</i>	
715	Wapsipinicon River	01-WPS-335	Contact Recreation	Bacteria: <i>E. coli</i>	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
716	Wapsipinicon River	01-WPS-336	Contact Recreation	Bacteria: <i>E. coli</i>	
717	Wapsipinicon River	01-WPS-340	Contact Recreation	Bacteria: <i>E. coli</i>	
718	Wapsipinicon River	01-WPS-343	Contact Recreation	Bacteria: <i>E. coli</i>	
719	Wapsipinicon River	01-WPS-354	Aquatic Life	Fish Kill: Unknown Toxicity	
720	Wapsipinicon River	01-WPS-354	Aquatic Life	Low Biological Integrity	
721	Wapsipinicon River	01-WPS-354	Contact Recreation	Bacteria: <i>E. coli</i>	
722	Wapsipinicon River	01-WPS-354	Contact Recreation	Bacteria: <i>E. coli</i>	
723	Waterloo Creek	01-UIA-253	Contact Recreation	Bacteria: <i>E. coli</i>	
724	Waterloo Creek	01-UIA-253	Contact Recreation	Bacteria: <i>E. coli</i>	
725	Weldon River	05-GRA-1356	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
726	West Branch Buttrick Creek	04-RAC-1151	Aquatic Life	Low Macroinvertebrate IBI	New
727	West Branch Floyd River	06-FLO-1558	Aquatic Life	Fish Kill: Cause Unknown	
728	West Branch Floyd River	06-FLO-1558	Aquatic Life	Low Fish IBI	
729	West Branch One Hundred And Two River	05-PLA-1480	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
730	West Branch Pine Creek	01-WPS-6618	Aquatic Life	Fish Kill: Animal Waste	
731	West Branch Wapsinonoc	02-CED-6264	Contact Recreation	Bacteria: <i>E. coli</i>	
732	West Fork Cedar River	02-WFC-801	Contact Recreation	Bacteria: <i>E. coli</i>	
733	West Fork Little Sioux River	06-LSR-1598	Contact Recreation	Bacteria: <i>E. coli</i>	
734	West Fork Little Sioux River	06-LSR-1599	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
735	West Fork Little Sioux River	06-LSR-1834	Aquatic Life	Fish Kill: Unknown Toxicity	
736	West Jackson Creek	05-CHA-1333	Aquatic Life	Low Macroinvertebrate IBI	
737	West Nishnabotna River	05-NSH-1441	Contact Recreation	Bacteria: <i>E. coli</i>	
738	West Nishnabotna River	05-NSH-1446	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
739	West Nishnabotna River	05-NSH-1447	Aquatic Life	Fish Kill: Animal Waste	
740	West Okoboji Lake - Emersons Bay	06-LSR-2066	Contact Recreation	Bacteria: <i>E. coli</i>	
741	West Otter Creek	04-UDM-1270	Aquatic Life	Fish Kill: Unknown Toxicity	

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
742	West Swan Lake	04-UDM-1754	Aquatic Life	Algal Growth: Chlorophyll a	
743	West Swan Lake	04-UDM-1754	Aquatic Life	Turbidity	
744	West Tarkio Creek	05-TAR-1497	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
745	West Twin Lake	02-IOW-778	Aquatic Life	Algal Growth: Chlorophyll a	
746	West Twin Lake	02-IOW-778	Aquatic Life	pH	New
747	West Twin Lake	02-IOW-778	Aquatic Life	Turbidity	
748	White Breast Creek	04-LDM-1059	Contact Recreation	Bacteria: <i>E. coli</i>	
749	White Breast Creek	04-LDM-1825	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
750	White Oak Conservation Area Lake	03-SSK-929	Contact Recreation	Algal Growth: Chlorophyll a	
751	White Oak Conservation Area Lake	03-SSK-929	Contact Recreation	Turbidity	New
752	Whitewater Creek	01-NMQ-103	Aquatic Life	Fish Kill: Animal Waste	
753	Whitewater Creek	01-NMQ-103	Aquatic Life	Loss of Native Mussels	
754	Whitewater Creek	01-NMQ-103	Contact Recreation	Bacteria: <i>E. coli</i>	
755	Whitewater Creek	01-NMQ-104	Aquatic Life	Fish Kill: Animal Waste	
756	Willow Creek	02-CED-6593	Contact Recreation	Bacteria: <i>E. coli</i>	
757	Willow Creek	06-FLO-1829	Aquatic Life	Fish Kill: Unknown Toxicity	
758	Willow Creek	06-LSR-1611	Aquatic Life	Low Macroinvertebrate IBI	
759	Willow Creek	06-LSR-1626	Aquatic Life	Low Macroinvertebrate IBI	
760	Willow Creek	06-LSR-1626	Contact Recreation	Bacteria: <i>E. coli</i>	
761	Willow Creek	06-LSR-6299	Contact Recreation	Bacteria: <i>E. coli</i>	
762	Wilson Park Lake	05-PLA-1477	Contact Recreation	Algal Growth: Chlorophyll a	
763	Winnebago River	02-WIN-826	Contact Recreation	Bacteria: <i>E. coli</i>	
764	Winnebago River	02-WIN-827	Contact Recreation	Bacteria: <i>E. coli</i>	
765	Winnebago River	02-WIN-831	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
766	Wolf Creek	02-CED-530	Contact Recreation	Bacteria: <i>E. coli</i>	
767	Wolf Creek	03-SSK-6626	Aquatic Life	Fish Kill: Unknown Toxicity	



Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	New Listing
768	Wolf Creek	05-CHA-1339	Aquatic Life	Low Fish & Macroinvertebrate IBIs	
769	Wolf Creek	05-CHA-1339	Contact Recreation	Bacteria: <i>E. coli</i>	
770	Wonder Creek	01-TRK-219	Contact Recreation	Bacteria: <i>E. coli</i>	
771	Yellow River	01-YEL-2060	Aquatic Life	pH	
772	Yellow River	01-YEL-2060	Contact Recreation	Bacteria: <i>E. coli</i>	
773	Yellow River	01-YEL-2060	Contact Recreation	pH	
774	Yellow River	01-YEL-435	Aquatic Life	Low Fish IBI	
775	Yellow River	01-YEL-436	Aquatic Life	Fish Kill: Unknown Toxicity	
776	Yellow River	01-YEL-437	Aquatic Life	Low Fish IBI	
777	Yellow River	01-YEL-437	Aquatic Life	pH	
778	Yellow River	01-YEL-437	Contact Recreation	pH	

Table 2. The EPA-approved 2020 CWA Section 303(d) List delistings and rationales.

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	2020 Delisting Rationale
1	Avenue of the Saints Lake	02-SHL-1790	Aquatic Life	Algal Growth: Chlorophyll a	EPA-approved TMDL
2	Avenue of the Saints Lake	02-SHL-1790	Aquatic Life	pH	EPA-approved TMDL
3	Avenue of the Saints Lake	02-SHL-1790	Aquatic Life	Turbidity	EPA-approved TMDL
4	Bailey Creek	02-WFC-820	Aquatic Life	Fish Kill: Pesticides	New data supports change in listing
5	Beaver Creek	02-IOW-6362	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
6	Beaver Creek	02-IOW-753	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
7	Beaver Creek	02-WIN-1837	Aquatic Life	Low Dissolved Oxygen	Listing error
8	Beaver Creek	04-UDM-1233	Aquatic Life	Aquatic Macroinvertebrate	New data supports change in listing
9	Bennett Creek	02-IOW-6263	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
10	Big Spirit Lake	06-LSR-1655	Contact Recreation	Bacteria: <i>E. coli</i>	New data supports change in listing
11	Bluewing Marsh	06-LSR-1775	Aquatic Life	Algal Growth: Chlorophyll a	New data supports change in listing
12	Bohemian Creek	01-TRK-221	Aquatic Life	Temperature	Listing error
13	Cedar River	02-CED-456	Aquatic Life	pH	New data supports change in listing
14	Cedar River	02-CED-456	Contact Recreation	pH	New data supports change in listing
15	Cedar River	02-CED-457	Aquatic Life	pH	New data supports change in listing

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	2020 Delisting Rationale
16	Cedar River	02-CED-457	Contact Recreation	pH	New data supports change in listing
17	Deer Creek	02-IOW-6538	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
18	Don Williams Lake	04-UDM-1249	Contact Recreation	Bacteria: <i>E. coli</i>	New data supports change in listing
19	Drainage Ditch 13	02-IOW-6550	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
20	Drainage Ditch 81	02-IOW-6551	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
21	East Branch Iowa River	02-IOW-769	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
22	East Branch Iowa River	02-IOW-771	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
23	East Lake (Osceola)	04-LDM-1065	Aquatic Life	pH	New data supports change in listing
24	East Lake (Osceola)	04-LDM-1065	Contact Recreation	pH	New data supports change in listing
25	East Tributary to Union Grove Lake	02-IOW-6539	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
26	Eldred Sherwood Lake	02-IOW-773	Contact Recreation	Algal Growth: Chlorophyll a	EPA-approved TMDL
27	English River	02-IOW-671	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
28	Galls Creek	02-IOW-774	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
29	Green Valley Lake	05-PLA-1472	Aquatic Life	Low Dissolved Oxygen	EPA-approved TMDL
30	Green Valley Lake	05-PLA-1472	Contact Recreation	Algal Growth: Chlorophyll a	EPA-approved TMDL
31	Green Valley Lake	05-PLA-1472	Contact Recreation	Turbidity	EPA-approved TMDL
32	Hickory Creek	01-NMQ-110	Aquatic Life	Fish Kill: Animal Waste	Enforcement action addresses fish kill
33	Iowa River	02-IOW-621	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
34	Iowa River	02-IOW-622	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
35	Iowa River	02-IOW-623	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
36	Iowa River	02-IOW-624	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
37	Iowa River	02-IOW-627	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
38	Iowa River	02-IOW-633	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
39	Iowa River	02-IOW-641	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
40	Iowa River	02-IOW-642	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
41	Iowa River	02-IOW-646	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
42	Iowa River	02-IOW-651	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
43	Lake Keomah	03-SSK-930	Aquatic Life	Low Dissolved Oxygen	New data supports change in listing
44	Lake Wapello	04-LDM-1035	Contact Recreation	Turbidity	New data supports change in listing

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	2020 Delisting Rationale
45	Little Bear Creek	02-IOW-6563	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
46	Little Bear Creek	02-IOW-705	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
47	Little Bear Creek	02-IOW-706	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
48	Lizard Creek	04-UDM-1278	Aquatic Life	Aquatic Macroinvertebrate	New data supports change in listing
49	Lizard Lake	04-UDM-1281	Aquatic Life	Algal Growth: Chlorophyll a	New data supports change in listing
50	Lizard Lake	04-UDM-1281	Aquatic Life	Turbidity	New data supports change in listing
51	Lyons Creek	04-UDM-1260	Aquatic Life	Fish Kill: Unknown Toxicity	New data supports change in listing
52	Meadow Lake	04-LDM-1089	Contact Recreation	Algal Growth: Chlorophyll a	EPA-approved TMDL
53	Muddy Creek	02-IOW-2043	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
54	North Twin Lake	04-RAC-1167	Contact Recreation	Bacteria: <i>E. coli</i>	New data supports change in listing
55	Old Mans Creek	02-IOW-686	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
56	Pleasant Creek Lake	02-CED-459	Contact Recreation	Bacteria: <i>E. coli</i>	New data supports change in listing
57	Price Creek	02-IOW-6377	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
58	Price Creek	02-IOW-699	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
59	Rathbun Reservoir - Chariton Arm	05-CHA-2028	Aquatic Life	Turbidity	EPA-approved TMDL
60	Rathbun Reservoir - Chariton Arm	05-CHA-2028	Contact Recreation	Turbidity	EPA-approved TMDL
61	Rathbun Reservoir - Honey Creek Arm	05-CHA-2030	Contact Recreation	Turbidity	EPA-approved TMDL
62	Rathbun Reservoir - Main Basin	05-CHA-1309	Contact Recreation	Turbidity	EPA-approved TMDL
63	Rathbun Reservoir - South Fork Arm	05-CHA-2027	Aquatic Life	Turbidity	EPA-approved TMDL
64	Rathbun Reservoir - South Fork Arm	05-CHA-2027	Contact Recreation	Turbidity	EPA-approved TMDL
65	Raven Creek	02-IOW-723	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
66	Rice Lake	02-WIN-832	Aquatic Life	Algal Growth: Chlorophyll a	New data supports change in listing
67	Rice Lake	02-WIN-832	Aquatic Life	Turbidity	New data supports change in listing
68	Rice Lake	02-WIN-832	Contact Recreation	Algal Growth: Chlorophyll a	New data supports change in listing
69	Rock River	06-BSR-1534	Aquatic Life	Fish Kill: Animal Waste	New data supports change in listing
70	Shell Rock River	02-SHL-787	Aquatic Life	Low Dissolved Oxygen	New data supports change in listing

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	2020 Delisting Rationale
71	South Beaver Creek	02-IOW-6363	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
72	South Fork Iowa River	02-IOW-746	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
73	South Fork Iowa River	02-IOW-749	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
74	South Fork Iowa River	02-IOW-750	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
75	South Fork Iowa River	02-IOW-751	Aquatic Life	Fish Kill: Cause Unknown	New data supports change in listing
76	South Fork Iowa River	02-IOW-751	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
77	South Fork Iowa River	02-IOW-752	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
78	Tipton Creek	02-IOW-754	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
79	Tipton Creek	02-IOW-755	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
80	Unnamed Tributary to East Branch Iowa River	02-IOW-6559	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
81	Unnamed Tributary to Muddy Creek	02-IOW-6588	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
82	Unnamed Tributary to Tipton Creek	02-IOW-6364	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
83	Unnamed Tributary to Unnamed Tributary to Des Moines River	04-UDM-6625	Aquatic Life	Fish Kill: Pesticides	Enforcement action addresses fish kill
84	Unnamed Tributary to Walnut Creek	02-IOW-6317	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
85	Unnamed Tributary to Walnut Creek	02-IOW-6318	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
86	Unnamed Tributary to Walnut Creek	02-IOW-6590	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
87	Unnamed Tributary to Willow Creek	02-IOW-6587	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
88	Upper Iowa River	01-UIA-236	Human Health	Fish Consumption Advisory: Mercury	Listing error
89	Viking Lake	05-NOD-1407	Contact Recreation	Bacteria: <i>E. coli</i>	New data supports change in listing
90	Walnut Creek	02-IOW-1916	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
91	Walnut Creek	02-IOW-709	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL
92	West Rat Creek	06-BSR-6609	Aquatic Life	Fish Kill: Pesticides	Enforcement action addresses fish kill
93	Willow Creek	02-IOW-6586	Contact Recreation	Bacteria: <i>E. coli</i>	EPA-approved TMDL

Number	Water Body Name	ATTAINS ID	Impaired Use	Impairment Cause	2020 Delisting Rationale
94	Willow Creek	06-LSR-1626	Aquatic Life	Fish Kill: Animal Waste	New data supports change in listing
95	Willow Creek	06-LSR-6299	Aquatic Life	Fish Kill: Animal Waste	New data supports change in listing