United States Environmental Protection Agency

Region 7

2018 Decision Document

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

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DECISION DOCUMENT OF THE
2018 IOWA CLEAN WATER ACT, SECTION 303(d) LIST
WATER QUALITY LIMITED SEGMENTS STILL REQUIRING TMDLS

I. EXECUTIVE SUMMARY

On February 24, 2020, the Iowa Department of Natural Resources submitted its 2018 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, in accordance with 40 CFR § 130.7(d)(2), the EPA is approving Iowa's 2018 CWA Section 303(d) List (Category 5 of their 2018 IR), consisting of a total of 622 water bodies with 786 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 C.F.R. 130.7), and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. The CWA Section 303(d) listing requirement applies to water quality-limited segments impaired by pollutant loadings from both point and/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 CWA Section 303(d) lists. Water quality data that meet the assessment criteria included within the state's 2018 revised methodology were evaluated by the IDNR. The methodology establishes specific protocols and thresholds for assessing water bodies, in addition to data sufficiency and data quality requirements. The methodology contains procedures for assessing both aquatic life use support and human health use support.

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 TMDLs. 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. Also, 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 2018 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 and the EPA approves the removal. 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, therefore, included in the CWA Section 303(d) List which the IDNR submitted to the EPA for review; and

- Water bodies on Iowa's previously approved 2016 CWA Section 303(d) List which were determined not to need TMDLs pursuant to the listing methodology and, therefore, removed from the CWA Section 303(d) List submitted to the EPA for review.

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 Iowa'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; and

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 2018 submission, the current CWA Section 303(d) List in the state of Iowa contains:

- approved removals from the 2016 CWA Section 303(d) List (Table 1); and
- an approved 2018 CWA Section 303(d) list with new listings identified (Table 2).

The statutory and regulatory requirements relevant to CWA Section 303(d) lists, and the EPA's review of Iowa's compliance with each requirement, are described in detail below. The EPA's approval of Iowa's Section 303(d) List extends to all water bodies on the list with the exception of 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 at this time. 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.

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; and
- 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, including, at a minimum, consideration of 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; and
- Waters identified as impaired or threatened in any Section 319 nonpoint assessment submitted to EPA (see 40 CFR § 130.7(b)(5)).

States are also required to consider any other data and information that is existing and readily available. The EPA's 1991 Guidance for Water Quality-Based Decisions describes categories of water quality related data and information that may be existing and readily available (see Guidance for Water Quality-Based Decisions, The TMDL Process, EPA Office of Water, 1991, Appendix C ("EPA's 1991 Guidance")). While states are required to evaluate all existing and readily available water quality-related data and information, states may decide to rely or not rely on particular data or information in determining whether to list particular waters.

In addition to requiring states to assemble and evaluate all existing and readily available water quality-related data and information, the EPA regulations at 40 CFR § 130.7(b)(6) require states to include as part of their submissions to the EPA, documentation to support decisions to rely or not to rely on particular data and information and decisions to list or not to list waters. Such documentation needs to include, at a minimum, 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; and
- any other reasonable information requested by the Region.

C. Priority Ranking and Long Term Vision

The EPA regulations also codify and interpret the requirement in the CWA, Section 303(d)(1)(A) of the Act, 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 also to identify those water quality-limited segments targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters (see CWA Section 303(d)(1)(A)). As long as these factors are taken into account, the Act provides that states establish priorities. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs, vulnerability of particular waters as aquatic habitats, recreational, economic, and aesthetic importance of particular waters, degree of public interest and support, and state or national policies and priorities (see 57 FR 33040, 33045 [July 24, 1992], and the EPA's 1991 Guidance). For the 2018 Integrated Report, the state initiated a priority vision which identifies the state's priorities. The state has identified Tier I through Tier IV waters based on the water body/ and Reporting Pursuant to Sections 305(b) and 303(d) of the Federal Clean Water Act. (March 28, 2017) - Attachment 7: State of Iowa Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program (updated September 2019). A full discussion of this long-term vision can be found in the state submittal, *Methodology for Iowa's 2018 Water Quality Assessment, Listing, and Reporting Pursuant to Sections 305(b) and 303(d) of the Federal Clean Water Act*.

III. IOWA'S APPROACH TO IDENTIFYING WATERS FOR THE 2018 SECTION 303(d) LIST

A. Iowa's 2018 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) in creating a five category "integrated report" format. The 2018 Iowa submission under CWA Section 303(d) is the seventh submission by the state of Iowa using this "integrated report" format. Category 5 of the 2018 integrated report (IR) constitutes Iowa's list of impaired waters for purposes of CWA Section 303(d), and is subject to the EPA's review and approval. The EPA is taking action only on Category 5 which includes water quality-limited segments still requiring TMDLs. The following describes the five categories constituting Iowa's IR and the number of water bodies assigned to each category by the IDNR. Under Iowa's five category system, most water bodies are assigned to one category. The information below regarding Categories 1-4 is provided for information purposes only, as the EPA does not approve Categories 1-4 but does approve Category 5.

> Category 1 consists of 11 water body segments attaining all designated uses and no use is threatened.

Category 2 consists of 352 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 292 water body segments for which there are insufficient or no data and information to determine, consistent with the state's listing methodology, if any designated use is impaired or attained.

Category 4 consists of 145 water body segments for which one or more designated uses are impaired or threatened but establishment of a TMDL is not required.

Category 5 consists of 622 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 those 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 786 impairments.

The state's IR format includes sub-categories within Categories 3, 4 and 5. Only water body segments within Category 5 are subject to the EPA's approval. Within Category 3, the IDNR has added Category 3b which includes those water body segments for which there is "evaluated data" which suggest a potential impairment. According to the IDNR's methodology, "waters 'evaluated' as impaired are identified as having insufficient data to determine whether beneficial uses are met." In short, those data determined by the IDNR to be "evaluated data" are not deemed by the IDNR to be of adequate quality or quantity to support a determination that a use designated within state water quality standards is or is not being met. Iowa's use of a category of "evaluated data" for statistical analysis is allowed in the EPA's guidance. Iowa uses this analysis to ensure statistical certainty before listing a water body segment as impaired. The water body segments listed within Category 3b where there is a potential impairment are placed by the IDNR on a list of waters in need of further investigation. This list serves to support the EPA's evaluation of the IDNR's data assessment process and its determination that all water quality-limited segments were listed by the IDNR in Category 5. Subcategory 3b is also subdivided into –c and –u. In the case of –c, a biological assessment has been conducted for a water body segment where the drainage area is within the range of calibration for the assessment protocol; -u indicates an assessment for a water body segment outside the calibration range.

The state's IR format also incorporates an expansion of Category 4 into four sub-categories. Sub-category 4a includes waters that are threatened or impaired, but for which a TMDL has been completed and approved by the EPA. Sub-category 4b includes waters that are threatened or impaired, but 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 but 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 integrated report. However, sub-category 4d constitutes a variation on the EPA's guidance. The EPA considers Iowa's 4d category to be equivalent to EPA's category 4b. For the purposes of tracking in ATTAINS all Iowa 4d waters will be categorized as 4b. The EPA's review of the state categories and sub-categories was conducted within the context of whether or not a

water body segment should be listed within Category 5 based on existing and readily available data and information.

The state's IR format also included three subcategories within Category 5 which distinguish between whether the cause of impairment is known (Category 5a), the cause of impairment is unknown (Category 5b), or the cause of the impairment is presumptive pending the completion of use attainability analyses (Category 5p).

B. Iowa's 2018

The IDNR's "Methodology for Iowa's 2018 Water Quality Assessment, Listing, and Reporting Pursuant to Sections 305(b) and 303(d) of the Federal Clean Water Act," (December 31, 2019), 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 earlier, Category 5 of the 2018 list constitutes Iowa's list of impaired waters for purposes of CWA Section 303(d) and is subject to the EPA's review and approval. The EPA is taking action only on Category 5 which consists of water quality-limited segments still requiring TMDLs.

There were no changes in the IDNR's methodology since the 2016 reporting cycle.

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

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 from water quality monitoring conducted by adjacent states on border rivers and waters flowing into the state;

3) Data from biological monitoring being conducted by the IDNR in cooperation with the University of Iowa Hygienic Laboratory;

4) Data from IDNR-sponsored monitoring of shallow natural lakes;

5) Data from the IDNR-sponsored statewide lake monitoring project conducted by the Iowa State University and the University of Iowa Hygienic Laboratory;

6) Data from monitoring of bacterial indicators in rivers and at beaches of publicly-owned lakes;

7) Data from programs to monitor fish tissue for toxic contaminants;

8) Reports of pollutant-caused fish kills;

9) Data from state-wide survey of freshwater mussels;

10) Data, when available, from public water supplies on the quality of raw and finished water;

11) Drinking water source assessments under Section 1453 of the Safe Drinking Water Act;

12) Data from special studies of water quality and aquatic communities;

13) Best professional judgment of the IDNR staff;

14) Results of volunteer monitoring (e.g., by IOWATER trained volunteers); and

15) 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) Iowa'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; and

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 the sharing of water quality data, assessment decisions for those shared waters, and accounting for the listing decision 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, where they arise.

The IDNR's 2018 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 the uniform assessment reaches for the Iowa reach of the Upper Mississippi River that are consistent with assessment reaches used by the adjacent states of 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. Attachment 8 of Iowa's methodology document provides a summary of reaches Iowa shares with adjacent states. These continuing efforts 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 2018 LIST

The EPA is approving Iowa's 2018 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 still needing a TMDL, the EPA first looked at the IDNR's use support determinations as documented in the state's ADB+ database.

The IDNR's 2018 assessment methodology identifies a general "cutoff date" as the end of calendar year 2016, 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 2018 assessment should be considered for the 2020 submission. Despite the application of a "cutoff date" by the IDNR for the development of the 2018 list, the IDNR considered data submitted as part of the state's public notice and comment period from November 14, 2019 through December 28, 2019. 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 2018 assessment methodology also discusses the IDNR's 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 2018 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. Also, 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 Iowa's CWA Section 303(d) List was developed in a manner compliant with the requirements at 40 C.F.R. Part 130.7 (regarding the assembly and evaluation of "all existing and readily available water quality-related data and information"), the EPA reviewed the information contained in the IDNR's ADB+ database for all waters listed in Iowa's Integrated Report Category 5 proposed for delisting.

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 2016 IR with waters listed in Category 5 of the state's 2018 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, Iowa's 2018 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 2018 CWA Section 303(d) List.

In its review of the state's entire 2018 list, the EPA has reviewed Iowa'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. In accordance with 40 CFR § 130.7(d)(2), the EPA is approving Iowa's 2018 CWA Section 303(d) List (Category 5 of their 2018 IR), consisting of a total of 622 water bodies with 786 water body/pollutant combinations.

The-EPA reviewed the proposed removals to determine whether the IDNR had "good cause" for modifying or not including these waters on its 2018 CWA Section 303(d) List. The changes are identified below.

A. Waters Removed by IDNR from Iowa's CWA Section 303(d) List and Approved by EPA

The EPA is approving the Iowa's CWA Section 303(d) List which reflects the modification to or removal of 23 water bodies (25 water body/pollutant combinations) consistent with the requirements of federal regulations at 40 CFR 130.7(b)(6)(iv). Section 40 CFR 130.7(b)(6)(iv) provides for the exclusion of waters from the state's CWA Section 303(d) list. These regulations require that the state "demonstrate good cause" for not including water or waters on the list. The reasons for each delisting were included in the ADB submittal, and additional details were provided to the EPA in the form of a responsiveness summary prior to the final Section 303(d) list submittal. The following are the general reasons cited for removal of water bodies from the Section 303(d) list:

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

The rationale supporting the removal of these 23 waters (25 water body/pollutant combinations) from the state's list can be grouped into four general categories and are also identified below. Some of the waters have multiple pollutants and/or multiple causes for delisting.

1. Waters with Approved TMDLs, alternatives or not impaired by pollutant (Three waters)

a) TMDLs (three waters, listed by water body identification number)

Three water body segments are being removed from the state's list because TMDLs have been developed for those waters and approved by the EPA. In each instance, a TMDL has been developed for the listed pollutant or condition or the IDNR and the EPA have agreed that the TMDL will address the listed pollutant or condition. For some waters, they continue to be listed in Iowa's Category 5 for another pollutant or condition, or they are listed in another Category within Iowa's IR based on other water quality data. These waters are included in Table 1 with information regarding each TMDL described in the last column. Each water body and the rationale for moving it from Category 5 are listed below.

Lake of the Hills (IA 01-NEM-00160-L_0, now IA 01-NEM-68) - Iowa previously listed Lake of the Hills as impaired for not meeting a passing score for its index of biological integrity. On June 20, 2018 the EPA approved an Iowa TMDL for biological integrity allocating loads for Algal Growth: Chlorophyll a. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Lake of the Hills because it no longer requires the development of a TMDL for biological integrity, consistent with 40 CFR § 130.7(b).

Windmill Lake (IA 05-PLA-00430-L_0, now IA 05-PLA-1482) - Iowa previously listed Windmill Lake as impaired for Algal Growth: Chlorophyll a. On June 26, 2018, the EPA approved an Iowa TMDL for Algae and Turbidity. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Iowa Lake because it no longer requires the development of a TMDL for algae, consistent with 40 CFR § 130.7(b).

Windmill Lake (IA 05-PLA-00430-L_0, now IA 05-PLA-1482) - Iowa previously listed Windmill Lake as impaired for turbidity. On June 26, 2018, the EPA had approved an Iowa TMDL for Algae and Turbidity. As such, these water body/pollutant pairs are appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Windmill Lake because it no longer requires the development of a TMDL for turbidity, consistent with 40 CFR 130.7(b).

b) Other pollution control requirements (one water, listed by water body identification number)

One water body is being removed from the state's list because legal action consisting of both restitution and corrective action designed to prevent future releases of manure was taken. There have been no additional fish kills in this segment:

Sewer Creek (IA 01-LSR-6621) - Iowa previously listed Sewer Creek as impaired because of fish kills. A responsible party was identified, corrective action was taken and restitution was sought and received for the results of the fish kill, caused from animal waste from a storage basin that discharged to an unnamed tributary of Sewer Creek through a tile line. Upon discovery of the issue the tile was plugged, and a berm was built to stop the flow of manure and the manure was pumped out. The basin was repaired and monitoring showed that within a day live fish were observed in the creek and ammonia and dissolved oxygen levels in the area returned to near normal. A total of $3,500 in restitution and investigative costs were required.

2. New Data Supports Change in Listing (15 waters, listed by water body identification number)

Fifteen water body segments are being removed from the state's list based on new water quality data which indicates the use is supported with regard to the previously specified pollutants:

Plum Creek (IA 01-MAQ-0220_1, now IA 01-MAQ-46) - Iowa previously listed Plum Creek as impaired for not meeting a passing score for its index of biological integrity. New monitoring data indicates this water body is attaining Iowa's EPA approved-recovery of fish/invertebrate community. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Plum Creek because it no longer requires the development of a TMDL consistent with 40 CFR §130.7(b). Plum Creek is still listed for loss of native mussel species.

Tetes Des Morts Creek (IA 01-TRK-0090_1, now IA 01-TRK-121) - Iowa previously listed Tetes Des Morts Creek as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Tetes Des Morts Creek because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). This water body is still listed for *Escherichia coli* and low aquatic macroinvertebrate IBI.

Cedar River (IA 02-CED-0010_0, now IA 02-CED-449) - Iowa previously listed Cedar River as impaired for pH. Follow-up monitoring data indicates the pH level in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Cedar River because it no longer requires the development of a TMDL for pH, consistent with 40 CFR 130.7(b). This water body is still listed for *Escherichia coli*.

Honey Creek (IA 02-IOW-0093_0, now IA 02-IOW-668) - Iowa previously listed Honey Creek as impaired for not meeting a passing score for its index of biological integrity. New monitoring data indicates this water body is attaining Iowa's EPA approved-recovery of fish/invertebrate community. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Honey Creek because it no longer requires the development of a TMDL consistent with 40 CFR §130.7(b).

Des Moines River (IA 04-LDM-0010_3, now IA 04-LDM-1004) - Iowa previously listed Des Moines River as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Des Moines River because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). Des Moines River is still listed for fish kill due to unknown toxicity.

Des Moines River (IA 04-LDM-0010_4, now IA 04-LDM-1005) - Iowa previously listed Des Moines River as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Des Moines River because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). Des Moines River is still listed for fish kill due to unknown toxicity.

Lacey Keosauqua Lake (IA 04-LDM-00160-L_0, now IA 04-LDM-1008) - Iowa previously listed Lacey Keosauqua Lake as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Lacey Keosauqua Lake because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b).

White Breast Creek (IA 04-LDM-0200_0, now IA 04-LDM-1059) - Iowa previously listed White Breast Creek as impaired for not meeting a passing score for its index of biological integrity. New monitoring data indicates this water body is attaining Iowa's EPA approved-recovery of fish/invertebrate community. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of White Breast Creek because it no longer requires the development of a TMDL consistent with 40 CFR §130.7(b).

Saylorville Reservoir (IA 04-UDM-0020-L_0, now IA 04-UDM-1213) - Iowa previously listed Saylorville Reservoir as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Saylorville Reservoir because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). Saylorville Reservoir is still listed for turbidity: Secchi Disk Transparency.

Thayer Lake (IA 05-GRA-01410-L_0, now IA 05-GRA-1369) - Iowa previously listed Thayer Lake as impaired for turbidity. Follow-up monitoring data indicates the turbidity in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Thayer Lake, consistent with 40 CFR 130.7(b).

Three Mile Lake (IA 05-GRA-0145-L_0, now IA 05-GRA-1371) – Iowa previously listed Three Mile Lake as being impaired due to organic enrichment/low dissolved oxygen. Follow-up monitoring data indicates this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Three Mile Lake because it no longer requires the development of a TMDL for organic enrichment/low dissolved oxygen, consistent with 40 CFR §130.7(b).

Lake Anita (IA 05-NSH-00580-L_0, now IA 05-NSH-1435) - Iowa previously listed Lake Anita as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Lake Anita because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). Lake Anita is still listed for algal growth: cyanobacteria.

Wilson Park Lake (IA 05-PLA-00380-L_0, now IA 05-PLA-1477) - Iowa previously listed Wilson Park Lake as impaired for pH. Follow-up monitoring data indicates the pH level in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Wilson Park Lake because it no longer requires the development of a TMDL for pH, consistent with 40 CFR 130.7(b). This water body is still listed for algal growth: chlorophyll a.

West Okoboji Lake (IA 06-LSR-02840-L_1, now IA 06-LSR-1653) - Iowa previously listed West Okoboji Lake as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the West Okoboji Lake because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b).

Browns Lake (IA 06-WEM-00485-L_0, now IA 06-WEM-1735) - Iowa previously listed Browns Lake as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Browns Lake because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). Browns Lake is still listed for turbidity and algal growth: chlorophyll a.

3. Listing Error (six waters, listed by water body identification number)

For these six water bodies an error was made in the assessment of information which led to the listing of these water bodies in Category 5 of the Iowa 2016 IR.

Unnamed Tributary to Unnamed Tributary of West Fork Cedar River (IA 02-WFC-0146_0, now IA 02-WFC-2079) – Iowa previously listed this water body as impaired by a fish kill due to unknown toxicity. Review of this data has found that the samples were collected in a different segment of the tributary. That segment Unnamed Tributary to West Fork Cedar River (IA 02-WFC-2075) is now listed for fish kill. In today's action, the EPA is approving the delisting of the this tributary because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

Ballard Creek (IA 03-SSK-0057_0, now IA 03-SSK-952) – Iowa previously listed this water body as impaired by a fish kill caused by animal waste. Review of this data has found that the samples were collected in a different segment of the tributary. That segment Ballard Creek (IA 03-SSK-3053) is now is now listed for fish kill. In today's action, the EPA is approving the delisting of this water because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

Ballard Creek (IA 03-SSK-0057_0, now IA 03-SSK-952) – Iowa previously listed this water body for not meeting a passing score for its index of biological integrity. Iowa has determined that the samples analysis was based on evaluated data. Iowa's analysis has determined that the IBI data does not exceed the listing threshold. According to IDNR's assessment/listing methodology, impairments based on "evaluated" assessments are of lesser confidence and are thus not appropriate for Section 303(d) listing; however, this water is appropriate for Category 3b of the Integrated Report (waters potentially impaired and in need of further investigation). In today's action, the EPA is approving the delisting of this water because it no longer requires the development of a TMDL, consistent with 40 CFR §130.7(b). This water is in Category 3 of the Integrated Report.

Ottumwa Lagoon (IA 04-LDM-00215-L_0, now IA 04-LDM-1014) – Iowa previously listed this water body as impaired by a fish kill caused by a petroleum spill. Review of the data in the Iowa DNR fish kill database found that the fish kill was actually due to natural causes due to water levels being lowered in the system. The fish had been dead or dying over several days prior to the groundwater remediation at the LUST (leaking underground storage tank) site. In today's action, the EPA is approving the delisting of this water because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). The water is moved to Category 3 of the Integrated Report.

Brushy Creek (IA 04-RAC-0253_0, now IA 04-RAC-1209) – Iowa previously listed this water body as impaired by a fish kill due to unknown toxicity in 2005. Review of this data has found that the samples were collected in a different segment of the tributary. That segment of Brushy Creek (IA 04-RAC-1818 is now listed for fish kill. In today's action, the EPA is approving the delisting of the this tributary because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). This segment of Brushy Creek is still listed for a 2014 Fish Kill from anhydrous ammonia.

Briggs Woods Lake (IA 04-UDM-01880-L_0, now 04-UDM-1255) – Iowa erroneously listed this water body as impaired by *Escherichia coli* based on evaluated data. According to IDNR's assessment/listing methodology, impairments based on "evaluated" assessments are of lesser confidence and are thus not appropriate for Section 303(d) listing; however, this water is appropriate for Category

3b of the Integrated Report (waters potentially impaired and in need of further investigation). In today's action, the EPA is approving the delisting of this water for *Escherichia coli* because it no longer requires the development of a TMDL, consistent with 40 CFR §130.7(b). The EPA is approving the delisting of this tributary for *Escherichia coli* because it no longer requires the development of a TMDL, consistent with 40 CFR §130.7(b). This water is moved to Category 3 of the Integrated Report for *Escherichia coli*. However, this water is still listed in Category 5 for pH.

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 2018 CWA Section 303(d) List included a priority ranking of each water body as required in Section 303(d)(1)(A) of the CWA and 40 CFR §130.7(b)(4) of the EPA's implementing regulations.

VII. IOWA'S PUBLIC PARTICIPATION PROCESS

The IDNR public noticed its 2018 draft CWA Section 303(d) List from November 14 through December 28, 2019. The list and the IDNR's ADB+ water quality database were also made available for public review and comment through the IDNR website. The IDNR received comments from 102 individuals. A responsiveness summary was submitted to the EPA by the state with its 2018 IR.

In response to public comments, IDNR added two waters to the 2018 IR for further investigation.

Water Body Name	New ATTAINS ID	IR Category and Description
East Indian Creek	IA 03-SSK-947	3 Insufficient data exist to determine whether any designated uses are met.
Squaw Creek	IA 03-SSK-954	2 Some of the designated uses are met but there is insufficient data to determine if remaining uses are met.

The IDNR finalized its 2018 CWA Section 303(d) List and submitted it for approval on February 24, 2020 as an email attachment, the official hard copy of the submittal letter and a DVD was also mailed; it was received by the EPA on February 24, 2020. The submittal letter stated that the electronic version was the official submittal.

The EPA has reviewed Iowa's public participation process and has concluded that the state provided adequate public notice and opportunity for the public to comment on its decision regarding the CWA Section 303(d) list in compliance with federal requirements.

2018 Iowa's Section 303(d) List

Table 1 lists each modification or water body approved for the removal from, the state's CWA Section 303(d) List and the supporting rationale for each. Table 2 identifies the 2018 Iowa § 303 (d) list as approved by the EPA. The following terms are used in the tables and defined below.

a.k.a.:	Also Known As
EPA:	U.S. Environmental Protection Agency
FW Mussels:	Freshwater mussels
IBI:	Index of Biological Integrity
PCBs:	Polychlorinated biphenyl
pH:	A measure of water's acidity or basic condition.
TMDL:	Total Maximum Daily Load
UT:	Unnamed Tributary

Table 1. 2018 Delistings from the EPA-approved 2016 Iowa §303(d) List. For comparative purposes the ADB Code listed is that under which the water body was listed on the 2016 § 303(d) List

Water body Name	Legacy ADB Code	New ATTAINS ID	Cause of 2016 303(d) Listing	Delisting Rationale
Plum Creek	IA 01-MAQ-0220_1	01-MAQ-46	Biological: low aquatic macroinvertebrate IBI	New data: recovery of fish/invertebrate community
Lake Of The Hills	IA 01-NEM-00160-L_0	01-NEM-68	Algal Growth: Chlorophyll a	TMDL preparation and approval
Tetes Des Morts Creek	IA 01-TRK-0090_1	01-TRK-121	Fish Kill: Cause Unknown	New data: recovery of fish community from pollutant-caused fish kill
Cedar River	IA 02-CED-0010_0	02-CED-449	pH	New data: WQ improvement (chemical / physical / bacterial)
Honey Creek	IA 02-IOW-0093_0	02-IOW-668	Biological: low aquatic macroinvertebrate IBI	New data: recovery of fish/invertebrate community
Unnamed Tributary to Unnamed Tributary of West Fork Cedar River	IA 02-WFC-0146_0	02-WFC-2079	Fish Kill: Due To Unknown Toxicity	Assessment Error
Ballard Creek	IA 03-SSK-0057_0	03-SSK-952	Fish Kill: Caused By Animal Waste	Assessment Error
Ballard Creek	IA 03-SSK-0057_0	03-SSK-952	Biological: low fish IBI	Assessment Error
Des Moines River	IA 04-LDM-0010_3	04-LDM-1004	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)
Des Moines River	IA 04-LDM-0010_4	04-LDM-1005	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)
Lacey Keosauqua Lake	IA 04-LDM-00160-L_0	04-LDM-1008	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)

Ottumwa Lagoon	IA 04-LDM-00215-L_0	04-LDM-1014	Fish Kill: Caused By Petroleum Spill	Assessment Error
White Breast Creek	IA 04-LDM-0200_0	04-LDM-1059	Biological: low fish & invert IBIs- cause unknown	New data: recovery of fish/invertebrate community
Brushy Creek	IA 04-RAC-0253_0	04-RAC-1209	Fish Kill: Due To Unknown Toxicity	Assessment Error
Saylorville Reservoir	IA 04-UDM-0020-L_0	04-UDM-1213	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)
Briggs Woods Lake	IA 04-UDM-01880-L_0	04-UDM-1255	Bacteria: Indicator Bacteria- E. coli	Assessment Error
Thayer Lake	IA 05-GRA-01410-L_0	05-GRA-1369	Turbidity	New data: WQ improvement (chemical / physical / bacterial)
Three Mile Lake	IA 05-GRA-0145-L_0	05-GRA-1371	Organic Enrichment: Low Dissolved Oxygen	New data: WQ improvement (chemical / physical / bacterial)
Lake Anita	IA 05-NSH-00580-L_0	05-NSH-1435	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)
Wilson Park Lake	IA 05-PLA-00380-L_0	05-PLA-1477	pH	New data: WQ improvement (chemical / physical / bacterial)
Windmill Lake	IA 05-PLA-00430-L_0	05-PLA-1482	Algal Growth: Chlorophyll a	TMDL preparation and approval
Windmill Lake	IA 05-PLA-00430-L_0	05-PLA-1482	Turbidity	TMDL preparation and approval
West Okoboji Lake	IA 06-LSR-02840-L_1	06-LSR-1653	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)
Sewer Creek	N/A	06-LSR-6621	Fish Kill: Caused By Animal Waste	Legal action against party causing fish kill
Browns Lake	IA 06-WEM-00485-L_0	06-WEM-1735	Bacteria: Indicator Bacteria- E. coli	New data: WQ improvement (chemical / physical / bacterial)

Table 2. EPA-approved 2018 Iowa § 303(d) List with crosswalk to new ATTAINS water body codes

New Listing	Count	Legacy ID - Pre 2016	New ATTAINS ID	Water body Name	Cause of 303(d) Listing
	1	IA 01-MAQ-0005-L_0	01-MAQ-1	Shrickers Slough	Algal Growth: Chlorophyll a
	2	IA 01-MAQ-0005-L_0	01-MAQ-1	Shrickers Slough	Turbidity: Secchi Disk Transparency
	3	IA 01-MAQ-0050_2	01-MAQ-13	Maquoketa River	Bacteria: Indicator Bacteria- E. coli
	4	IA 01-MAQ-0060_1	01-MAQ-14	Maquoketa River	Biological: loss of native mussel species
	5	IA 01-MAQ-0060_2	01-MAQ-15	Maquoketa River	Bacteria: Indicator Bacteria- E. coli
	6	IA 01-MAQ-0060_2	01-MAQ-15	Maquoketa River	Biological: loss of native mussel species
	7	IA 01-MAQ-0060_3	01-MAQ-16	Maquoketa River	Bacteria: Indicator Bacteria- E. coli
	8	IA 01-MAQ-0060_3	01-MAQ-16	Maquoketa River	Biological: low aquatic macroinvertebrate IBI
	9	IA 01-MAQ-0080_0	01-MAQ-19	Maquoketa River	Bacteria: Indicator Bacteria- E. coli
	10	IA 01-MAQ-0300_0	01-MAQ-1963	Unnamed Tributary to Maquoketa River	Fish Kill: Caused By Fertilizer Spill
	11	IA 01-MAQ-0010_1	01-MAQ-2	Rock Creek	Organic Enrichment: Low Dissolved Oxygen
	12	IA 01-MAQ-0090-L_0	01-MAQ-20	Backbone Lake	Bacteria: Indicator Bacteria- E. coli
	13	IA 01-MAQ-01580-L_0	01-MAQ-38	Central Park Lake	Algal Growth: Chlorophyll a
	14	IA 01-MAQ-0200_0	01-MAQ-44	Silver Creek	Biological: loss of native mussel species
	15	IA 01-MAQ-0210_0	01-MAQ-45	Buck Creek	Biological: low aquatic macroinvertebrate IBI
	16	IA 01-MAQ-0210_0	01-MAQ-45	Buck Creek	Biological: loss of native mussel species
	17	IA 01-MAQ-0220_1	01-MAQ-46	Plum Creek	Biological: loss of native mussel species

	18	IA 01-MAQ-0240_0	01-MAQ-51	Coffins Creek	Bacteria: Indicator Bacteria- E. coli
	19	IA 01-MAQ-0250_0	01-MAQ-53	Honey Creek	Bacteria: Indicator Bacteria- E. coli
	20	IA 01-MAQ-0260_1	01-MAQ-54	Lindsey Creek	Bacteria: Indicator Bacteria- E. coli
	21	IA 01-MAQ-0251_0	01-MAQ-6560	Honey Creek	Bacteria: Indicator Bacteria- E. coli
	22	IA 01-MAQ-0255_0	01-MAQ-6561	Rutherford Branch	Bacteria: Indicator Bacteria- E. coli
	23	IA 01-NEM-0010_1	01-NEM-61	Mississippi River	Bacteria: Indicator Bacteria- fecal coliform
New	24	IA 01-NEM-0010_1	01-NEM-61	Mississippi River	Metals: Aluminum
	25	IA 01-NEM-0010_2	01-NEM-62	Mississippi River	Bacteria: Indicator Bacteria- fecal coliform
	26	IA 01-NEM-0010_2	01-NEM-62	Mississippi River	Metals: Aluminum
	27	IA 01-NEM-0010_2	01-NEM-62	Mississippi River	Toxic Organics: PCBs
	28	IA 01-NEM-0010_3	01-NEM-63	Mississippi River	Bacteria: Indicator Bacteria- fecal coliform
	29	IA 01-NEM-0063_0	01-NEM-6370	Stafford Creek	Bacteria: Indicator Bacteria- E. coli
	30	IA 01-NEM-0066_0	01-NEM-6372	Candlelight Creek	Bacteria: Indicator Bacteria- E. coli
	31	IA 01-NEM-0067_0	01-NEM-6373	Robin Creek	Bacteria: Indicator Bacteria- E. coli
	32	IA 01-NEM-0010_4	01-NEM-64	Mississippi River	Metals: Aluminum
New	33	IA 01-NEM-0020_1	01-NEM-70	Mississippi River	Metals: Aluminum
	34	IA 01-NEM-0030_1	01-NEM-75	Mississippi River	Metals: Aluminum
	35	IA 01-NEM-0053_0	01-NEM-81	Mad Creek	Bacteria: Indicator Bacteria- E. coli
	36	IA 01-NEM-0070_0	01-NEM-86	Crow Creek	Bacteria: Indicator Bacteria- E. coli
	37	IA 01-NMQ-0100_1	01-NMQ-103	Whitewater Creek	Bacteria: Indicator Bacteria- E. coli

	38	IA 01-NMQ-0100_1	01-NMQ-103	Whitewater Creek	Biological: loss of native mussel species
New	39	IA 01-NMQ-0100_1	01-NMQ-103	Whitewater Creek	Fish Kill: Caused By Animal Waste
New	40	IA 01-NMQ-0100_2	01-NMQ-104	Whitewater Creek	Fish Kill: Caused By Animal Waste
	41	IA 01-NMQ-0110_0	01-NMQ-105	Johns Creek	Biological: loss of native mussel species
	42	IA 01-NMQ-0160_0	01-NMQ-110	Hickory Creek	Biological: low fish & invert IBIs- cause unknown
New	43	IA 01-NMQ-0160_0	01-NMQ-110	Hickory Creek	Fish Kill: Caused By Animal Waste
	44	IA 01-NMQ-0141_0	01-NMQ-1886	Bear Creek	Fish Kill: Caused By Animal Waste
	45	IA 01-NMQ-0010_1	01-NMQ-88	North Fork Maquoketa River	Bacteria: Indicator Bacteria- E. coli
New	46	IA 01-NMQ-0010_1	01-NMQ-88	North Fork Maquoketa River	Fish Kill: Caused By Animal Waste
	47	IA 01-NMQ-0020_1	01-NMQ-90	North Fork Maquoketa River	Bacteria: Indicator Bacteria- E. coli
	48	IA 01-NMQ-0020_1	01-NMQ-90	North Fork Maquoketa River	Biological: loss of native mussel species
	49	IA 01-NMQ-0020_1	01-NMQ-90	North Fork Maquoketa River	Biological: low fish & invert IBIs- cause unknown
	50	IA 01-NMQ-0040_0	01-NMQ-94	Farmers Creek	Biological: low aquatic macroinvertebrate IBI
	51	IA 01-TRK-0090_1	01-TRK-121	Tetes Des Morts Creek	Bacteria: Indicator Bacteria- E. coli
	52	IA 01-TRK-0090_1	01-TRK-121	Tetes Des Morts Creek	Biological: low aquatic macroinvertebrate IBI
	53	IA 01-TRK-0090_2	01-TRK-122	Tetes Des Morts Creek	Bacteria: Indicator Bacteria- E. coli
	54	IA 01-TRK-0095_0	01-TRK-123	Lux Creek	Bacteria: Indicator Bacteria- E. coli

	55	IA 01-TRK-0100_1	01-TRK-124	Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	56	IA 01-TRK-0100_2	01-TRK-125	Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	57	IA 01-TRK-0100_2	01-TRK-125	Catfish Creek	Fish Kill: Due To Unknown Toxicity
	58	IA 01-TRK-0110_0	01-TRK-127	Granger Creek	Bacteria: Indicator Bacteria- E. coli
	59	IA 01-TRK-0120_0	01-TRK-128	Middle Fork Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	60	IA 01-TRK-0125_0	01-TRK-129	North Fork Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	61	IA 01-TRK-0130_0	01-TRK-130	South Fork Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	62	IA 01-TRK-0160_1	01-TRK-134	Cloie Branch	Biological: low aquatic macroinvertebrate IBI
	63	IA 01-TRK-0160_1	01-TRK-134	Cloie Branch	Organic Enrichment: Low Dissolved Oxygen
	64	IA 01-TRK-0160_1	01-TRK-134	Cloie Branch	Temperature: Water
	65	IA 01-TRK-0180_2	01-TRK-138	Middle Fork Little Maquoketa River (a.k.a. Bankston Cr.)	Biological: low aquatic macroinvertebrate IBI
	66	IA 01-TRK-0200_0	01-TRK-148	Turkey River	Bacteria: Indicator Bacteria- E. coli
	67	IA 01-TRK-0200_0	01-TRK-148	Turkey River	Fish Consumption Advisory: Mercury
	68	IA 01-TRK-0210_1	01-TRK-149	Turkey River	Bacteria: Indicator Bacteria- E. coli
	69	IA 01-TRK-0210_4	01-TRK-152	Turkey River	Bacteria: Indicator Bacteria- E. coli
	70	IA 01-TRK-0220_1	01-TRK-153	Turkey River	Bacteria: Indicator Bacteria- E. coli
	71	IA 01-TRK-0220_2	01-TRK-154	Turkey River	Bacteria: Indicator Bacteria- E. coli
	72	IA 01-TRK-0220_4	01-TRK-156	Turkey River	Bacteria: Indicator Bacteria- E. coli
	73	IA 01-TRK-0230_1	01-TRK-160	Little Turkey River	Bacteria: Indicator Bacteria- E. coli

	74	IA 01-TRK-0230_3	01-TRK-162	Little Turkey River	Bacteria: Indicator Bacteria- E. coli
	75	IA 01-TRK-0230_3	01-TRK-162	Little Turkey River	Biological: low aquatic macroinvertebrate IBI
	76	IA 01-TRK-0230_4	01-TRK-163	Little Turkey River	Bacteria: Indicator Bacteria- E. coli
	77	IA 01-TRK-0240_0	01-TRK-165	Point Hollow Creek (aka White Pine Cr.)	Bacteria: Indicator Bacteria- E. coli
	78	IA 01-TRK-0240_0	01-TRK-165	Point Hollow Creek (aka White Pine Cr.)	Biological: low aquatic macroinvertebrate IBI
	79	IA 01-TRK-0260_0	01-TRK-168	Pecks Creek	Bacteria: Indicator Bacteria- E. coli
	80	IA 01-TRK-0260_0	01-TRK-168	Pecks Creek	Biological: low aquatic macroinvertebrate IBI
	81	IA 01-TRK-0270_1	01-TRK-171	South Cedar Creek (aka Cedar Cr.)	Bacteria: Indicator Bacteria- E. coli
	82	IA 01-TRK-0280_1	01-TRK-175	Elk Creek	Bacteria: Indicator Bacteria- E. coli
	83	IA 01-TRK-0290_0	01-TRK-178	Steeles Branch	Bacteria: Indicator Bacteria- E. coli
	84	IA 01-TRK-0300_0	01-TRK-179	Pine Creek	Bacteria: Indicator Bacteria- E. coli
	85	IA 01-TRK-0360_1	01-TRK-186	Roberts Creek	Bacteria: Indicator Bacteria- E. coli
	86	IA 01-TRK-0360_3	01-TRK-188	Roberts Creek	Bacteria: Indicator Bacteria- E. coli
	87	IA 01-TRK-04515_0	01-TRK-1885	Unnamed Tributary to Bass Creek	Fish Kill: Caused By Animal Waste
	88	IA 01-TRK-0370_1	01-TRK-189	Dry Mill Creek	Bacteria: Indicator Bacteria- E. coli
	89	IA 01-TRK-0380_0	01-TRK-191	Howard Creek	Bacteria: Indicator Bacteria- E. coli
	90	IA 01-TRK-0381_0	01-TRK-192	Silver Creek	Bacteria: Indicator Bacteria- E. coli

	91	IA 01-TRK-0381_0	01-TRK-192	Silver Creek	Organic Enrichment: Low Dissolved Oxygen
	92	IA 01-TRK-0390_1	01-TRK-198	Otter Creek	Bacteria: Indicator Bacteria- E. coli
	93	IA 01-TRK-0390_1	01-TRK-198	Otter Creek	Temperature: Thermal Modifications
	94	IA 01-TRK-0419_0	01-TRK-2002	Dry Branch	Bacteria: Indicator Bacteria- E. coli
	95	IA 01-TRK-0412_1	01-TRK-202	Dibble Creek	Bacteria: Indicator Bacteria- E. coli
	96	IA 01-TRK-0416_0	01-TRK-205	Nutting Creek	Bacteria: Indicator Bacteria- E. coli
	97	IA 01-TRK-0382_0	01-TRK-2057	Silver Creek	Bacteria: Indicator Bacteria- E. coli
	98	IA 01-TRK-03817_0	01-TRK-2058	Unnamed Tributary to UT to Silver Creek	Bacteria: Indicator Bacteria- E. coli
	99	IA 01-TRK-03817_0	01-TRK-2058	Unnamed Tributary to UT to Silver Creek	Toxic Inorganics: Ammonia
	100	IA 01-TRK-0420_0	01-TRK-207	Little Turkey River	Bacteria: Indicator Bacteria- E. coli
	101	IA 01-TRK-0430_1	01-TRK-208	Little Turkey River	Bacteria: Indicator Bacteria- E. coli
	102	IA 01-TRK-0430_2	01-TRK-209	Little Turkey River	Bacteria: Indicator Bacteria- E. coli
	103	IA 01-TRK-0440_1	01-TRK-210	Crane Creek	Bacteria: Indicator Bacteria- E. coli
	104	IA 01-TRK-0440_2	01-TRK-211	Crane Creek	Bacteria: Indicator Bacteria- E. coli
	105	IA 01-TRK-0440_3	01-TRK-212	Crane Creek	Bacteria: Indicator Bacteria- E. coli
	106	IA 01-TRK-0440_4	01-TRK-213	Crane Creek	Biological: low aquatic macroinvertebrate IBI
	107	IA 01-TRK-0450_1	01-TRK-215	Bass Creek	Bacteria: Indicator Bacteria- E. coli
	108	IA 01-TRK-0450_1	01-TRK-215	Bass Creek	Temperature: Thermal Modifications

	109	IA 01-TRK-0453_0	01-TRK-217	Brockamp Creek	Bacteria: Indicator Bacteria- E. coli
	110	IA 01-TRK-0455_0	01-TRK-218	Rogers Creek	Bacteria: Indicator Bacteria- E. coli
	111	IA 01-TRK-0457_1	01-TRK-219	Wonder Creek	Bacteria: Indicator Bacteria- E. coli
	112	IA 01-TRK-0460_0	01-TRK-221	Bohemian Creek	Bacteria: Indicator Bacteria- E. coli
	113	IA 01-TRK-0460_0	01-TRK-221	Bohemian Creek	Temperature: Thermal Modifications
	114	IA 01-TRK-0480_0	01-TRK-223	North Branch Turkey River	Bacteria: Indicator Bacteria- E. coli
	115	IA 01-TRK-01005_2	01-TRK-6408	Unnamed tributary to Catfish Creek	Wastewater
	116	IA 01-TRK-0127_0	01-TRK-6486	North Fork Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	117	IA 01-TRK-0123_0	01-TRK-6487	Middle Fork Catfish Creek	Bacteria: Indicator Bacteria- E. coli
	118	IA 01-TRK-0223_0	01-TRK-6562	Unnamed Tributary to Turkey River	pH- High
	119	IA 01-TRK-0291_0	01-TRK-6568	Steeles Branch	Bacteria: Indicator Bacteria- E. coli
	120	IA 01-TRK-0093_0	01-TRK-6580	Unnamed Tributary to Tetes Des Morts Creek	Bacteria: Indicator Bacteria- E. coli
	121	IA 01-TRK-0094_0	01-TRK-6589	Unnamed Tributary to Tetes Des Morts Creek	Bacteria: Indicator Bacteria- E. coli
	122	N/A	01-TRK-6620	Unnamed Tributary to Otter Creek	Fish Kill: Caused By Pesticides
	123	N/A	01-TRK-6638	Pine Creek	Bacteria: Indicator Bacteria- E. coli
	124	IA 01-UIA-0090_0	01-UIA-236	Upper Iowa River	Bacteria: Indicator Bacteria- E. coli
	125	IA 01-UIA-0090_0	01-UIA-236	Upper Iowa River	Fish Consumption Advisory: Mercury
	126	IA 01-UIA-0100_0	01-UIA-237	Upper Iowa River	Bacteria: Indicator Bacteria- E. coli

	127	IA 01-UIA-0100_0	01-UIA-237	Upper Iowa River	Fish Consumption Advisory: Mercury
	128	IA 01-UIA-0110_2	01-UIA-239	Upper Iowa River	Bacteria: Indicator Bacteria- E. coli
	129	IA 01-UIA-0110_2	01-UIA-239	Upper Iowa River	Biological: loss of native mussel species
	130	IA 01-UIA-0120_1	01-UIA-241	Upper Iowa River	Bacteria: Indicator Bacteria- E. coli
	131	IA 01-UIA-0120_1	01-UIA-241	Upper Iowa River	Biological: loss of native mussel species
	132	IA 01-UIA-0130_0	01-UIA-247	Irish Hollow Creek	Biological: low aquatic macroinvertebrate IBI
	133	IA 01-UIA-0140_0	01-UIA-248	French Creek	Bacteria: Indicator Bacteria- E. coli
	134	IA 01-UIA-0150_0	01-UIA-249	Clear Creek	Bacteria: Indicator Bacteria- E. coli
	135	IA 01-UIA-0160_0	01-UIA-250	Silver Creek	Bacteria: Indicator Bacteria- E. coli
	136	IA 01-UIA-0170_1	01-UIA-251	Bear Creek	Bacteria: Indicator Bacteria- E. coli
	137	IA 01-UIA-0170_2	01-UIA-252	Bear Creek (aka South Bear Creek)	Bacteria: Indicator Bacteria- E. coli
	138	IA 01-UIA-0180_0	01-UIA-253	Waterloo Creek	Bacteria: Indicator Bacteria- E. coli
	139	IA 01-UIA-0185_0	01-UIA-254	Duck Creek	Bacteria: Indicator Bacteria- E. coli
	140	IA 01-UIA-0190_0	01-UIA-255	North Bear Creek	Bacteria: Indicator Bacteria- E. coli
	141	IA 01-UIA-0210_0	01-UIA-257	Paint Creek (aka Pine Cr.)	Bacteria: Indicator Bacteria- E. coli
	142	IA 01-UIA-0230_0	01-UIA-259	Patterson Creek	Bacteria: Indicator Bacteria- E. coli
	143	IA 01-UIA-0240_1	01-UIA-260	Canoe Creek	Bacteria: Indicator Bacteria- E. coli
	144	IA 01-UIA-0270_0	01-UIA-265	Coon Creek	Bacteria: Indicator Bacteria- E. coli
	145	IA 01-UIA-0280_1	01-UIA-266	Trout Creek	Bacteria: Indicator Bacteria- E. coli

	146	IA 01-UIA-0300_1	01-UIA-269	Trout Creek (aka Trout Run)	Bacteria: Indicator Bacteria- E. coli
	147	IA 01-UIA-0300_1	01-UIA-269	Trout Creek (aka Trout Run)	Biological: low aquatic macroinvertebrate IBI
	148	IA 01-UIA-0320_0	01-UIA-272	Dry Run	Bacteria: Indicator Bacteria- E. coli
	149	IA 01-UIA-0320_0	01-UIA-272	Dry Run	Temperature: Thermal Modifications
	150	IA 01-UIA-0330_0	01-UIA-273	Twin Springs Creek	Bacteria: Indicator Bacteria- E. coli
	151	IA 01-UIA-0340_0	01-UIA-274	Ten Mile Creek	Bacteria: Indicator Bacteria- E. coli
	152	IA 01-UIA-0340_0	01-UIA-274	Ten Mile Creek	Biological: low aquatic macroinvertebrate IBI
	153	IA 01-UIA-0350_0	01-UIA-275	Unnamed Creek (aka Casey Spring Cr.)	Bacteria: Indicator Bacteria- E. coli
	154	IA 01-UIA-0370_0	01-UIA-278	Pine Creek	Bacteria: Indicator Bacteria- E. coli
	155	IA 01-UIA-0380_0	01-UIA-279	East Pine Creek	Biological: low aquatic macroinvertebrate IBI
	156	IA 01-UIA-0390_0	01-UIA-280	Unnamed Creek (aka Cold Water Cr.)	Bacteria: Indicator Bacteria- E. coli
	157	IA 01-UIA-0403_0	01-UIA-282	Silver Creek	Bacteria: Indicator Bacteria- E. coli
	158	IA 01-UIA-0407_0	01-UIA-283	Minor Creek	Bacteria: Indicator Bacteria- E. coli
	159	IA 01-UIA-0410_0	01-UIA-284	Nichols Creek (aka Bigalk Cr.)	Bacteria: Indicator Bacteria- E. coli
	160	IA 01-UIA-0410_0	01-UIA-284	Nichols Creek (aka Bigalk Cr.)	Temperature: Thermal Modifications
	161	IA 01-UIA-0420_1	01-UIA-286	Beaver Creek	Bacteria: Indicator Bacteria- E. coli
	162	IA 01-UIA-0420_1	01-UIA-286	Beaver Creek	Temperature: Thermal Modifications
	163	IA 01-UIA-0430_0	01-UIA-288	Staff Creek	Bacteria: Indicator Bacteria- E. coli

	164	IA 01-UIA-0135_0	01-UIA-6437	Clark Creek	Fish Kill: Caused By Animal Waste
	165	IA 01-UIA-0321_0	01-UIA-6552	Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	166	IA 01-UIA-0323_0	01-UIA-6554	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	167	IA 01-UIA-0324_0	01-UIA-6555	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	168	IA 01-UIA-0325_0	01-UIA-6556	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	169	IA 01-UIA-0326_0	01-UIA-6557	Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	170	IA 01-UIA-0327_0	01-UIA-6558	Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	171	IA 01-UIA-0404_0	01-UIA-6569	Unnamed Tributary to Silver Creek	Bacteria: Indicator Bacteria- E. coli
	172	IA 01-UIA-0182_0	01-UIA-6570	Unnamed Tributary to Waterloo Creek	Bacteria: Indicator Bacteria- E. coli
	173	IA 01-UIA-0304_0	01-UIA-6596	Siewers Spring	Bacteria: Indicator Bacteria- E. coli
	174	IA 01-UIA-0440_0	01-UIA-6597	Unnamed Tributary to Upper Iowa River	Bacteria: Indicator Bacteria- E. coli
	175	IA 01-UIA-0322_0	01-UIA-6600	Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria- E. coli
	176	IA 01-VOL-0010_3	01-VOL-291	Volga River	Fish Consumption Advisory: Mercury
	177	IA 01-VOL-0020_1	01-VOL-294	Volga River	Fish Consumption Advisory: Mercury

	178	IA 01-VOL-0020_2	01-VOL-295	Volga River	Fish Consumption Advisory: Mercury
	179	IA 01-VOL-0020_3	01-VOL-296	Volga River	Bacteria: Indicator Bacteria- E. coli
	180	IA 01-VOL-0030_1	01-VOL-297	Bear Creek	Bacteria: Indicator Bacteria- E. coli
	181	IA 01-VOL-0070_1	01-VOL-303	Cox Creek (aka Alderson Hollow)	Bacteria: Indicator Bacteria- E. coli
	182	IA 01-VOL-0070_2	01-VOL-304	Cox Creek (aka Alderson Hollow)	Biological: low aquatic macroinvertebrate IBI
	183	IA 01-VOL-0090_0	01-VOL-307	Hewett Creek	Bacteria: Indicator Bacteria- E. coli
	184	IA 01-VOL-0090_0	01-VOL-307	Hewett Creek	Temperature: Thermal Modifications
	185	IA 01-VOL-0090_0	01-VOL-307	Hewett Creek	Biological: low aquatic macroinvertebrate IBI
	186	IA 01-VOL-0110_1	01-VOL-314	Mink Creek	Bacteria: Indicator Bacteria- E. coli
	187	IA 01-VOL-0120_1	01-VOL-317	Brush Creek	Bacteria: Indicator Bacteria- E. coli
	188	IA 01-VOL-0120_2	01-VOL-318	Brush Creek	Biological: low aquatic macroinvertebrate IBI
	189	IA 01-VOL-0140_0	01-VOL-322	Grannis Creek	Bacteria: Indicator Bacteria- E. coli
	190	IA 01-VOL-0146_0	01-VOL-325	Unnamed Creek (aka Volga Lake Outlet)	Bacteria: Indicator Bacteria- E. coli
	191	IA 01-VOL-0150_1	01-VOL-328	Little Volga River	Bacteria: Indicator Bacteria- E. coli
	192	IA 01-VOL-0150_1	01-VOL-328	Little Volga River	Fish Consumption Advisory: Mercury
	193	IA 01-VOL-0160_0	01-VOL-330	North Branch Volga River	Bacteria: Indicator Bacteria- E. coli
	194	IA 01-VOL-0160_0	01-VOL-330	North Branch Volga River	Fish Consumption Advisory: Mercury
	195	IA 01-WPS-0010_1	01-WPS-332	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli

	196	IA 01-WPS-0010_2	01-WPS-333	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli
	197	IA 01-WPS-0010_4	01-WPS-335	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli
	198	IA 01-WPS-0010_5	01-WPS-336	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli
	199	IA 01-WPS-0020_1	01-WPS-340	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli
	200	IA 01-WPS-0020_4	01-WPS-343	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli
	201	IA 01-WPS-0030_5	01-WPS-354	Wapsipinicon River	Bacteria: Indicator Bacteria- E. coli
	202	IA 01-WPS-0030_5	01-WPS-354	Wapsipinicon River	Biological: low Biological Integrity
	203	IA 01-WPS-0030_5	01-WPS-354	Wapsipinicon River	Fish Kill: Due To Unknown Toxicity
	204	IA 01-WPS-00375-L_0	01-WPS-356	Lake Hendricks	Algal Growth: Chlorophyll a
	205	IA 01-WPS-00375-L_0	01-WPS-356	Lake Hendricks	pH
	206	IA 01-WPS-0050_1	01-WPS-358	Brophy Creek	Biological: low aquatic macroinvertebrate IBI
	207	IA 01-WPS-0109_0	01-WPS-372	Walnut Creek	Fish Kill: Caused By Animal Waste
	208	IA 01-WPS-0132_0	01-WPS-380	East Branch Buffalo Creek	Organic Enrichment: Low Dissolved Oxygen
	209	IA 01-WPS-0153_0	01-WPS-394	Unnamed Creek (near Hazleton)	Fish Kill: Caused By Animal Waste
	210	IA 01-WPS-0190_2	01-WPS-408	East Fork Wapsipinicon River	Biological: low fish & invert IBIs- cause unknown
	211	IA 01-WPS-0237_0	01-WPS-6457	unnamed tributary to Lake Hendricks	Bacteria: Indicator Bacteria- E. coli
	212	N/A	01-WPS-6618	West Branch Pine Creek	Fish Kill: Caused By Animal Waste
	213	IA 01-YEL-0161_0	01-YEL-2005	North Fork Yellow River	Bacteria: Indicator Bacteria- E. coli
	214	IA 01-YEL-0170_0	01-YEL-2059	Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria- E. coli

	215	IA 01-YEL-0170_0	01-YEL-2059	Unnamed Tributary to Yellow River	pH
	216	IA 01-YEL-0081_0	01-YEL-2060	Yellow River	pH
New	217	N/A	01-YEL-3066	Unnamed Tributary to North Fork Yellow River	Bacteria: Indicator Bacteria- E. coli
	218	IA 01-YEL-0010_2	01-YEL-427	Miners Creek	Biological: low aquatic macroinvertebrate IBI
	219	IA 01-YEL-0060_0	01-YEL-433	Bloody Run	Bacteria: Indicator Bacteria- E. coli
	220	IA 01-YEL-0080_1	01-YEL-435	Yellow River	Biological: low fish IBI
	221	IA 01-YEL-0080_2	01-YEL-436	Yellow River	Fish Kill: Due To Unknown Toxicity
	222	IA 01-YEL-0080_3	01-YEL-437	Yellow River	pH
	223	IA 01-YEL-0080_3	01-YEL-437	Yellow River	Biological: low fish IBI
	224	IA 01-YEL-0090_0	01-YEL-438	Dousman Creek	Organic Enrichment: Low Dissolved Oxygen
	225	IA 01-YEL-0100_0	01-YEL-439	Suttle Creek	Organic Enrichment: Low Dissolved Oxygen
	226	IA 01-YEL-0100_0	01-YEL-439	Suttle Creek	Biological: low aquatic macroinvertebrate IBI
	227	IA 01-YEL-0110_0	01-YEL-440	Unnamed Creek (aka Bear Cr.)	Organic Enrichment: Low Dissolved Oxygen
	228	IA 01-YEL-0120_1	01-YEL-441	Hickory Creek	Organic Enrichment: Low Dissolved Oxygen
	229	IA 01-YEL-0130_0	01-YEL-444	Norfolk Creek	Organic Enrichment: Low Dissolved Oxygen
	230	IA 01-YEL-0150_0	01-YEL-446	Unnamed Creek (aka, Ludlow Creek)	Biological: low fish & invert IBIs- cause unknown
	231	IA 01-YEL-0155_0	01-YEL-447	Unnamed Creek (aka Hecker Cr.)	Dissolved Solids: Chloride

	232	IA 01-YEL-0155_0	01-YEL-447	Unnamed Creek (aka Hecker Cr.)	Biological: low fish IBI
	233	IA 01-YEL-0155_0	01-YEL-447	Unnamed Creek (aka Hecker Cr.)	Fish Kill: Due To Unknown Toxicity
	234	IA 01-YEL-0160_0	01-YEL-448	North Fork Yellow River	Organic Enrichment: Low Dissolved Oxygen
	235	IA 01-YEL-0085_0	01-YEL-6574	Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria- E. coli
	236	IA 01-YEL-0085_0	01-YEL-6574	Unnamed Tributary to Yellow River	pH
	237	IA 01-YEL-0172_0	01-YEL-6575	Unnamed Tributary to Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria- E. coli
	238	IA 01-YEL-0172_0	01-YEL-6575	Unnamed Tributary to Unnamed Tributary to Yellow River	pH
	239	IA 01-YEL-0173_0	01-YEL-6582	Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria- E. coli
	240	IA 01-YEL-0173_0	01-YEL-6582	Unnamed Tributary to Yellow River	pH
	241	IA 02-CED-0234_0	02-CED-1880	East Branch Blue Creek	Fish Kill: Caused By Fertilizer Spill
	242	IA 02-CED-0391_0	02-CED-2062	Dry Run (South Branch)	Bacteria: Indicator Bacteria- E. coli
	243	IA 02-CED-0392_0	02-CED-2063	Dry Run (North Branch)	Bacteria: Indicator Bacteria- E. coli
New	244	N/A	02-CED-3026	Rock Creek	Bacteria: Indicator Bacteria- E. coli
New	245	N/A	02-CED-3027	Unnamed Tributary to Rock Creek	Bacteria: Indicator Bacteria- E. coli
	246	IA 02-CED-0010_0	02-CED-449	Cedar River	Bacteria: Indicator Bacteria- E. coli

	247	IA 02-CED-0020_2	02-CED-451	Cedar River	Biological: loss of native mussel species
	248	IA 02-CED-0030_2	02-CED-456	Cedar River	pH
	249	IA 02-CED-0030_3	02-CED-457	Cedar River	pH
	250	IA 02-CED-00310-L_0	02-CED-459	Pleasant Creek Lake	Bacteria: Indicator Bacteria- E. coli
	251	IA 02-CED-0040_2	02-CED-462	Cedar River	Bacteria: Indicator Bacteria- E. coli
	252	IA 02-CED-00460-L_0	02-CED-463	Meyers Lake	Algal Growth: Chlorophyll a
	253	IA 02-CED-0060_1	02-CED-469	Cedar River	Bacteria: Indicator Bacteria- E. coli
	254	IA 02-CED-0060_2	02-CED-470	Cedar River	Bacteria: Indicator Bacteria- E. coli
	255	IA 02-CED-0070_0	02-CED-472	Cedar River	Bacteria: Indicator Bacteria- E. coli
	256	IA 02-CED-0110_1	02-CED-477	Cedar River	Bacteria: Indicator Bacteria- E. coli
	257	IA 02-CED-0110_1	02-CED-477	Cedar River	Fish Consumption Advisory: Mercury
	258	IA 02-CED-0110_2	02-CED-478	Cedar River	Fish Consumption Advisory: Mercury
	259	IA 02-CED-0110_3	02-CED-479	Cedar River	Fish Consumption Advisory: Mercury
	260	IA 02-CED-0157_1	02-CED-485	Pike Run	Biological: low aquatic macroinvertebrate IBI
	261	IA 02-CED-0157_2	02-CED-486	Pike Run	Biological: low fish & invert IBIs- cause unknown
	262	IA 02-CED-0170_1	02-CED-489	Sugar Creek	Biological: low aquatic macroinvertebrate IBI
	263	IA 02-CED-0210_1	02-CED-504	Indian Creek	Bacteria: Indicator Bacteria- E. coli
	264	IA 02-CED-0210_1	02-CED-504	Indian Creek	Biological: low aquatic macroinvertebrate IBI
	265	IA 02-CED-0210_2	02-CED-505	Indian Creek	Bacteria: Indicator Bacteria- E. coli
	266	IA 02-CED-0217_0	02-CED-507	Dry Creek	Bacteria: Indicator Bacteria- E. coli

	267	IA 02-CED-0218_0	02-CED-508	McLoud Run	Bacteria: Indicator Bacteria- E. coli
	268	IA 02-CED-0218_0	02-CED-508	McLoud Run	Fish Kill: Due To Unknown Toxicity
	269	IA 02-CED-0218_0	02-CED-508	McLoud Run	Fish Kill: Caused By Chlorine
	270	IA 02-CED-0227_0	02-CED-513	Morgan Creek	Bacteria: Indicator Bacteria- E. coli
	271	IA 02-CED-0230_0	02-CED-514	Otter Creek	Bacteria: Indicator Bacteria- E. coli
	272	IA 02-CED-0231_0	02-CED-517	Bear Creek	Bacteria: Indicator Bacteria- E. coli
	273	IA 02-CED-0233_0	02-CED-518	Blue Creek	Bacteria: Indicator Bacteria- E. coli
	274	IA 02-CED-0235_0	02-CED-519	Mud Creek	Bacteria: Indicator Bacteria- E. coli
	275	IA 02-CED-0260_0	02-CED-523	Bear Creek	Bacteria: Indicator Bacteria- E. coli
	276	IA 02-CED-0270_1	02-CED-524	Lime Creek	Bacteria: Indicator Bacteria- E. coli
	277	IA 02-CED-0270_2	02-CED-525	Lime Creek	Bacteria: Indicator Bacteria- E. coli
New	278	IA 02-CED-02750-L_0	02-CED-526	Rodgers Park Lake	Organic Enrichment: Low Dissolved Oxygen
	279	IA 02-CED-0300_0	02-CED-530	Wolf Creek	Bacteria: Indicator Bacteria- E. coli
	280	IA 02-CED-0370_2	02-CED-546	Black Hawk Creek	Bacteria: Indicator Bacteria- E. coli
	281	IA 02-CED-0370_2	02-CED-546	Black Hawk Creek	Biological: low aquatic macroinvertebrate IBI
	282	IA 02-CED-0380_0	02-CED-550	Black Hawk Creek	Bacteria: Indicator Bacteria- E. coli
	283	IA 02-CED-0383_0	02-CED-551	North Black Hawk Creek	Bacteria: Indicator Bacteria- E. coli
	284	IA 02-CED-0385_0	02-CED-552	Holland Creek	Bacteria: Indicator Bacteria- E. coli
	285	IA 02-CED-0390_0	02-CED-554	Dry Run	Bacteria: Indicator Bacteria- E. coli

	286	IA 02-CED-0390_0	02-CED-554	Dry Run	Biological: low fish & invert IBIs- cause unknown
	287	IA 02-CED-0400_0	02-CED-555	Beaver Creek	Bacteria: Indicator Bacteria- E. coli
	288	IA 02-CED-0410_2	02-CED-557	Beaver Creek	Biological: low aquatic macroinvertebrate IBI
	289	IA 02-CED-0470_1	02-CED-574	Little Cedar River	Bacteria: Indicator Bacteria- E. coli
	290	IA 02-CED-0490_1	02-CED-580	Burr Oak Creek	Biological: low aquatic macroinvertebrate IBI
	291	IA 02-CED-0490_2	02-CED-581	Burr Oak Creek	Biological: low aquatic macroinvertebrate IBI
	292	IA 02-CED-0500_0	02-CED-582	Beaver Creek	Biological: low aquatic macroinvertebrate IBI
	293	IA 02-CED-0510_1	02-CED-585	Rock Creek	Bacteria: Indicator Bacteria- E. coli
	294	IA 02-CED-0510_2	02-CED-586	Rock Creek	Bacteria: Indicator Bacteria- E. coli
	295	IA 02-CED-0510_3	02-CED-587	Rock Creek	Bacteria: Indicator Bacteria- E. coli
	296	IA 02-CED-0510_4	02-CED-588	Rock Creek	Bacteria: Indicator Bacteria- E. coli
	297	IA 02-CED-0520_0	02-CED-589	Spring Creek	Bacteria: Indicator Bacteria- E. coli
	298	IA 02-CED-0530_0	02-CED-590	Turtle Creek	Bacteria: Indicator Bacteria- E. coli
	299	IA 02-CED-0540_1	02-CED-591	Deer Creek	Bacteria: Indicator Bacteria- E. coli
	300	IA 02-CED-0550_0	02-CED-594	Otter Creek	Bacteria: Indicator Bacteria- E. coli
	301	IA 02-CED-01545_0	02-CED-6262	Unnamed Tributary to West Branch Wapsinonoc Creek (aka Hoover Creek)	Bacteria: Indicator Bacteria- E. coli
New	302	IA 02-CED-0154_0	02-CED-6264	West Branch Wapsinonoc	Bacteria: Indicator Bacteria- E. coli

	303	IA 02-CED-0393_0	02-CED-6293	Dry Run	Bacteria: Indicator Bacteria- E. coli
	304	IA 02-CED-0394_0	02-CED-6294	Unnamed Tributary to Dry Run	Bacteria: Indicator Bacteria- E. coli
	305	IA 02-CED-0275_0	02-CED-6432	Unnamed Tributary to Lime Creek	Bacteria: Indicator Bacteria- E. coli
	306	IA 02-CED-03833_0	02-CED-6489	Mosquito Creek	Bacteria: Indicator Bacteria- E. coli
	307	IA 02-CED-03835_0	02-CED-6490	Minnehaha Creek	Bacteria: Indicator Bacteria- E. coli
	308	IA 02-CED-03855_0	02-CED-6491	Holland Creek	Bacteria: Indicator Bacteria- E. coli
	309	IA 02-CED-0525_0	02-CED-6565	Slough Creek	Bacteria: Indicator Bacteria- E. coli
	310	IA 02-CED-0521_0	02-CED-6566	Spring Creek	Bacteria: Indicator Bacteria- E. coli
	311	IA 02-CED-0522_0	02-CED-6567	Unnamed Tributary to Spring Creek	Bacteria: Indicator Bacteria- E. coli
	312	IA 02-CED-0522_0	02-CED-6567	Unnamed Tributary to Spring Creek	Toxic Inorganics: Ammonia
	313	IA 02-CED-0522_0	02-CED-6567	Unnamed Tributary to Spring Creek	Organic Enrichment: Low Dissolved Oxygen
	314	IA 02-CED-0115_0	02-CED-6593	Willow Creek	Bacteria: Indicator Bacteria- E. coli
	315	IA 02-CED-0551_0	02-CED-6594	Unnamed Tributary to Cedar River	Bacteria: Indicator Bacteria- E. coli
New	316	IA 02-CED-03905-L_0	02-CED-962	South Prairie Lake	pH
	317	IA 02-ICD-0027_0	02-ICD-602	Big Hollow Creek	Fish Kill: Caused By Other
	318	IA 02-ICD-0031_1	02-ICD-605	Cottonwood Drain	Biological: low fish & invert IBIs- cause unknown
	319	IA 02-ICD-00275-L_0	02-ICD-6496	Big Hollow Lake	Algal Growth: Chlorophyll a
	320	IA 02-ICD-00275-L_0	02-ICD-6496	Big Hollow Lake	pH

	321	IA 02-ICM-0010_2	02-ICM-619	Mississippi River	Metals: Aluminum
	322	IA 02-IOW-0155_1	02-IOW-1899	Ralston Creek	Toxic Organics: Priority Organics
	323	IA 02-IOW-0155_1	02-IOW-1899	Ralston Creek	Toxic Organics: Priority Organics
	324	IA 02-IOW-0155_1	02-IOW-1899	Ralston Creek	Toxic Organics: Priority Organics
	325	IA 02-IOW-0188_0	02-IOW-1916	Walnut Creek	Bacteria: Indicator Bacteria- E. coli
	326	IA 02-IOW-0162_0	02-IOW-2043	Muddy Creek	Bacteria: Indicator Bacteria- E. coli
	327	IA 02-IOW-0010_1	02-IOW-621	Iowa River	Bacteria: Indicator Bacteria- E. coli
	328	IA 02-IOW-0010_2	02-IOW-622	Iowa River	Bacteria: Indicator Bacteria- E. coli
	329	IA 02-IOW-0010_3	02-IOW-623	Iowa River	Bacteria: Indicator Bacteria- E. coli
	330	IA 02-IOW-0020_1	02-IOW-624	Iowa River	Bacteria: Indicator Bacteria- E. coli
	331	IA 02-IOW-0020_1	02-IOW-624	Iowa River	Biological: loss of native mussel species
	332	IA 02-IOW-0213_0	02-IOW-6263	Bennett Creek	Bacteria: Indicator Bacteria- E. coli
	333	IA 02-IOW-0030_1	02-IOW-627	Iowa River	Bacteria: Indicator Bacteria- E. coli
	334	IA 02-IOW-00390-L_0	02-IOW-629	Lake Macbride	Bacteria: Indicator Bacteria- E. coli
	335	IA 02-IOW-00390-L_0	02-IOW-629	Lake Macbride	Algal Growth: Chlorophyll a
	336	IA 02-IOW-0040-L_0	02-IOW-630	Coralville Reservoir	Turbidity
	337	IA 02-IOW-0156_0	02-IOW-6300	Unnamed Tributary to Ralston Creek	Fish Kill: Due To Unknown Toxicity
	338	IA 02-IOW-0189_0	02-IOW-6317	Unnamed Tributary to Walnut Creek	Bacteria: Indicator Bacteria- E. coli
	339	IA 02-IOW-0191_0	02-IOW-6318	Unnamed Tributary to Walnut Creek	Bacteria: Indicator Bacteria- E. coli

	340	IA 02-IOW-0050_1	02-IOW-633	Iowa River	Bacteria: Indicator Bacteria- E. coli
	341	IA 02-IOW-0050_1	02-IOW-633	Iowa River	Fish Consumption Advisory: Mercury
	342	IA 02-IOW-0050_2	02-IOW-634	Iowa River	Fish Consumption Advisory: Mercury
	343	IA 02-IOW-0050_3	02-IOW-635	Iowa River	Fish Consumption Advisory: Mercury
	344	IA 02-IOW-0295_0	02-IOW-6362	Beaver Creek	Bacteria: Indicator Bacteria- E. coli
	345	IA 02-IOW-0297_0	02-IOW-6363	South Beaver Creek	Bacteria: Indicator Bacteria- E. coli
	346	IA 02-IOW-0302_0	02-IOW-6364	Unnamed Tributary to Tipton Creek	Bacteria: Indicator Bacteria- E. coli
	347	IA 02-IOW-0176_0	02-IOW-6377	Price Creek	Bacteria: Indicator Bacteria- E. coli
	348	IA 02-IOW-0060_1	02-IOW-638	Iowa River	Fish Consumption Advisory: Mercury
	349	IA 02-IOW-0060_2	02-IOW-639	Iowa River	Fish Consumption Advisory: Mercury
	350	IA 02-IOW-0098_0	02-IOW-6396	Prairie Creek	Wastewater
	351	IA 02-IOW-0060_3	02-IOW-640	Iowa River	Bacteria: Indicator Bacteria- E. coli
	352	IA 02-IOW-0060_3	02-IOW-640	Iowa River	Fish Consumption Advisory: Mercury
	353	IA 02-IOW-01485_0	02-IOW-6401	Unnamed tributary to Snyder Creek	Wastewater
	354	IA 02-IOW-00865_2	02-IOW-6403	Roff Creek	Wastewater
	355	IA 02-IOW-0060_4	02-IOW-641	Iowa River	Bacteria: Indicator Bacteria- E. coli
	356	IA 02-IOW-0060_4	02-IOW-641	Iowa River	Fish Consumption Advisory: Mercury
	357	IA 02-IOW-01608_0	02-IOW-6412	Rhine Creek	Fish Kill: Caused By Pesticides
	358	IA 02-IOW-0060_5	02-IOW-642	Iowa River	Bacteria: Indicator Bacteria- E. coli
	359	IA 02-IOW-0060_5	02-IOW-642	Iowa River	Fish Consumption Advisory: Mercury

	360	IA 02-IOW-0070_1	02-IOW-644	Iowa River	Fish Consumption Advisory: Mercury
	361	IA 02-IOW-0070_2	02-IOW-645	Iowa River	Fish Consumption Advisory: Mercury
	362	IA 02-IOW-0070_3	02-IOW-646	Iowa River	Bacteria: Indicator Bacteria- E. coli
	363	IA 02-IOW-0070_3	02-IOW-646	Iowa River	Fish Consumption Advisory: Mercury
	364	IA 02-IOW-0070_4	02-IOW-647	Iowa River	Fish Consumption Advisory: Mercury
	365	IA 02-IOW-0070_5	02-IOW-648	Iowa River	Fish Consumption Advisory: Mercury
	366	IA 02-IOW-0080_2	02-IOW-651	Iowa River	Bacteria: Indicator Bacteria- E. coli
	367	IA 02-IOW-0225_0	02-IOW-6538	Deer Creek	Bacteria: Indicator Bacteria- E. coli
	368	IA 02-IOW-0226_0	02-IOW-6539	East Tributary to Union Grove Lake	Bacteria: Indicator Bacteria- E. coli
	369	IA 02-IOW-0381_0	02-IOW-6550	Drainage Ditch 13	Bacteria: Indicator Bacteria- E. coli
	370	IA 02-IOW-0382_0	02-IOW-6551	Drainage Ditch 81	Bacteria: Indicator Bacteria- E. coli
	371	IA 02-IOW-0382_0	02-IOW-6551	Drainage Ditch 81	Organic Enrichment: Low Dissolved Oxygen
	372	IA 02-IOW-0395_0	02-IOW-6559	Unnamed Tributary to East Branch Iowa River	Bacteria: Indicator Bacteria- E. coli
	373	IA 02-IOW-0500_0	02-IOW-6563	Little Bear Creek	Bacteria: Indicator Bacteria- E. coli
	374	IA 02-IOW-00870-L_0	02-IOW-657	Elm Lake	Algal Growth: Chlorophyll a
	375	IA 02-IOW-00870-L_0	02-IOW-657	Elm Lake	Turbidity: Suspended Solids
	376	IA 02-IOW-00890-L_0	02-IOW-658	Morse Lake	Algal Growth: Chlorophyll a
	377	IA 02-IOW-00890-L_0	02-IOW-658	Morse Lake	Turbidity: Suspended Solids
	378	IA 02-IOW-0177_0	02-IOW-6586	Willow Creek	Bacteria: Indicator Bacteria- E. coli

	379	IA 02-IOW-0179_0	02-IOW-6587	Unnamed Tributary to Willow Creek	Bacteria: Indicator Bacteria- E. coli
	380	IA 02-IOW-0166_0	02-IOW-6588	Unnamed Tributary to Muddy Creek	Bacteria: Indicator Bacteria- E. coli
	381	IA 02-IOW-0166_0	02-IOW-6588	Unnamed Tributary to Muddy Creek	Organic Enrichment: Low Dissolved Oxygen
	382	IA 02-IOW-0510_0	02-IOW-6590	Unnamed Tributary to Walnut Creek	Bacteria: Indicator Bacteria- E. coli
	383	IA 02-IOW-0100_1	02-IOW-671	English River	Bacteria: Indicator Bacteria- E. coli
	384	IA 02-IOW-01150-L_0	02-IOW-677	Iowa Lake	Bacteria: Indicator Bacteria- E. coli
	385	IA 02-IOW-01150-L_0	02-IOW-677	Iowa Lake	Fish Consumption Advisory: Mercury
	386	IA 02-IOW-0150_1	02-IOW-685	Old Mans Creek	Biological: low fish & invert IBIs- cause unknown
	387	IA 02-IOW-0150_2	02-IOW-686	Old Mans Creek	Bacteria: Indicator Bacteria- E. coli
	388	IA 02-IOW-0150_2	02-IOW-686	Old Mans Creek	Biological: low fish IBI
	389	IA 02-IOW-01630-L_0	02-IOW-694	Kent Park Lake	Bacteria: Indicator Bacteria- E. coli
	390	IA 02-IOW-0175_2	02-IOW-699	Price Creek	Bacteria: Indicator Bacteria- E. coli
	391	IA 02-IOW-0180_2	02-IOW-702	Bear Creek	Biological: low fish & invert IBIs- cause unknown
	392	IA 02-IOW-0185_1	02-IOW-705	Little Bear Creek	Bacteria: Indicator Bacteria- E. coli
	393	IA 02-IOW-0185_1	02-IOW-705	Little Bear Creek	Biological: low fish & invert IBIs- cause unknown
	394	IA 02-IOW-0185_2	02-IOW-706	Little Bear Creek	Bacteria: Indicator Bacteria- E. coli
	395	IA 02-IOW-0187_1	02-IOW-708	Walnut Creek	Biological: low aquatic macroinvertebrate IBI
	396	IA 02-IOW-0187_2	02-IOW-709	Walnut Creek	Bacteria: Indicator Bacteria- E. coli

	397	IA 02-IOW-0187_2	02-IOW-709	Walnut Creek	Biological: low fish IBI
	398	IA 02-IOW-0215_0	02-IOW-723	Raven Creek	Bacteria: Indicator Bacteria- E. coli
	399	IA 02-IOW-0270_0	02-IOW-746	South Fork Iowa River	Bacteria: Indicator Bacteria- E. coli
	400	IA 02-IOW-0270_0	02-IOW-746	South Fork Iowa River	Organic Enrichment: Low Dissolved Oxygen
	401	IA 02-IOW-0280_2	02-IOW-748	South Fork Iowa River	Biological: low aquatic macroinvertebrate IBI
	402	IA 02-IOW-0280_3	02-IOW-749	South Fork Iowa River	Bacteria: Indicator Bacteria- E. coli
	403	IA 02-IOW-0280_4	02-IOW-750	South Fork Iowa River	Bacteria: Indicator Bacteria- E. coli
	404	IA 02-IOW-0280_4	02-IOW-750	South Fork Iowa River	Fish Kill: Caused By Silage Runoff
	405	IA 02-IOW-0280_5	02-IOW-751	South Fork Iowa River	Bacteria: Indicator Bacteria- E. coli
	406	IA 02-IOW-0280_5	02-IOW-751	South Fork Iowa River	Fish Kill: Caused By Silage Runoff
	407	IA 02-IOW-0282_0	02-IOW-752	South Fork Iowa River	Bacteria: Indicator Bacteria- E. coli
	408	IA 02-IOW-0290_0	02-IOW-753	Beaver Creek	Bacteria: Indicator Bacteria- E. coli
	409	IA 02-IOW-0290_0	02-IOW-753	Beaver Creek	Organic Enrichment: Low Dissolved Oxygen
	410	IA 02-IOW-0300_1	02-IOW-754	Tipton Creek	Bacteria: Indicator Bacteria- E. coli
	411	IA 02-IOW-0300_2	02-IOW-755	Tipton Creek	Bacteria: Indicator Bacteria- E. coli
	412	IA 02-IOW-0330-L_0	02-IOW-758	Lower Pine Lake	Bacteria: Indicator Bacteria- E. coli
	413	IA 02-IOW-0380_1	02-IOW-769	East Branch Iowa River	Bacteria: Indicator Bacteria- E. coli
	414	IA 02-IOW-0380_1	02-IOW-769	East Branch Iowa River	Biological: low aquatic macroinvertebrate IBI
	415	IA 02-IOW-0380_3	02-IOW-771	East Branch Iowa River	Bacteria: Indicator Bacteria- E. coli

	416	IA 02-IOW-03830-L_0	02-IOW-773	Eldred Sherwood Lake	Bacteria: Indicator Bacteria- E. coli
New	417	IA 02-IOW-03830-L_0	02-IOW-773	Eldred Sherwood Lake	Algal Growth: Chlorophyll a
	418	IA 02-IOW-0390_0	02-IOW-774	Galls Creek	Bacteria: Indicator Bacteria- E. coli
	419	IA 02-IOW-04045-L_0	02-IOW-778	West Twin Lake	Algal Growth: Chlorophyll a
	420	IA 02-IOW-04045-L_0	02-IOW-778	West Twin Lake	Turbidity: Suspended Solids
	421	IA 02-SHL-00105-L_0	02-SHL-1790	Avenue Of The Saints Lake	pH
	422	IA 02-SHL-00105-L_0	02-SHL-1790	Avenue Of The Saints Lake	Algal Growth: Chlorophyll a
	423	IA 02-SHL-00105-L_0	02-SHL-1790	Avenue Of The Saints Lake	Turbidity
	424	IA 02-SHL-0010_1	02-SHL-782	Shell Rock River	Fish Consumption Advisory: Mercury
New	425	IA 02-SHL-0010_2	02-SHL-783	Shell Rock River	Bacteria: Indicator Bacteria- E. coli
	426	IA 02-SHL-0010_2	02-SHL-783	Shell Rock River	Fish Consumption Advisory: Mercury
	427	IA 02-SHL-0010_3	02-SHL-784	Shell Rock River	Fish Consumption Advisory: Mercury
	428	IA 02-SHL-0020_2	02-SHL-787	Shell Rock River	Bacteria: Indicator Bacteria- E. coli
	429	IA 02-SHL-0020_2	02-SHL-787	Shell Rock River	Organic Enrichment: Low Dissolved Oxygen
	430	IA 02-SHL-0021_0	02-SHL-788	Flood Creek	Bacteria: Indicator Bacteria- E. coli
	431	IA 02-SHL-00235_0	02-SHL-790	Palmer Creek	Fish Kill: Caused By Animal Waste
	432	IA 02-SHL-00295-L_0	02-SHL-796	Silver Lake	pH
New	433	IA 02-WFC-0145_0	02-WFC-2075	Unnamed Tributary to West Fork Cedar River	Fish Kill: Due To Unknown Toxicity
	434	IA 02-WFC-0020_1	02-WFC-801	West Fork Cedar River	Bacteria: Indicator Bacteria- E. coli
	435	IA 02-WFC-0090-L_0	02-WFC-818	Beeds Lake	Algal Growth: Chlorophyll a

	436	IA 02-WFC-0110_0	02-WFC-820	Bailey Creek	Biological: low fish & invert IBIs- cause unknown
	437	IA 02-WFC-0110_0	02-WFC-820	Bailey Creek	Pesticides
	438	IA 02-WIN-0081_0	02-WIN-1837	Beaver Creek	Organic Enrichment: Low Dissolved Oxygen
	439	IA 02-WIN-0010_1	02-WIN-826	Winnebago River	Bacteria: Indicator Bacteria- E. coli
	440	IA 02-WIN-0010_2	02-WIN-827	Winnebago River	Bacteria: Indicator Bacteria- E. coli
	441	IA 02-WIN-0020_2	02-WIN-831	Winnebago River	Biological: low fish & invert IBIs- cause unknown
	442	IA 02-WIN-00210-L_0	02-WIN-832	Rice Lake	Algal Growth: Chlorophyll a
	443	IA 02-WIN-00210-L_0	02-WIN-832	Rice Lake	Turbidity
	444	IA 02-WIN-00450-L_0	02-WIN-841	Clear Lake	Bacteria: Indicator Bacteria- E. coli
	445	IA 02-WIN-0050_0	02-WIN-845	Calmus Creek	Biological: low fish & invert IBIs- cause unknown
	446	IA 03-NSK-0010_1	03-NSK-853	North Skunk River	Bacteria: Indicator Bacteria- E. coli
	447	IA 03-NSK-0010_1	03-NSK-853	North Skunk River	Metals: Chromium
	448	IA 03-NSK-0010_2	03-NSK-854	North Skunk River	Bacteria: Indicator Bacteria- E. coli
	449	IA 03-NSK-0010_2	03-NSK-854	North Skunk River	Metals: Chromium
	450	IA 03-NSK-0020_2	03-NSK-859	North Skunk River	Biological: low fish & invert IBIs- cause unknown
	451	IA 03-NSK-00250-L_0	03-NSK-862	Hawthorn Lake	Algal Growth: Chlorophyll a
	452	IA 03-NSK-00340-L_0	03-NSK-865	Rock Creek Lake	Bacteria: Indicator Bacteria- E. coli
	453	IA 03-SKM-0010_1	03-SKM-884	Mississippi River	Metals: Aluminum
	454	IA 03-SKM-00178-L_0	03-SKM-888	Pollmiller Park Lake	Fish Consumption Advisory: Mercury
	455	IA 03-SKU-0081_0	03-SKU-6271	South Big Creek	Fish Kill: Caused By Pesticides

	456	IA 03-SKU-00835_1	03-SKU-6410	Unnamed tributary to Brush Creek	Wastewater
	457	IA 03-SKU-0061_0	03-SKU-6549	Cedar Creek	Bacteria: Indicator Bacteria- E. coli
	458	IA 03-SKU-0063_0	03-SKU-6573	Unnamed Tributary to Cedar Creek	Bacteria: Indicator Bacteria- E. coli
	459	IA 03-SKU-0064_0	03-SKU-6581	Unnamed Tributary to Cedar Creek	Bacteria: Indicator Bacteria- E. coli
	460	IA 03-SKU-0065_0	03-SKU-6585	Unnamed Tributary to Cedar Creek	Bacteria: Indicator Bacteria- E. coli
	461	IA 03-SKU-0066_0	03-SKU-6591	Unnamed Tributary to Lake Geode	Bacteria: Indicator Bacteria- E. coli
	462	IA 03-SKU-0010_1	03-SKU-889	Skunk River	Bacteria: Indicator Bacteria- E. coli
	463	IA 03-SKU-00650-L_0	03-SKU-896	Geode Lake	Fish Consumption Advisory: Mercury
	464	IA 03-SKU-0085_0	03-SKU-902	Saunders Branch	Toxic Inorganics: Ammonia
	465	IA 03-SKU-0085_0	03-SKU-902	Saunders Branch	Toxic Organics: Coal Tar
	466	IA 03-SKU-0085_0	03-SKU-902	Saunders Branch	Organic Enrichment: Low Dissolved Oxygen
	467	IA 03-SKU-0090_1	03-SKU-905	Cedar Creek	Bacteria: Indicator Bacteria- E. coli
New	468	IA 03-SKU-01450-L_0	03-SKU-924	Lake Darling	Bacteria: Indicator Bacteria- E. coli
	469	IA 03-SSK-0056-L_0	03-SSK-1918	Lake Petocka (formerly Lake Patoka)	Fish Kill: Caused By Chlorine
	470	IA 03-SSK-0091_0	03-SSK-2007	Long Dick Creek	Bacteria: Indicator Bacteria- E. coli
	471	IA 03-SSK-0091_0	03-SSK-2007	Long Dick Creek	Fish Kill: Caused By Animal Waste
	472	IA 03-SSK-0091_0	03-SSK-2007	Long Dick Creek	Fish Kill: Caused By Pesticides
New	473	N/A	03-SSK-3053	Ballard Creek	Fish Kill: Caused By Animal Waste

	474	IA 03-SSK-0170_0	03-SSK-6508	Montgomery Creek	Bacteria: Indicator Bacteria- E. coli
	475	IA 03-SSK-0175_0	03-SSK-6598	Prairie Creek	Bacteria: Indicator Bacteria- E. coli
	476	IA 03-SSK-0160_0	03-SSK-6599	Unnamed Tributary to Squaw Creek	Bacteria: Indicator Bacteria- E. coli
New	477	N/A	03-SSK-6626	Wolf Creek	Fish Kill: Due To Unknown Toxicity
	478	IA 03-SSK-0010_2	03-SSK-926	South Skunk River	Bacteria: Indicator Bacteria- E. coli
	479	IA 03-SSK-0010_3	03-SSK-927	South Skunk River	Bacteria: Indicator Bacteria- E. coli
	480	IA 03-SSK-00118-L_0	03-SSK-929	White Oak Conservation Area Lake	Algal Growth: Chlorophyll a
	481	IA 03-SSK-00120-L_0	03-SSK-930	Lake Keomah	Bacteria: Indicator Bacteria- E. coli
	482	IA 03-SSK-00120-L_0	03-SSK-930	Lake Keomah	Organic Enrichment: Low Dissolved Oxygen
	483	IA 03-SSK-00120-L_0	03-SSK-930	Lake Keomah	Fish Consumption Advisory: Mercury
	484	IA 03-SSK-0020_1	03-SSK-931	South Skunk River	Bacteria: Indicator Bacteria- E. coli
	485	IA 03-SSK-0030_2	03-SSK-934	South Skunk River	Bacteria: Indicator Bacteria- E. coli
	486	IA 03-SSK-0030_2	03-SSK-934	South Skunk River	Biological: low fish & invert IBIs- cause unknown
	487	IA 03-SSK-0030_3	03-SSK-935	South Skunk River	Biological: low aquatic macroinvertebrate IBI
	488	IA 03-SSK-0040_0	03-SSK-943	Indian Creek	Bacteria: Indicator Bacteria- E. coli
	489	IA 03-SSK-0040_0	03-SSK-943	Indian Creek	Biological: low aquatic macroinvertebrate IBI
	490	IA 03-SSK-00530-L_0	03-SSK-950	Hickory Grove Lake	Bacteria: Indicator Bacteria- E. coli
	491	IA 03-SSK-00530-L_0	03-SSK-950	Hickory Grove Lake	Algal Growth: Chlorophyll a

	492	IA 03-SSK-0058_0	03-SSK-953	Walnut Creek	Biological: low fish IBI
	493	IA 03-SSK-0090_0	03-SSK-960	Long Dick Creek	Biological: low aquatic macroinvertebrate IBI
	494	IA 04-EDM-0090_2	04-EDM-985	Buffalo Creek	Biological: low fish IBI
	495	IA 04-EDM-0090_3	04-EDM-986	Buffalo Creek	Biological: low fish IBI
	496	IA 04-FAB-0010_0	04-FAB-992	North Fabius River	Biological: low fish IBI
	497	IA 04-FOX-0010_1	04-FOX-994	Fox River	Biological: low fish IBI
	498	IA 04-FOX-0010_2	04-FOX-995	Fox River	Bacteria: Indicator Bacteria- E. coli
	499	IA 04-FOX-0010_2	04-FOX-995	Fox River	Biological: low fish IBI
	500	IA 04-LDM-0010_1	04-LDM-1002	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	501	IA 04-LDM-0010_2	04-LDM-1003	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	502	IA 04-LDM-0010_3	04-LDM-1004	Des Moines River	Fish Kill: Due To Unknown Toxicity
	503	IA 04-LDM-0010_4	04-LDM-1005	Des Moines River	Fish Kill: Due To Unknown Toxicity
	504	IA 04-LDM-0020_1	04-LDM-1010	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	505	IA 04-LDM-0020_1	04-LDM-1010	Des Moines River	Fish Kill: Due To Unknown Toxicity
	506	IA 04-LDM-00270-L_0	04-LDM-1016	Lake Miami	Fish Consumption Advisory: Mercury
	507	IA 04-LDM-0030-L_0	04-LDM-1017	Red Rock Reservoir	Bacteria: Indicator Bacteria- E. coli
	508	IA 04-LDM-0030-L_0	04-LDM-1017	Red Rock Reservoir	Turbidity
	509	IA 04-LDM-00380-L_0	04-LDM-1019	Roberts Creek Lake	Turbidity
New	510	IA 04-LDM-00380-L_0	04-LDM-1019	Roberts Creek Lake	Algal Growth: Chlorophyll a
	511	IA 04-LDM-0090_2	04-LDM-1033	Soap Creek	Biological: low fish IBI

	512	IA 04-LDM-00995-L_0	04-LDM-1035	Lake Wapello	Bacteria: Indicator Bacteria- E. coli
	513	IA 04-LDM-00995-L_0	04-LDM-1035	Lake Wapello	Turbidity: Secchi Disk Transparency
	514	IA 04-LDM-00995-L_0	04-LDM-1035	Lake Wapello	Fish Consumption Advisory: Mercury
	515	IA 04-LDM-0130_0	04-LDM-1045	Miller Creek	Fish Kill: Due To Unknown Toxicity
New	516	IA 04-LDM-0133_0	04-LDM-1046	Unnamed Creek (near Eddyville)	Fish Kill: Caused By Wastewater
	517	IA 04-LDM-0140_1	04-LDM-1048	Muchakinock Creek	Biological: low fish & invert IBIs- cause unknown
	518	IA 04-LDM-0140_2	04-LDM-1049	Muchakinock Creek	Biological: low fish IBI
	519	IA 04-LDM-0160_0	04-LDM-1053	Cedar Creek	Bacteria: Indicator Bacteria- E. coli
	520	IA 04-LDM-0170_0	04-LDM-1054	Cedar Creek	Biological: low fish & invert IBIs- cause unknown
	521	IA 04-LDM-0190_0	04-LDM-1057	English Creek	Biological: low aquatic macroinvertebrate IBI
	522	IA 04-LDM-0200_0	04-LDM-1059	White Breast Creek	Bacteria: Indicator Bacteria- E. coli
	523	IA 04-LDM-02190-L_0	04-LDM-1065	East Lake (Osceola)	pH
	524	IA 04-LDM-02296-L_0	04-LDM-1073	Red Haw Lake	Fish Consumption Advisory: Mercury
	525	IA 04-LDM-0230_0	04-LDM-1074	South River	Bacteria: Indicator Bacteria- E. coli
	526	IA 04-LDM-02615-L_0	04-LDM-1080	Lake Ahquabi	Bacteria: Indicator Bacteria- E. coli
	527	IA 04-LDM-02615-L_0	04-LDM-1080	Lake Ahquabi	Algal Growth: Chlorophyll a
	528	IA 04-LDM-0270_0	04-LDM-1083	Middle River	Bacteria: Indicator Bacteria- E. coli
	529	IA 04-LDM-0270_0	04-LDM-1083	Middle River	Biological: low Biological Integrity
	530	IA 04-LDM-02725-L_0	04-LDM-1085	South Banner Lake	Fish Consumption Advisory: Mercury

	531	IA 04-LDM-02870-L_0	04-LDM-1089	Meadow Lake	Algal Growth: Chlorophyll a
	532	IA 04-LDM-0300_2	04-LDM-1097	North River	Bacteria: Indicator Bacteria- E. coli
	533	IA 04-LDM-0300_2	04-LDM-1097	North River	Biological: low fish IBI
New	534	IA 04-LDM-03080-L_0	04-LDM-1100	Badger Creek Lake	pH
	535	IA 04-LDM-0210_2	04-LDM-1825	White Breast Creek	Biological: low fish & invert IBIs- cause unknown
	536	IA 04-LDM-0350_0	04-LDM-1947	Bear Creek	Organic Enrichment: Low Dissolved Oxygen
	537	IA 04-LDM-02726-L_0	04-LDM-1988	North Banner Lake	Fish Consumption Advisory: Mercury
	538	IA 04-LDM-02700-L_0	04-LDM-6311	Grade Lake	Fish Consumption Advisory: Mercury
	539	IA 04-RAC-00475-L_0	04-RAC-1134	Black Hawk Lake	Bacteria: Indicator Bacteria- E. coli
	540	IA 04-RAC-0050_2	04-RAC-1139	North Raccoon River	Biological: low fish & invert IBIs- cause unknown
	541	IA 04-RAC-00530-L_0	04-RAC-1143	Storm Lake	Bacteria: Indicator Bacteria- E. coli
	542	IA 04-RAC-0120_0	04-RAC-1159	Purgatory Creek	Fish Kill: Caused By Pesticides
	543	IA 04-RAC-0123_0	04-RAC-1160	Marrowbone Creek	Biological: low aquatic macroinvertebrate IBI
	544	IA 04-RAC-0123_0	04-RAC-1160	Marrowbone Creek	Organic Enrichment: Low Dissolved Oxygen
	545	IA 04-RAC-0127_0	04-RAC-1161	Elk Run	Fish Kill: Caused By Animal Waste
	546	IA 04-RAC-01390-L_0	04-RAC-1167	North Twin Lake	Bacteria: Indicator Bacteria- E. coli
	547	IA 04-RAC-01395-L_0	04-RAC-1168	South Twin Lake	Algal Growth: Chlorophyll a
	548	IA 04-RAC-01395-L_0	04-RAC-1168	South Twin Lake	Turbidity
	549	IA 04-RAC-01690-L_0	04-RAC-1180	Pickerel Lake	Algal Growth: Chlorophyll a

	550	IA 04-RAC-01690-L_0	04-RAC-1180	Pickerel Lake	Turbidity: Siltation/Turbidity
	551	IA 04-RAC-01690-L_0	04-RAC-1180	Pickerel Lake	Algal Growth: Chlorophyll a
	552	IA 04-RAC-01690-L_0	04-RAC-1180	Pickerel Lake	Turbidity: Siltation/Turbidity
	553	IA 04-RAC-0170_0	04-RAC-1181	South Raccoon River	Bacteria: Indicator Bacteria- E. coli
	554	IA 04-RAC-0180_1	04-RAC-1183	South Raccoon River	Fish Kill: Caused By Fertilizer Spill
	555	IA 04-RAC-02220-L_0	04-RAC-1196	Springbrook Lake	Bacteria: Indicator Bacteria- E. coli
New	556	IA 04-RAC-02220-L_0	04-RAC-1196	Springbrook Lake	Algal Growth: Chlorophyll a
New	557	IA 04-RAC-02370-L_0	04-RAC-1199	Swan Lake	Organic Enrichment: Low Dissolved Oxygen
	558	IA 04-RAC-0250_0	04-RAC-1208	Brushy Creek	Fish Kill: Caused By Fertilizer Spill
	559	IA 04-RAC-0253_0	04-RAC-1209	Brushy Creek	Fish Kill: Caused By Fertilizer Spill
	560	IA 04-RAC-0251_0	04-RAC-1818	Brushy Creek	Fish Kill: Caused By Animal Waste
	561	IA 04-RAC-01695_0	04-RAC-1883	Poor Farm Creek	Fish Kill: Caused By Fuel Spill
	562	IA 04-RAC-0254_0	04-RAC-6537	Unnamed Tributary to Brushy Creek (Halburn Creek)	Fish Kill: Caused By Fertilizer Spill
	563	IA 04-UDM-0020-L_0	04-UDM-1213	Saylorville Reservoir	Turbidity: Secchi Disk Transparency
	564	IA 04-UDM-0030_1	04-UDM-1214	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	565	IA 04-UDM-0030_2	04-UDM-1215	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	566	IA 04-UDM-0040_1	04-UDM-1216	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	567	IA 04-UDM-0040_2	04-UDM-1217	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	568	IA 04-UDM-0060_0	04-UDM-1219	Des Moines River	Bacteria: Indicator Bacteria- E. coli

	569	IA 04-UDM-0070_0	04-UDM-1220	Des Moines River	Bacteria: Indicator Bacteria- E. coli
	570	IA 04-UDM-0070_0	04-UDM-1220	Des Moines River	Fish Consumption Advisory: Mercury
	571	IA 04-UDM-0080_0	04-UDM-1221	Des Moines River	Fish Consumption Advisory: Mercury
	572	IA 04-UDM-0090_1	04-UDM-1222	Des Moines River	Fish Consumption Advisory: Mercury
	573	IA 04-UDM-0090_2	04-UDM-1223	Des Moines River	Fish Consumption Advisory: Mercury
New	574	IA 04-UDM-01020-L_0	04-UDM-1229	Silver Lake	pH
	575	IA 04-UDM-01060-L_0	04-UDM-1231	Twelve-mile Lake	Algal Growth: Chlorophyll a
	576	IA 04-UDM-01060-L_0	04-UDM-1231	Twelve-mile Lake	Turbidity: Suspended Solids
	577	IA 04-UDM-0110_1	04-UDM-1233	Beaver Creek	Bacteria: Indicator Bacteria- E. coli
	578	IA 04-UDM-0110_1	04-UDM-1233	Beaver Creek	Biological: low aquatic macroinvertebrate IBI
	579	IA 04-UDM-0150_0	04-UDM-1243	Big Creek	Bacteria: Indicator Bacteria- E. coli
New	580	IA 04-UDM-01650-L_0	04-UDM-1249	Don Williams Lake	Bacteria: Indicator Bacteria- E. coli
	581	IA 04-UDM-0170_0	04-UDM-1250	Skillet Creek	Biological: low Biological Integrity
	582	IA 04-UDM-0180_1	04-UDM-1252	Boone River	Bacteria: Indicator Bacteria- E. coli
	583	IA 04-UDM-01880-L_0	04-UDM-1255	Briggs Woods Lake	pH
	584	IA 04-UDM-0190_0	04-UDM-1256	Boone River	Fish Kill: Due To Unknown Toxicity
	585	IA 04-UDM-0215_0	04-UDM-1260	Lyons Creek	Bacteria: Indicator Bacteria- E. coli
	586	IA 04-UDM-0215_0	04-UDM-1260	Lyons Creek	Fish Kill: Due To Unknown Toxicity
	587	IA 04-UDM-0253_1	04-UDM-1270	West Otter Creek	Fish Kill: Due To Unknown Toxicity
	588	IA 04-UDM-0275-L_0	04-UDM-1276	Brushy Creek Lake	Bacteria: Indicator Bacteria- E. coli

	589	IA 04-UDM-0300_1	04-UDM-1278	Lizard Creek	Bacteria: Indicator Bacteria- E. coli
	590	IA 04-UDM-0300_1	04-UDM-1278	Lizard Creek	Biological: low aquatic macroinvertebrate IBI
	591	IA 04-UDM-03110-L_0	04-UDM-1281	Lizard Lake	Algal Growth: Chlorophyll a
	592	IA 04-UDM-03110-L_0	04-UDM-1281	Lizard Lake	Turbidity: Suspended Solids
New	593	IA 04-UDM-03395-L_0	04-UDM-1291	Badger Lake	Algal Growth: Chlorophyll a
	594	IA 04-UDM-03990-L_0	04-UDM-1304	High Lake	Algal Growth: Chlorophyll a
	595	IA 04-UDM-03990-L_0	04-UDM-1304	High Lake	Turbidity: Suspended Solids
	596	IA 04-UDM-03983-L_0	04-UDM-1754	West Swan Lake	Algal Growth: Chlorophyll a
	597	IA 04-UDM-03983-L_0	04-UDM-1754	West Swan Lake	Turbidity: Suspended Solids
	598	IA 04-UDM-0247_0	04-UDM-1826	Buttermilk Creek	Bacteria: Indicator Bacteria- E. coli
	599	IA 04-UDM-0202_0	04-UDM-6494	Drainage Ditch 97	Fish Kill: Caused By Fertilizer Spill
	600	IA 04-UDM-0151_0	04-UDM-6540	Big Creek	Bacteria: Indicator Bacteria- E. coli
	601	IA 04-UDM-0153_0	04-UDM-6541	Unnamed Tributary to Big Creek	Bacteria: Indicator Bacteria- E. coli
	602	IA 04-UDM-0520_0	04-UDM-6542	Little Creek	Bacteria: Indicator Bacteria- E. coli
	603	IA 04-UDM-0525_0	04-UDM-6543	Turkey Creek	Bacteria: Indicator Bacteria- E. coli
	604	IA 04-UDM-0530_0	04-UDM-6544	Unnamed Tributary to Big Creek	Bacteria: Indicator Bacteria- E. coli
	605	IA 04-UDM-0535_0	04-UDM-6545	Prairie Creek	Bacteria: Indicator Bacteria- E. coli
New	606	N/A	04-UDM-6625	Unnamed Tributary to Unnamed Tributary to Des Moines River	Fish Kill: Caused By Pesticides

	607	IA 05-CHA-0010_1	05-CHA-1307	Chariton River	Bacteria: Indicator Bacteria- E. coli
	608	IA 05-CHA-0010_2	05-CHA-1308	Chariton River	Bacteria: Indicator Bacteria- E. coli
	609	IA 05-CHA-0020-L_1	05-CHA-1309	Rathbun Reservoir	Turbidity
	610	IA 05-CHA-0030_1	05-CHA-1310	Chariton River	Bacteria: Indicator Bacteria- E. coli
	611	IA 05-CHA-0030_1	05-CHA-1310	Chariton River	Biological: low fish IBI
	612	IA 05-CHA-0030_2	05-CHA-1311	Chariton River	Bacteria: Indicator Bacteria- E. coli
	613	IA 05-CHA-0030_2	05-CHA-1311	Chariton River	Biological: low fish & invert IBIs- cause unknown
	614	IA 05-CHA-00301_0	05-CHA-1312	Chariton River	Bacteria: Indicator Bacteria- E. coli
	615	IA 05-CHA-00302_0	05-CHA-1313	Chariton Creek	Bacteria: Indicator Bacteria- E. coli
	616	IA 05-CHA-00325-L_0	05-CHA-1318	Centerville Reservoir Upper	Fish Consumption Advisory: Mercury
	617	IA 05-CHA-0040_0	05-CHA-1323	Cooper Creek	Biological: low fish IBI
	618	IA 05-CHA-0060_1	05-CHA-1327	South Fork Chariton River	Bacteria: Indicator Bacteria- E. coli
	619	IA 05-CHA-0060_1	05-CHA-1327	South Fork Chariton River	Biological: low fish IBI
	620	IA 05-CHA-0060_2	05-CHA-1328	South Fork Chariton River	Bacteria: Indicator Bacteria- E. coli
	621	IA 05-CHA-0060_2	05-CHA-1328	South Fork Chariton River	Biological: low fish & invert IBIs- cause unknown
	622	IA 05-CHA-0061_0	05-CHA-1329	Walker Branch	Bacteria: Indicator Bacteria- E. coli
	623	IA 05-CHA-0062_0	05-CHA-1330	Jordan Creek	Bacteria: Indicator Bacteria- E. coli
	624	IA 05-CHA-0062_0	05-CHA-1330	Jordan Creek	Biological: low fish & invert IBIs- cause unknown
	625	IA 05-CHA-0063_0	05-CHA-1332	Jackson Creek	Bacteria: Indicator Bacteria- E. coli

	626	IA 05-CHA-0063_0	05-CHA-1332	Jackson Creek	Biological: low fish & invert IBIs- cause unknown
	627	IA 05-CHA-0064_0	05-CHA-1333	West Jackson Creek	Biological: low aquatic macroinvertebrate IBI
	628	IA 05-CHA-0066_0	05-CHA-1335	Ninemile Creek	Bacteria: Indicator Bacteria- E. coli
	629	IA 05-CHA-0066_0	05-CHA-1335	Ninemile Creek	Biological: low fish IBI
	630	IA 05-CHA-0067_0	05-CHA-1336	Dick Creek	Biological: low fish & invert IBIs- cause unknown
	631	IA 05-CHA-0068_0	05-CHA-1337	Honey Creek	Bacteria: Indicator Bacteria- E. coli
	632	IA 05-CHA-00690-L_0	05-CHA-1338	Bob White Lake	Algal Growth: Chlorophyll a
	633	IA 05-CHA-00690-L_0	05-CHA-1338	Bob White Lake	Bacteria: Indicator Bacteria- E. coli
	634	IA 05-CHA-00690-L_0	05-CHA-1338	Bob White Lake	Organic Enrichment: Low Dissolved Oxygen
	635	IA 05-CHA-0070_0	05-CHA-1339	Wolf Creek	Bacteria: Indicator Bacteria- E. coli
	636	IA 05-CHA-0070_0	05-CHA-1339	Wolf Creek	Biological: low fish & invert IBIs- cause unknown
	637	IA 05-CHA-0077_0	05-CHA-1341	Fivemile Creek	Bacteria: Indicator Bacteria- E. coli
	638	IA 05-CHA-0057_0	05-CHA-1915	Unnamed Tributary to Rathbun Reservoir	Fish Kill: Caused By Fuel Spill
	639	IA 05-CHA-0056_0	05-CHA-2019	Honey Creek	Bacteria: Indicator Bacteria- E. coli
	640	IA 05-CHA-0020-L_2	05-CHA-2027	Rathbun Reservoir	Turbidity
	641	IA 05-CHA-0020-L_2	05-CHA-2027	Rathbun Reservoir	Turbidity
	642	IA 05-CHA-0020-L_3	05-CHA-2028	Rathbun Reservoir	Turbidity
	643	IA 05-CHA-0020-L_3	05-CHA-2028	Rathbun Reservoir	Turbidity

	644	IA 05-CHA-0020-L_4	05-CHA-2030	Rathbun Reservoir	Turbidity
	645	IA 05-GRA-0030_0	05-GRA-1350	East Fork Medicine Creek	Biological: low fish & invert IBIs- cause unknown
	646	IA 05-GRA-0040_0	05-GRA-1351	Thompson River	Bacteria: Indicator Bacteria- E. coli
	647	IA 05-GRA-0070_0	05-GRA-1356	Weldon River	Biological: low fish & invert IBIs- cause unknown
	648	IA 05-GRA-0080_0	05-GRA-1357	Little River	Biological: low fish IBI
	649	IA 05-GRA-00810-L_0	05-GRA-1358	Little River Watershed Lake	Bacteria: Indicator Bacteria- E. coli
	650	IA 05-GRA-01010-L_0	05-GRA-1361	Nine Eagles Lake	Bacteria: Indicator Bacteria- E. coli
	651	IA 05-GRA-01010-L_0	05-GRA-1361	Nine Eagles Lake	Fish Consumption Advisory: Mercury
	652	IA 05-GRA-01320-L_0	05-GRA-1367	Twelve Mile Creek Lake	Organic Enrichment: Low Dissolved Oxygen
	653	IA 05-GRA-0170_0	05-GRA-1376	Lotts Creek	Biological: low fish IBI
	654	IA 05-GRA-0180_0	05-GRA-1378	Middle Fork Grand River	Bacteria: Indicator Bacteria- E. coli
	655	IA 05-GRA-0180_0	05-GRA-1378	Middle Fork Grand River	Biological: low fish & invert IBIs- cause unknown
	656	IA 05-NOD-0020_0	05-NOD-1389	Nodaway River (aka West Nodaway R.)	Bacteria: Indicator Bacteria- E. coli
	657	IA 05-NOD-0030_1	05-NOD-1391	East Nodaway River	Bacteria: Indicator Bacteria- E. coli
	658	IA 05-NOD-0030_2	05-NOD-1392	East Nodaway River	Biological: low fish IBI
	659	IA 05-NOD-00485-L_0	05-NOD-1396	Orient Lake	Algal Growth: Chlorophyll a
	660	IA 05-NOD-00485-L_0	05-NOD-1396	Orient Lake	pH
	661	IA 05-NOD-0070_0	05-NOD-1400	Middle Nodaway River	Biological: low fish & invert IBIs- cause unknown

New	662	IA 05-NOD-00760-L_0	05-NOD-1401	Nodaway Lake	Algal Growth: Chlorophyll a
	663	IA 05-NOD-00820-L_0	05-NOD-1404	Mormon Trail Lake	Fish Consumption Advisory: Mercury
	664	IA 05-NOD-00930-L_0	05-NOD-1407	Viking Lake	Bacteria: Indicator Bacteria- E. coli
	665	IA 05-NSH-0010_0	05-NSH-1412	Nishnabotna River	Bacteria: Indicator Bacteria- E. coli
	666	IA 05-NSH-0020_1	05-NSH-1414	East Nishnabotna River	Bacteria: Indicator Bacteria- E. coli
	667	IA 05-NSH-0020_2	05-NSH-1415	East Nishnabotna River	Bacteria: Indicator Bacteria- E. coli
	668	IA 05-NSH-00580-L_0	05-NSH-1435	Lake Anita	Algal Growth: Cyanobacteria
	669	IA 05-NSH-0060_0	05-NSH-1436	Troublesome Creek	Biological: low fish IBI
	670	IA 05-NSH-0080_1	05-NSH-1441	West Nishnabotna River	Bacteria: Indicator Bacteria- E. coli
	671	IA 05-NSH-0090_3	05-NSH-1446	West Nishnabotna River	Biological: low fish & invert IBIs- cause unknown
	672	IA 05-NSH-0090_4	05-NSH-1447	West Nishnabotna River	Fish Kill: Caused By Animal Waste
	673	IA 05-NSH-0120_0	05-NSH-1454	Silver Creek	Biological: low fish IBI
	674	IA 05-NSH-0128_0	05-NSH-1457	Mud Creek	Biological: low fish IBI
	675	IA 05-NSH-01440-L_0	05-NSH-1462	Prairie Rose Lake	Bacteria: Indicator Bacteria- E. coli
	676	IA 05-NSH-01440-L_0	05-NSH-1462	Prairie Rose Lake	Algal Growth: Chlorophyll a
	677	IA 05-NSH-01440-L_0	05-NSH-1462	Prairie Rose Lake	Turbidity
	678	IA 05-PLA-00285-L_0	05-PLA-1470	McKinley Lake	Fish Consumption Advisory: PCBs
	679	IA 05-PLA-00290-L_0	05-PLA-1471	Summit Lake	Organic Enrichment: Low Dissolved Oxygen

	680	IA 05-PLA-00295-L_0	05-PLA-1472	Green Valley Lake	Algal Growth: Chlorophyll a
	681	IA 05-PLA-00295-L_0	05-PLA-1472	Green Valley Lake	Turbidity: Secchi Disk Transparency
	682	IA 05-PLA-00295-L_0	05-PLA-1472	Green Valley Lake	Organic Enrichment: Low Dissolved Oxygen
New	683	IA 05-PLA-00335-L_0	05-PLA-1476	Lake Of Three Fires	pH
	684	IA 05-PLA-00335-L_0	05-PLA-1476	Lake Of Three Fires	Organic Enrichment: Low Dissolved Oxygen
	685	IA 05-PLA-00380-L_0	05-PLA-1477	Wilson Park Lake	Algal Growth: Chlorophyll a
	686	IA 05-PLA-0040_1	05-PLA-1480	West Branch One Hundred And Two River	Biological: low fish & invert IBIs- cause unknown
	687	IA 05-PLA-0015-L_0	05-PLA-2064	Sands Timber Lake (aka Blockton Reservoir)	Turbidity
	688	IA 05-TAR-0020_0	05-TAR-1497	West Tarkio Creek	Biological: low fish & invert IBIs- cause unknown
	689	IA 06-BOY-0020_1	06-BOY-1502	Boyer River	Bacteria: Indicator Bacteria- E. coli
New	690	IA 06-BOY-00263-L_0	06-BOY-1505	Manteno Park Pond	Algal Growth: Chlorophyll a
	691	IA 06-BSR-0010_3	06-BSR-1522	Big Sioux River	Fish Kill: Caused By Organic Enrichment/Low Dissolved Oxygen
	692	IA 06-BSR-0021_0	06-BSR-1527	Perry Creek	Biological: low fish & invert IBIs- cause unknown
	693	IA 06-BSR-0023_0	06-BSR-1529	Broken Kettle Creek	Biological: low fish & invert IBIs- cause unknown
	694	IA 06-BSR-0027_0	06-BSR-1531	Indian Creek	Bacteria: Indicator Bacteria- E. coli
	695	IA 06-BSR-00280-L_0	06-BSR-1532	Lake Pahoja	Bacteria: Indicator Bacteria- E. coli

	696	IA 06-BSR-0029_0	06-BSR-1533	Sixmile Creek	Bacteria: Indicator Bacteria- E. coli
	697	IA 06-BSR-0029_0	06-BSR-1533	Sixmile Creek	Biological: low fish & invert IBIs- cause unknown
	698	IA 06-BSR-0030_0	06-BSR-1534	Rock River	Bacteria: Indicator Bacteria- E. coli
	699	IA 06-BSR-0030_0	06-BSR-1534	Rock River	Fish Kill: Caused By Animal Waste
	700	IA 06-BSR-0040_1	06-BSR-1537	Rock River	Bacteria: Indicator Bacteria- E. coli
	701	IA 06-BSR-0040_2	06-BSR-1538	Rock River	Bacteria: Indicator Bacteria- E. coli
	702	IA 06-BSR-0072_0	06-BSR-1545	Otter Creek	Fish Kill: Caused By Animal Waste
	703	IA 06-BSR-0072_0	06-BSR-1545	Otter Creek	Fish Kill: Caused By Spill
	704	IA 06-BSR-0080_0	06-BSR-1546	Mud Creek	Bacteria: Indicator Bacteria- E. coli
	705	IA 06-BSR-0080_0	06-BSR-1546	Mud Creek	Fish Kill: Caused By Animal Waste
	706	IA 06-BSR-0080_0	06-BSR-1546	Mud Creek	Biological: low fish & invert IBIs- cause unknown
	707	IA 06-BSR-0060_1	06-BSR-1798	Little Rock River	Bacteria: Indicator Bacteria- E. coli
	708	IA 06-BSR-0060_2	06-BSR-1799	Little Rock River	Biological: low aquatic macroinvertebrate IBI
	709	IA 06-BSR-0060_3	06-BSR-1800	Little Rock River	Bacteria: Indicator Bacteria- E. coli
	710	IA 06-BSR-0035_0	06-BSR-1878	Dry Creek	Biological: low fish & invert IBIs- cause unknown
	711	IA 06-BSR-0035_0	06-BSR-1878	Dry Creek	Fish Kill: Due To Natural Causes
	712	IA 06-BSR-0065_0	06-BSR-1934	Unnamed Tributary to Little Rock River	Fish Kill: Due To Unknown Toxicity
	713	N/A	06-BSR-6609	West Rat Creek	Fish Kill: Caused By Pesticides

	714	IA 06-FLO-0010_0	06-FLO-1552	Floyd River	Bacteria: Indicator Bacteria- E. coli
	715	IA 06-FLO-0020_1	06-FLO-1553	Floyd River	Biological: low fish IBI
	716	IA 06-FLO-0020_2	06-FLO-1554	Floyd River	Fish Kill: Caused By Animal Waste
	717	IA 06-FLO-0020_2	06-FLO-1554	Floyd River	Fish Kill: Caused By Fertilizer Spill
	718	IA 06-FLO-0020_2	06-FLO-1554	Floyd River	Biological: low fish & invert IBIs- cause unknown
	719	IA 06-FLO-0040_0	06-FLO-1558	West Branch Floyd River	Biological: low fish IBI
New	720	IA 06-FLO-0040_0	06-FLO-1558	West Branch Floyd River	Fish Kill: Cause Unknown
	721	IA 06-FLO-0070_0	06-FLO-1562	Deep Creek	Biological: low fish & invert IBIs- cause unknown
	722	IA 06-FLO-0065_0	06-FLO-1829	Willow Creek	Fish Kill: Due To Unknown Toxicity
	723	IA 06-FLO-0021_0	06-FLO-6266	Floyd River	Fish Kill: Caused By Pesticides
	724	IA 06-LSR-0010_0	06-LSR-1564	Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	725	IA 06-LSR-0020_1	06-LSR-1565	Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	726	IA 06-LSR-0030_1	06-LSR-1570	Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	727	IA 06-LSR-0030_4	06-LSR-1573	Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	728	IA 06-LSR-0040_1	06-LSR-1577	Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	729	IA 06-LSR-0040_2	06-LSR-1578	Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	730	IA 06-LSR-0040_2	06-LSR-1578	Little Sioux River	Biological: low fish & invert IBIs- cause unknown
	731	IA 06-LSR-0040_3	06-LSR-1579	Little Sioux River	Biological: low aquatic macroinvertebrate IBI
	732	IA 06-LSR-0070_1	06-LSR-1581	Maple River	Bacteria: Indicator Bacteria- E. coli

	733	IA 06-LSR-0120_1	06-LSR-1598	West Fork Little Sioux River	Bacteria: Indicator Bacteria- E. coli
	734	IA 06-LSR-0120_2	06-LSR-1599	West Fork Little Sioux River	Biological: low fish & invert IBIs- cause unknown
	735	IA 06-LSR-0143_0	06-LSR-1605	Johns Creek	Biological: low fish IBI
	736	IA 06-LSR-0150_0	06-LSR-1611	Willow Creek	Biological: low aquatic macroinvertebrate IBI
	737	IA 06-LSR-0170_0	06-LSR-1615	Mill Creek	Biological: low fish & invert IBIs- cause unknown
New	738	IA 06-LSR-01760-L_0	06-LSR-1616	Mill Creek Lake	Algal Growth: Chlorophyll a
	739	IA 06-LSR-02220-L_0	06-LSR-1625	Gustafson Lake	Bacteria: Indicator Bacteria- E. coli
	740	IA 06-LSR-0223_0	06-LSR-1626	Willow Creek	Bacteria: Indicator Bacteria- E. coli
	741	IA 06-LSR-0223_0	06-LSR-1626	Willow Creek	Fish Kill: Caused By Animal Waste
	742	IA 06-LSR-0223_0	06-LSR-1626	Willow Creek	Biological: low aquatic macroinvertebrate IBI
	743	IA 06-LSR-02325-L_0	06-LSR-1629	Elk Lake	Algal Growth: Chlorophyll a
	744	IA 06-LSR-02325-L_0	06-LSR-1629	Elk Lake	Turbidity: Suspended Solids
	745	IA 06-LSR-02330-L_0	06-LSR-1630	Virgin Lake	Algal Growth: Chlorophyll a
	746	IA 06-LSR-02330-L_0	06-LSR-1630	Virgin Lake	Turbidity: Suspended Solids
	747	IA 06-LSR-0250_0	06-LSR-1638	Ocheyedan River	Bacteria: Indicator Bacteria- E. coli
	748	IA 06-LSR-0270_0	06-LSR-1644	Stony Creek	Biological: low fish & invert IBIs- cause unknown
	749	IA 06-LSR-02820-L_0	06-LSR-1649	Pleasant Lake	Algal Growth: Chlorophyll a
New	750	IA 06-LSR-02820-L_0	06-LSR-1649	Pleasant Lake	Turbidity: Suspended Solids
New	751	IA 06-LSR-02825-L_0	06-LSR-1650	Minnewashta Lake	Algal Growth: Chlorophyll a

	752	IA 06-LSR-02850-L_0	06-LSR-1655	Big Spirit Lake	Bacteria: Indicator Bacteria- E. coli
	753	IA 06-LSR-02855-L_0	06-LSR-1656	Marble Lake	Algal Growth: Chlorophyll a
	754	IA 06-LSR-02890-L_0	06-LSR-1663	Center Lake	Algal Growth: Chlorophyll a
	755	IA 06-LSR-0305_0	06-LSR-1667	Milford Creek	Biological: low aquatic macroinvertebrate IBI
	756	IA 06-LSR-02393-L_0	06-LSR-1775	Bluewing Marsh	Algal Growth: Chlorophyll a
	757	IA 06-LSR-0131_0	06-LSR-1834	West Fork Little Sioux River	Fish Kill: Due To Unknown Toxicity
	758	IA 06-LSR-01495_0	06-LSR-2048	Ashton Creek	Organic Enrichment: Low Dissolved Oxygen
	759	IA 06-LSR-02840-L_2	06-LSR-2066	West Okoboji Lake	Bacteria: Indicator Bacteria- E. coli
	760	IA 06-LSR-0224_0	06-LSR-6299	Willow Creek	Bacteria: Indicator Bacteria- E. coli
	761	IA 06-LSR-0224_0	06-LSR-6299	Willow Creek	Fish Kill: Caused By Animal Waste
	762	IA 06-LSR-0207_0	06-LSR-6342	Unnamed Tributary to Little Sioux River	Fish Kill: Caused By Animal Waste
	763	IA 06-SOL-0010_1	06-SOL-1673	Soldier River	Bacteria: Indicator Bacteria- E. coli
	764	IA 06-SOL-0010_1	06-SOL-1673	Soldier River	Biological: low aquatic macroinvertebrate IBI
	765	IA 06-WED-0003_2	06-WED-1683	Plum Creek	Biological: low fish & invert IBIs- cause unknown
	766	IA 06-WED-0010_1	06-WED-1686	Keg Creek	Biological: low fish IBI
	767	IA 06-WED-0010_2	06-WED-1687	Keg Creek	Biological: low fish & invert IBIs- cause unknown
	768	IA 06-WED-0020_1	06-WED-1699	Mosquito Creek	Biological: low fish & invert IBIs- cause unknown

	769	IA 06-WED-0020_3	06-WED-1701	Mosquito Creek	Biological: low fish & invert IBIs- cause unknown
	770	IA 06-WED-00270-L_0	06-WED-1702	Arrowhead Pond	Algal Growth: Chlorophyll a
	771	IA 06-WEM-0010_0	06-WEM-1707	Missouri River	Bacteria: Indicator Bacteria- E. coli
	772	IA 06-WEM-0020_1	06-WEM-1708	Missouri River	Bacteria: Indicator Bacteria- E. coli
	773	IA 06-WEM-0020_2	06-WEM-1709	Missouri River	Bacteria: Indicator Bacteria- E. coli
	774	IA 06-WEM-00235-L_0	06-WEM-1711	Lake Manawa	Algal Growth: Chlorophyll a
	775	IA 06-WEM-00235-L_0	06-WEM-1711	Lake Manawa	Turbidity
	776	IA 06-WEM-00265-L_0	06-WEM-1714	Carter Lake	Fish Consumption Advisory: PCBs
	777	IA 06-WEM-0030_0	06-WEM-1715	Missouri River	Bacteria: Indicator Bacteria- E. coli
	778	IA 06-WEM-00340-L_0	06-WEM-1716	Desoto Bend	Turbidity
	779	IA 06-WEM-00340-L_0	06-WEM-1716	Desoto Bend	Algal Growth: Chlorophyll a
	780	IA 06-WEM-0040_1	06-WEM-1720	Missouri River	Bacteria: Indicator Bacteria- E. coli
	781	IA 06-WEM-0040_2	06-WEM-1721	Missouri River	Bacteria: Indicator Bacteria- E. coli
	782	IA 06-WEM-0040_3	06-WEM-1722	Missouri River	Bacteria: Indicator Bacteria- E. coli
	783	IA 06-WEM-00475-L_0	06-WEM-1734	Snyder Bend Lake	Algal Growth: Chlorophyll a
	784	IA 06-WEM-00475-L_0	06-WEM-1734	Snyder Bend Lake	Turbidity
	785	IA 06-WEM-00485-L_0	06-WEM-1735	Browns Lake	Turbidity
	786	IA 06-WEM-00485-L_0	06-WEM-1735	Browns Lake	Algal Growth: Chlorophyll a