

Statewide *E. coli* Total Maximum Daily Load (TMDL)
 Addendum – 2022
 Impaired Water Bodies and Percent Reductions

This addendum contains a list of water bodies that are covered by the Statewide *E. coli* TMDL. All biennial updates of the Sections 303(d), 305(b), and 314 Integrated Report will be accompanied by an addendum intended to build on Appendix 1 of the Statewide *E. coli* TMDL, as summarized in Section 1.2 of the [Statewide *E. coli* TMDL](#) and described in more detail in Appendix 2.

For each water body in the attached table, the ultimate water quality goal is to meet the requirements for removal from the Section 303(d) list contained in the Assessment Methodology Section of the most recently approved Integrated Report. The data summarized for each water body includes all sample results that are readily available and may not contain the exact dataset that was used in making the initial impairment decision (pursuant to the assessment methodology at the time the decision was made). The information in Columns 3-12 of this addendum is provided for informational purposes only, to assist stakeholders in determining the magnitude of the problem in their water body.

The extent of the water bodies listed below, as well as the locations of monitoring stations and data used to make the assessment decisions, can be viewed on the [E. coli Pollution and Solution Mapper](#).

In order to give stakeholders an overview of the water quality in the impaired waters, the attached table provides the following:

Column 1 - Assessment Unit Identifier (AUID) - Michigan uses the National Hydrography Dataset to organize and identify water bodies for the Section 303(d) and 305(b) lists. A base assessment unit is a 12-digit hydrologic unit code (HUC), which may be split further into smaller assessment units depending on information such as land use, known areas of contamination, specific fish consumption advisories, physical barriers such as dams, etc. Each assessment unit is assigned a numeric identifier (AUID) and may consist of all water bodies in a 12-digit HUC (as a maximum) or specific stream segments or lakes located in that HUC. AUIDs may also be lakes or points, such as in the case of clearly defined and monitored bathing beaches or public water supply intakes.

Column 2 - Water Body Type - AUIDs can be public access points (beaches or boat launches), rivers, streams, lakes, public water supply intakes, or shorelines.

Column 3 - n (number) - Number of daily geometric means that were used in the calculation of Column 4 (geometric mean of all data in each AUID). The data for all sites in an AUID are combined for the total number of daily geometric means.

Column 4 - Assessment Unit Geometric Mean (*E. coli*) - Geometric mean of all available data within the AUID (river segment, lake, or beach). This value is used for calculating Column 5 (percent reduction) for informational purposes only but is not used in evaluating attainment status for assessment purposes. This number cannot be compared to the daily or 30-day water quality standard (WQS), since it contains data

from more than one day and potentially more than one 30-day period. Data are only included if they meet the criteria of three or more individual samples during the same sampling event. Values are in colony forming units per 100 milliliters (mL).

Column 5 - Percent Reduction - This value, provided for informational purposes, represents the amount of reduction that would be necessary for the geometric mean of all data (Column 4) to reach the 300 *E. coli* per 100 mL daily threshold. Attaining this reduction does not necessarily mean that the water body will be removed from the TMDL. The assessment methodology contained in the most recently approved Integrated Report determines the criteria for removal of a water body from the impairment status. In some cases, the percent reduction is not provided because the geometric mean in Column 4 was less than the 300 *E. coli* per 100 mL daily threshold. In all cases, the water quality goal is to meet the threshold for removal of the impairment following the Assessment Methodology Section of the most recently approved Integrated Report.

Column 6 - Number of 30-Day Geometric Means - Number of 30-day geometric means that were calculated and used in the calculation of the Percent 30-Day Total Body Contact (TBC) Exceedance (Column 7). If 30-day geometric means were not calculated when the data were submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE), then this value may be 0.

Column 7 - Percent 30-Day TBC Exceedance - Percent of available 30-day geometric means (Column 6) that are exceeding the threshold of 130 *E. coli* per 100 mL. If only one 30-day geometric mean is available, this value will be 0 or 100 percent.

Column 8 - Percent Daily TBC Exceedances - Percent of daily geometric means ("n," Column 3) that exceed the 300 *E. coli* per 100 mL threshold.

Column 9 - Percent Partial Body Contact Exceedance - Percent of daily geometric means ("n," Column 3), that exceed the 1,000 *E. coli* per 100 mL threshold.

Column 10 - Interstate Waters - Inland waters that flow directly in or out of Michigan, from other states, are flagged with the direction of flow and the state involved; for example, waters marked "From Indiana" leave Indiana and enter Michigan. Waters are only flagged if EGLE has evidence of an impairment that extends to our border.

Column 11 - Code - This column contains notes that are unique to the water body:

Data1: The summary for this water body is based on a small dataset ($n < 5$) but is supported by a larger dataset ($n > 5$) from a nearby contiguous and comparable AUID.

Data2: The summary for this water body is based on contiguous upstream or downstream AUID(s) with consistent land use patterns ($n > 5$).

Declining Water Quality: These water bodies, typically beaches, have large datasets where older data show few exceedances of the WQS, but newer data show an impairment according to the most current Assessment Methodology in the Integrated Report.

Raw Sewage: Water bodies are listed as impaired based on the presence of raw sewage in surface water.

Reissue: This water body is already in a United States Environmental Protection Agency (USEPA) approved *E. coli* TMDL, and that TMDL is being revoked and reissued. Once this TMDL Addenda is approved by the USEPA, this water body will be part of the statewide TMDL.

Restored: This water body has recent data sufficient to categorize it as 'fully attaining' the applicable WQS (using the criteria for removal of the impairment in the Assessment Methodology Section); however, they remain protected by the TMDL.

Column 12 - Year First Listed - This column contains the integrated reporting cycle year where the water body was first listed as not attaining the TBC designated use. Each biennial submittal of the Integrated Report contains a description and guidance on data requirements to list an AUID as impaired.

If you need this information in an alternate format, contact EGLE-Accessibility@Michigan.gov or call 800-662-9278.

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2022 Addenda to Concentration-Based *E. coli* Total Maximum Daily Loads (TMDLs)



Statewide TMDL

Watershed		Waiska									
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040202030105-04	Beach/Launch	186	38		4	0%	11%	3%		Declining WQ	2022
Watershed		Lake Superior									
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040203000002-01	Beach/Launch	146	42		4	50%	5%	3%		Declining WQ	2022
040203000002-02	Beach/Launch	176	19		6	0%	5%	1%		Declining WQ	2022
Watershed		Escanaba									
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040301100305-01	River	5	414	28%	1	100%	60%	0%			2022

Watershed		04050001		St. Joseph							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040500010102-01	River	14	781	62%	2	100%	86%	29%		Data2	2022
040500010103-01	River	4	556	46%	0		75%	25%		Data1	2022
040500010106-01	River	5	188		1	100%	20%	20%		Data2	2022
040500010107-01	River	5	196		1	100%	40%	0%			2022
040500010108-02	River	5	188		1	100%	20%	20%			2022
040500010110-01	River	5	647	54%	1	100%	80%	20%		Data2	2022
040500010202-01	River	5	638	53%	1	100%	80%	20%			2022
040500010203-02	River	5	821	63%	1	100%	60%	20%			2022
040500010204-02	River	5	1,340	78%	1	100%	100%	40%		Data2	2022
040500010205-01	River	10	681	56%	2	100%	60%	30%			2022
040500010205-03	River	15	566	47%	3	100%	53%	20%		Data2	2022
040500010206-01	River	10	286		2	100%	20%	20%		Data2	2022
040500010207-01	River	5	1,102	73%	1	100%	100%	20%			2022
040500010208-01	River	5	236		1	100%	20%	20%			2022
040500010209-01	River	5	159		1	100%	20%	0%			2022
040500010403-05	River	5	181		1	100%	0%	0%			2022
040500010403-06	River	5	321	7%	1	100%	60%	0%			2022

Watershed		04050002			Black-Macatawa						
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040500020302-01	River	10	805	63%	2	100%	80%	30%		Data2	2022
040500020302-02	River	12	3,201	91%	4	100%	92%	92%			2022
040500020302-04	River	16	1,212	75%	4	100%	81%	44%			2022
040500020303-03	River	18	1,661	82%	6	100%	100%	61%			2022
040500020303-04	River	12	1,205	75%	4	100%	92%	42%			2022
Watershed		04050003			Kalamazoo						
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040500030204-04	River	5	449	33%	1	100%	80%	0%			2022
040500030206-01	River	4	246		0		25%	0%		Data1	2022
Watershed		04050004			Upper Grand						
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040500040705-02	River	24	364	18%	16	94%	46%	21%			2020
040500040706-01	River	24	364	18%	16	94%	46%	21%			2020

Watershed		04060101		Pere Marquette-White							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040601010303-02	River	5	142		1	100%	0%	0%			2022
040601010304-01	River	5	272		1	100%	20%	20%			2022
040601010304-02	River	5	272		1	100%	20%	20%		Data2	2022
040601010401-01	River	5	272		1	100%	60%	0%			2022
040601010401-02	River	5	272		1	100%	60%	0%		Data2	2022
040601010401-03	River	5	272		1	100%	60%	0%		Data2	2022
040601010401-04	River	5	272		1	100%	60%	0%		Data2	2022
040601010402-01	River	5	211		1	100%	20%	0%		Data2	2022
040601010402-02	River	5	211		1	100%	20%	0%		Data2	2022
040601010402-03	River	5	211		1	100%	20%	0%		Data2	2022
040601010402-04	River	5	211		1	100%	20%	0%			2022
040601010402-05	River	10	221		2	100%	20%	0%		Data2	2022
040601010404-01	River	5	1,059	72%	1	100%	100%	40%			2022
040601010404-02	River	20	344	13%	4	100%	50%	10%		Data2	2022
040601010405-01	River	5	232		1	100%	20%	0%		Data2	2022
040601010405-03	River	5	232		1	100%	20%	0%			2022
040601010406-01	River	5	174		1	100%	20%	0%			2022
040601010501-01	River	8	191		1	100%	25%	0%		Data2	2022
040601010502-01	River	5	187		1	100%	20%	0%		Data2	2022
040601010503-02	River	3	199		0		33%	0%		Data1	2022
040601010503-03	River	5	187		1	100%	20%	0%			2022
040601010504-01	River	10	196		2	100%	10%	10%		Data2	2022
040601010504-05	River	23	101		3	100%	9%	4%		Data2	2022

Watershed		04060101		Pere Marquette-White							
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040601010505-02	River	23	101		3	100%	9%	4%		Data2	2022
040601010506-01	River	18	124		2	100%	33%	6%		Data2	2022
040601010506-02	River	23	101		3	100%	9%	4%		Data2	2022
040601010506-03	River	5	323	7%	1	100%	60%	0%			2022
040601010506-04	River	5	323	7%	1	100%	60%	0%		Data2	2022
040601010506-06	River	5	323	7%	1	100%	60%	0%		Data2	2022
040601010507-02	River	5	1,242	76%	1	100%	100%	60%			2022
040601010507-03	River	5	456	34%	1	100%	60%	20%			2022
040601010508-01	River	5	456	34%	1	100%	60%	20%		Data2	2022
040601010508-02	River	25	1,773	83%	5	100%	100%	84%			2022
040601010509-01	River	5	1,450	79%	1	100%	100%	80%			2022
040601010509-02	River	5	552	46%	1	100%	100%	20%			2022
040601010509-06	River	5	456	34%	1	100%	60%	20%		Data2	2022
040601010601-02	River	5	494	39%	1	100%	60%	20%		Data2	2022
040601010603-01	River	5	450	33%	1	100%	80%	20%			2022
040601010604-01	River	5	494	39%	1	100%	60%	20%			2022
040601011002-01	Beach/Launch	146	12		7	0%	3%	0%		Declining WQ	2022
Watershed		04060102		Muskegon							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040601020506-04	Beach/Launch	156	68		67	7%	6%	2%			2022

Watershed		04060105		Boardman Charlevoix							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040601050202-01	River	14	69		2	0%	14%	0%		Data2	2022
040601050204-01	River	41	113		5	20%	22%	2%			2022
040601050205-03	River	14	103		2	50%	7%	0%			2022
040601050206-01	River	14	163		2	50%	21%	7%			2022
Watershed		04080103		Pigeon-Wiscoggin							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040801030103-01	River	14	313	4%	2	100%	57%	14%		Data2	2022
040801030103-02	River	14	313	4%	2	100%	57%	14%		Data2	2022
040801030103-03	River	7	223		1	100%	43%	0%			2022
040801030103-04	River	5	465	35%	1	100%	80%	20%			2022
040801030104-01	River	14	428	30%	2	100%	57%	21%		Data2	2022
040801030104-02	River	9	408	27%	1	100%	44%	22%			2022
040801030105-01	River	21	344	13%	3	100%	52%	14%		Data2	2022
040801030106-01	River	5	998	70%	1	100%	100%	40%			2022
040801030108-01	River	7	415	28%	1	100%	43%	14%		Data2	2022
040801030108-02	River	5	694	57%	1	100%	80%	20%			2022
040801030109-01	River	5	186		1	100%	20%	0%			2022
040801030109-02	River	5	186		1	100%	20%	0%		Data2	2022
040801030110-01	River	5	218		1	100%	40%	0%			2022
040801030110-02	River	10	201		2	100%	30%	0%		Data2	2022

Watershed		04080104			Birch-Willow							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed	
040801040205-03	Beach/Launch	136	11		11	0%	5%	1%		Declining WQ	2022	
Watershed		04080201			Tittabawassee							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed	
040802010309-03	Beach/Launch	205	33		127	19%	9%	2%			2022	
Watershed		04080203			Shiawassee							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed	
040802030102-01	River	5	1,963	85%	1	100%	100%	100%			2022	
040802030104-01	River	5	1,098	73%	1	100%	100%	40%			2022	
040802030108-13	River	10	59		2	50%	0%	0%			2022	
040802030110-01	River	10	245		2	100%	10%	0%			2022	
040802030111-01	River	10	233		2	100%	10%	0%			2022	
040802030204-01	River	5	701	57%	1	100%	80%	40%			2022	

Watershed		04090004										Detroit
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed	
040900040502-01	River	15	1,390	78%	3	100%	73%	67%			2022	
040900040502-02	River	10	661	55%	2	100%	70%	20%			2022	
040900040502-04	River	5	439	32%	1	100%	60%	20%			2022	

Watershed		04090005		Huron							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040900050101-02	Beach/Launch	170	88		112	35%	11%	4%			2022
040900050102-09	River	5	539	44%	1	100%	100%	0%			2022
040900050103-03	River	5	505	41%	1	100%	80%	0%		Data2	2022
040900050103-04	River	5	505	41%	1	100%	80%	0%			2022
040900050103-05	River	5	221		1	100%	40%	0%			2022
040900050105-17	River	29	75		9	11%	7%	0%			2022
040900050107-01	River	5	475	37%	1	100%	80%	0%			2022
040900050110-01	River	4	629	52%	0		75%	25%		Data1	2022
040900050111-05	River	10	125		2	50%	0%	0%			2022
040900050112-01	River	5	475	37%	1	100%	80%	0%		Data2	2022
040900050204-01	River	5	1,277	77%	1	100%	100%	40%			2022
040900050301-01	River	5	398	25%	1	100%	40%	20%		Data2	2022
040900050301-03	River	5	398	25%	1	100%	40%	20%		Data2	2022
040900050301-05	River	5	398	25%	1	100%	40%	20%			2022
040900050302-01	River	5	295		1	100%	20%	20%			2022
040900050306-02	River	5	381	21%	1	100%	40%	20%			2022
040900050309-04	River	5	2,358	87%	1	100%	100%	40%			2022
040900050401-01	River	23	283		14	100%	35%	17%		Data2	2022
040900050403-04	River	5	144		1	100%	20%	0%			2022
040900050403-05	River	5	1,099	73%	1	100%	80%	60%			2022
040900050405-01	River	80	143		15	87%	33%	6%		Data2	2022
040900050406-01	River	10	256		2	100%	50%	0%		Data2	2022
040900050406-02	River	5	384	22%	1	100%	80%	0%		Data2	2022

Watershed		04090005			Huron						
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
040900050406-03	River	5	171		1	100%	20%	0%			2022
040900050406-04	River	5	384	22%	1	100%	80%	0%			2022
040900050406-05	River	5	253		1	100%	40%	20%			2022
040900050407-03	River	80	143		15	87%	33%	6%		Data2	2022
040900050407-04	River	80	143		15	87%	33%	6%		Data2	2022
Watershed		04100001			Ottawa-Stony						
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
041000010203-01	River	7	580	48%	1	100%	86%	29%			2022
041000010205-01	River	5	13,655	98%	1	100%	100%	100%			2022
041000010205-02	River	7	780	62%	1	100%	100%	43%			2022

Watershed		04100002		Raisin							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
041000020106-01	River	5	1,047	71%	1	100%	100%	40%			2022
041000020107-01	River	5	564	47%	1	100%	100%	20%			2022
041000020108-01	River	11	76		2	100%	0%	0%			2022
041000020203-03	River	11	876	66%	1	100%	100%	27%		Data2	2022
041000020204-01	River	20	70		1	0%	10%	0%			2020
041000020303-01	River	5	284		1	100%	40%	20%			2022
041000020304-01	River	5	72		1	0%	20%	20%	From Ohio		2022
041000020306-01	River	4	216		0		25%	25%		Data1	2022
041000020401-01	River	92	121		52	6%	27%	13%		Data2	2022
041000020402-01	River	92	121		52	6%	27%	13%		Data2	2022
041000020403-01	River	64	111		35	9%	27%	9%		Data2	2022
041000020404-01	River	5	664	55%	1	100%	60%	40%			2022
041000020405-01	River	5	481	38%	1	100%	100%	0%			2022
041000020406-01	River	5	602	50%	1	100%	60%	20%			2022
041000020407-01	River	5	671	55%	1	100%	80%	40%			2022
041000020408-01	River	5	162		1	100%	0%	0%			2022
041000020408-02	River	10	635	53%	2	100%	70%	30%		Data2	2022
041000020408-03	River	5	399	25%	1	100%	60%	20%			2022

Watershed		04100003		St. Joseph							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
041000030201-02	River	9	84		1	0%	22%	0%			2022
041000030202-04	River	5	530	43%	0		80%	0%			2022
041000030202-05	River	5	337	11%	1	100%	80%	0%			2022
041000030202-06	River	5	1,346	78%	0		100%	60%			2022
041000030203-01	River	5	527	43%	1	100%	100%	0%			2022
041000030203-02	River	5	1,239	76%	1	100%	100%	80%			2022
041000030203-03	River	5	1,239	76%	1	100%	100%	80%		Data2	2022
041000030203-07	River	5	2,593	88%	1	100%	100%	100%			2022
041000030204-01	River	10	528	43%	1	100%	90%	0%	To Ohio	Data2	2022
Watershed		04100006		Tiffin							
Column 1: Assessment Unit (AUID)	Column 2: Waterbody Type	Column 3: Number of Events	Column 4: AUID E. coli Geometric Mean	Column 5: % Reduction	Column 6: # of 30- Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
041000060103-01	River	26	542	45%	18	89%	77%	23%		Data2	2022
041000060104-03	River	26	542	45%	18	89%	77%	23%			2022
041000060105-07	River	10	4,470	93%	2	100%	100%	80%			2022
041000060105-10	River	6	4,362	93%	0		100%	100%			2022
041000060106-02	River	26	541	45%	18	100%	81%	19%		Data2	2022
041000060106-05	River	5	1,337	78%	1	100%	100%	60%			2022
041000060201-01	River	5	896	67%	1	100%	100%	20%			2022
041000060201-02	River	5	3,315	91%	1	100%	100%	80%	From Ohio		2022
041000060201-03	River	10	1,723	83%	2	100%	100%	50%	To Ohio	Data2	2022