



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

OCT 06 2011

Mr. John Madras
Director, Water Protection Program
Missouri Department of Natural Resources
1101 Riverside Drive
Jefferson City, Missouri 65102

Dear Mr. Madras:

The United States Environmental Protection Agency, Region 7, has completed its review of public comments regarding proposed changes made by the EPA to Missouri's 2010 Clean Water Act, Section 303(d) List, as described in the April 29, 2011, decision letter to the Missouri Department of Natural Resources.

The EPA reviewed Missouri's 2010 § 303(d) List of impaired waters, and had previously determined that Missouri's list of water quality limited segments still requiring Total Maximum Daily Loads (TMDLs) did not include certain waters and pollutants required to be listed. The EPA partially approved and partially disapproved Missouri's § 303(d) List and provided its rationale for this action in its letter to MDNR dated April 29, 2011. The EPA then issued a public notice on May 2, 2011, seeking written comments on the EPA's decision to delist 25 water bodies for which TMDLs were approved or established after Missouri's submission of its list and to add/restore ten (10) water body/pollutant pairs to Missouri's 2010 § 303(d) List. The 60-day public comment period closed on July 5, 2011. Pursuant to Region 7's revised method for public noticing decisions on § 303(d) lists (as described in the September 12, 2008 Federal Register Vol. 23, No. 178 p. 52928), the EPA placed its public notice and the associated decision letter on the EPA Region 7 website. The record supporting the EPA's decision was available upon request. The EPA's request for public comments was limited to decisions to delist, add or restore specific water body/pollutant pairs to the 2010 Missouri § 303(d) List.

After review of the comments received during this public notice period, Region 7 is making no modifications to its proposed decision. The enclosures to this letter provide a detailed responsiveness summary to public comments the Agency received and a consolidated list summarizing the EPA's decisions on the 2010 Missouri § 303(d) List.

The EPA would like to discuss this decision further with MDNR as you prepare your 2012 § 303(d) List for submission. Please contact me at 913-551-7782, or John DeLashmit, Chief of the Water Quality Management Branch, at 913-551-7821.

Sincerely,



Karen Flourney
Acting Director
Water, Wetlands and Pesticides Division

Enclosures:

1. Comments responsiveness summary
2. Final 2010 Missouri § 303(d) List

cc: Missouri Department of Natural Resources:

Mr. Scott Totten
Mr. John Ford
Mr. John Hoke
Mr. Refaat Mefrakis

U.S. Environmental Protection Agency
Mr. John Goodin

ENVIRONMENTAL PROTECTION AGENCY – REGION 7

PUBLIC NOTICE of the

**PROPOSED DECISION on the
2010 MISSOURI 303(D) LIST –**

SUMMARY OF PUBLIC COMMENTS AND EPA RESPONSES

Table of Contents

Commenter: Missouri Department of Natural Resources	3
Comment #1 Dardenne Creek WBID 0221	3
Comment #2 West Fork Black River WBID 2755.....	3
Comment #3 Muddy Creek WBID 0853	3
Comment #4 Truitt Creek WBID 3175.....	4
Commenter: Gary Owens, Camdenton, MO.....	4
Comment #1 Niangua Arm, Lake of the Ozarks WBID 7205	4
Commenter: Newman, Comley & Ruth P.C.....	4
Comment #1 Cave Spring Branch WBID 3245U-01	4
Commenter: Jeanine Pagan.....	4
Comment #1 Waters in Boone County.....	4

Commenter: Missouri Department of Natural Resources.

The Missouri Department of Natural Resources commented in a letter dated May 26, 2011, and an email sent on June 9, 2011.

Comment #1 Dardenne Creek WBID 0221

The Missouri Department of Natural Resources commented that biological data collected on this segment should not be used for assessment as it was collected during periods of extreme drought or soon after flooding. In the EPA's review of daily stream flow from USGS 05514860 Dardenne Creek at Old Town, St. Peters, MO, the EPA found that samples collected on September 23, 2008, and April 7, 2009, were preceded by periods of higher flow within the previous 10 days. The samples collected in 2008 were preceded by a particularly large flow event with a daily mean flow in excess of 4,400 cubic feet per second. All but the most upstream site on Dardenne Creek in segment 0222 during that period also had bioassessments that scored below fully supporting of the aquatic life designated use. While the state's contention that this sample period was preceded by an unusual hydrological event is justified, in their comment the state also acknowledges this analysis is in contrast to the state's Listing Methodology Document. While the EPA does not review that document for approval, the EPA does consider how the state's methodology conforms to the state's EPA-approved water quality standards.

The EPA concludes that there is evidence to support the findings of the biological assessments that have been conducted by the state. This segment of Dardenne Creek also remains listed as impaired by low dissolved oxygen and inorganic sediment; both conditions suggest the existence of an impaired biological community.

In the case of the state's methodology for applying its narrative water quality standards through its Listing Methodology Document, the state may wish to modify the methodology to enable it to apply these data exclusion considerations into future listing decisions consistent with 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*. The EPA is not making revisions to its decision based on this comment.

Comment #2 West Fork Black River WBID 2755

The Missouri Department of Natural Resources agreed with the EPA on its decision to retain this water body on the 2010 Missouri § 303(d) List. The EPA is not making revisions to its decision based on this comment.

Comment #3 Muddy Creek WBID 0853

Provided that EPA approved Missouri's listing and consistent with federal regulations, 40 C.F.R. § 130.7(d), EPA did not seek public comment on this particular water body. The Missouri Department of Natural Resources provided additional information demonstrating good cause for the delisting of this water body. The data documents that there is no color impairment in this stream. The EPA has already acted on Missouri's listing of this water body on their 2010 § 303(d) List. As such, the appropriate path for the state to take in regards to this water body's status is to public notice their intention during the preparation of the 2012 Missouri § 303(d) List. The EPA is not making revisions to its decision based on this comment.

Comment #4 Truitt Creek WBID 3175

Provided that EPA approved Missouri's listing and consistent with federal regulations, 40 C.F.R. § 130.7(d), EPA did not seek public comment on this particular water body. However, the EPA responded to comments outside the context of its proposed actions on the list.

The Missouri Department of Natural Resources commented via email that this water body was erroneously listed as impaired by bacteria during the state's development of the 2010 § 303(d) List. The state contends that this water body does not have a primary contact use designated. However, the EPA disapproved removing the Whole Body Recreational use from this water body in its August 17, 2011 action on the state's 2009 Triennial Review. The EPA has already acted on Missouri's listing of this water body on their 2010 § 303(d) List. As such, the appropriate path for the state to take in regards to this water body's status is to public notice their intention during the preparation of the 2012 Missouri § 303(d) List. The EPA is not making revisions to its decision based on this comment.

Commenter: Gary Owens, Camdenton, MO.

Mr. Owens commented in a letter dated June 30, 2011, as an attachment to an email.

Comment #1 Niangua Arm, Lake of the Ozarks WBID 7205

Mr. Owens expressed concerns that this water body was listed for phosphorus. This listing was a decision of the state of Missouri. The EPA has already acted on the state of Missouri's submittal listing this water body as impaired for phosphorus. Provided that EPA approved Missouri's listing and consistent with federal regulations, 40 C.F.R. § 130.7(d), EPA did not seek public comment on this particular water body. As such, the EPA is not making revisions to its decision based on this comment.

Commenter: Newman, Comley & Ruth P.C.

Robert J. Brundage sent a letter as an attachment to an email and via U.S. Postal Service. The letter was dated July 5, 2012, and was received by the EPA in the email form on July 5, 2012, and as a postal delivery on July 8, 2012.

Comment #1 Cave Spring Branch WBID 3245U-01

Mr. Brundage reiterated comments made during the EPA's review of Missouri's delisting of this water body. He expressed a desire that the EPA should have delisted this water body based on the contention that it was meeting water quality standards rather than for the approval of a TMDL addressing the listed impairment. His letter also included documentation supporting his position. The EPA previously approved the delisting of Cave Spring Branch from the 2010 Missouri § 303(d) List in its April 29, 2011 action. Provided that EPA approved Missouri's listing and consistent with federal regulations, 40 C.F.R. § 130.7(d), EPA did not seek public comment on this particular water body. As such, the EPA is not making revisions to its decision based on this comment.

Commenter: Jeanine Pagan.

Ms. Pagan sent an email with her comments on July 5, 2010.

Comment #1 Waters in Boone County

Ms. Pagan supported the listing of waters in Boone County to keep the status of waters as an issue to be addressed by city and county entities. The EPA acknowledges the support of Ms. Pagan and appreciates

her concern with water quality in her region. At this time, the Agency is not considering revisions to that decision. The EPA has forwarded her comments to Mr. John Ford at the Missouri Department of Natural Resources for consideration during the preparation of the state's 2012 Section 303(d) List.

Attachment 2

Final 2010 Missouri § 303(d) List. Water body/pollutant pairs where MDNR subdivided the classified segment to include additional information about the pollutant or pollutant source are denoted with an “-a”, “-b”, etc. For water bodies with proposed name changes, the table lists the water body under both names but only identifies the EPA approved name under the No. column.

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
1	Atkinson Lake	7234	L3	434.0	434.0	355	St. Clair	Chlorophyll
2	Atkinson Lake	7234	L3	434.0	434.0	355	St. Clair	Phosphorus
3	Baldwin Park Tributary (to Chat Creek)	3168U	U	n/a	n/a	n/a	Lawrence	Zinc (W)
4	Bee Fork	2760	C	8.5	8.5	8.5	Reynolds	Lead
5	Bee Fork	2760	C	0.9	8.5	8.5	Reynolds	Lead (S)
6	Bee Fork	2760U-01	U	0.3	n/a	n/a	Reynolds	Lead (S)
7	Belcher Branch Lake	7365	L3	55.0	55.0	55	Buchanan	Mercury (T)
8	Bethany Lake	7109	L3	78.0	78.0	78	Harrison	Mercury (T)
9	Big Creek	0444	P	1.0	22.0	22.0	Harrison	Ammonia
10	Big Creek	0444	P	6.0	22.0	22.0	Harrison	Low D.O.
11	Big Creek	2916	P	3.0	34.1	32	Wayne/Iron	Cadmium (S)
12	Big Creek	2916	P	3.0	34.1	32	Wayne/Iron	Lead (S)
13	Big Creek	2916	P	3.0	34.1	32	Wayne/Iron	Metals (S)
14	Big Otter Creek, Tributary to	1225	C	1.0	1.0	1.0	Henry	Low D.O.
15	Big Piney River	1578	P	4.0	7.8	8.0	Texas	Low D.O.
16	Big River	2080	P	18.6	68.0	68	St. Francois	Cadmium (S)
17	Big River	2080	P	18.6	68.0	68	St. Francois	Zinc (S)
18	Bilby Ranch Lake	7368	L3	95.0	95.0	110	Nodaway	Chlorophyll
19	Binder Lake	7185	L3	127.0	127.0	127	Cole	Chlorophyll
20	Binder Lake	7185	L3	127.0	127.0	127	Cole	Phosphorus
21	Black River	2784	P	39.0	39.0	35.0	Wayne/Butler	Mercury (T)
22	Blackberry Creek	3184	C	3.5	6.5	6.5	Jasper	Chloride

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
23	Blackberry Creek	3184	C	3.5	6.5	6.5	Jasper	Sulfate Chloride
24	Blue River	0417	P	4.4	4.4	4.0	Jackson	Bacteria
25	Blue River	0418	P	9.4	9.4	9.0	Jackson	Bacteria
26	Blue River	0419	P	7.7	7.7	9.0	Jackson	Bacteria
27	Blue River	0421	C	12.0	12.0	11.0	Jackson	Bacteria
28	Bobs Creek	0035	C	3.5	14.2	12.5	Lincoln	Low D.O.
29	Bonne Femme Creek	0750	P	7.8	7.8	7	Boone	Bacteria
30	Bourbeuse River	2034	P	136.7	136.7	132	Phelps/Franklin	Mercury (T)
31	Brush Creek	1371	P	4.7	4.7	4	Polk/St. Clair	Low D.O.
32	Brush Creek	1371	P	4.7	4.7	4	Polk/St. Clair	Organic Sediment
33	Brush Creek	1372	C	5.5	5.5	2	Polk	Low D.O.
34	Burgher Branch	1865	C	1.5	1.5	2	Phelps	Low D.O.
35	Busch Lake #35	7057	L3	51.0	51.0	51	St. Charles	Mercury (T)
36	Busch Lake #37	7056U	U	34.0	34.0	n/a	St. Charles	Mercury (T)
37	Capps Creek	3234	P	5.0	5.0	4	Barry	Bacteria
38	Castor River	2288	P	7.5	7.5	6.5	Bollinger	Bacteria
39	Cedar Creek	0737	C	7.0	37.4	33	Callaway	Unknown
40	Cedar Creek	1344	P	10.0	31.0	27	Cedar	Unknown
41	Cedar Creek	1344	P	10.0	31.0	27	Cedar	Low D.O.
42	Cedar Creek	1357	C	16.2	16.2	16.5	Cedar	Unknown
43	Cedar Creek	1357	C	16.2	16.2	16.5	Cedar	Low D.O.
44	Cedar Creek, Tributary to (proposed new name. Renfro Creek)	0743	C	1.5	1.5	1.5	Callaway	Low D.O.
45	Center Creek	3203	P	12.8	26.8	26	Jasper	Cadmium (S)
46	Center Creek	3203	P	12.8	26.8	26	Jasper	Cadmium (W)
47	Center Creek	3203	P	12.8	26.8	26	Jasper	Lead (S)
48	Center Creek	3203	P	12.8	26.8	26	Jasper	Zinc (S)
49	Center Creek	3203	P	12.8	26.8	26	Jasper	Bacteria
50	Center Creek	3210	P	21.0	21.0	22	Newton/Jasper	Bacteria
51	Center Creek	3214	P	4.9	4.9	3	Lawrence/Newton	Bacteria
	Chat Creek (a.k.a. Douger Br.)	3168	C	1.0	2.1	4.5	Lawrence	Cadmium (W)

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
	Chat Creek (a.k.a. Douger Br.)	3168	C	1.0	2.1	4.5	Lawrence	Lead (S)
	Chat Creek (a.k.a. Douger Br.)	3168	C	1.0	2.1	4.5	Lawrence	Zinc (S)
52	Clear Creek	1333	P	28.2	28.2		Vernon/St. Clair	Low D.O.
53	Clear Creek	1336	C	22.3	22.3	15	Vernon	Low D.O.
54	Clear Creek	3238	P	11.1	11.1	9	Barry/Newton	Bacteria
55	Clear Creek	3239	C	3.5	3.5	2	Barry/Newton	Nutrients
56	Clear Creek	3239	C	3.5	3.5	2	Barry/Newton	Low D.O.
57	Clear Fork	0935	P	3.0	25.8	24.5	Johnson	Low D.O.
58	Clearwater Lake	7326	L2	1635.0	1635.0	1650	Reynolds/Wayne	Mercury (T)
59	Coldwater Creek	1706	C	6.9	6.9	5.5	St. Louis	Bacteria
60	Coldwater Creek	1706	C	6.9	6.9	5.5	St. Louis	Chloride
61	Coldwater Creek	1706	C	4.0	6.9	5.5	St. Louis	Low D.O.
62	Coon Creek	0132	C	11.8	11.8	9	Randolph/Monroe	Low D.O.
63	Coon Creek, Tributary to	0133	C	2.0	2.0	1	Randolph	Low D.O.
64	Courtois Creek	1943	P	2.6	32.0	30	Washington	Metals*** (S)
65	Creve Coeur Creek	1703	C	3.8	3.8	2	St. Louis	Low D.O.
66	Creve Coeur Creek	1703	C	3.8	3.8	2	St. Louis	Bacteria
67	Creve Coeur Creek	1703	C	3.8	3.8	2	St. Louis	Chloride
68	Crooked Creek	1928	P	3.5	3.5	3.5	Dent/Crawford	Cadmium (S)
69	Crooked Creek	1928	P	3.5	3.5	3.5	Dent/Crawford	Cadmium (W)
70	Crooked Creek	1928	P	3.5	3.5	3.5	Dent/Crawford	Lead (S)
71	Crooked Creek	1928U-01	U	5.2	n/a	n/a	Iron/Dent	Cadmium (W)
72	Crooked Creek	1928U-01	U	5.2	n/a	n/a	Iron/Dent	Copper (W)
73	Current River	2636	P	124.0	124.0	118	Shannon/Ripley	Mercury (T)
74	Dardenne Creek	0219	P1	7.0	7.0	7	St. Charles	Low D.O.
75	Dardenne Creek	0221	P	16.5	16.5	15	St. Charles	Low D.O.
76	Dardenne Creek	0221	P	16.5	16.5	15	St. Charles	Unknown
77	Dardenne Creek	0221	P	16.5	16.5	15	St. Charles	Inorganic Sediment

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
78	Dardenne Creek	0222	C	6.0	6.0	6	St. Charles	Low D.O.
79	Dark Creek	0690	C	9.1	9.1	8	Randolph	Low D.O.
80	Deer Ridge Lake	7015	L3	39.0	39.0	48	Lewis	Mercury (T)
81	Des Moines River	0036	P	31.3	31.3	29	Clark	Bacteria
82	Ditch #36	3109	P	7.8	7.8	7	Dunklin	Low D.O.
83	Ditch to Buffalo Ditch (proposed new name Pole Cat Slough)	3120	P	12.0	12.0	12	Dunklin	Low D.O.
84	Douger Branch (proposed new name Chat Creek)	3168	C	1.0	2.1	4.5	Lawrence	Cadmium (W)
85	Douger Branch (proposed new name Chat Creek)	3168	C	1.0	2.1	4.5	Lawrence	Lead (S)
86	Douger Branch (proposed new name Chat Creek)	3168	C	1.0	2.1	4.5	Lawrence	Zinc (S)
87	Dousinbury Creek	1180	P	3.9	3.9	3.5	Dallas	Bacteria
88	Dry Branch	3189	C	10.2	10.2	9	Jasper	Bacteria
89a	Dutro Carter Creek	3569	P	0.6	1.5	1.5	Phelps	Low D.O.
89b	Dutro Carter Creek	3569	P	0.9	1.5	1.5	Phelps	Low D.O.
90	East Fork Crooked River	0372	P	19.9	19.9	14	Ray	Low D.O.
91	East Fork Grand River	0457	P	28.7	28.7	25	Worth/Gentry	Bacteria
92	East Fork Locust Creek	0608	P	16.7	16.7	13	Sullivan	Bacteria
93a	East Fork Locust Creek	0610	C	0.4	15.7	13	Sullivan	Bacteria
93b	East Fork Locust Creek	0610	C	15.3	15.7	13	Sullivan	Bacteria
94	East Fork Locust Creek	0610	C	15.3	15.7	13	Sullivan	Low D.O.
95	East Fork Medicine Creek	0619	P	43.8	43.8	36	Putnam/Grundy	Bacteria
96	East Fork Tebo Creek	1282	C	1.0	14.5	12	Henry	Low D.O.
97	Eaton Branch	2166	C	0.9	1.2**	3	St. Francois	Cadmium (S)
98	Eaton Branch	2166	C	0.9	1.2**	3	St. Francois	Cadmium (W)

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99	Eaton Branch	2166	C	0.9	1.2**	3	St. Francois	Lead (S)
100	Eaton Branch	2166	C	0.9	1.2**	3	St. Francois	Zinc (S)
101	Eaton Branch	2166	C	0.9	1.2**	3	St. Francois	Zinc (W)
102	Eleven Point River	2597	P	11.4	11.4	10	Oregon	Mercury (T)
103	Eleven Point River	2601	P	22.3	22.3	19	Oregon	Mercury (T)
104	Elm Branch	1283	C	3.0	3.0	3	Henry	Low D.O.
105	Fishpot Creek	2186	P	3.5	3.5	2	St. Louis	Bacteria
106	Fishpot Creek	2186	P	3.5	3.5	2	St. Louis	Low D.O.
107	Flat River Creek	2168	C	5.0	10.0	9	St. Francois	Cadmium (W)
108	Flat River Creek Tributary	2168U	U	n/a	n/a	n/a	St. Francois	Zinc(W)
109	Forest Lake	7151	L1	580.0	580.0	573	Adair	Chlorophyll
110	Forest Lake	7151	L1	580.0	580.0	573	Adair	Nitrogen
111	Forest Lake	7151	L1	580.0	580.0	573	Adair	Phosphorus
112	Foster Creek	0747U-01	U	0.5	n/a	n/a	Boone	Ammonia
113	Fowler Creek	0747	C	6.0	6.0	6	Boone	Low D.O.
114	Fox River	0038	P	42.0	42.0	27	Clark	Bacteria
115	Foxboro Lake	7382	L3	22.0	22.0	25	Franklin	Mercury (T)
116	Fox Valley Lake	7008	L3	89.0	89.0	108	Clark	Phosphorus
117	Frisco Lake (a.k.a. Schuman Park Lake)	7280	L3	5.0	5.0	5	Phelps	Mercury (T)
118	Gasconade River	1455	P	264.0	264.0	249	Gasconade/Wright	Mercury (T)
119	Goose Creek, Tributary	1420	C	3.0	3.0	3	Lawrence	Bacteria
120	Grand Glaize Creek	2184	C	4.0	4.0	4	St. Louis	Bacteria
121	Grand Glaize Creek	2184	C	4.0	4.0	4	St. Louis	Chloride
122	Grand Glaize Creek	2184	C	4.0	4.0	4	St. Louis	Mercury (T)
123	Grand Glaize Creek	2184	C	4.0	4.0	4	St. Louis	Low D.O.
124	Grand River	0593	P	56.0	56.0	60	Livingston/Chariton	Bacteria
125	Gravois Creek	1712	P	2.3	2.3	2	St. Louis	Bacteria
126	Gravois Creek	1712	P	2.3	2.3	2	St. Louis	Chloride
127	Gravois Creek	1713	C	6.0	6.0	4	St. Louis	Bacteria
128	Gravois Creek	1713	C	6.0	6.0	4	St. Louis	Chloride

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129	Gravois Creek	1713	C	6.0	6.0	4	St. Louis	Low D.O.
130	Grindstone Creek	1009	C	1.5	2.5	1.5	Boone	Bacteria
131	Grindstone Reservoir	7384	L1	173.0	173.0	180	DeKalb	Chlorophyll
132	Grindstone Reservoir	7384	L1	173.0	173.0	180	DeKalb	Nitrogen
133	Grindstone Reservoir	7384	L1	173.0	173.0	180	DeKalb	Phosphorus
134	Harrison County Lake	7386	L1	280.0	280.0	280	Harrison	Chlorophyll
135	Harrison County Lake	7386	L1	280.0	280.0	280	Harrison	Phosphorus
136	Hazel Creek Lake	7152	L1	453.0	453.0	151	Adair	Mercury (T)
137	Hazel Creek Lake	7152	L1	453.0	453.0	151	Adair	Chlorophyll
138	Hazel Hill Lake	7387	L3	62.0	62.0	71	Johnson	Chlorophyll
139	Heath's Creek	0848	P	21.0	21.0	13	Pettis	Low D.O.
140	Hickory Creek	3226	P	4.9	4.9	4.5	Newton	Bacteria
141	Hinkson Creek	1008	C	18.8	18.8	18	Boone	Bacteria
142	Honey Creek	3169	P	16.5	16.5	13	Lawrence	Bacteria
143	Honey Creek	3170	C	2.7	2.7	2	Lawrence	Bacteria
144	Horse Creek	1348	P	27.7	27.7	24.5	Cedar	Unknown
145	Horse Creek	1348	P	27.7	27.7	24.5	Cedar	Low D.O.
146	Hough Park Lake	7388	L3	10.0	10.0	7	Cole	Mercury (T)
147	Indian Creek	0420	C	3.4	3.4	3	Jackson	Bacteria
148	Indian Creek	0420	C	3.4	3.4	3	Jackson	Chloride
149	Indian Creek	1747	C	3.6	3.6	3	St. Genevieve	Low D.O.
150	Indian Creek	3256	P	5.0	30.8	26	Newton	Bacteria
151	Indian Creek	3256	P	5.0	30.8	26	Newton	Unknown
152	Indian Creek Lake	7389	L3	185.0	185.0	192	Livingston	Mercury (T)
153	Kiefer Creek	3592	P	1.2	1.2	0.5	St. Louis	Bacteria
154	Knob Noster State Park Lakes (Lake Buteo)	7196	L3	10.0	24.0	24	Johnson	Mercury (T)
155	Kraut Run Lake	7056	L3	164	164	182	St. Charles	Chlorophyll
156	Kraut Run Lake	7056	L3	164	164	182	St. Charles	Phosphorus
157	La Belle Lake No. 2	7023	L1	98.0	98.0	112	Lewis	Chlorophyll
158	La Belle Lake No. 2	7023	L1	98.0	98.0	112	Lewis	Phosphorus
159	Lac Capri	7297A	L3	112.0	112.0	n/a	St. Francois	Chlorophyll
160	Lac Capri	7297A	L3	112.0	112.0	n/a	St. Francois	Nitrogen

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
161	Lake Jacomo	7101	L3	998.0	998.0	970	Jackson	Chlorophyll
162a	Lake of the Ozarks, Niangua Arm	7205	L2	7600.0	59520.0	59520	Camden	Phosphorus
162b	Lake of the Ozarks, Osage Arm	7205	L2	38920.0	59520.0	59520	Camden	Nitrogen
163	Lake of the Woods	7436	L3	3.0	3.0	3	Boone	Mercury (T)
164	Lake of the Woods	0419U-01	U	7.0	n/a	n/a	Jackson	Mercury (T)
165	Lake Springfield	7312	L3	293.0	293.0	360	Greene	Chlorophyll
166	Lake Springfield	7312	L3	293.0	293.0	360	Greene	Nitrogen
167	Lake Springfield	7312	L3	293.0	293.0	360	Greene	Phosphorus
168	Lake St. Louis	7054	L3	444.0	444.0	525	St. Charles	Mercury (T)
169	Lake Ste. Louise	7055	L3	71.0	71.0	98	St. Charles	Bacteria
170	Lake Taneycomo	7314	L2	2118.6	2118.6	1730	Taney	Nitrogen
171	Lake Wappapello	7336	L2	8200.0	8200.0	8200	Wayne	Chlorophyll
172	Lake Wappapello	7336	L2	8200.0	8200.0	8200	Wayne	Nitrogen
173	Lake Wappapello	7336	L2	8200.0	8200.0	8200	Wayne	Phosphorus
174	Lake Winnebago	7212	L3	272.0	272.0	350	Cass	Mercury (T)
175	Lamine River	0847	P	64.0	64.0	54	Morgan/Cooper	Bacteria
176	Lateral #2 Main Ditch	3105	P	11.5	11.5	11.5	Stoddard	Temperature
177	Lateral #2 Main Ditch	3105	P	11.5	11.5	11.5	Stoddard	Low D.O.
178	Lewistown Lake	7020	L1	29.0	29	29	Lewis	Atrazine
179	Little Beaver Creek	1529	C	3.3	3.5	4	Phelps	Inorganic Sediment
180	Little Dry Fork	1863	P	1.0	5.2	5	Phelps	Low D.O.
181a	Little Dry Fork	1864	C	0.6	4.7	4.5	Phelps	Low D.O.
181b	Little Dry Fork	1864	C	3.9	4.7	4.5	Phelps	Low D.O.
182	Little Drywood Creek	1325	P	20.5	20.5	17	Vernon	Low D.O.
183	Little Drywood Creek	1326	C	15.6	15.6	10	Barton/Vernon	Low D.O.
184	Little Lost Creek	3279	P	5.8	5.8	4.5	Newton	Bacteria
185	Little Muddy Creek, Tributary to	3490	C	1.0	1.0	0.4	Pettis	Chloride
186	Little Muddy Creek, Tributary to	3490	C	1.0	1.0	0.4	Pettis	Color

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
187	Little Niangua River	1189	P	20.0	43.8	43	Dallas/Camden	Low D.O.
188	Little Osage River	3652	C	23.6	23.6	16	Vernon	Bacteria
189	Locust Creek	0606	P	36.4	91.7	84	Putnam/Sullivan	Bacteria
190	Lone Elm Hollow	3216U	U	1.4	n/a	n/a	Jasper	Metals
191	Long Branch Creek	0696	C	2.0	14.8	13	Macon	Low D.O.
192	Longview Lake	7097	L2	853.0	853.0	930	Jackson	Mercury (T)
193	Lost Creek	3278	P	8.5	8.5	8.5	Newton	Bacteria
194	Main Ditch	2814	C	1.0	13.0	14	Butler	Ammonia
195	Main Ditch	2814	C	1.0	13.0	14	Butler	pH
196	Main Ditch	2814	C	10.0	13.0	14	Butler	Temperature
197	Maline Creek	1709	C	0.6	0.6	1	St. Louis	Low D.O.
198	Manito Lake	7198	L3	77.0	77.0	77	Moniteau	Nitrogen
199	Manito Lake	7198	L3	77.0	77.0	77	Moniteau	Phosphorus
200	Maple Slough Ditch	3140	C	18.2	18.2	16	Mississippi/New Madrid	Low D.O.
201	Marceline New Lake	7136	L1	200.0	200.0	200	Chariton	Chlorophyll
202	Marceline New Lake	7136	L1	200.0	200.0	200	Chariton	Nitrogen
203	Marceline New Lake	7136	L1	200.0	200.0	200	Chariton	Phosphorus
204	Mark Twain Lake	7033	L2	18132.0	18132.0	18600	Ralls	Mercury (T)
205	Mark Twain Lake	7033	L2	18132.0	18132.0	18600	Ralls	Nitrogen
206	McDaniel Lake	7236	L1	218.0	218.0	300	Greene	Chlorophyll
207	McDaniel Lake	7236	L1	218.0	218.0	300	Greene	Phosphorus
208	McKay Park Lake (Sunset Lake)	7399	L3	6.0	6.0	6	Cole	Mercury (T)
209	McKenzie Creek	2786	P	2.5	6.0	6	Wayne	Low D.O.
210	Meramec River	1841	P	76.0	76.0	37	Franklin/Jefferson	Mercury (T)
211	Meramec River	2183	P	22.8	22.8	22	St. Louis	Lead (S)
212	Meramec River	2183	P	22.8	22.8	22	St. Louis	Bacteria
213	Meramec River	2185	P	15.7	15.7	26	St. Louis	Lead (S)
214	Miami Creek	1299	P	19.6	19.6	18	Bates	Low D.O.
215	Middle Fork Grand River	0468	P	27.5	27.5	25	Worth/Gentry	Bacteria
216	Middle Fork Salt River	0121	P	24.8	85.1	49	Macon/Monroe	Low D.O.

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
217	Middle Indian Creek	3262	C	3.5	3.5	3	Newton	Unknown
218	Middle Indian Creek	3263	P	2.2	2.2	2.5	Newton	Bacteria
219	Middle Indian Creek	3263	P	2.2	2.2	2.5	Newton	Unknown
220	Missouri River	0226	P	184.5	184.5	179	Atchison/Jackson	Bacteria
221	Missouri River	1604	P	104.5	104.5	100	St. Louis/ Gasconade	Bacteria
222	Moberly Rothwell Lake	7165	L3	22.0	22.0	25	Randolph	Chlorophyll
223	Monzingo Lake	7402	L1	898.0	898.0	1000	Nodaway	Mercury (T)
224	Monzingo Lake	7402	L1	898.0	898.0	1000	Nodaway	Chlorophyll
225	Muddy Creek	0853	P	39.0	62.2	55	Pettis	Chloride
226	Muddy Creek	0853	P	1.0	62.2	55	Pettis	Color
227	Muddy Creek	0853	P	62.2	62.2	55	Pettis	Unknown
228	Mussel Fork Creek	0674	C	29.0	29.0	29	Sullivan/Macon	Bacteria
229	Niangua River	1170	P	56.0	56.0	51	Dallas	Bacteria
230	No Creek	0550	P	28.7	28.7	22.5	Grundy/Livingston	Bacteria
231	No Creek	0550	P	28.7	28.7	22.5	Grundy/Livingston	Low D.O.
232	Noblett Lake	7316	L3	26.0	26.0	26	Douglas	Mercury (T)
233	Nodaway Lake	7076	L3	73.0	73.0	73	Nodaway	Chlorophyll
234	Nodaway Lake	7076	L3	73.0	73.0	73	Nodaway	Nitrogen
235	Nodaway River	0279	P	59.3	59.3	60	Nodaway	Bacteria
236	North Fork Cuivre River	0170	C	10.0	10.0	8	Pike	Low D.O.
237	North Fork Cuivre River	0170	C	10.0	10.0	8	Pike	Bacteria
238	North Fork Spring River	3186	P	17.4	17.4	14.5	Barton	Bacteria
239	North Fork Spring River	3188	C	1.0	55.9	51.5	Dade/Jasper	Ammonia
240	North Fork Spring River	3188	C	55.9	55.9	51.5	Dade/Jasper	Bacteria
241	North Fork Spring River	3188	C	55.9	55.9	51.5	Dade/Jasper	Low D.O.
242	North Indian Creek	3260	P	5.2	5.2	5	Newton	Bacteria
243	North Lake	7218	L3	19.0	19.0	51	Cass	Chlorophyll
244	North Lake	7218	L3	19.0	19.0	51	Cass	Phosphorus
245	North Moreau Creek	0942	P	11.6	47.9	50	Moniteau	Low D.O.
246	Odessa Lake	7093	L1	87.0	87.0	90	Lafayette	Chlorophyll
247	Odessa Lake	7093	L1	87.0	87.0	90	Lafayette	Nitrogen

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
248	Old Mines Creek, Tributary	2114	C	0.9	1.5	1.5	Washington	Sediment
249	Osage River	1031	P	10.0	81.9	82	Osage/Miller	Total Dissolved Gas
250	Osage River	1293	P	45.5	45.5		Vernon/St. Clair	Low D.O.
251	Panther Creek	1373	C	9.7	9.7	7.8	St.Clair/Polk	Low D.O.
252	Pearson Creek	2373	P	2.0	8.0	8	Greene	Bacteria
253	Peruque Creek	0217	P	n/a	4.0	4	St. Charles	Inorganic Sediment
254	Peruque Creek	0218	C	n/a	8.0	8.5	St. Charles	Inorganic Sediment
255	Petite Saline Creek	0785	P	21.0	21.0	17	Cooper/Moniteau	Low D.O.
256	Phillips Lake	1003U-01	U	32.0	n/a	n/a	Boone	Mercury (T)
257	Pickle Creek	1755	P	7.8	7.8	7	Ste. Genevieve	pH
258	Pike Creek	2815	C	1.3	6.0	6	Butler	Temperature
259	Pike Creek	2815	C	1.3	6.0	6	Butler	Low D.O.
260	Platte River	0312	P	142.2	142.2	138	Worth/Platte	Bacteria
	Pole Cat Slough (a.k.a. Ditch to Buffalo Ditch)	3120	P	12.6	12.6	12	Dunklin	Low D.O.
261	Pomme de Terre Lake	7238	L2	7820.0	7820.0	7820	Hickory	Chlorophyll
262	Pomme de Terre Lake	7238	L2	7820.0	7820.0	7820	Hickory	Nitrogen
263	Red Oak Creek	2038	C	10.0	10.0	9	Gasconade	Low D.O.
264	Red Oak Creek, Tributary to	3360	P	0.5	0.5	0.5	Gasconade	Low D.O.
265a	Red Oak Creek, Tributary to	3361	C	0.9	1.9	1.5	Gasconade	Low D.O.
265b	Red Oak Creek, Tributary to	3361	C	1.0	1.9	1.5	Gasconade	Low D.O.
	Renfro Creek (a.k.a. Cedar Creek, Trib.)	0743	C	1.5	1.5	1.5	Callaway	Low D.O.
266	Richland Creek	0884	C	6.2	10.0	8	Morgan	Low D.O.
267	River des Peres	1710 (was 1711)	C	2.6	2.6	1	St. Louis	Chloride

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
268	River des Peres	1710 (was 1711)	C	2.6	2.6	1	St. Louis	Low D.O.
269	River des Peres	1710U-01 (was 1711U-01)	U	2.5	n/a	n/a	St. Louis	Chloride
270	Sadler Branch	3577	C	0.8	0.8	0.8	Polk	Low D.O.
271	Salt Creek	0594	C	14.9	14.9	14	Livingston/Chariton	Low D.O.
272	Salt River	0091	P	29.0	29.0	29	Ralls/Pike	Low D.O.
273	Salt River	0091	P	29.0	29.0	29	Ralls/Pike	Mercury (T)
274	Schuman Park Lake (proposed new name Frisco Lake)	7280	L3	5.0	5.0	5	Phelps	Mercury (T)
275	Scroggins Branch	2916U-01	U	0.5	n/a	n/a	Iron	Cadmium (W)
276	Scroggins Branch	2916U-01	U	0.5	n/a	n/a	Iron	Zinc (W)
277	Shaw Branch	2170	C	1.2	1.2	2	St. Francois	Cadmium (S)
278	Shoal Creek	3222	P	41.1	41.1	43.5	Newton	Bacteria
279	Shoal Creek	3231	C	5.0	5.0	4	Barry	Low D.O.
280	Sni-a-Bar Creek	0399	P	36.6	36.6	32	Jackson/Lafayette	Low D.O.
281	South Blackbird Creek	0655	C	5.0	13.0	13	Putnam	Ammonia
282	South Davis Creek	0913		4.6	4.6	4	Lafayette	Low D.O.
283	South Fabius River	0071	P	80.6	80.6	61.5	Knox/Marion	Bacteria
284	South Fork Salt River	0142	C	17.9	40.1	32	Callaway/Audrain	Low D.O.
285	South Grand River	1249	P	66.8	66.8	62.5	Cass/Henry	Bacteria
286	South Indian Creek	3259	P	8.7	8.7	9	McDonald/Newton	Bacteria
287	Spring River	3160	P	61.7	61.7	58.5	Lawrence/Jasper	Bacteria
288	Spring River	3164	P	8.8	8.8	9.5	Lawrence	Bacteria
289	Spring River	3165	P	11.9	11.9	10	Lawrence	Bacteria
290	St. Johns Ditch	3138	P	15.3	15.3	35	Scott/New Madrid	Bacteria
291	St. Johns Ditch	3138	P	15.3	15.3	35	Scott/New Madrid	Mercury (T)

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
292	Stevenson Bayou	3135	C	6.4	6.4	14	Mississippi	Low D.O.
293	Stockton Branch	1361	C	1.0	3.6	5	Cedar	Low D.O.
294	Stockton Lake	7235	L2	23680.0	23680.0	23680	Cedar	Chlorophyll
295	Stockton Lake	7235	L2	23680.0	23680.0	23680	Cedar	Nitrogen
296	Straight Fork	0959	C	2.5	6.0	6	Morgan	Chloride
297	Straight Fork	0959	C	2.5	6.0	6	Morgan	Low D.O.
298	Strother Creek	2751	P	2.1	6.0	7	Iron	Lead (S)
299	Strother Creek	2751	P	2.1	6.0	7	Iron	Lead (W)
300	Strother Creek	2751	P	2.1	6.0	7	Iron	Nickel (S)
301	Strother Creek	2751	P	2.1	6.0	7	Iron	Zinc (S)
302	Strother Creek	2751	P	2.1	6.0	7	Iron	Zinc (W)
303	Strother Creek	2751U-01	U	1.0	n/a	n/a	Reynolds/Iron	Arsenic (S)
304	Strother Creek	2751U-01	U	1.0	n/a	n/a	Reynolds/Iron	Lead (S)
305	Strother Creek	2751U-01	U	1.0	n/a	n/a	Reynolds/Iron	Nickel (S)
306	Strother Creek	2751U-01	U	1.0	n/a	n/a	Reynolds/Iron	Zinc (S)
307	Sugar Creek	0686	P	6.8	6.8	5	Randolph	Low D.O.
308	Sugar Lake (Lewis and Clark State Park)	7067	L3	403.0	403.0	317	Buchanan	Bacteria
309	Table Rock Lake, White River Arm	7313	L2	17240.0	17240	43100	Stone	Chlorophyll
310a	Table Rock Lake, White River Arm	7313	L2	17240.0	17240	43100	Stone	Nitrogen
310b	Table Rock Lake, James, Kings and Long Creek Arms	7313	L2	25860.0	25860	43100	Stone	Nutrients
311	Thompson River	0549	P	5.0	70.6	65	Harrison	Bacteria
312	Todd Creek	0316	C	5.7	9.9	9.5	Platte	Low D.O.
313	Troublesome Creek	0074	C	41.3	41.3	34	Knox/Marion	Low D.O.
314	Truitt Creek	3175	C	6.4	6.4	5	Lawrence	Bacteria

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
315	Turkey Creek	3216	P	7.7	7.7	7	Jasper	Bacteria
316	Turkey Creek	3216	P	7.7	7.7	7	Jasper	Cadmium (S)
317	Turkey Creek	3216	P	7.7	7.7	7	Jasper	Cadmium (W)
318	Turkey Creek	3216	P	7.7	7.7	7	Jasper	Lead (S)
319	Turkey Creek	3216	P	7.7	7.7	7	Jasper	Zinc (S)
320	Turkey Creek	3217	P	6.1	6.1	5	Jasper	Bacteria
321	Turkey Creek	3217	P	6.1	6.1	5	Jasper	Cadmium (S)
322	Turkey Creek	3217	P	6.1	6.1	5	Jasper	Lead (S)
323	Turkey Creek	3217	P	6.1	6.1	5	Jasper	Zinc (S)
324	Turkey Creek	3282	P	2.4	2.4	2.4	St. Francois	Cadmium (W)
325	Turkey Creek	3282	P	2.4	2.4	2.4	St. Francois	Lead (W)
326	Turkey Creek	3282	P	1.2	2.4	2.4	St. Francois	Zinc (W)
327	Turkey Creek	3282	P	1.2	2.4	2.4	St. Francois	Low D.O.
328	Turnback Creek	1414	P	19.9	19.9	19.5	Lawrence/Dade	Bacteria
329	Unionville Lake	7154	L3	74.0	74	70	Putnam	Phosphorus
330	Warm Fork Spring River	2579	P	1.2	13.8	12	Oregon	Bacteria
331	Watkins Creek	1708	C	1.4	1.4	3.5	St. Louis	Bacteria
332	Watkins Creek	1708	C	1.4	1.4	3.5	St. Louis	Chloride
333	Weatherby Lake	7071	L3	185.0	185.0	194	Platte	Nitrogen
334	Weldon River	0560	P	43.4	43.4	42	Mercer/Grundy	Bacteria
335	West Fork Black River	2755	P	1.3	32.3	31.7	Reynolds	Lead (S)
336	West Fork Black River	2755	P	1.3	32.3	31.7	Reynolds	Nickel (S)
337	West Fork Drywood Creek	1317	C	8.1	8.1	5.5	Vernon	Low D.O.
338	West Fork Medicine Creek	0623	P	39.8	39.8	40	Mercer/Grundy	Bacteria
339	West Fork Medicine Creek	0623	P	20.0	39.8	40	Mercer/Grundy	Unknown
340	West Fork Sni-a-Bar	0400	P	9.0	9.0		Jackson	Low D.O.
341	Whetstone Creek	1504	P	12.2	12.2	13	Wright	Low D.O.
342	Whetstone Creek	1505U	U	0.6	n/a		Wright	Ammonia
343	White Oak Creek	3182	C	18.0	18.0	15	Lawrence/Jasper	Bacteria

No.	Water Body Name	WBID	Class	MDNR Proposed Impairment Length* (mi/acres)	Proposed Impaired Classified Segment* (mi/acres)	EPA Approved Classified Segment (mi/acres)	County	Pollutant
344	Williams Creek	3171	P	1.0	1.0	1	Lawrence	Bacteria
345	Williams Creek	3172	P	8.5	8.5	7	Lawrence	Bacteria
346	Willow Branch	3280	P	2.2	2.2	1.5	Newton	Bacteria
347	Willow Fork	0955	C	6.8	6.8	6.5	Moniteau	Low D.O.
348	Willow Fork, Tributary to	0956	C	0.5	0.5	0.5	Moniteau	Low D.O.
349	Wilson Creek	2375	P	1.0	14.0	18	Greene	Bacteria
350	Wolf Creek	2879	C	8.0	8.0	8	St. Francois	Low D.O.
351	Wolf Creek, Tributary to	3589	C			1.5	St. Francois	Low D.O.

* EPA considers the entire classified segment as impaired on the § 303(d) List. See Section IV.D of the decision document for additional information.

** Only 0.9 miles of this stream remains after the creation of the Leadwood tailings pond.

*** Metals are believed to be the pollutant based on analysis of invertebrate community.

(S) = pollutant in sediment

(T) = pollutant in fish tissue

(W) = pollutant in water