ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION

SUBJECT Regulation No. 2 Water Quality Standards Third-Party Rulemaking City of Huntsville DOCKET NO. 13-006-R

MINUTE ORDER NO. _-

Petitioner City of Huntsville's ("Petitioner") Petition to Initiate Third-Party Rulemaking to Amend Regulation No. 2 is before the Arkansas Pollution Control and Ecology Commission ("Commission").

- 1. On July 26, 2013 the Commission granted Huntsville's Petition to Initiate Third Party Rulemaking to Amend Regulation No. 2 (Petition). In support of the Petition Huntsville submitted its *Section 2.306 Site Specific Water Quality Study: Town Branch, Holman Creek, and War Eagle Creek,* March 2013 Revised July 26, 2013 (Report). A public hearing was held on October 28, 2013 in Huntsville, Arkansas. The public comment period ended on November 12, 2013.
- 2. Through Minute Order No. 13-23 the Commission requested Huntsville to conduct an additional review of the feasibility of treatment alternatives for the removal of dissolved solids (minerals) from the effluent of Huntsville's existing wastewater treatment system. On October 21, 2013 Huntsville filed herein its Supplemental Report: Feasibility of Treatment Alternatives for Total Dissolved Solids and Chloride (Supplemental Report).
- 3. Thirty-two (32) comments were filed on the Petition during the comment period, and additional comments were submitted by the United States Environmental Protection Agency (EPA) after the close of the comment period. On August 15, 2017 Huntsville filed a

¹ Prior versions were filed. The July 26, 2013 Report was the last version filed herein prior to the comment period.

Responsive Summary and Exhibits, which included a revised Section 2.306 Site Specific Water Quality Study: Town Branch, Holman Creek, and War Eagle Creek ("Responsive Summary").

4. To address the public comments and to implement the Responsive Summary, the Petitioner has revised the proposed changes to Regulation No. 2 and is now proposing the following changes to Regulation No. 2:

Hunt down	nch from ge of the sville WV stream to ce with I Creek	City of WTP o the			Town m to the	conflue	le Creek fr nce with H to Clifty C	olman	downst conflue	Eagle C ream fronce with o Beave	om the Clifty
A CONTRACTOR OF THE PARTY OF TH	oecific Cr Proposed			pecific Cr Proposed		1	Specific Crit Proposed	eria		oecific Cr osed - NO	
Chloride	TDS	Sulfate	Chloride	TDS	Sulfate	Chloride	TDS	Sulfate	Chloride	TDS	Sulfate
(mg/L)	(mg/L	(mg/L	(mg/L)	(mg/L	(mg/L	(mg/L)	(mg/L	(mg/L	(mg/L)	(mg/L	(mg/L
223	779	61	180	621	48	39	248	17 ¹	<u>13</u> ¹	<u>240¹</u>	<u>17</u> ¹

Existing Ecoregion Reference Stream Value, no revision

- Removal of the Domestic Water Supply use for Town Branch beginning at Latitude 36.112330°, Longitude- 93.732833° and extending downstream to its confluence with Holman Creek at Latitude 36.0118158°, Longitude- 93.736039°; and for Holman Creek beginning at its confluence with Town Branch at Latitude 36.118158°, Longitude 93.736039° and extending downstream to its confluence with War Eagle Creek at Latitude 36.140824°, Longitude -93.729594°.
- 5. A mark up of the current proposed changes to Regulation No. 2 is attached hereto and incorporated herein.
- 6. Pursuant to public notice and hearing, and in consideration of the Second Amended Petition to
 Initiate Rulemaking, comments received, the Responsive Summary, the changes to the regulation
 that are now being proposed by Petitioner, and other pleadings, exhibits and evidence constituting
 the record in this docket, and in consideration of Regulation No. 8, Section 8.816 and the

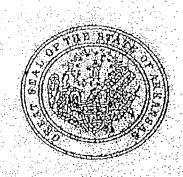
Commission's Regulation Formatting and Drafting Guidelines, Section V.D., the Petitioner has
requested that another public notice and public comment period be provided.

7. The Commission finds that it is appropriate under the circumstances to provide a second public notice and comment period.

WHEREFORE, The Public Outreach and Assistance Division is hereby directed to provide public notice of a public comment period that will conclude no earlier than October 9, 2017.

SUBMITTED BY: C DATE PASSED: Aug	
 Moss, Jr.	B. White
 Fox Gardner	 W. Stites G. Wheeler
 Chamberlin Crow	D. Melton R. Reynolds
Bengal	B. Holland

ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION





REGULATION NO. 2

REGULATION ESTABLISHING WATER QUALITY STANDARDS FOR SURFACE WATERS OF THE STATE OF ARKANSAS

Adopted by the Arkansas Pollution Control and Ecology Commission on (August 26, 2011)

Regulation Establishing Water Quality Standards for Surface Waters of the State of Arkansas

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banks and/or bottoms of the watercourses or adversely affect any of the associated biota. As a guideline, oil and grease shall not exceed 10 mg/l average or 15 mg/l maximum when discharging to surface waters. No mixing zones are allowed for discharges of oil and grease.

Reg. 2.511 Mineral Quality

(A) Site Specific Mineral Quality Criteria

Mineral quality shall not be altered by municipal, industrial, other waste discharges or instream activities so as to interfere with designated uses. The following limits apply to the streams indicated, and represent the monthly average concentrations of chloride (Cl), sulfate (SO_4) and total dissolved solids (TDS).

	Concen	tration-mg	/f.
Stream	Cl	SO ₄ =	TDS
A. L Divor Pagin			
Arkansas River (Mouth to L&D #7)	250	100	500
Bayou Meto (Rocky Branch to Bayou Two Prairie)	64*	ER	ER
Bayou Meto (mouth to Bayou Two Prairie)	95**	45**	ER
Bayou Two Prairie (mouth to Rickey Branch)	95**	45**	ER
Bayou Two France (mount to release) Brancos	64*	ER	ER
Rocky Branch Creek Little Fourche Creek (Willow Springs Branch to Fourche	ER	ER	179
Creek)	ER	112	247
Willow Springs Branch (McGeorge Creek to Little			
Fourche Creek)	ER	250	432
McGeorge Creek (headwaters to Willow Springs	Die		
Branch)	250	100	500
Arkansas River (L&D #7 to L&D #10)	20	20	100
Cadron Creek	20	20	***
Arkansas River (L&D #10 to Oklahoma line,	250	120	500
including Dardanelle Reservoir)	230	100	275
James Fork	20	20	300
Illinois River		60	500
Poteau River from Business Hwy 71 to Stateline	120	70	660
Unnamed trib at Waldron	150	70	000
west to Dr. on Dagin			
White River Basin	20	60	430
White River (Mouth to Dam #3)	20	30	270
Big Creek	ER	48*	ER
Unnamed trib from Frit Ind.	20	30	270
Cache River	48	37.3	411.3
Bayou DeView (from Mouth to AR Hwy 14)	48	38	411.3
Bayou Deview (from AR Hwy 14 to Whistle Ditch)	58	49	ER
Big Creek (from Whistle Ditch to mouth of	50		
Unnamed trib)	71	60	453
Unnamed trib to Big Creek	20	30	270
Lost Creek Ditch	20	20	270

Ct. com		ation-mg/ SO4=	L TDS
Stream	<u>Cl</u> -	30 30	100
Little Red River (including Greers Ferry Reservoir)	20	30	270
Black River	20	30	270
Strawberry River	20		290
Spring River	20	30	270
Eleven Point River	20	30	456*
Stennitt Creek	ER	ER	
South Fork Spring River	20	30	270
	20	30	270
Myatt Creek	20	30	270
Current River			- 0
White River (Dam #3 to Missouri line, including Bull	20	20	180
Shoals Reservoir)	20	20	200
Buffalo River	20	20	200
Crooked Creek	20	20	160
White River (Missouri line to headwaters, including			
Beaver Reservoir)	20	20	150
Kings River	20	20	150
West Fork White River			770
West Fork White River Town Branch From Point of Discharge of City of Huntsville WWTP	223	61	779
downstream to the confluence with Holman Creek Holman Creek from the confluence with Town Branch	100	48	621
	180	17	248
War Eagle Creek from the confluence with Holman Creek to Clifty Creek	39	. <u> </u>	
Ct Propose River Rasin	10	30	330
St. Francis River (Mouth to 36° N. Lat.)	20	30	235
Y LA Ma Divor		30	350
Tyronza River (headwaters to Ditch No. 6 confluence)	20 FD	480	1200
Ditab No. 27	ER	210	630
Dict No. 6 (mouth to Ditch No. 27 confluence)	ER	60	350
Tyronza River (mouth to Ditch No. 6 confluence)	20	30	365
Little River	20	-	380
Device t Dayou	20	30	180
St. Francis River (36° N. Lat. to 36° 30' N. Lat.)	10	20	100
St. Francis River (50 1). Edit to 5			
Ouachita River Basin			500
Bayou Bartholomew	50	20	500
Chemin-A-Haut Creek	50	20	
Chemin-A-Haut Crook	20	30	170
Overflow Creek	30	40	330
Bayou Macon	90	30	460
Boeuf River	230	30	500
Big Comie Creek	200	10	400
Little Cornie Creek	250	10	500
Three Creeks	200	20	500
Little Cornie Bayou	538*	35*	519*
Unnamed trib from GLCC 003	305*	ER	325*
Unnamed trib to Little Cornie Bayou	215*	25*	500*
Little Cornie Bayou from unnamed the to state Eme	180*	ER	970*
Walker Branch	104*	ER	311*
Gum Creek	250	90	500
Bayou de L'Outre above Gum Creek			
·			

Bayou de L'Outre below Gum Creek 250 90 750	Straam	Conce	ntration-m	<u>g/L</u>
Ouachita River (Louisiana line to Camden) 160 40 350	<u>Stream</u>	CI	<u>SO4</u> =	<u>TDS</u>
Ouachita River (Louisiana line to Camden) 160 40 120 20 40 120 20 30 30 30 30 30 30	Rayon de L'Ontre below Gum Creek	250	90	750
Saline River Sali	Quachita River (Louisiana line to Camden)	160	40	350
Saline River east bifurcation at Holly Creek ER 250 500 Hurricane Cr above Hurricane Lake Dam 20 250 500 Hurricane Cr from Hurricane Lk. Dam to Ben Ball Brdg 125 730 1210 Hurricane Cr from Ben Ball Bridge to Hwy.270 125 700 1200 Hurricane CR from Hwy 270 to Saline River 100 500 1000 Alcoa unnamed tribs to Hurricane Cr. 125 700 1100 Dry Lost Creek and tribs ER 560 880 Lost Creek to Little Lost Creek ER 510 820 Lost Creek below Little Lost Creek ER 300 550 Holly Creek 30 860 1600 Moro Creek 30 20 260 Smackover Creek 250 30 500 Unnamed trib A to Flat Creek from mouth of EDCC 16* 80* 315* Ol1 ditch to confluence with Flat Creek 23* 125* 475* Bayou de L'Outre Creek above Loutre Creek 180 ER 970 Unnamed trib UT004 from GLCC 278* 90* 500* Loutre Creek-from Hwy 15 South to the confluence of Bayou de Loutre Bayou de Loutre - from Loutre Creek to the discharge 264* 635* 1236* for the City of El Dorado - South facility Bayou de Loutre - from the mouth of Gum Creek Bayou de Loutre - from the discharge for the City of El Dorado-South downstream to the mouth of Gum Creek Bayou de Loutre - from the mouth of Boggy Creek 250* 263* 750* downstream to the mouth of Hibank Creek Bayou de Loutre - from the mouth of Boggy Creek 250* 263* 750* downstream to the mouth of Mill Creek Bayou de Loutre - from the mouth of Mill Creek 250* 263* 750* downstream to the mouth of Mill Creek 250* 263* 750* downstream to the mouth of Mill Creek 250* 263* 750* downstream to the mouth of Buckaloo Branch Bayou de Loutre - from the mouth of Buckaloo Branch Bayou de Loutre - from the mouth of Buckaloo Branch Bayou de Loutre - from the mouth of Buckaloo Branch Bayou de Loutre - from the mouth of Buckaloo Branch Bayou de Loutre - from the mouth of Buckaloo Branch Bayou de Loutre - from the mouth of Buckaloo Br		20	40	120
Hurricane Cr above Hurricane Lake Dam		ER	250	500
Hurricane Cr from Hurricane Lk. Dam to Ben Ball Brdg 125 730 1210 Hurricane Cr from Ben Ball Bridge to Hwy.270 125 700 1200 Hurricane CR from Hwy 270 to Saline River 100 500 1000 Alcoa unnamed tribs to Hurricane Cr. 125 700 1100 Dry Lost Creek and tribs ER 560 880 Lost Creek to Little Lost Creek ER 510 820 Lost Creek below Little Lost Creek ER 300 550 Holly Creek 30 860 1600 Moro Creek 30 20 266 Smackover Creek 250 30 550 Unnamed trib A to Flat Creek from mouth of EDCC 16* 80* 315* 001 ditch to confluence with Flat Creek 23* 125* 475* Bayou de L'Outre Creek above Loutre Creek 180 ER 970 Unnamed trib UT004 from GLCC 278* 90* 500* Loutre Creek- from Hwy 15 South to the confluence of Bayou de Loutre - from Loutre Creek to the discharge for the City of El Dorado - South facility Bayou de Loutre - from the mouth of Gum Creek 250* 345* 780* Bayou de Loutre - from the mouth of Boggy Creek 250* 263* 750* Bayou de Loutre - from the mouth of Boggy Creek 250* 263* 750* downstream to the mouth of Hibank Creek 250* 263* 750* downstream to the mouth of Mill Creek 250* 263* 750* downstream to the mouth of Mill Creek 250* 263* 750* Bayou de Loutre - from the mouth of Mill Creek 250* 263* 750* Bayou de Loutre - from the mouth of Mill Creek 250* 263* 750* Bayou de Loutre - from the mouth of Mill Creek 250* 263* 750* Bayou de Loutre - from the mouth of Mill Creek 250* 263* 750* Bayou de Loutre - from the mouth of Buckaloo Branch 250* 216* 750*		20	250	500
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downstream to the mouth of Mill Creek Bayou de Loutre – from the mouth of Mill Creek downstream to the mouth of Buckaloo Branch Bayou de Loutre- from the mouth of Buckaloo Branch 250* 237* 750*	Bayou de Loutre – from the mouth of Hibank Creek	250*	263*	750*
Bayou de Loutre – from the mouth of Mill Creek 250* 237* 750* downstream to the mouth of Buckaloo Branch Bayou de Loutre- from the mouth of Buckaloo Branch 250* 216* 750*	downstream to the mouth of Mill Creek			
downstream to the mouth of Buckaloo Branch Bayou de Loutre- from the mouth of Buckaloo Branch 250* 216* 750*	Bayou de Loutre – from the mouth of Mill Creek	250*	237*	750*
Bayou de Loutre- from the mouth of Buckaloo Branch 250* 216* 750*	downstream to the mouth of Buckaloo Branch			
⇔ •y •	Bayou de Loutre- from the mouth of Buckaloo Branch	250*	216*	750*
downstream to the mouth of Bear Creek	downstream to the mouth of Bear Creek			
Bayou de Loutre – from the mouth of Bear Creek 250* 198* 750*	Bayou de Loutre from the mouth of Bear Creek	250*	198*	750*

Stream	Concent Cl	cration-mp SO4 ⁼	<u>/L</u> TDS
downstream to the final segment of Bayou de Loutre	THE PERSON OF THE PERSON AND PERSONS ASSESSMENT OF THE PERSON AND PERSONS ASSESSMENT OF THE PERSON AND PERSONS ASSESSMENT OF THE PERSON AND PERSON AND PERSON ASSESSMENT OF THE PERSON AND PERSON ASSESSMENT OF THE PERSON AND PERSON ASSESSMENT OF THE PERSON ASSESSMENT OF TH	egypergenegyer (19. 1964) val 47. j febrúar (14. 196	PRINCE OF A STANDARD CONTRACT STANDARD
payon de Loutre (Final segment) – from the mouth of		a mart als	7504
Bear Creek to the Arkansas/Louisiana State Line	250*	171*	750*
Ouachita River (Camden to Carpenter Dam)	50	40	150
Town Creek below Acme tributary	ER	200	700
Unnamed trib from Acme	ER	330	830
Little Missouri River	10	90	180
Muddy Fork Little Missouri	ER	250	500
Bluff Creek and unnamed trib.	ER	651*	1033*
Billi Cicck and tandamed and			
Garland Creek	250	250	500
South Fork Caddo	ER	60	128
	ER	250	500
Back Valley Creek Wilson Creek from its mouth upstream approx.			
Wilson Creek Holli its model upstround approve	56	250	500
1.7 miles at the UMETCO property line 1.7 miles at the UMETCO property line 1.7 miles at the UMETCO property line			
Ouachita River (Carpenter Dam to Headwaters,	10	10	100
including Lake Ouachita tributaries)			
Red River Basin			0.50
Davidy Dorchest	100	16*	250
Albemarle unnamed trib (AUT) to Horsehead Creek	137*	ER	383*
Horsehead Creek from AUT to mouth	85*	ER	260*
	250	70	500
Cypress Creek	250	10	500
Crooked Creek	26	ER.	157
Dismukes Creek Big Creek from Dismukes to Bayou Dorcheat	20	ER	200
Big Creek from Copey Creek to Red River	113*	283*	420*
Bois d'Arc Creek from Caney Creek to Red River	113*	283*	420*
Caney Creek	250	70	500
Bodcau Creek	120	40	500
Poston Bayou	90	40	500
Kelley Bayou			
Red River from Oklahoma to confluence with Little	250	200	850
River	250	200	500
Red River from Little River to Louisiana	120	100	500
Sulphur River	250	250	500
Days Creek	180	60	480
McKinney Bayou	20	20	100
Little River	20	10	90
Saline River	90	65	700
Mine Creek from Hwy 27 to Millwood Lake	10	15	70
Cossatot River	20	20	100
Upper Rolling Fork	130	70	670
Rolling Fork from unnamed trib A to DeQueen Lake	135	70	700
Unnamed tribs A and A1 at Grannis	20	20	110
Mountain Fork	۷.0	20	

	Concen	Concentration-mg/L			
Stream	CI	<u>SO</u> ₄ [≡]	<u>TDS</u>		
	ere con un actualità, escatar actes primi france i l'alla casa artes es	a and the Gray Cheese after the State Halle		2	
(Taminiana lina to Arkaneas River)	60	150	425		
Mississippi River (Louisiana line to Arkansas River) Mississippi River (Arkansas River to Missouri line)	60	175	450		

ER - ecoregion standard

* - based on critical background flow of 4 cfs

(B) Ecoregion Reference Stream Minerals Values

The following values determined from Arkansas' least-disturbed ecoregion reference streams are considered to be the maximum naturally occurring levels. For waterbodies not listed above, any discharge which results in instream concentrations more than 1/3 higher than these values for Cl and SO₄ or more than 15 mg/l, whichever is greater, is considered to be a significant modification of the water quality. Similarly, such modification exists if the following TDS values are exceeded after being increased by the sum of the increases to Cl and SO₄. Such modifications may be made only in accordance with Reg. 2.306.

CALCULATED ECOREGION REFERENCE STREAM VALUES (mg/l)

Ecoregion	Chlorides	Sulfates	TDS
Ozark Highlands	17.3	22.7	250
Boston Mountains	17.3	15	95.3
Arkansas River Valley	15	17.3	112.3
Ouachita Mountains	15	20	142
Gulf Coastal Plains	18.7	41.3	138
Delta	48	37.3	411.3

(C) Domestic Water Supply Criteria

In no case shall discharges cause concentrations in any waterbody to exceed 250, 250 and 500 mg/l of chlorides, sulfates and total dissolved solids, respectively, or cause concentrations to exceed the applicable limits in the streams to which they are a tributary, except in accordance with Reg. 2.306.

Ammonia Reg. 2.512

Total ammonia nitrogen (N) shall not exceed those values and frequency of occurrence established in the following tables:

^{** -} These limits shall apply to all tributaries of Bayou Meto and Bayou Two Prairie listed in Appendix A Any modification of these values must be made in accordance with Reg. 2.306.

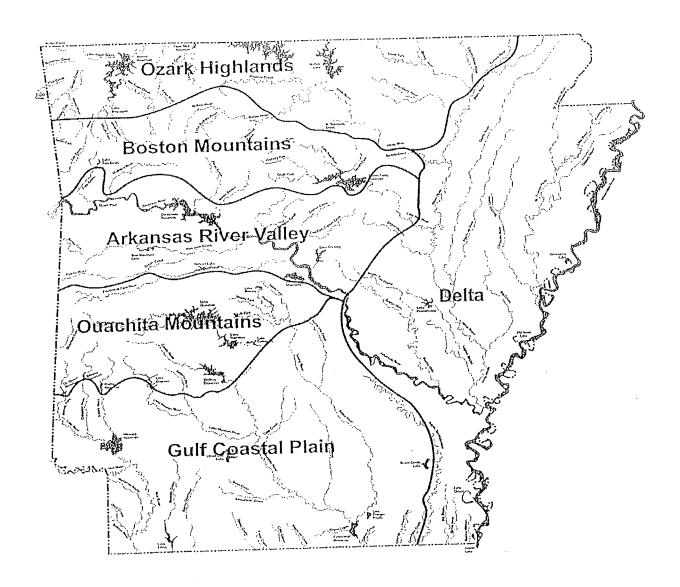


REGULATION NO. 2 APPENDIX A

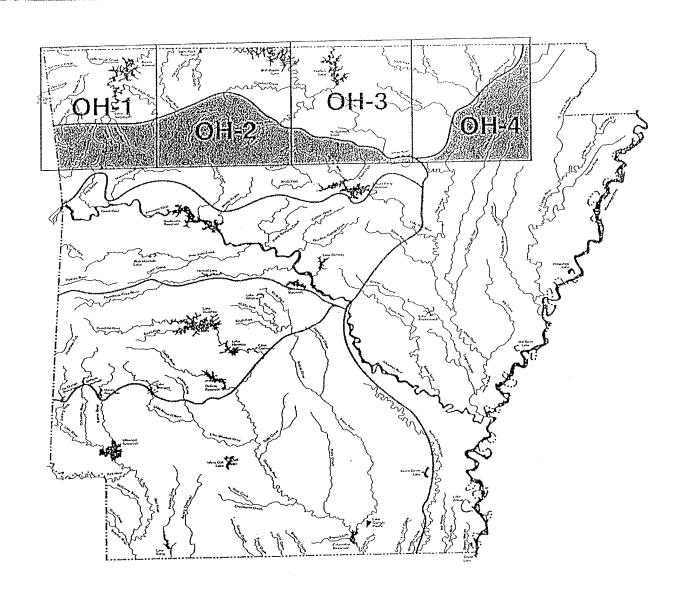
Designated Uses, Specific Standards and Maps of Waters of the State by Ecoregions

(September 24, 2010)

APPENDIX A: MAP OF ECOREGIONS OF ARKANSAS



Index to Plates of the Ozark Highlands



DESIGNATED USES: OZARK HIGHLANDS ECOREGION

(Plates OH-1, OH-2, OH-3, OH-4)

Extraordinary Resource Waters

Current River (OH-4)

Eleven Point River (OH-4)

Strawberry River (OH-3, OH-4)

Spring River, including its tributaries: Field Creek, Big Creek, English Creek, Gut Creek and Myatt Creek (OH-4)

South Fork Spring River (OH-3, OH-4)

North Sylamore Creek (OH-3)

Buffalo River (OH-2, OH-3)

Kings River (OH-2)

Bull Shoals Reservoir (OH-2, OH-3)

Natural and Scenic Waterways

Strawberry River from headwaters to Sharp-Izard County Line (OH-3, OH-4)

Kings River - that segment in Madison County (OH-2)

Buffalo River (OH-2, OH-3)

North Sylamore Creek (OH-3)*

Numerous springs and spring-fed tributaries which support southern cavefish, Ozark cavefish, Arkansas darter, least **Ecologically Sensitive Waterbodies** darter, Oklahoma salamander, cave snails, cave crawfish and unique invertebrates (OH-1, OH-2, OH-3)

Strawberry River - location of Strawberry River darter (OH-3, OH-4)

Spring River - snuffbox and pink mucket mussels; Ozark hellbender (OH-4)

Eleven Point River - location of Ozark hellbender (OH-4)

Current River - location of flat floater and pink mucket mussels (OH-4)

Illinois River - Neosho mucket (OH-1)

Primary Contact Recreation - all streams with watersheds of greater than 10 mi² and all lakes/reservoirs

Secondary Contact Recreation - all waters

Domestic, Industrial and Agricultural Water Supply - all waters

Fisheries 4 8 1

Trout

Bull Shoals Reservoir - lower portion (OH-2)

White River from Bull Shoals Dam to Dam #3 (OH-3)

North Fork White River (OH-3)

Spring River from Mammoth Springs to South Fork Spring River (OH-4)

Upper White River from Beaver Dam to State Line (OH-1)

Lakes and Reservoirs - all

Streams

Seasonal Ozark Highlands fishery - all streams with watersheds of less than 10 mi2 except as otherwise provided in Reg. 2.505

Perennial Ozark Highlands fishery - all streams with watersheds of 10 mi2 and larger and those waters where discharges equal or exceed 1 CFS

As designated in the National Wild and Scenic Rivers System

Use Variations Support by UAA or Other Investigations Railroad

Hollow Creek - no fishable/swimmable uses (OH-1, #1) Columbia

Hollow Creek -- seasonal fishery March June (OH-1, #2) Curia Creek --

below first waterfall, perennial fishery (OH-4, #3) Moccasin Creek -

below Highway 177, perennial fishery (OH-3, #4)

Stennitt Creek - from Brushy Creek to Spring River, no domestic water supply use (OH-4)

Removal of the Domestic Water Supply use for Town Branch beginning at Latitude 36.112330°, Longitude- 93.732833° and extending downstream to its confluence with Holman Creek at Latitude 36.0118158°, Longitude- 93.736039°; and for Holman Creek beginning at its confluence with Town Branch at Latitude 36.118158°, longitude -93.736039° and extending downstream to its confluence with War Eagle Creek at Latitude 36.140824°, Longitude -93.729594°.

	Strea	ms	Lakes and Reservoirs
Temperature °C (°F)* Trout waters	29 (84 20 (68	-	32 (89.6)
Turbidity (NTU) (base/all)	10/17		25/45
Minerals .	see Re	eg. 2.511	see Rcg. 2.511
Dissolved Oxygen**	<u> l'ri.</u>	Crit	see Reg. 2.505
<10 mi ² watershed 10 to 100 mi ² >100 mi ² watershed Trout waters	6 6 6	2 · · · · · · · · · · · · · · · · · · ·	

All other standards (same as statewide)

Railroad Hollow Creek: from headwaters to Spavinaw Creek - year-round dissolved oxygen - 2 mg/l (OH-1, #1)

Curia Creek - below first waterfall, critical season D.O. 6 mg/l (OH-4, #3)

Moccasin Creek - below Highway 177, critical season D.O. 5mg/l (OH-3, #4)

SWEPCO Reservoir - maximum temperature 54°C (limitation of 2.8°C above natural temperature does not apply)

Stennitt Creek - from Brushy Creek to Spring River, TDS = 456 mg/l (OH-4, #6)

Town Branch From Point of Discharge of City of Huntsville WWTP

downstream to the confluence with Holman Creek chloride =223 mg/L, sulfate = 61 mg/L, TDS =779 mg/L (OH-1)

Holman Creek from the confluence with Town Branch

Downstream to the confluence with War Eagle Creek chloride =180 mg/L, sulfate = 48 mg/L, TDS =621 mg/L (OH-1)

War Eagle Creek from the confluence with Holman Creek to

Clifty Creek chloride =39 mg/L, TDS =248 mg/L (OH-1)

Increase over natural temperatures may not be more than 2.8°C (5°F).

At water temperatures ≤10 °C or during March, April and May when sucam flows are 15 CFS and greater, the primary season D.O. standard will be 6.5 mg/l. When water temperatures exceed 22°C, the critical season D.O. standard may be depressed by I mg/l for no more than 8 hours during a 24-hour period.

Plate OH-1 (Ozark Highlands)

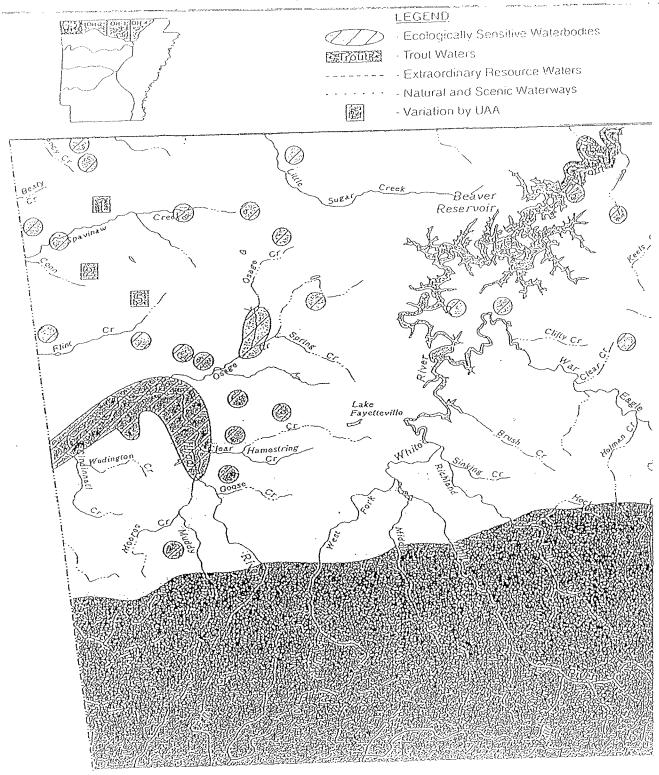


Plate OH-2 (Ozark Highlands)



LEGEND

- Ecologically Sensitive Waterbodies

Mitoniffi

- Trout Waters

- Extraordinary Resource Waters

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- Natural and Scenic Waterways



- Variation by UAA

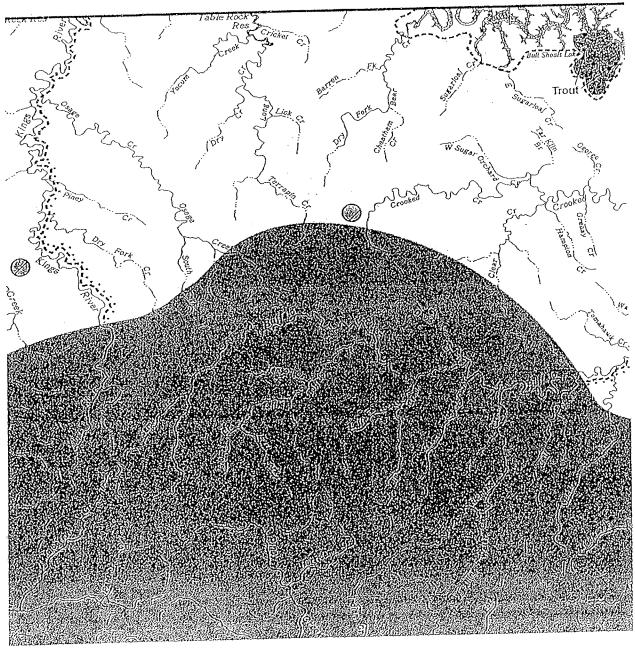


Plate OH-3 (Ozark Highlands)

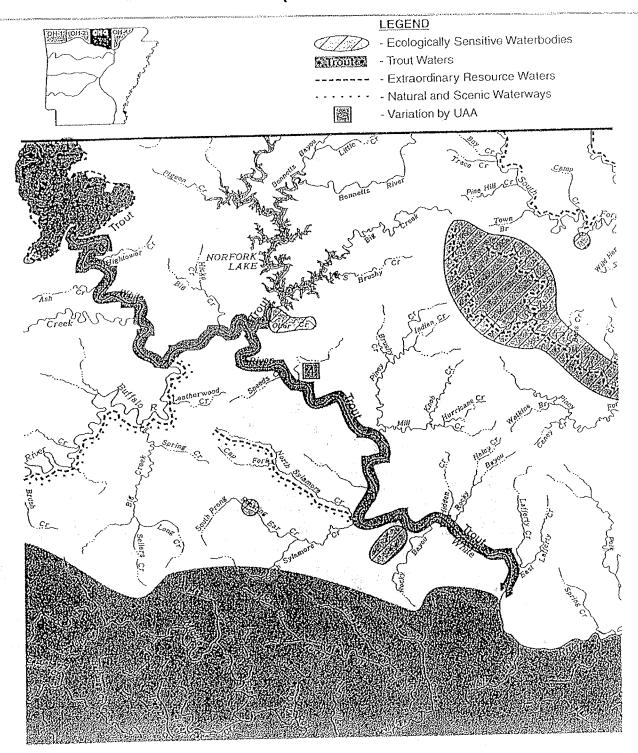


Plate OH-4 (Ozark Highlands)

