

**EXHIBIT C:**  
**Final Revised Regulation**

# 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 25, 2017

<u>Stream</u>	<u>Concentration-mg/L</u>		
	<u>Chlorides</u> (Cl <sup>-</sup> )	<u>Sulfates</u> (SO <sub>4</sub> <sup>-2</sup> )	<u>TDS</u>
Unnamed trib)			
Unnamed trib to Big Creek	71	60	453
Lost Creek Ditch	20	30	270
Little Red River (including Greers Ferry Reservoir)	20	30	100
Black River	20	30	270
Strawberry River	20	30	270
Spring River	20	30	290
Eleven Point River	20	30	270
Stennitt Creek from Brushy Creek to Spring River	ER	ER	456*
South Fork Spring River	20	30	270
Myatt Creek	20	30	270
Current River	20	30	270
White River (Dam #3 to Missouri state line, including Bull Shoals Reservoir)	20	20	180
Buffalo River	20	20	200
Crooked Creek (Harrison WWTP outfall to Monitoring Station WHI0193)	22.6†	24.4†	269†
Crooked Creek (Monitoring Station WHI0193 to the mouth)	20	20	238†
White River (Missouri state line, including Beaver Reservoir)	20	20	160
<u>War Eagle Creek from the confluence with Holman Creek Downstream to Clifty Creek</u>	<u>39†</u>	<u>ER</u>	<u>248†</u>
<u>Holman Creek from the confluence with Town Branch downstream to the confluence with War Eagle Creek</u>	<u>180†</u>	<u>48†</u>	<u>621†</u>
<u>Town Branch form Point of Discharge of the City of Huntsville WWTP downstream to the confluence with Holman Creek</u>	<u>223†</u>	<u>61†</u>	<u>779†</u>
White River from Noland WWTP to 0.4 miles downstream (WR-02)	44†	79†	362†
White River from WR-02 to WHI0052	30†	40†	237†
Kings River	20	20	150
West Fork White River	20	20	150
St. Francis River Basin			
St. Francis River (Mouth to 36° N. Lat.)	10	30	330
L'Anguille River	20	30	235
Tyronza River (headwaters to Ditch No. 6 confluence)	20	30	350
Ditch No. 27	ER	480	1200
Ditch No. 6 (mouth to Ditch No. 27 confluence)	ER	210	630
Tyronza River (mouth to Ditch No. 6 confluence)	20	60	350
Little River	20	30	365

Seasonal Ozark Highlands aquatic life use - all streams with watersheds of less than 10 mi<sup>2</sup> except as otherwise provided in Reg. 2.505

Perennial Ozark Highlands aquatic life use - all streams with watersheds of 10 mi<sup>2</sup> and larger and those waters where discharges equal or exceed 1-cfs

\*As designated in the National Wild and Scenic Rivers System

\*\*Except for those waters with designated use variations supported by Use Attainability Analysis or other investigations.

**Site Specific Designated Use Variations Supported by Use Attainability Analysis or Other Investigations**

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

Columbia Hollow Creek - seasonal aquatic life use March-June (OH-1, #2)

Curia Creek - below first waterfall, perennial aquatic life use (OH-4, #3)

Moccasin Creek – below Arkansas Highway 177, perennial aquatic life use (OH-3, #4)

Stennitt Creek- from Brushy Creek to Spring River, no domestic water supply use (OH-4, #6)

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°, no domestic water supply use (OH-1, #6) †

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°, no domestic water supply use (OH-1, #7) †

**SPECIFIC STANDARDS: OZARK HIGHLANDS ECOREGION  
(Plates OH-1, OH-2, OH-3, OH-4)**

	<u>Streams</u>	<u>Lakes and Reservoirs</u>
Temperature °C (°F)*	29 (84.2)	32 (89.6)
Trout waters	20 (68)	
Turbidity (NTU) (base/all)	10/17	25/45
Minerals	see Reg. 2.511	see Reg. 2.511
Dissolved Oxygen**	<u>Pri.</u> <u>Crit</u>	see Reg. 2.505
<10 mi <sup>2</sup> watershed	6        2	
10 to 100 mi <sup>2</sup>	6        5	
>100 mi <sup>2</sup> watershed	6        6	
Trout waters	6        6	

All other standards (same as statewide)

**Site Specific Standards Variations Supported by Use Attainability Analysis**

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 dissolved oxygen 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)  
(OH-1, #5)

Stennitt Creek - from Brushy Creek to Spring River, total dissolved solids = 456 mg/L (OH-4, #6)

Crooked Creek – from Harrison WWTP outfall to ADEQ Monitoring Station WHI0193; chloride 22.6 mg/L, sulfate 24.4 mg/L; TDS 269 mg/L (OH-2, #7) †

Crooked Creek – from ADEQ Monitoring Station WHI0193 to mouth: TDS 238 mg/L (OH-3, #8) †

White River – from Noland WWTP to 0.4 miles downstream (WR-02), chloride = 44 mg/L, sulfate = 79 mg/L, TDS = 362 mg/L (OH-1, #7) †

White River – from WR-02 to WHI0052, chloride = 30 mg/L, sulfate = 40 mg/L, TDS = 237 mg/L (OH-1, #8) †

War Eagle Creek - from the confluence with Holman Creek to Clifty Creek: chloride = 39 mg/L. TDS = 248 mg/L. (OH-1, #8) †

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 #7) †

Town Branch - from Point of Discharge of the 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, #6) †

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† Not applicable for clean water act purposes until approved by EPA.

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

\*\*At water temperatures  $\leq 10^{\circ}\text{C}$  or during March, April and May when stream flows are 15 cfs and greater, the primary season dissolved oxygen standard will be 6.5 mg/L. When water temperatures exceed  $22^{\circ}\text{C}$ , the critical season dissolved oxygen standard may be depressed by 1 mg/L for no more than 8 hours during a 24-hour period.

# Plate OH-1 (Ozark Highlands)



LEGEND	
—	Extraordinary Resource Waters
•	Natural and Scenic Waterways
—	Variation by UAA
—	Ecologically Sensitive Waterbodies
■	ESW Caves, Springs, and Seeps
—	Trout Waters

