

**ARKANSAS POLLUTION CONTROL
AND ECOLOGY COMMISSION**



REGULATION NO. 2

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

INITIAL DRAFT

Submitted to the Arkansas Pollution Control and Ecology Commission on June 25, 2010

Arkansas Pollution Control and Ecology Commission
Regulation No. 2, As Amended

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

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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 (SO₄²⁻) and total dissolved solids (TDS).

<u>Stream</u>	<u>Concentration-mg/L</u>		
	<u>Cl⁻</u>	<u>SO₄²⁻</u>	<u>TDS</u>
Ouachita River (Louisiana line to Camden)	160	40	350
Saline River	20	40	120
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
Haynes Creek from mouth of Flat Creek to Smackover creek	360*	55*	855*
Flat Creek from mouth of UTA to Haynes Creek	165*	67*	560*
Unnamed trib A to Flat Creek from mouth of EDCC	16*	80*	315*
001 ditch to confluence with Flat Creek			
Confluence with unnamed trib A to Flat Creek	23*	125*	475*
Bayou de L'Outre Creek above Loutre Creek	180	ER	970
Unnamed trib UT004 from GLCC	014*	ER	311*
Unnamed trib UT002 from GLCC	278*	90*	500*
Loutre Creek- from Hwy 15 South to the confluence of Bayou de Loutre	256*	997*	1756*
Bayou de Loutre -- from Loutre Creek to the discharge for the City of El Dorado - South facility	264*	635*	1236*
Bayou de Loutre -- from the discharge for the City of El Dorado-South downstream to the mouth of Gum Creek	250*	431*	966*
Bayou de Loutre -- from the mouth of Gum Creek downstream to the mouth of Boggy Creek	250*	345*	780*
Boggy Creek - from the discharge for Clean Harbors El	631*	63*	1360*

<u>Stream</u>	<u>Concentration-mg/L</u>		
	<u>Cl⁻</u>	<u>SO₄⁼</u>	<u>TDS</u>
Dorado LLC to the confluence of Bayou de Loutre			
Bayou de Loutre- from the mouth of Boggy Creek	250*	296*	750*
downstream to the mouth of Hibank Creek			
Bayou de Loutre -- from the mouth of Hibank Creek	250*	263*	750*
downstream to the mouth of Mill Creek			
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 Bear Creek			
Bayou de Loutre -- from the mouth of Bear Creek	250*	198*	750*
downstream to the final segment of Bayou de Loutre			
Bayou de Loutre (Final segment) -- from the mouth of	250*	171*	750*
Bear Creek to the Arkansas/Louisiana State Line			
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*
Garland Creek	250	250	500
South Fork Caddo	ER	60	128
Back Valley Creek	ER	250	500
<u>Wilson Creek from its mouth upstream approximately</u>	<u>56</u>	<u>260</u>	<u>543</u>
<u>1.7 miles at the UMETCO property line</u>			
Ouachita River (Carpenter Dam to Headwaters,			
including Lake Ouachita tributaries)	10	10	100

Fisheries

Streams

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

Perennial Ouachita Mountain Ecoregion fishery - all streams with watershed of 10 mi² or larger and those waters where discharges equal or exceed 1 CFS

Use Variations Supported by UAA

Rolling Fork from unnamed tributary A at Grannis to DeQueen Reservoir - no domestic water supply use (OM-1, #2)

Unnamed tributaries A and A1 at Grannis - no domestic water supply use (OM-1, #3)

Wilson Creek from a point approximately 0.85 mile upstream of Outfall 001 to Outfall 001 - no domestic water supply use (OM-2, #6)

Wilson Creek downstream of Outfall 001 to its mouth - no domestic water supply use (OM-2, #7)

SPECIFIC STANDARDS: OUACHITA MOUNTAIN ECOREGION

(Plates OM-1, OM-2)

	<u>Streams</u>	<u>Lakes and Reservoirs</u>
Temperature °C (°F)*	30 (86)	32 (89.6)
Trout waters	20 (68)	
Turbidity (NTU) (base/all)	10/18	25/45
Minerals	see Reg. 2.511	see Reg. 2.511
Dissolved Oxygen (mg/l) **	<u>Pri.</u> <u>Crit</u>	see Reg. 2.505
<10 mi ² watershed	6 2	
10 mi ² and greater	6 6	
Trout waters	6 6	
All other standards	(same as statewide)	

Variations Supported by UAA

Prairie Creek: from headwaters to confluence with Briar Creek, critical season dissolved oxygen - 4 mg/l (OM-1, #1)

Rolling Fork from unnamed tributary A to DeQueen Reservoir - chlorides 130 mg/l; sulfates - 70 mg/l; TDS - 670 mg/l (OM-1, #2)

Unnamed tributaries A and A1 to Grannis - chlorides - 135 mg/l; sulfates - 70 mg/l; TDS - 700 mg/l (OM-1, #3)

South Fork Caddo River - sulfates 60 mg/l (OM-1, #4)

Back Valley Creek - sulfates 250 mg/l; total dissolved solids 500 mg/l (OM-1, #5)

Wilson Creek from a point approximately 0.85 mile upstream of Outfall 001 to UMETCO Outfall 001 - chlorides 56 mg/L; sulfates 260 mg/L; TDS - 543 mg/L (OM-2, #6)

Wilson Creek downstream of UMETCO Outfall 001 to its mouth - chlorides 56 mg/L; sulfates 260 mg/L; TDS - 543 mg/L (OM-2, #7)

* 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 stream 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 1 mg/l for no more than 8 hours during a 24-hour period.

Index to Plates of the Ouachita Mountains

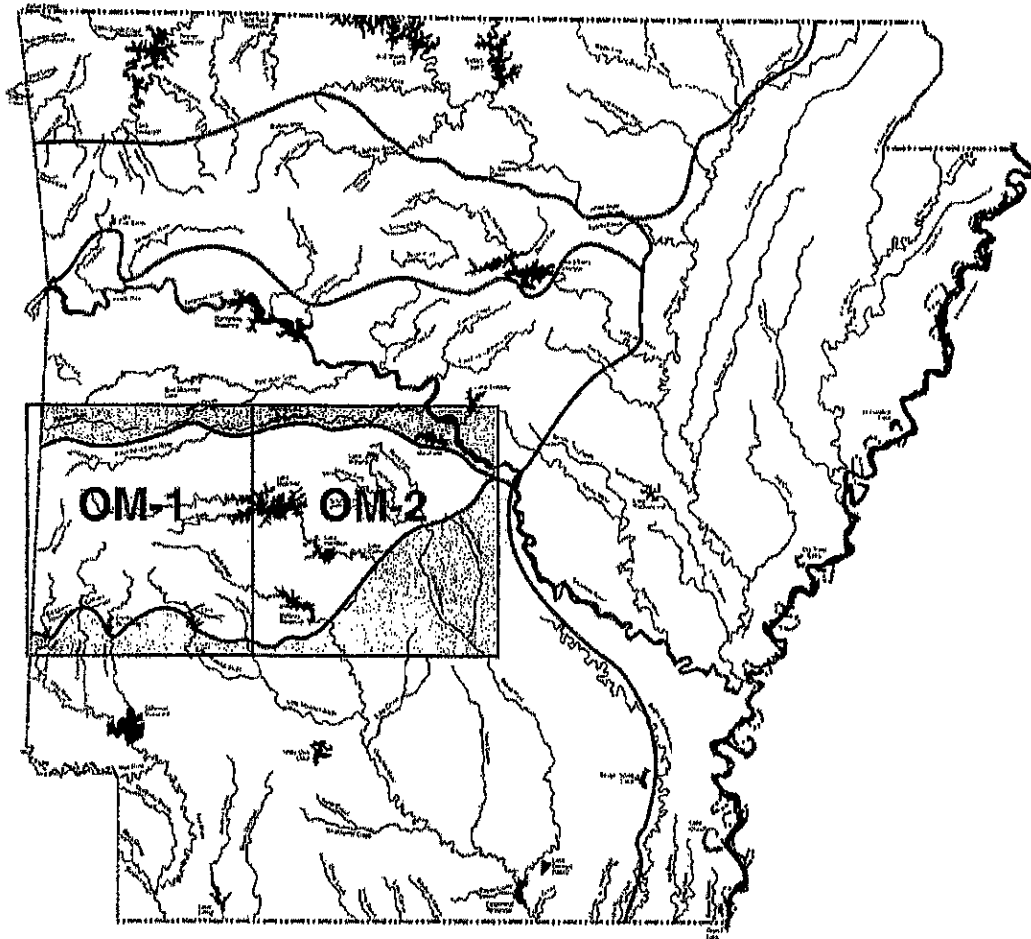
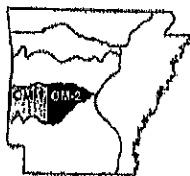


Plate OM-2 (Ouachita Mountains)



- LEGEND**
-  • Ecologically Sensitive Waterbodies
 -  • Trout Waters
 -  • Extraordinary Resource Waters
 -  • Natural and Scenic Waterways
 -  • Variation by UAA

