

# **Interim Strategy for Minerals**

## **Quarterly Report**

**Arkansas Department  
of Environmental  
Quality**

**December 2015**

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### Introduction

Arkansas has adopted water quality criteria and eco-region values for minerals in Arkansas Pollution Control and Ecology Commission (APC&EC) Regulation 2, specifically, at Reg. 2.511. Minerals include chlorides (Cl), sulfates (SO<sub>4</sub>), and total dissolved solids ("TDS").

Reg. 2.511(A) refers to site-specific criteria. Reg. 2.511(B) refers to Eco-region values, which are based on Arkansas's least disturbed ecoregion reference streams and are considered to be the maximum naturally occurring levels. The eco-region values help to identify waterbodies which should be considered as candidates for site specific criteria development. Reg. 2.511(C) set out Arkansas' minerals criteria for domestic water supplies. These criteria are the same as the secondary drinking water standards (250 mg/L for chlorides, 250 mg/L for sulfates and 500 mg/L for TDS) adopted by EPA under the federal Safe Drinking Water Act.

### Interim Strategy Permitting Update

Arkansas has issued thirty-two (32) permits with minerals limits and thirty-three (33) permits with monitoring and reporting requirements. Twenty-eight (28) of those permits in house for renewal or modification are currently on hold. The 28 permits currently on hold are listed in the chart below. Information in the chart is as follows:

<u>Column</u>	<u>Description</u>
1	Permit number
2	Facility Name
3	Expiration Date of the permit
4	Existing Permits with minerals requirements (i.e. limit or M&R)
5	Re-issuance (Future) Permits requiring new effluent limits for minerals
6	Basis for including minerals limits in the permit

M&R – Monitoring and Reporting

TDS - Total Dissolved Solids

SO<sub>4</sub>-Sulfates

Cl- Chlorides

CPP-Continuing Planning Process

UAA-Use Attainability Analysis

Permit Number	Facility Name	Expiration Date	Existing Permit Requirements?	New Limits Required?	Basis for Limit
AR0000582	Alcoa Inc. - Arkansas Remediation	9/30/2011	M&R for All	Yes	TMDL
AR0000647	Lion Oil Company - El Dorado Refinery	2/28/2009	Limits-TDS & Sulfates	Yes	Reg. 2.511(B)
AR0000680	Great Lakes Chemical Corporation - South Plant	2/28/2013	No	Yes	TMDL
AR0000752	El Dorado Chemical Company	6/30/2007	Limits-All	Yes	TMDL
AR0001171	Great Lakes Chemical Corporation - Central Plant	12/31/2008	Limits-All	Yes	TMDL
AR0002968	Domtar A.W. LLC - Ashdown Mill	4/30/2012	M&R for TDS & Sulfates	Yes	TMDL
AR0021695	City of Rison	8/31/2014	No	Yes	TMDL
AR0022004	City of Huntsville	5/31/2014	M&R for TDS	Yes	UAA
AR0022179	City of Junction City	10/31/2014	No	Yes	TMDL
AR0022250	City of Dermott - South Pond	9/30/2011	M&R for TDS & Chlorides	Yes	TMDL
AR0033707	City of Tillar	8/31/2014	No	Yes	TMDL
AR0034371	City of Portland	9/30/2013	No	Yes	TMDL
AR0036498	Benton Utilities - Wastewater Treatment Plant	9/30/2013	No	Yes	TMDL
AR0042951	City of Ashdown	8/31/2014	No	Yes	TMDL
AR0048356	Tyson Foods, Inc. - River Valley Animal Foods	12/31/2012	M&R for TDS	Yes	TMDL
AR0043672	City of Kingsland	2/28/2015	No	Yes	TMDL
AR0044423	Jessieville Public School	11/30/2014	No	Yes	TMDL
AR0044547	City of Haskell-South WWTP	8/31/2015	No	Yes	TMDL
AR0051713	City of Haskell - North WWTP	7/31/2015	No	Yes	TMDL
AR0048691	City of Texarkana-North	10/31/2014	M&R for TDS & Sulfates	Yes	TMDL
AR0050202	Destined To Win/Family Outreach Ministry, Inc. d/b/a Second Chance Ranch	10/31/2014	No	Yes	TMDL
AR0050857	City of Garland WWTP	10/31/2013	No	Yes	TMDL
AR0050989	City of Wilmot	10/31/2013	No	Yes	TMDL
AR0038482	Tyson Poultry, Inc. - Waldron	9/30/2015	Limits for All	Yes	2.511(A)
AR0034291	Hot Springs Village POA - Mill Creek	10/31/2015	M&R for All	Yes	TMDL
AR0039284	Hot Springs Village POA - Cedar Creek	10/31/2015	M&R for All	Yes	TMDL
AR0047813	Oak Manor Water	10/31/2015	No	Yes	TMDL
AR0050997	City of Parkdale - Parkdale Wastewater Treatment Plant	11/30/2013	No	Yes	TMDL

## **APC&EC Regulation No. 2- Water Quality Standards**

**Revisions to Mineral Water Quality Standards:** The 2013 Triennial Review of the surface water quality standards found in Regulation No. 2 included revisions to Reg. 2.511 “Mineral Quality.” These proposed changes were adopted by the Arkansas Pollution Control and Ecology Commission on February 28, 2014. The State approved regulation was received by USEPA for review and approval on March 16, 2014. To date, EPA has not issued a final decision on the rulemaking.

**Revisions to Mineral Assessment Methodology:** During development of the Assessment Methodology for the 2014 Listing of Impaired Waterbodies, the exceedance rate for site specific minerals criteria was revised from 10% to 25%.

**Progress of the EPA funded Study:** Evaluation of the approaches for developing minerals criteria is ongoing.