



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

## PUBLIC NOTICE

June 11, 2009

### REQUEST FOR PUBLIC COMMENT ON PROPOSED MODIFICATION TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR THE CITY OF SULPHUR WASTEWATER TREATMENT FACILITY

Public Comment Period Begins: June 11, 2009

Public Comment Period Ends: **July 28, 2009**

**Permitee:** Sulphur Department of Public Works, 600 W. Broadway, Sulphur, OK 73086-4608

**Receiving waters and point of discharge location:** Dry Sandy Creek to the Washita River [NW/SW/SW, Section 1, Township 1 South, Range 2 East, in Murray County (Latitude: 34° 29.7' 40.5" N; Longitude: 97° 3.2' 10.5" W) Indian Meridian]

The City of Sulphur wastewater treatment facility currently consists of a Sequential Batch Reactor treatment plant with a design flow of 0.83 million gallons per day (MGD). Due to expected population growth in Sulphur, the City has requested an increase in their design flow to 1.5 MGD and to extend the discharge pipe. The wastewater treatment facility discharges into Dry Sandy Creek which flows to the Washita River in Murray County in the Middle Washita watershed.

An engineering consultant for the City of Sulphur conducted a waste load allocation (WLA) study that states the maximum amount of pollutants in treated wastewater which can safely be discharged into a waterbody without adversely affecting its quality.

The Oklahoma Department of Environmental Quality, along with the U.S. Environmental Protection Agency (EPA), has evaluated the consultant's study of Dry Sandy Creek to develop these recommended maximum amounts that may be discharged into it with a design flow of 1.5 MGD (million gallons per day):

**June – October:** 11 mg/L CBOD<sub>5</sub> (5-day carbonaceous biochemical oxygen demand)  
15 mg/L TSS (total suspended solids)  
2 mg/L NH<sub>3</sub>-N (ammonia nitrogen)  
5 mg/L DO (dissolved oxygen)

**November – March:** 20 mg/L BOD<sub>5</sub>, 30 mg/L TSS, 6 mg/L DO

**April – May:** 14 mg/L CBOD<sub>5</sub>, 20 mg/L TSS, 2 mg/l NH<sub>3</sub>-N, 6 mg/L DO

The comment period will be open for 45 days. **If you want to be dropped from this mailing list, have address/name revisions**, or have any concerns regarding these proposed limits, please submit your comments in writing by **July 28, 2009** to:

Dr. Karen Miles  
Water Quality Division  
Oklahoma Department of Environmental Quality  
P.O. Box 1677  
Oklahoma City, OK 73101-1677  
(405) 702-8192 – **can call to remove name/modify address from mailing list**  
E-mail: Karen.Miles@deq.ok.gov

You may also request a public meeting in writing. If there is a significant degree of public interest, the Department of Environmental Quality will schedule a public meeting. After evaluating comments received and making any necessary changes, the modification will be submitted to EPA for final approval.

FACILITY: **SULPHUR** CITY/TOWN: **SULPHUR**  
NPDES # **OK0020141** FACILITY ID # **S-10837** PRIORITY RANKING LIST: **YES**  
LEGAL: **R02E T01S S01 NE/SW/SW** COUNTY: **MURRAY**  
**R03E T01S S09 NE/SE/NW**  
POD: **R02E T01S S01 NE NW/SW/SW** SEGMENT: **310800**  
POD LATITUDE: **34° 29.7' 40.5" NORTH** POD LONGITUDE: **97° 3.2' 10.5" WEST**

CURRENT TREATMENT PROCESS: **SEQUENTIAL BATCH REACTOR**  
PRESENT AVG. DAILY FLOW (MGD): **0.65** PRESENT POPULATION: **5820 5240**  
DESIGN AVG. DAILY FLOW (MGD): **0.83** YEAR **2015 2025**  
**1.5** POPULATION: **7300 5960**

RECEIVING STREAM: **DRY SANDY CREEK TO WASHITA RIVER** STREAM CLASS: **Intermittent**  
7 DAY 2 YEAR LOW FLOW (MGD): **0** WATER QUALITY RANKING: **2007**

DMA: **CITY OF SULPHUR / SULPHUR MUNICIPAL** DMA STATUS: **APPROVED**  
**AUTHORITY**

WASTELOAD ALLOCATION: ~~**APR-MAY SECONDARY W/ 5 DO; JUN-OCT 20 BOD5, 30 TSS, 9 NH3-N, 5 DO; NOV-MAR SECONDARY**~~  
**June-Oct: 11 mg/l CBOD<sub>5</sub>, 2 mg/l NH<sub>3</sub>-N, 15 TSS mg/l, & 5 mg/l DO**  
**Nov-Mar: 20 mg/l BOD<sub>5</sub>, 30 TSS mg/l, & 6 mg/l DO**  
**Apr-May: 14 mg/l CBOD<sub>5</sub>, 2mg/l NH<sub>3</sub>-N, 20 TSS mg/l, & 6 mg/l DO**

STRATEGY:  
RECOMMENDED TREATMENT ALTERNATIVES  
A) **LAND APPLICATION**  
B) **UPGRADE**  
C) **TOTAL RETENTION**

EPA APPROVAL DATE: ~~**7/11/1988**~~  
**Pending**  
RECORD LAST UPDATE: ~~**10/30/1989**~~  
**06/09/2009**