



Scott A. Thompson  
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mary Fallin  
Governor

## PUBLIC NOTICE

May 20, 2015

### REQUEST FOR PUBLIC COMMENT ON PROPOSED MODIFICATIONS TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR GEORGIA PACIFIC – MUSKOGEE MILL WASTEWATER TREATMENT FACILITY

Public Comment Period Begins: May 20, 2015

**Public Comment Period Ends: July 3, 2015**

**Permitee:** Georgia Pacific – Muskogee Mill, 4901 Chandler Road, Muskogee, OK 74403  
[Facility Legal Description: Section 33 and 34, Township 15 North, Range 19 East, IM]

**Receiving waters and location:** Arkansas River (Latitude: North 35° 44' 23"; Longitude:  
West 95° 17' 12")

Georgia Pacific – Muskogee Mill (formerly Georgia Pacific Consumer Products) currently operates a wastewater treatment plant (WWTP) consisting of primary clarifiers, an activated sludge process, and tertiary clarifiers, where wastewater is discharged to the Arkansas River (OK Waterbody ID 120400010260\_00) in the Dirty-Greenleaf Sub-basin in Muskogee County.

The Wasteload Allocation (WLA) for Georgia Pacific – Muskogee Mill was developed in 2003 and EPA reviewed and technically approved it. However, the technically approved WLA was not incorporated into the Oklahoma Water Quality Management Plan (208 Plan). Georgia Pacific – Muskogee Mill is still operating under a discharge permit issued by the Oklahoma Department of Environmental Quality in 1997 to the Fort Howard Corporation, the previous owners of the mill. The WWTP's Maximum 30 Day Flow ( $Q_{e30}$ ) in the 1997 permit is 19.34 million gallons per day (MGD).

The approved WLA was developed with a MultiSMP model, which is not compatible with current computer operating systems. Therefore, QUAL2K was used to duplicate the results of the MultiSMP model.

The receiving stream, Arkansas River (OK120400010260\_00), is currently on Oklahoma's 2012 303(d) List of Impaired Waters as being impaired for Total dissolved solids (TDS). However, it meets the Water Quality Standards (WQSs) and is delisted in 2014 Integrated Report (IR). The downstream segment of Arkansas River is Webbers Falls Lake (OK120400010070\_00), which is listed for enterococci and turbidity impairments. This WLA only addresses the impact of DO-demanding substances (CBOD and Ammonia). Therefore, the TDS, bacteria and turbidity impairments will not have any impact on this WLA.

If the technology-based limits are sufficient enough to meet the Oklahoma DO standard in the receiving stream for each season, the technology-based limits are accepted for the permit limits. The permit flow for technology based limits is Long Term Average (LTA) flow of the facility. LTA is the arithmetic average flow over the last two year period record for an industrial facility. If the QUAL2K model shows that the technology-based limits are not stringent enough to protect the WQSSs, water quality-based concentration limits will be developed. The permit flow for water quality-based limits is the highest 30-day average effluent flow over the last 2 years or  $Q_{e(30)}$ .

**Current WLA:**  $Q_{e30}$ : 19.34 MGD  
 Daily Average: 91 mg/L BOD<sub>5</sub>  
 Daily Maximum: 175 mg/L BOD<sub>5</sub>

**Recommended WLA:**

Summer (June – October):  $Q_{e(30)}$ : 16.28 MGD  
 Daily Average: 67 mg/L CBOD<sub>5</sub>, 4.0 mg/L NH<sub>3</sub>-N  
 Winter and Spring (November – May): LTA: 13.52 MGD  
 Daily Average: 135 mg/L BOD<sub>5</sub>

The comment period will be open for 45 days. If you have any concerns regarding these proposed limits, please submit your comments in writing by the end of the workday on **July 3, 2015** to:

Soojung Lim  
 Water Quality Division  
 Oklahoma Department of Environmental Quality  
 P.O. Box 1677  
 Oklahoma City, OK 73101-1677  
 (405) 702-8192  
 E-mail: soojung.lim@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.

208 INDUSTRIAL FACT SHEET			
FACILITY:	GEORGIA PACIFIC - MUSKOGEE MILL	CITY/TOWN:	MUSKOGEE
FACILITY LEGAL LOCATION:	S 33/34 T15N R19E I.M.	COUNTY:	MUSKOGEE
NPDES #	OK0034321	SIC CODE:	2621
STATE FACILITY NUMBER:	I-51001210		
OPERATIONS DESCRIPTION:	Paper Mills		
<b>OUTFALL NUMBER:</b>	<b>001</b>		
WASTE WATER DESCRIPTION:	Treated effluent from process water, cooling tower blow-down, and stormwater runoff from the process areas. Wastewater is initially pumped into the primary clarifier, then to the activated sludge impoundment, and finally to the tertiary clarification impoundment, before discharging through Outfall 001.		
TREATMENT PROCESS:	Activated sludge		
EVALUATION TYPE:	Wasteload allocation study		

RECEIVING STREAM:	Arkansas River (OK120400010260_00)	SEGMENT:	120400
STREAM CLASS:	Perennial		
CRITICAL EFFLUENT FLOW (MGD): (Highest 30 day average flow, enter the value or NA)	16.28	POINT OF DISCHARGE:	S33 T15N R19E I.M. NE¼,NE¼,NE¼
LONG TERM AVERAGE (LTA) FLOW (MGD):	13.52	LATITUDE:	35° 44' 23" N
7 DAY 2 YEAR LOW FLOW (MGD):	1,173 (1927 to 1952) averaged Spring: 3,730 Winter: 1,593	LONGITUDE:	95° 17' 12" W

WASTELOAD ALLOCATION: For Dissolved Oxygen demanding substances (Final Discharge only, no internal monitoring points)	<u>SUMMER (JUNE - OCTOBER)</u>
	Flow (Q <sub>e30</sub> ): 16.28 MGD
	CBOD <sub>5</sub> : 67 mg/L (average) NH <sub>3</sub> -N: : 4 mg/L (average)
	<u>WINTER &amp; SPRING (NOVEMBER - MAY)</u>
	Flow (LTA): 13.52 MGD
	BOD <sub>5</sub> : 135 mg/L (average)

**OUTFALL NUMBER: 003**

WASTE WATER DESCRIPTION: Stormwater runoff from the power plant and the paper mill

TREATMENT PROCESS: Sedimentation lagoon

EVALUATION TYPE:

RECEIVING STREAM:	Coody Creek (OK120400010400_00)	SEGMENT:	120400
STREAM CLASS:	Intermittent		
CRITICAL EFFLUENT FLOW(MGD): (Highest 30 day average flow, enter the value or N/A)	5.2	POINT OF DISCHARGE:	S33 T15N R19E I.M. NW¼,SE¼,SE¼
LTA FLOW (MGD):	1.28	LATITUDE:	35° 43' 53" N
7 DAY 2 YEAR LOW FLOW (MGD):		LONGITUDE:	95° 16' 52" W

WASTELOAD ALLOCATION:  
For Dissolved Oxygen Demanding Substances  
(Final Discharge only, no internal monitoring points)

**OUTFALL NUMBER: 004**

WASTE WATER DESCRIPTION: Stormwater runoff from the power plant and the paper mill

TREATMENT PROCESS: Sedimentation lagoon

EVALUATION TYPE:

RECEIVING STREAM:	Arkansas River (OK120400010260_00)	SEGMENT:	120400
STREAM CLASS:	Perennial		
CRITICAL EFFLUENT FLOW(MGD): (Highest 30 day average flow, enter the value or N/A)	8.2	POINT OF DISCHARGE:	S34 T15N R19E I.M. NW¼,NW¼,NW¼
LTA FLOW (MGD):	1.3	LATITUDE:	35° 44' 15" N
7 DAY 2 YEAR LOW FLOW (MGD):		LONGITUDE:	95° 16' 57" W

WASTELOAD ALLOCATION:  
For Dissolved Oxygen Demanding Substances  
(Final Discharge only, no internal monitoring points)

EPA APPROVAL DATE: Pending  
RECORD LAST UPDATED: 5/8/2015



O K L A H O M A  
DEPARTMENT OF ENVIRONMENTAL QUALITY

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