

Georgia-Pacific Corporation Crossett Paper Operations Site Visit

On March 16, 2011, ADEQ personnel conducted a site visit to the wastewater treatment plant (WWTP) associated with Georgia-Pacific Corporation's Crossett Paper Operations (GP). Mo Shafii, John Bailey, and Cecilea Pond-Mayo were present for the Department. Rachel Johnson, Jim Cutbirth, and Mayes Stark were present for the facility.

The WWTP consists of a clarifier, two sludge basins operating in parallel, a surge basin, and an aeration basin. Nutrient addition takes place in the aeration basin as needed to aid in biological activity. A foam curtain and defoamer are used for foam control after wastewater leaves the aeration basin. The City of Crossett treats municipal wastewater in a two pond system prior to discharge into GP's WWTP after the surge basin and prior to the aeration chamber.

The permittee monitors Outfall 001 at a location in the aeration basin effluent channel. The permittee also monitors at a location designated as SMS002. The receiving waters are as follows:

Outfall 001: the upper reaches of Mossy Lake, then into Coffee Creek, then into Ouachita River in Segment 2D of the Ouachita River Basin.

SMS 002: At the transition from Mossy Lake to Coffee Creek then into Ouachita River in Segment 2D of the Ouachita River Basin.



Wastewater Treatment Plant Entrance



City of Crossett Wastewater Treatment Pond Outfall Structure from Across the Pond



Close Up View of City of Crossett Wastewater Treatment Pond Outfall Structure



City of Crossett Manhole and Wastewater Pipe Crossing Coffee Creek



Close Up View of City of Crossett's Wastewater Pipe Crossing Coffee Creek



Discharge from City of Crossett's Pipe Entering Surge Basin Channel



Near City of Crossett Discharge Pipe Looking Toward Surge Basin Discharge



Standing Next to Thurman Trail Bridge Looking at GP Aeration Basin



Looking Downstream on Coffee Creek Near Thurman Road



Looking at Discharge from Aeration Basin



Looking Downstream on Aeration Basin Effluent Channel Toward Bridge



Looking Down at Aeration Basin Effluent Channel from Bridge Over Channel



Non-persistent Foam Formed by Turbulence in Aeration Basin Channel below Bridge



Foam Curtain Control in Aeration Basin Channel Prior to Outfall 001



Looking Downstream of Curtain and Defoamer Pipe at Outfall 001 – No Foam to Flume



Outfall 001 Flume – No Foam Being Discharged



Foam Dissipation Immediately Downstream of Flume Turbulence



About 30 Yards Downstream of Outfall 001



50 Yards from Bridge, Coffee Creek Is Still Separate Channel



GP Effluent Channel Looking Downstream from Bridge Where Man-Made Channel Parallels Road



Looking Down GP Effluent Channel towards Mossy Lake



Looking West into the Upper Part of Mossy Lake



Discharge from Mossy Lake Weir Foam Formed by Turbulence Dissipates in 30 Yards



Coffee Creek at Confluence with the Ouachita River



Looking Upstream on Ouachita River Near Confluence with Coffee Creek



Looking Downstream on Ouachita River Near Confluence with Coffee Creek



Looking Downstream on Ouachita River with Mouth of Coffee Creek on the Left