

Roads and Public Works Committee meeting, November 5, 2009

Issue of interest: Waste Water Treatment Plant or WWTP (formerly referred to as the Almonte Sewage Treatment Plant, or STP)

AFFT Observer's comments:

Reference: *Thompson Rosemont Group's report entitled: "30% Design Report for the Mississippi Mills WWTP"* page 22 of package:

<http://www.mississippimills.ca/Documents/347/Roads%20November%205%2C%202009%20agenda.pdf>

We looked at the overview of the design and there is not much there to be said, however if you look at section 2.1 on page 2 of the report, page 27 of the package you will see that the WWTP will be rated by the authorities for 4700 cubic metres of effluent per day. The current lagoon system is rated at 3030 cubic metres per day. If you then look at section 4.4 on page 9, page 34 of the package you'll see that

If the septage treatment capacity at the proposed WWTP is not utilized, the aeration tanks and biosolids stabilization facilities may provide additional WWTP capacity for future growth.

If no septage is received at the plant, and the BOD concentration (105 mg/L) does not change in the influent to the plant, the aeration tanks will have the capacity to treat up to 8,000 m³/d of wastewater, based on a hydraulic retention time of 15 hours. Therefore, the plant may be re-rated to treat 8,000 m³/d of wastewater without any additional cost, assuming that peak flow attenuation continuous to be used to limit the maximum daily flow through the plant to 14,100 m³/d.

In other words the new WWTP is 50% larger than the current lagoon system, the septage component because of its effluent concentration enlarges the new WWTP by an additional 70% (3300m³/d). It is costing the Town \$600,000 for this increase in size, however it's still costing you and me \$1.8 million. The problem I see is two fold. 1. As above if we don't use the septage component, the Town can apply for an increase rating to 8000 cubic metres per day and 2. A By-law or an OMB decision could stop entirely any septage from being dumped into the WWTP so that the Town of Almonte could then make use of the increase in size and therefore an increase Development and have rural residents pay for it.