

**Hauled Wastewater Study**  
**Recommendation for Receiving and Treating Hauled Wastewater on a City-Wide Basis**

Recommendation/ Alternate Option	Facility Description	Strengths	Weaknesses	Estimated Costs to City		Estimated Increase in Disposal Rate	
				Capital	Annual Operating and Mtce	Rate Increase* Per KL	Total Rate ** Per KL
<b>Recommendation</b>  Upgrade NE and SE disposal locations	<ul style="list-style-type: none"> <li>• construct a new second receiving point for hauled wastewater at NE</li> <li>• build a new access road adjacent to existing road at NE</li> <li>• continue with one receiving point for hauled wastewater at SE</li> <li>• upgrade SE and NE with:               <ul style="list-style-type: none"> <li>♦ automated access and tracking system</li> <li>♦ flow measurement and sampling capabilities</li> <li>♦ new containment tank</li> <li>♦ enhanced security features (video, VOC detection)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• reduced wait times to unload</li> <li>• move towards electronic billing</li> <li>• move towards billing based on actual volume</li> <li>• reduce risks to treatment plant process</li> </ul>	<ul style="list-style-type: none"> <li>• potential overload to treatment process at the SE plant until nutrient removal expansion is completed (2012)</li> <li>• City has to operate and maintain two basic disposal facilities</li> </ul>	\$2.7 M	\$35,000	\$2.22	\$4.73
<b>Alternate Option</b>  Upgrade NE disposal location and shut down SE disposal location	<ul style="list-style-type: none"> <li>• construct two new receiving points for hauled wastewater at NE</li> <li>• new access road to accommodate 3 receiving points</li> <li>• upgrade the receiving points with:               <ul style="list-style-type: none"> <li>♦ automated access and tracking system</li> <li>♦ flow measurement and sampling capabilities</li> <li>♦ new containment tank</li> <li>♦ enhanced security features (video, VOC detection)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• reduced wait times to unload</li> <li>• move towards electronic billing</li> <li>• move towards billing based on actual volume</li> <li>• reduce risks to treatment plant process</li> <li>• reduced operating costs</li> <li>• no risk to treatment processes at the South End plant</li> </ul>	<ul style="list-style-type: none"> <li>• increased time and hauling distance for some haulers</li> </ul>	\$2.35 M	\$31,500	\$2.04	\$4.55

\* Rate increase based on amortized capital plus annual operating and maintenance costs divided by current annual volume of hauled liquid waste.

\*\* Total rate = \$2.51 per KL (base rate effective July 1, 2007) plus rate increase for each option.

Note: All rates are based on current information and subject to change.