

**LOSS RAC Discussion Agenda & Record of Decisions**

<b>Issue Paper for 6/20/2008 Subcommittee Meeting</b>		Number of Members Present: ____	
<b>Engineering / Design Topics</b>		<b>Topic Number: 9</b>	
		50% +1= ____	Two Thirds = ____
Topic Statement	The design engineer should provide a detailed characterization of the wastewater quality for any LOSS. What should that characterization consist of?		
Problem Statement	<ul style="list-style-type: none"> <li>▪ If wastewater quality must be characterized, what level of detail is needed? Which parameters should be evaluated and included?</li> <li>▪ In order to properly design the treatment and dispersal components of a LOSS, the design engineer must accurately characterize both the wastewater quantity and quality.</li> <li>▪ Accurate wastewater quality characterization enables the design engineer to know what wastewater constituents must be removed by the LOSS treatment and dispersal components.</li> </ul>		
Background	<ul style="list-style-type: none"> <li>▪ WAC 246-272A-0230(2)(e)(i) requires the system designer to characterize the wastewater for all OSS. (See reference section.)</li> <li>▪ For wastewater from non-residential sources, WAC 246-272A-0230(2)(e)(ii) requires the designer to assure the wastewater is not industrial wastewater and to identify any chemicals that are not normally in residential wastewater. (See reference section.)</li> <li>▪ The LOSS foundation document suggests that the requirements contained in Chapter 246-272A WAC also apply to LOSS. (See reference section.)</li> </ul>		
Reference / Research	<p>WAC 246-272A-0230(2)(e)(i):</p> <p>(e) <i>The OSS is designed to address sewage quality as follows:</i></p> <p>(i) <i>For all systems, the designer shall consider:</i></p> <p>(A) <i>CBOD<sub>5</sub>, TSS, and O&amp;G;</i></p> <p>(B) <i>Other parameters that can adversely affect treatment anywhere along the treatment sequence. Examples include pH, temperature and dissolved oxygen;</i></p> <p>(C) <i>The sensitivity of the site where the OSS will be installed. Examples include areas where fecal coliform constituents can result in public health concerns, such as shellfish growing areas, designated swimming areas, and other areas identified by the local management plan required in WAC 246-272A-0015.</i></p> <p>(D) <i>Nitrogen contributions. Where nitrogen has been identified as a contaminant of concern by the local management plan required in WAC 246-272A-0015, it shall be addressed through lot size and/or treatment.</i></p> <p>WAC 246-272A-0230(2)(e)(ii):</p> <p>(e) <i>The OSS is designed to address sewage quality as follows:</i></p> <p>(ii) <i>For OSS treating sewage from a nonresidential source, the designer shall provide the following information:</i></p> <p>(A) <i>Information to show the sewage is not industrial wastewater;</i></p> <p>(B) <i>Information regarding the sewage quality and identifying chemicals found in the sewage that are not found in sewage from a residential source;</i></p>		

**LOSS RAC Discussion Agenda & Record of Decisions**

<b>Issue Paper for 6/20/2008 Subcommittee Meeting</b>		<i>Number of Members Present:</i> _____										
<b>Engineering / Design Topics</b>	<b>Topic Number: 9</b>	<i>50% +1=</i> _____	<i>Two Thirds =</i> _____									
	<p>LOSS Foundation Document (page 19):</p> <p>The Design Engineer is to:</p> <ul style="list-style-type: none"> <li>▪ <i>Estimate wastewater quality including:</i> <ul style="list-style-type: none"> <li>○ <i>CBOD<sub>5</sub>, TSS, and O&amp;G</i></li> <li>○ <i>Other parameters that can affect treatment processes</i></li> <li>○ <i>Parameters that may impact site's sensitivity</i></li> <li>○ <i>Nitrogen contributions</i></li> <li>○ <i>Chemicals and other quality related parameters not typically found in residential wastewater</i></li> </ul> </li> <li>▪ <i>For non-residential LOSS, verify it's not industrial wastewater</i></li> </ul>											
Questions	<p>Should the LOSS rule require the LOSS design engineer to characterize the wastewater being generated in a detailed format similar the small OSS rule and the LOSS foundation document?</p> <ol style="list-style-type: none"> <li>1. <b>YES</b>, we are done.</li> <li>2. <b>NO</b>, what should be required?</li> </ol> <p><b>TRS Recommendation: YES.</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="3"><i>Committee Vote</i></th> </tr> <tr> <th><i>GRN</i></th> <th><i>YEL</i></th> <th><i>RED</i></th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>			<i>Committee Vote</i>			<i>GRN</i>	<i>YEL</i>	<i>RED</i>			
<i>Committee Vote</i>												
<i>GRN</i>	<i>YEL</i>	<i>RED</i>										