

LOSS RAC Discussion Agenda & Record of Decisions

Issue Paper for Technical Subcommittee Meeting		<i>Number of Members Present:</i> _____	
Engineering / Design Topics		Topic Number: 18	
		<i>50% +1=</i> _____	<i>Two Thirds =</i> _____
Topic Statement	Determine whether the current requirement for installing three 50% segments of the LOSS drainfield should be required for most LOSS drainfields.		
Background	As noted in reference section below, the current LOSS design standards require three 50% drainfields to be initially installed, except where automatic resting cycles are built into the application (e.g. campgrounds). An additional 50% area is kept as reserve.		
Problem Statement	<ul style="list-style-type: none"> • Because LOSS requirements include pressure distribution, dosing and resting cycles are built into all LOSS, though the resting cycles occur only between the pump-on cycles. • Alternating the drainfields routinely adds complexity to the LOSS because pressure distribution is required for the drainfields. • If organic loading rates are added to the new LOSS rule, alternating the drainfields to allow organic biomats to be oxidized during a resting cycle may be less important. 		
Reference / Research	<p>Design Standards for LOSS</p> <p>The required drainfield area shall be split into two 50 percent drainfields. A third 50 percent shall be constructed initially in order to provide for alternation (long term resting) and repair capability. Alternation shall be performed as per the "Guidelines for Alternating and Dosing Systems" (Reference 5). See Figure 1. As noted in Figure 1, a reserve area equal to an additional 50 percent where conditions are suitable for drainfield installation is required. Where facilities have automatic resting cycles built into the application, (for example, campgrounds), this requirement for three 50 percent drainfields and alternation may not be necessary. A 100 percent reserve area meeting all location requirements shall be required where the third 50 percent field requirement is waived.</p> <p>LOSS Foundation Document:</p> <ol style="list-style-type: none"> 1) 100% primary and 100% reserve. For repair, reserve doesn't need to be identified 2) 150% initially installed – 3 equally sized segments <ol style="list-style-type: none"> a) Two 50% segments used at any one time, alternated annually so one segment is only in use for 1 year maximum b) Separation of at least 10 ft. between edges of 50% segments 3) Only 100% has to be installed when: <ol style="list-style-type: none"> a) 3 equal size SSAS are initially constructed b) Distribution to segment must be rotated automatically c) Treatment level C is provided 		

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Questions	<p>1) Does it still make sense to require three 50% drainfields to be installed?</p> <p style="margin-left: 20px;">a) If YES, should it be added to the rule or should it be left in guidance, as is done currently?</p> <p style="margin-left: 20px;">b) If NO, do we still want to mention it in a guidance document?</p> <p>TRS Recommendation: YES. For Treatment Level E, require three 50% drainfields to be installed. Do not require for higher levels of treatment. Do not require for subsurface drip. Must have a reserve area, but don't install.</p> <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <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 style="height: 20px;"> </td> <td style="height: 20px;"> </td> <td style="height: 20px;"> </td> </tr> </table> <ul style="list-style-type: none"> • The higher the treatment level, the less the need for 50-50-50. • The reserve is cheap insurance for a conventional septic tank effluent. • Not needed for MBR treatment systems (not oil-based treatment). • If 50% is installed and is fallow, may incur rodent damage. 			<i>Committee Vote</i>			<i>GRN</i>	<i>YEL</i>	<i>RED</i>			
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