Calculation for Underg	round Infiltration Basin		
Project Name:		MSD Reviewer:	
Design Firm:			
		Email:	
Step A. Site Planning Recon	nmendation		
Underground Infiltrat	nary function of underground infi ion Basin fact sheet in section 18 e remainder of this calculation sh	.4.9. Refer to this section as	
removed by the under	Quality Volume Required (VR erground infiltration basin	,	
1. A = Contributing drainage area to underground storage area:			$\underline{\hspace{1cm}}$ ft ²
2. RE = Required Water Quality Volume Rain Event in inches (minimum 0.6 in):			inches
3. I = Impervious cover of the contribution drainage area in percent:			0/0
4. $VR^* = (1/12)(RE)(A)(0.05+(0.009)(I)) =$			$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
Step C. Determine the area i	needed for the underground in	filtration basin:	
1. Determine the depth of	9		ft
2. Find the area of the storage area: A=VR/D			ft ²
Step D. Calculate the Water underground infiltrat	Quality Volume Provided (VP ion basin.), or storage capacity of	
1. $A = Area of the infile$	tration basin		ft^2
2. M = depth of the media			ft
3. p = media porosity (% void)			40 %
4. $VP = (A)(M)(p)$			${}$ ft ³
Note: This is a genera	al formula, refer to manufacturer'	s guidelines.	
Step E. Prepare exhibits A a	nd B for long-term maintenan	ce and operation agreement.	