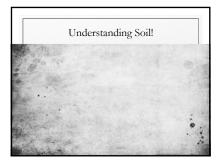


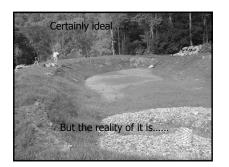
Problem....

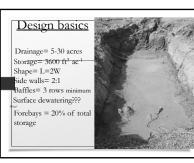
• Very hard to reduce turbidity

BUT.... • we can lighten the load of sediment entering the waters





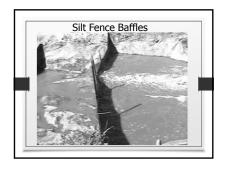


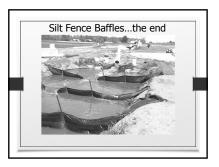




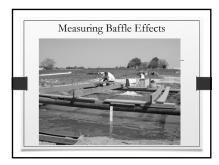


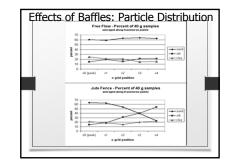


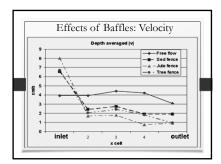


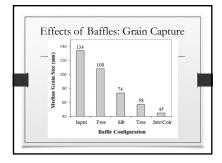








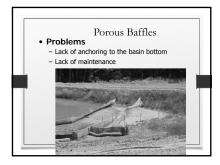












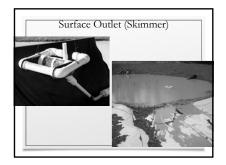
- Quiz! Porous baffles which is wrong?
- . Improve sediment retention by spreading the flow across the basin cross-section ________. Work by filtering the sediment out from muddy water
- Should be installed to a height to prevent any overtopping Need to have porosity <50%





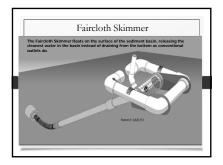


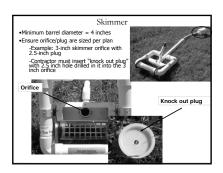


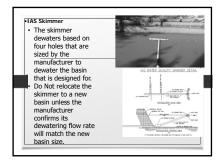


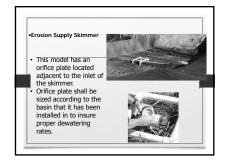


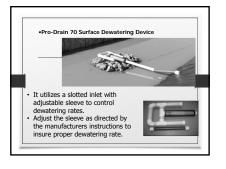




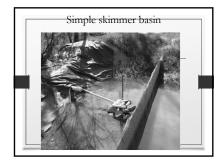




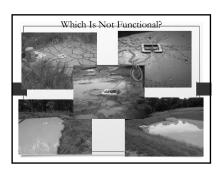






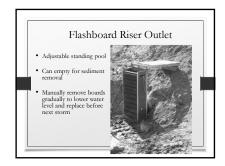


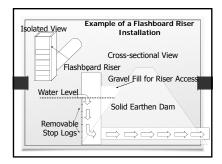
	5	Size t	o De	wate	r 24-	48 hr	s	
Skimmer size	1.5"	2"	2.5"	3"	4"	5"	6"	8"
4 hours	1,728	3,283	6,234	9,774	20,109	32,832	51,840	97,978
day.	3,456	6,566	12,468	19,548	40,218	65,664	103,680	195,957
day	5,184	9,849	18,702	29,322	60,327	98,496	155,520	293,934
day	6,912	13,132	24,936	39,096	80,436	131,328	207,360	391,912
day	8,640	16,415	31,170	48,870	100,545	164,160	259,200	489,890
day	10,368	19,698	37,404	58,644	120,654	196,992	311,040	587,868
dav	12,096	22,981	43,638	68,418	140,763	229,824	362,880	685,840

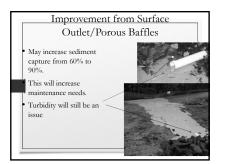


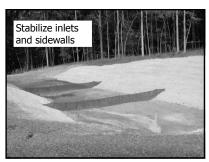






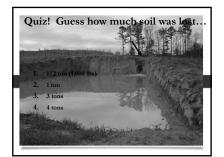










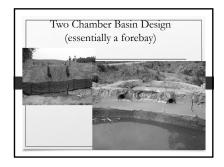


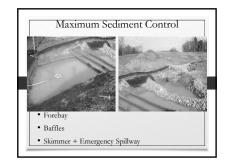


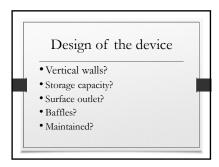






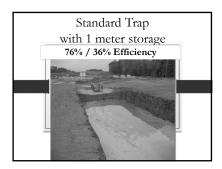








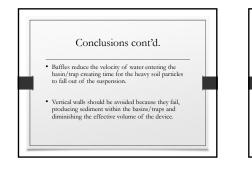








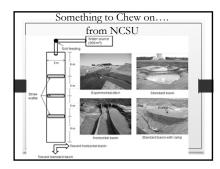




Conclusions cont'd.

 Surface outlets decrease the total amount of sediment leaving the basin/trap by dewatering from the top of the water column.

• MORE IS BETTER!



concentration (mean \pm std. error). Within a column, values followed by different letters are significant different (P < 0.05).									
PAM	Basin	Turbidi	ty (NTU)	TSS (mg L ⁻¹)					
		Ditch exit	Basin exit	Ditch exit	Basin exit				
None	Horizontal	268 ± 25 a	197 ± 27 a	995 ± 79 a	125 ± 3 b				
None	Ramp	262 ± 24 a	162 ± 19 a	1121 ± 122 a	195 ± 14 a				
None	Standard	271 ± 21 a	234 ± 22 a	1258 ± 107 a	239 ± 30 a				
PAM	Horizontal	96 ± 20 b	30 ± 5 b	943 ± 84 a	49 ± 5 c				
PAM	Ramp	98 + 14 h	23 + 4 h	1078 + 80 a	84 + 7 bc				