





Homeowner information

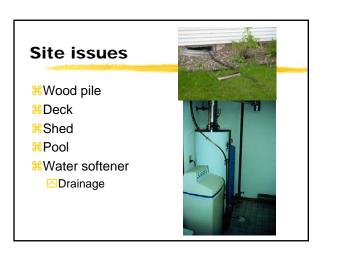
⊡Unfinished space

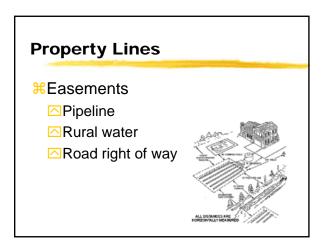
80ther uses

- **#**Gray water
- Site issues









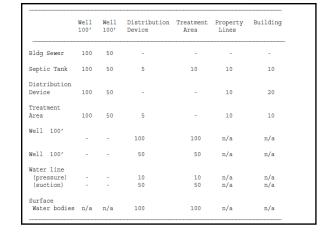
Setbacks

₩Well
Wellhead Protection Area

□Public well□Sensitive well <100' deep

∺Building

Lakeshore Issues



Lakes, Wetlands & Reservoirs

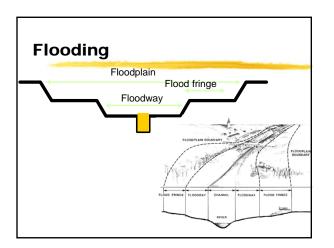
#Ordinary high water
level

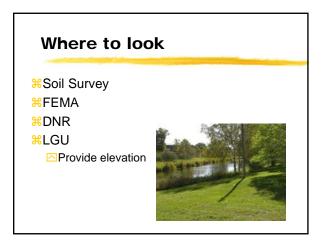
Wetlands are not
always wet

₭Verify and sign agreement with LGU



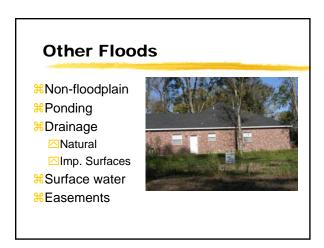






Nobody knows?

₩Make the call
₩Wetlands?
△LGU/SWCD
₩LGU agreement
₩DENR and Corps of Engineers



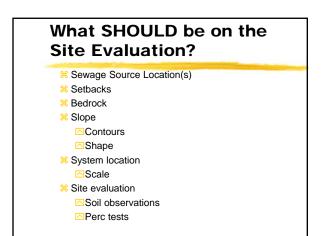
Non Conventional System

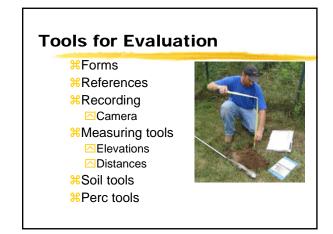
∺Site conditions

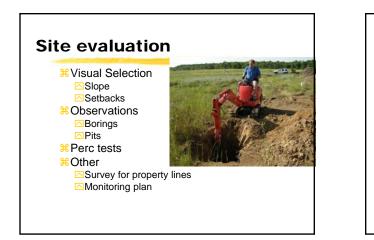
- 8 Preference
- #Technology
- Correcting permit ∴Monitoring [testing] ∴Mitigation [fixing]
- **#Location for Monitoring**

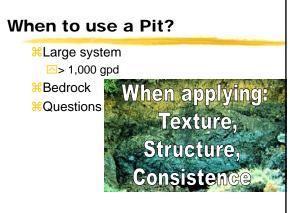


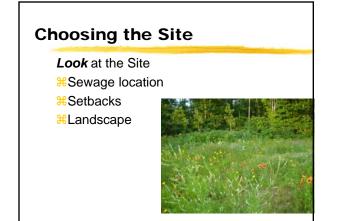
<section-header> Soil/Site Evaluations Most important phase of system design Soil is a Physical, biological, and chemical treatment system. Kneed for standard procedures and reporting methods

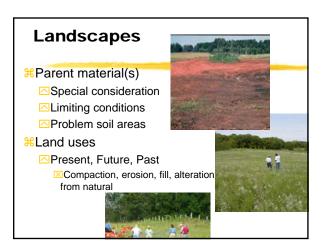


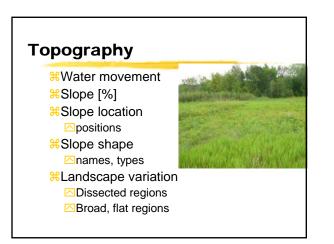


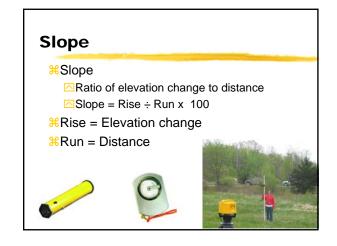


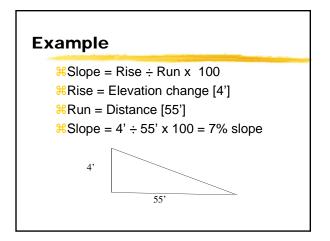


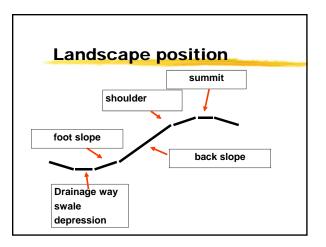


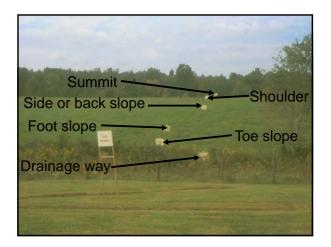


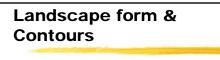




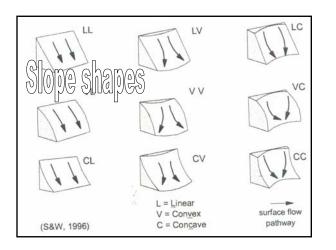


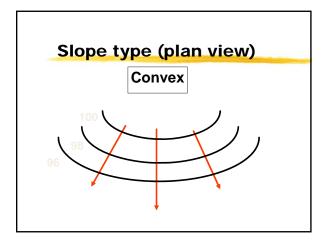


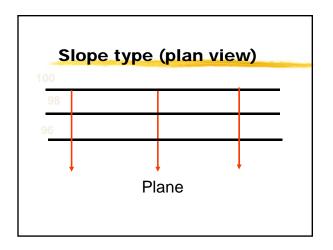


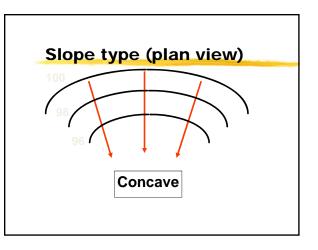


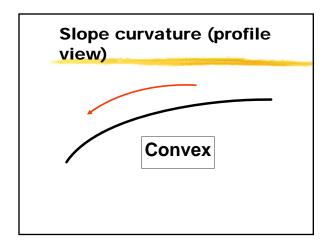
- #Landscape forms
 - Location
 - ⊡Туре
- #Contours
 - Points of equal elevation
 - ☐1-2' difference
 - Find points and map
 - Create grid and find elevations

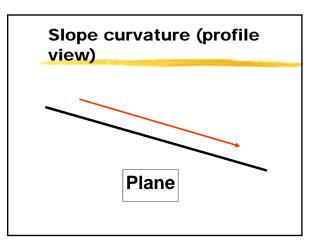


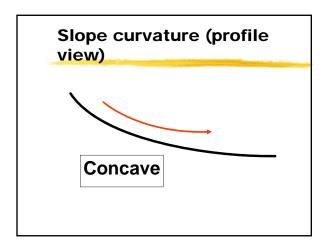


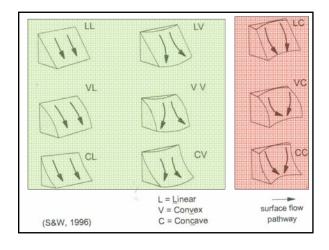




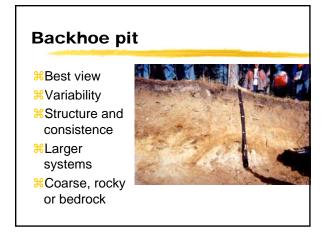












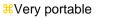
Open/Closed Bucket Auger

₭Low cost

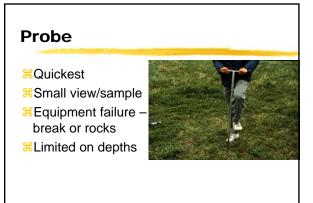
₩3-4" diameter is

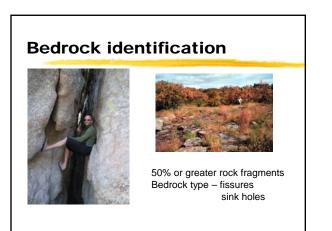
better

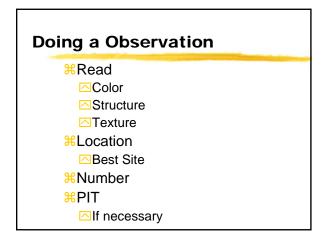
%Disturbed sample











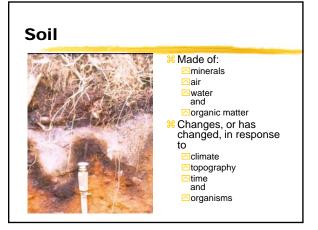
How many observations

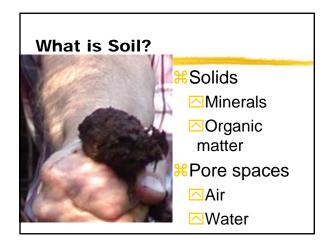
Minimum
 3 per Site
 Required- Understand the site
 Recommended
 3-5 per Site
 More variation= More observations



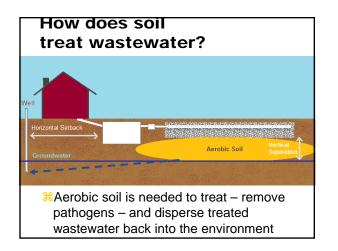
Role of Soil in an Onsite Wastewater System

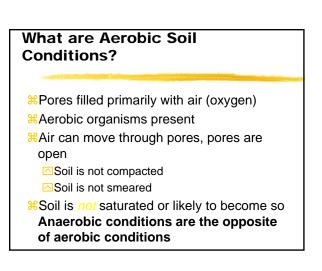
- Provide treatment for public health and environment
- Successfully handle large volumes of water on a continuous basis
- Repository for recycling/reuse of water

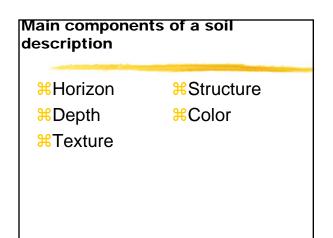


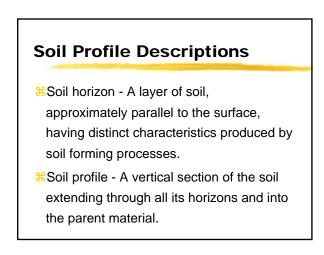


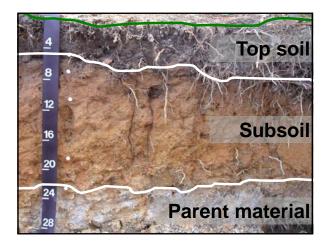


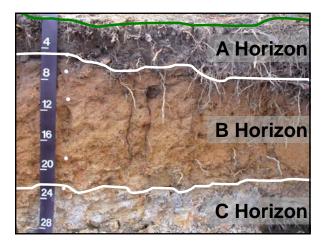




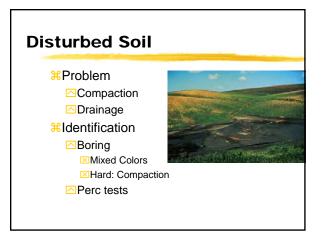




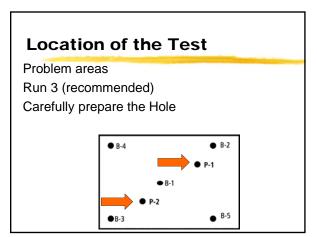


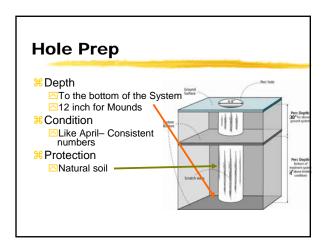


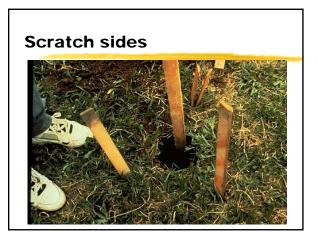
TT VE	THER:	15023 S. Beach Front Rd. Cry DEPTH 48 ⁺ SLOPE Clear 55			PAREN	TMAT	LATITUDE : N 39 . 36208 VEGETATION laurn ERIAL <u>Residuan</u> DESCRI				SEASO IED by	N, WAT	SAL IN	Ry	
ED	ROOMS	(i) DEPTH BOCKD.	MUNSELL COLOR (moint)	DO REDOX	GPD: 300		% Course Frequents locvalance		eunsie- benes	Structure	(8)	Clay P. I	Sel.	APPLICATION RATE	
	DESEL.				(g) USDA	CLAY	<3"	and a state of the	Structure (D)	pores	anena .	Geosp	CONV.	ALT.	
-	Ap	0+4* GS	101R3/4		sid	33	5	-5	so-sp ft	2f GR	m-fmc	mod	3	0.35	0.15
	ETT.	#*-21* 68	107R4/4 107R5/1		FILL	30	10	45	in the	31 MA	11.	high		NS	108
	Ap	21" - 27" GS	10YR2/1		aid	30			is-sp ft	3f GR	И	line	3	0.45	0.35
1	Bty	27" - 33" 68	10184/3	107%4/1	e	25			१७-११ रही	3 m SBK	H	high	40	NS	88
	BC	35"-48"	10¥R4/4	10YR6/1	<i>4</i> .	58	1		in-th ft	3f ARK	Н	high	40	15	85
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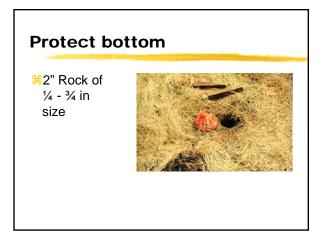


Percolation Test What is it? How fast water moves thru a 6" hole It identifies soil properties Soil texture Soil structure Soil Damage







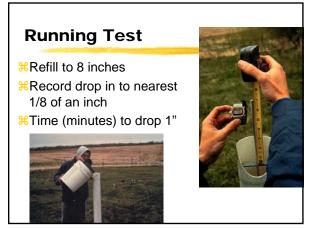


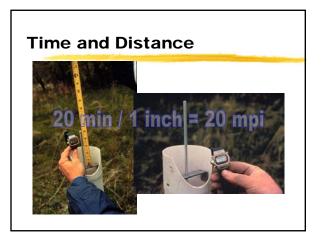


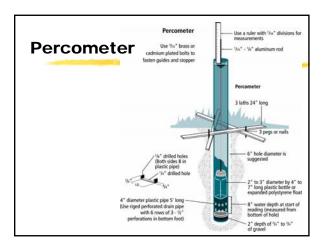
Soaking

₭Key for consistent results
△Like April
○Wetter better

Kon sand soils particles
 Soaking-- 4 Hours minimum
 Swelling-- 16-30 hours







Running- When is it finished

% 3 consecutive readings within 10%
1- 10 mpi
2- 11 mpi
3- 12 mpi **%** 12 mpi - 10mpi = 2 mpi **%** 10 mpi x .10 = 1 **%** Run again

Next time

1- 10 mpi 2- 11 mpi 3- 12 mpi 4- 11 mpi **%**12 mpi - 11 mpi = 1 mpi **%**11 mpi x .10 = 1.1 **%**Yes, they are within 10%

