			NYE COUNTY NUCLEAR WASTE REPOS		ROJ	ECT	OFFICE	
			CUTTINGS SAMPLE	LOG				
	Boreh	ole ID:	NC-GWE-PV-5 Drill Depth From: 0	_to	200_		Page <u>: 1</u> of <u>2</u>	
			Ison/Ray Wilson Start Date/Time: 05/20/2010 @ 0842					
Drilling Ed	quip./N	/lethod: _l	Ford Bucket/Auger and Speedstar 50k/Conventional Air-Foam Sa	ampling Equ	ip. M	letho	d: Auger to 19.6 ft/Cyclone from 19.6 to 200 ft.	
DEPTH		Drilling Time (min/5 ft)	DESCRIPTION OF LITHOLOGY-PETROLOGY	GRAPHIC LOG	LITHOLOGIC		NOTES	
		13	(0-200 ft) Clay (CL): Moderate yellowish-brown (10YR 5/4), no sand, no gravel, high plasticity, dense, reacts strongly to HCl acid, slightly moist, moderately hard at 0.5 ft.		Q	al	Slightly moist from surface to 12 ft, drills easily.	
10 _		30	@ 7 ½ ft: Appearance of calcium carbonate cement. @ 10 ft: Clay changes color to yellowish-gray (5Y 8/1) and becomes softer.				Becomes softer.	
		35	@ 12 ft: Moisture increases.				Moisture increases.	
		30	Stays the same.				Set surface casing at 20 ft.	
20		2	@ 20 ft: No gravels, no sand.				Drilling with air foam @ 19.6 ft. Fines will be lost in the foam, all samples will be wet.	
30 -		2						
		2	@ 35 ft: Strongly cemented clay; 25% up to ¼ inch in size, some fragments are hard as caliche.					
40		1	Canche.					
		3	@ 45 ft: Caliche fragments 2% up to ½ inch in size.					
50								
		2						
60		4						
		2	@ 60 ft: Caliche fragments increase to 20%.					
		3	@ 65 ft: Caliche fragments decrease to <2%.					
70		1	@ 70 ft: No caliche fragments, strongly cemented clay fragments (<5%) up to ¼ inch.					
80 -		2						
		3	@ 80 ft: Samples have strongly cemented clay fragments (±2%). This material is very					
90		4	uniform and the only visible changes are variations in the amount of strongly, cemented clay fragments all the way down to 200 ft (T.D.).					
		4					Driller reports sandy layer at 99 ft.	
		2			Qal			
PR	REPARE	D BY: <u>Jin</u>	n Foster/Bob Wilcoxon DATE: 06/03/2010 CHE	ECKED BY:	<u>Bob</u>	Wilco	oxon DATE: <u>06/04/2010</u>	

	CONTINUATION							
E	of2							
DEPTH (FEET)	Drilling Time (min/5 ft)	DESCRIPTION OF LITHOLOGY-PETROLO	DGY	GRAPHIC LOG	LITHOLOGIC	LIND		NOTES
= = =	3				Qa	1		
110	4							
- - -	3	@ 115 ft: 2% clay fragments.						
120	4	e 113 ft. 270 clay fragments.						
	3							
120	3	@ 125 ft: 1% clay fragments.						
130	4	@ 130 ft: 2% clay fragments.						
- - -	2							
140	2							
	4							
150	2							
	2							
160	3							
 - - - -								
170 — ———————————————————————————————————	_	@ 170 ft: 1% clay fragments.						
_ - - -	2							
180 —	2	@ 180 ft: 2% clay fragments.						
 	4							
		@ 190 ft: 1% clay fragments.						
190 — — — — — — 200 —	2		TD		Qa	1		
	<u> </u>					••		