Alluvium Core Logging Form Comments - Nye County Nuclear Waste Repository Project Office

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
7/17/2003	24P-79.42-80.00-F	79.42	80.00	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. (1F, 2F…8F)
7/17/2003	24P-80.00-80.18-C	80.00	80.18	Samples 80.00 - 80.18-C and 80.18 - 80.43-C are contaminated with bentonite. Therefore no HCL determination was made. Sample 80.00-80.18-C had 0.32 ft. of fill and was discarded.
7/17/2003	24P-80.00-81.69-C	80.00	81.69	Core run #1
7/17/2003	24P-80.18-80.43-C	80.18	80.43	Top 3 samples contaminated with bentonite. Texture is obscured. Sand and fines are a guess. No HCl reaction determination due to presence of bentonite in sample.
7/17/2003	24P-80.43-80.93-C	80.43	80.93	
7/17/2003	24P-80.93-81.43-C	80.93	81.43	
7/17/2003	24P-81.43-81.69-C	81.43	81.69	
7/22/2003	24P-119.07-120.13-F	119.07	120.13	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.
7/22/2003	24P-120.13-120.58-C	120.13	120.58	
7/22/2003	24P-120.13-121.34-C	120.13	121.34	Beginning core point was 120.13 ft. Hole was deepened during cleanout at 120 ft. Slight moisture present appears to be in-situ from 120.13 to 121.34 ft.
7/22/2003	24P-120.58-121.08-C	120.58	121.08	
7/22/2003	24P-121.08-121.34-C	121.08	121.34	Basalt boulder fragment and obsidian in shoe.
7/22/2003	24P-159.44-160.00-F	159.44	160.00	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.
7/22/2003	24P-160.00-160.12-C	160.00	160.12	Bentonite contamination in sample 160.00 - 160.12-C. This sample contains rock cut from boulders of ashflow tuff.
7/22/2003	24P-160.00-162.13-C	160.00	162.13	
7/22/2003	24P-160.12-160.62-C	160.12	160.62	Sample 160.12 - 160.62-C contains rock cut from boulders of ashflow tuff and basalt.

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7/22/2003	24P-160.62-160.87-C	160.62	160.87	
7/22/2003	24P-160.87-161.37-C	160.87	161.37	
7/22/2003	24P-161.37-161.87-C	161.37	161.87	
7/22/2003	24P-161.87-162.13-C	161.87	162.13	
7/23/2003	24P-198.60-200.87-F	198.60	200.87	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.
7/23/2003	24P-200.31-200.61-C	200.31	200.61	Weak cementation is assumed based on a strong reaction to 10% HCl acid.
7/23/2003	24P-200.31-200.87-C	200.31	200.87	Hole was deepened from 200.00 to 200.31 during cleanout operation at 200 ft and not sampled. Core run contained ashflow rock fragments from 200.31 to 200.87 ft.
7/23/2003	24P-200.61-200.87-C	200.61	200.87	
7/23/2003	24P-239.48-240.00-F	239.48	240.00	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.
7/23/2003	24P-240.00-240.23-C	240.00	240.23	
7/23/2003	24P-240.00-241.75-C	240.00	241.75	
7/23/2003	24P-240.23-240.48-C	240.23	240.48	Downhole end of sample shows 50% gravel; uphole end shows no gravel.
7/23/2003	24P-240.48-240.98-C	240.48	240.98	2-1/2" diameter basalt fragment at downhole end of 6" liner is protruding outside the liner.
7/23/2003	24P-240.98-241.48-C	240.98	241.48	
7/23/2003	24P-241.48-241.75-C	241.48	241.75	
7/24/2003	24P-278.73-280.40-F	278.73	280.40	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
7/24/2003	24P-280.40-280.73-C	280.40	280.73	Moderate cementation is based on presence of fragments of cemented medium grained sand with caliche rinds.
7/24/2003	24P-280.40-281.00-C	280.40	281.00	Hole was over deepened to 280.40 ft during cleanout operation at 280 ft.
7/24/2003	24P-280.73-281.00-C	280.73	281.00	Weak cementation is assumed based on a strong reaction of material to 10% HCl acid.
7/25/2003	24P-320.75-322.50-F	320.75	322.50	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.
7/25/2003	24P-322.50-322.75-C	322.50	322.75	
7/25/2003	24P-322.50-323.44-C	322.50	323.44	Material beginning at 322.5 ft looks very uniform. Gravel and sand is homogeneous.
7/25/2003	24P-322.75-323.25-C	322.75	323.25	
7/25/2003	24P-323.25-323.44C	323.25	323.44	
7/25/2003	24P-358.02-360.00-F	358.02	360.00	Sample type designation of "F" refers to the fill contained in the core barrel. The sample interval assigned refers to the position of the fill in the borehole and not an actual depth. This applies to 1F, 2F…8F.
7/25/2003	24P-360.00-360.02-C	360.00	360.02	
7/25/2003	24P-360.00-360.71-C	360.00	360.71	
7/25/2003	24P-360.02-360.52-C	360.02	360.52	4 in. diameter boulder fragment exposed at uphole end of sample 360.02 - 360.52-C.
7/25/2003	24P-360.52-360.71-C	360.52	360.71	Thick (3/8") cemented medium grained sand coating on 1 gravel clast. Gravel clasts are large (2-1/2" long axis), angular, fresh, and indicative of boulder fragments.