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

Key for Sample Number: SC = Sonic core; SCA = Sonic core duplicate interval; C = Drive core. Key for Sample Type: L = Logging; D = Density; F = Fill; LC = Lost core; R = Entire run; X = End of run (overlaps with next run).

Borehole ID: **NC-EWDP-24P** (Phase 4) Driller/Drilling Company Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary & Select Drive Core Alluvium Depth (ft bgs): 0 to 400 Start Date: 7/16/2003 End Date: 7/25/2003

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Grading: Not Applicable	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/17/2003	BW	2/17/2004	JSW	1	L	24P-80.00-80.18-C	80.00	80.18							5YR4/2	☐	☑	☐						☑	☐	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	■	■	■	100		
7/17/2003	BW	2/17/2004	JSW	1	L	24P-80.18-80.43-C	80.18	80.43							5YR 4/2	☐	☑	☐						☑	☐	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	■	■	■	100		
7/17/2003	BW	2/17/2004	JSW	1	L	24P-80.43-80.93-C	80.43	80.93							5YR 4/2	☐	☑	☐						☑	☐	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/17/2003	BW	2/17/2004	JSW	1	L	24P-80.93-81.43-C	80.93	81.43							5YR 4/2	☐	☑	☐						☑	☐	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2003	BW	2/17/2004	JSW	1	L	24P-81.43-81.69-C	81.43	81.69							5YR 4/2	☐	☑	☐						☑	☐	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	2	L	24P-120.13-120.58-C	120.13	120.58							5YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	2	RD	24P-120.13-121.34-C	120.13	121.34	1.3	1.2	4.0	29.90	40.75	10.85		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/22/2003	BW	2/17/2004	JSW	2	L	24P-120.58-121.08-C	120.58	121.08							5YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	2	L	24P-121.08-121.34-C	121.08	121.34							5YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	3	L	24P-160.00-160.12-C	160.00	160.12							5YR 5/6	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	3	RD	24P-160.00-162.13-C	160.00	162.13	2.1	2.1	4.0	29.90	41.15	11.25		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/22/2003	BW	2/17/2004	JSW	3	L	24P-160.12-160.62-C	160.12	160.62							5YR 5/6	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	3	L	24P-160.62-160.87-C	160.62	160.87							10YR 5/4	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	3	L	24P-160.87-161.37-C	160.87	161.37							10YR 5/4	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	3	L	24P-161.37-161.87-C	161.37	161.87							10YR 5/4	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/22/2003	BW	2/17/2004	JSW	3	L	24P-161.87-162.13-C	161.87	162.13							10YR 5/4	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/23/2003	BW	2/17/2004	JSW	4	L	24P-200.31-200.61-C	200.31	200.61							10YR 5/4	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/23/2003	BW	2/17/2004	JSW	4	RD	24P-200.31-200.87-C	200.31	200.87	0.9	0.6	4.0	29.90	41.15	11.25		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/23/2003	BW	2/17/2004	JSW	4	L	24P-200.61-200.87-C	200.61	200.87							10YR 5/4	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/23/2003	BW	2/17/2004	JSW	5	L	24P-240.00-240.23-C	240.00	240.23							10YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/23/2003	BW	2/17/2004	JSW	5	RD	24P-240.00-241.75-C	240.00	241.75	1.8	1.8	4.0	29.90	41.10	11.20		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/23/2003	BW	2/17/2004	JSW	5	L	24P-240.23-240.48-C	240.23	240.48							10YR 4/3	☐	☑	☐						☑	☐	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
7/23/2003	BW	2/17/2004	JSW	5	L	24P-240.48-240.98-C	240.48	240.98							10YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/23/2003	BW	2/17/2004	JSW	5	L	24P-240.98-241.48-C	240.98	241.48							10YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/23/2003	BW	2/17/2004	JSW	5	L	24P-241.48-241.75-C	241.48	241.75							10YR 4/3	☐	☑	☐						☑	☐	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/24/2003	BW	2/17/2004	JSW	6	L	24P-280.40-280.73-C	280.40	280.73							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/24/2003	BW	2/17/2004	JSW	6	RD	24P-280.40-281.00-C	280.40	281.00	1.0	0.6	4.0	29.90	41.50	11.60		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/24/2003	BW	2/17/2004	JSW	6	L	24P-280.73-281.00-C	280.73	281.00							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☑	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/25/2003	BW	2/17/2004	JSW	7	L	24P-322.50-322.75-C	322.50	322.75							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☐	☑		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/25/2003	BW	2/17/2004	JSW	7	RD	24P-322.50-323.44-C	322.50	323.44	0.5	0.9	4.0	32.25	45.55	13.30		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/25/2003	BW	2/17/2004	JSW	7	L	24P-322.75-323.25-C	322.75	323.25							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☐	☑		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		

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Key for Sample Number: SC = Sonic core; SCA = Sonic core duplicate interval; C = Drive core. Key for Sample Type: L = Logging; D = Density; F = Fill; LC = Lost core; R = Entire run; X = End of run (overlaps with next run).

Borehole ID: **NC-EWDP-24P** (Phase 4) Driller/Drilling Company Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary & Select Drive Core Alluvium Depth (ft bgs): 0 to 400 Start Date: 7/16/2003 End Date: 7/25/2003

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs)		Coring Data			Sample Density Data			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Grading			Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
							From	To	Coring Rate (feet/min)	Sample Recovery (feet)	Core Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	Not Applicable	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
7/25/2003	BW	2/17/2004	JSW	7	L	24P-323.25-323.44C	323.25	323.44							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☐	☑		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/25/2003	BW	2/17/2004	JSW	8	L	24P-360.00-360.02-C	360.00	360.02							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☐	☑		☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/25/2003	BW	2/17/2004	JSW	8	RD	24P-360.00-360.71-C	360.00	360.71	0.4	0.7	4.0	32.35	44.70	12.35		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
7/25/2003	BW	2/17/2004	JSW	8	L	24P-360.02-360.52-C	360.02	360.52							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☐	☑		☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/25/2003	BW	2/17/2004	JSW	8	L	24P-360.52-360.71-C	360.52	360.71							7.5YR 6/4	☐	☑	☐						☑	☐	☐	☐	☐	☐	☑		☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		