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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	To	Drilling/Coring Data: Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Sample Density Data: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/26/03	EJH	11/25/03	BW	24P-400-405	400.00	405.00		1.1	0.2		6.3	0.85	14.55	13.70	5YR 5/2
07/26/03	EJH	11/25/03	BW	24P-405-410	405.00	410.00		1.1	0.2		6.3	0.85	18.05	17.20	5YR 5/2
07/26/03	EJH	11/25/03	BW	24P-410-415	410.00	415.00		1.1	0.2	3.0	6.3	0.85	3.55	2.70	5YR 5/2
07/26/03	EJH	11/25/03	BW	24P-415-420	415.00	420.00		1.1	0.2	3.5	6.3				5YR 5/2
07/26/03	EJH	11/25/03	BW	24P-420-425	420.00	425.00	5.0	1.3	0.2	2.5	6.3				5YR 5/2
07/26/03	EJH	11/25/03	BW	24P-425-430	425.00	430.00	5.0	1.3	0.2	3.0	6.3				5YR 3/2
07/26/03	EJH	11/25/03	BW	24P-430-435	430.00	435.00	5.0	1.3	0.2	2.0	6.3				5YR 3/2
07/26/03	EJH	11/25/03	BW	24P-435-440	435.00	440.00	5.0	1.3	0.2	2.5	6.3				5YR 3/2
07/26/03	EJH	11/25/03	BW	24P-440-445	440.00	445.00	5.0	1.0	1.6	2.5	6.3				5YR 3/2
07/26/03	EJH	11/25/03	BW	24P-445-450	445.00	450.00	5.0	1.0	1.6	2.0	6.3				5YR 3/2
07/26/03	EJH	11/25/03	BW	24P-450-455	450.00	455.00	5.0	1.0	1.6	2.0	6.3				5YR 3/2
07/26/03	EJH	11/25/03	BW	24P-455-460	455.00	460.00	5.0	1.0	1.6	2.0	6.3				5YR 3/4
07/26/03	EJH	11/25/03	BW	24P-460-465	460.00	465.00	5.0	0.6	1.6	2.0	6.3				5YR 3/4
07/26/03	EJH	11/25/03	BW	24P-465-470	465.00	470.00	5.0	0.6	1.6	2.0	6.3				5YR 3/4
07/26/03	EJH	11/25/03	BW	24P-470-475	470.00	475.00	5.0	0.6	1.6	2.0	6.3				5YR 4/4
07/26/03	EJH	11/25/03	BW	24P-475-480	475.00	480.00	5.0	0.6	1.6	3.5	6.3				5YR 4/4
07/26/03	EJH	11/25/03	BW	24P-480-485	480.00	485.00	5.0	0.2	1.6	2.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-485-490	485.00	490.00	1.3	0.2	1.6	2.5	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-490-495	490.00	495.00	1.3	0.2	1.6	3.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-495-500	495.00	500.00	1.3	0.2	1.6	4.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-500-505	500.00	505.00	1.3	0.2	1.6	3.5	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-505-510	505.00	510.00	1.3	0.2	1.6	4.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-510-515	510.00	515.00	1.3	0.2	1.6	4.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-515-520	515.00	520.00	1.3	0.2	1.6	4.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-520-525	520.00	525.00	1.3	0.2	9.8	5.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-525-530	525.00	530.00	1.3	0.2	9.8	5.0	6.3				5YR 3/4

Sample Number	Moisture Content: NA	DRY	MOIST	WET	HCL Reaction: NONE	WEAK	STRONG	Tuff Deposition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-400-405		✓			✓				✓			✓				✓														✓				✓						✓	
24P-405-410		✓			✓				✓			✓				✓													✓					✓						✓	
24P-410-415		✓			✓				✓			✓				✓													✓					✓						✓	
24P-415-420		✓			✓				✓			✓				✓													✓					✓						✓	
24P-420-425				✓	✓				✓			✓				✓													✓					✓						✓	
24P-425-430				✓	✓				✓			✓				✓													✓					✓						✓	
24P-430-435				✓	✓				✓			✓				✓													✓							✓				✓	
24P-435-440				✓	✓				✓			✓				✓													✓					✓						✓	
24P-440-445				✓	✓				✓			✓				✓													✓							✓			✓		
24P-445-450				✓	✓				✓			✓				✓													✓							✓			✓		
24P-450-455				✓	✓				✓			✓				✓													✓					✓					✓		
24P-455-460				✓	✓				✓			✓				✓													✓					✓					✓		
24P-460-465				✓	✓				✓			✓				✓													✓					✓					✓		
24P-465-470				✓	✓				✓			✓				✓													✓							✓			✓		
24P-470-475				✓	✓				✓			✓				✓													✓					✓					✓		
24P-475-480				✓	✓				✓			✓				✓													✓					✓					✓		
24P-480-485				✓	✓				✓			✓				✓													✓					✓					✓		
24P-485-490				✓	✓				✓			✓				✓													✓					✓					✓		
24P-490-495				✓	✓				✓			✓				✓													✓					✓					✓		
24P-495-500				✓	✓				✓			✓				✓													✓					✓					✓		
24P-500-505				✓	✓				✓			✓				✓													✓					✓					✓		
24P-505-510				✓	✓				✓		✓					✓													✓					✓					✓		
24P-510-515				✓	✓				✓		✓					✓													✓					✓					✓		
24P-515-520				✓	✓				✓		✓					✓													✓					✓					✓		
24P-520-525				✓	✓				✓		✓					✓													✓					✓					✓		
24P-525-530				✓		✓			✓		✓					✓													✓					✓					✓		

Sample Number	Phenocrysts Mafics % by Vol.	Mafics Munsell Color Symbol	Mafics Max. Size (mm)	Quartz % by Vol.	Quartz Munsell Color Symbol	Quartz Max. Size (mm)	Feldspar % by Vol.	Feldspar Munsell Color Symbol	Feldspar Max. Size (mm)	Clasts Pumice % by Vol.	Pumice Munsell Color Symbol	Pumice Max. Size (mm)	Lithics % by Vol.	Lithics Munsell Color Symbol	Lithics Max. Size (mm)
24P-400-405	2	BRONZE	2	5	N8	3	5	CL	2	1	10YR 6/2	2	2	5YR 3/2	2
24P-405-410	2	BRONZE	2	5	N8	3	5	CL	2	1	10YR 6/2	3	2	5YR 3/2	3
24P-410-415	2	BRONZE	2	5	N8	3	5	CL	2				3	5YR 3/2	3
24P-415-420	2	BRONZE	2	5	N8	3	4	CL	2				2	5YR 3/2	2
24P-420-425	2	BRONZE	2	3	N8	3	3	CL	3				2	VARIEGATED	2
24P-425-430	2	BRONZE	2	5	N8	3	4	CL	2				2	VARIEGATED	2
24P-430-435	2	BRONZE	3	5	N8	3	5	CL	2				2	VARIEGATED	2
24P-435-440	2	BRONZE	3	5	N8	3	5	CL	3				2	VARIEGATED	2
24P-440-445	2	BRONZE	2	2	N8	3	2	CL	2				2	VARIEGATED	2
24P-445-450	3	BRONZE	2	2	N8	3	3	CL	3				2	VARIEGATED	2
24P-450-455	3	BRONZE	2	2	N8	3	2	CL	2				5	VARIEGATED	2
24P-455-460	3	BRONZE	2	2	N8	3	2	CL	2				5	VARIEGATED	2
24P-460-465	3	BRONZE	2	2	N8	4	2	CL	2				5	VARIEGATED	3
24P-465-470	2	BRONZE	2	2	N8	4	2	CL	2				5	VARIEGATED	2
24P-470-475	1	5G 2/1	2	2	N8	3	2	CL	2				4	VARIEGATED	3
24P-475-480	2	5GY 2/1	2	2	N8	3	2	CL	2				3	VARIEGATED	3
24P-480-485	1	5GY 2/1	2	2	N8	3	2	CL	2				3	N5	6
24P-485-490				2	N8	3	2	CL	2				1	N5	3
24P-490-495				3	N8	4	2	CL	2				1	N5	2
24P-495-500				5	N8	4	2	CL	2						
24P-500-505				5	N8	3	1	CL	2						
24P-505-510				5	N8	3	1	CL	2				1	N1	2
24P-510-515	1	5GY 2/1	2	5	N8	3	2	CL	2				1	N1	2
24P-515-520	1	5GY 2/1	2	7	N8	3	2	CL	2				1	N1	2
24P-520-525	1	5GY 2/1	2	5	N8	3	2	CL	2				1	N1	2
24P-525-530	1	5GY 2/1	2	3	N8	3	2	CL	2				1	N1	4

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	Depth Interval (feet/bgs) To	Drilling/Coring Data: Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Sample Density Data: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/27/03	EJH	11/25/03	BW	24P-530-535	530.00	535.00	1.3	0.2	9.8	4.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-535-540	535.00	540.00	1.3	0.2	9.8	4.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-540-545	540.00	545.00	1.3	0.3	9.8	4.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-545-550	545.00	550.00	1.3	0.3	9.8	4.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-550-555	550.00	555.00	1.3	0.3	9.8	4.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-555-560	555.00	560.00	1.3	0.3	9.8	4.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-560-565	560.00	565.00	1.5	0.5	21.0	3.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-565-570	565.00	570.00	1.5	0.5	21.0	3.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-570-575	570.00	575.00	1.5	0.5	21.0	4.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-575-580	575.00	580.00	1.5	0.5	21.0	3.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-580-585	580.00	585.00	1.5	0.4	21.0	3.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-585-590	585.00	590.00	1.5	0.4	21.0	3.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-590-595	590.00	595.00	1.5	0.4	21.0	3.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-595-600	595.00	600.00	1.5	0.4	21.0	3.5	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-600-605	600.00	605.00	1.5	0.3	26.0	4.0	6.3				5YR 3/4
07/27/03	EJH	11/25/03	BW	24P-605-610	605.00	610.00	1.5	0.3	26.0	3.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-610-615	610.00	615.00	1.5	0.3	26.0	3.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-615-620	615.00	620.00	1.5	0.3	26.0	3.0	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-620-625	620.00	625.00	1.5	0.3	26.0	2.5	6.3				5YR 4/4
07/27/03	EJH	11/25/03	BW	24P-625-630	625.00	630.00	1.5	0.3	26.0	2.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-630-635	630.00	635.00	1.5	0.3	26.0	2.0	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-635-640	635.00	640.00	1.5	0.3	26.0	2.0	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-640-645	640.00	645.00	1.5	0.3	34.0	2.0	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-645-650	645.00	650.00	1.5	0.3	34.0	2.0	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-650-655	650.00	655.00	1.5	0.3	34.0	2.0	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-655-660	655.00	660.00	1.5	0.3	34.0	2.5	6.3				5YR 4/4

Sample Number	Moisture Content: NA	DRY	MOIST	WET	HCL Reaction: NONE	WEAK	STRONG	Rock Unit – Tuff – Deposition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC
24P-530-535				✓	✓				✓		✓					✓			
24P-535-540				✓	✓				✓		✓								✓
24P-540-545				✓	✓				✓		✓					✓			
24P-545-550				✓	✓				✓		✓					✓			
24P-550-555				✓	✓				✓		✓					✓			
24P-555-560				✓		✓			✓		✓					✓			
24P-560-565				✓	✓				✓			✓				✓			
24P-565-570				✓	✓				✓			✓				✓			
24P-570-575				✓	✓				✓			✓				✓			
24P-575-580				✓	✓				✓			✓				✓			
24P-580-585				✓		✓			✓			✓				✓			
24P-585-590				✓	✓				✓			✓				✓			
24P-590-595				✓	✓				✓			✓				✓			
24P-595-600				✓	✓				✓			✓				✓			
24P-600-605				✓	✓				✓			✓				✓			
24P-605-610				✓		✓			✓			✓				✓			
24P-610-615				✓		✓			✓			✓				✓			
24P-615-620				✓	✓				✓			✓				✓			
24P-620-625				✓	✓				✓			✓				✓			
24P-625-630				✓	✓				✓			✓				✓			
24P-630-635				✓		✓			✓			✓				✓			
24P-635-640				✓		✓			✓			✓				✓			
24P-640-645				✓		✓			✓			✓				✓			
24P-645-650				✓		✓			✓			✓				✓			
24P-650-655				✓	✓				✓			✓				✓			
24P-655-660				✓		✓			✓			✓				✓			

Sample Number	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-530-535										✓					✓					✓		
24P-535-540										✓					✓					✓		
24P-540-545										✓					✓					✓		
24P-545-550										✓					✓					✓		
24P-550-555										✓					✓					✓		
24P-555-560										✓					✓					✓		
24P-560-565										✓					✓						✓	
24P-565-570										✓					✓						✓	
24P-570-575										✓					✓						✓	
24P-575-580										✓					✓						✓	
24P-580-585										✓					✓						✓	
24P-585-590										✓					✓						✓	
24P-590-595										✓					✓						✓	
24P-595-600										✓					✓						✓	
24P-600-605										✓					✓						✓	
24P-605-610										✓					✓						✓	
24P-610-615										✓					✓						✓	
24P-615-620										✓					✓						✓	
24P-620-625										✓					✓						✓	
24P-625-630										✓					✓						✓	
24P-630-635										✓					✓						✓	
24P-635-640										✓					✓						✓	
24P-640-645										✓					✓						✓	
24P-645-650										✓					✓						✓	
24P-650-655										✓					✓						✓	
24P-655-660										✓					✓						✓	

Sample Number	Phenocrysts – Mafics: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Quartz: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Feldspar: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Clasts – Pumice: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Lithics: % by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-530-535	1	5GY 2/1	2	2	N8	3	2	CL	2				1	N1	3
24P-535-540	1	5GY 2/1	4	2	N8	3	2	CL	2				1	N1	12
24P-540-545	1	5G 2/1	2	3	N8	3	2	CL	2				1	N1	4
24P-545-550	1	N1	2	3	N8	3	2	CL	3						
24P-550-555	1	N1	2	2	N8	3	2	CL	2				1	N9	10
24P-555-560	3	5G 2/1	2	10	N8	3	5	CL	2				2	N8	5
24P-560-565	3	5G 2/1	2	8	N8	3	4	CL	2				2	N8	3
24P-565-570	3	5G 2/1	2	8	N8	3	4	CL	2				2	N8	3
24P-570-575	3	5G 2/1	3	7	N8	3	4	CL	2				2	N4	5
24P-575-580	2	5G 2/1	2	7	N8	3	4	CL	2				3	N4	3
24P-580-585	2	5G 2/1	2	5	N8	3	5	CL	2				4	N4	3
24P-585-590	2	5G 2/1	2	5	N8	3	4	CL	2				3	N4	3
24P-590-595	2	5G 2/1	2	3	N8	3	3	CL	2				3	N4	3
24P-595-600	2	5G 2/1	2	3	N8	3	3	CL	2				3	N4	3
24P-600-605	2	5G 4/1	2	5	N8	3	3	CL	2				4	N7	3
24P-605-610	2	5G 4/1	2	3	N8	3	3	CL	2				3	N8	2
24P-610-615	2	5G 4/1	2	2	N8	2	3	CL	2				4	N6	3
24P-615-620	3	5G 4/1	2	2	N8	2	3	CL	2				3	N6	2
24P-620-625	2	5G 4/1	2	2	N8	2	3	CL	3				4	N3	3
24P-625-630	2	5G 4/1	2	2	N8	2	2	CL	2				5	N3 & N5	4
24P-630-635	2	5G 4/1	2	1	N8	2	2	CL	2				10	N3 & N5	4
24P-635-640	2	5G 4/1	2	2	N8	3	1	CL	2				5	N3 & N5	4
24P-640-645	2	5G 4/1	2	2	N8	2	2	CL	2				4	N3 & N8	6
24P-645-650	2	5G 4/1	2	1	N8	2	1	CL	2				2	N3 & N8	3
24P-650-655	2	5G 4/1	2	2	N8	2	2	CL	2				1	N3 & N8	2
24P-655-660	2	5G 4/1	2	2	N8	2	3	CL	2						

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	Depth Interval (feet/bgs) To	Drilling/Coring Data: Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Sample Density Data: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/28/03	EJH	11/25/03	BW	24P-660-665	660.00	665.00	1.5	0.2	34.0	2.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-665-670	665.00	670.00	1.5	0.2	34.0	2.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-670-675	670.00	675.00	1.5	0.2	34.0	2.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-675-680	675.00	680.00	1.5	0.2	34.0	3.0	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-680-685	680.00	685.00	1.5	0.3	39.0	3.0	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-685-690	685.00	690.00	1.5	0.3	39.0	3.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-690-695	690.00	695.00	1.5	0.3	39.0	3.0	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-695-700	695.00	700.00	1.5	0.3	39.0	3.0	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-700-705	700.00	705.00	1.5	0.6	39.0	2.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-705-710	705.00	710.00	1.5	0.6	39.0	3.5	6.3				5YR 4/4
07/28/03	EJH	11/25/03	BW	24P-710-715	710.00	715.00	1.5	0.6	39.0	2.5	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-715-720	715.00	720.00	1.5	0.6	39.0	3.0	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-720-725	720.00	725.00	1.5	0.3	45.0	5.0	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-725-730	725.00	730.00	1.5	0.3	45.0	2.5	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-730-735	730.00	735.00	1.5	0.3	45.0	2.5	6.3				5YR 3/4
07/28/03	EJH	11/25/03	BW	24P-735-740	735.00	740.00	1.5	0.3	45.0	2.0	6.3				5YR 3/4
07/29/03	EJH	11/25/03	BW	24P-740-745	740.00	745.00	1.5	0.4	45.0	2.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-745-750	745.00	750.00	1.5	0.4	45.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-750-755	750.00	755.00	1.5	0.4	45.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-755-760	755.00	760.00	1.5	0.4	45.0	2.5	6.3				5YR 3/4
07/29/03	EJH	11/25/03	BW	24P-760-765	760.00	765.00	1.5	0.7	52.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-765-770	765.00	770.00	1.5	0.7	52.0	2.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-770-775	770.00	775.00	1.5	0.7	52.0	2.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-775-780	775.00	780.00	1.5	0.7	52.0	2.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-780-785	780.00	785.00	1.5	0.4	52.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-785-790	785.00	790.00	1.5	0.4	52.0	2.5	6.3				5YR 4/4

Sample Number	Moisture: NA	DRY	MOIST	WET	HCL Reaction: NONE	WEAK	STRONG	Tuff Deposition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-660-665				✓		✓			✓			✓				✓													✓					✓						✓	
24P-665-670				✓	✓				✓			✓				✓													✓					✓						✓	
24P-670-675				✓	✓				✓			✓				✓													✓					✓						✓	
24P-675-680				✓	✓				✓			✓				✓													✓					✓						✓	
24P-680-685				✓		✓			✓			✓				✓													✓					✓						✓	
24P-685-690				✓	✓				✓			✓				✓													✓					✓						✓	
24P-690-695				✓	✓				✓		✓					✓													✓					✓					✓		
24P-695-700				✓	✓				✓		✓					✓													✓					✓					✓		
24P-700-705				✓	✓				✓			✓				✓													✓					✓						✓	
24P-705-710				✓		✓			✓		✓					✓													✓					✓					✓		
24P-710-715				✓	✓				✓		✓					✓													✓							✓			✓		
24P-715-720				✓	✓				✓		✓					✓													✓							✓			✓		
24P-720-725				✓	✓				✓		✓					✓													✓							✓			✓		
24P-725-730				✓	✓				✓		✓					✓													✓							✓			✓		
24P-730-735				✓	✓				✓		✓					✓													✓					✓					✓		
24P-735-740				✓	✓				✓		✓					✓													✓							✓			✓		
24P-740-745				✓	✓				✓		✓					✓													✓					✓					✓		
24P-745-750				✓	✓				✓		✓					✓													✓					✓					✓		
24P-750-755				✓	✓				✓		✓					✓													✓					✓					✓		
24P-755-760				✓	✓				✓		✓					✓													✓							✓			✓		
24P-760-765				✓	✓				✓		✓					✓													✓							✓			✓		
24P-765-770				✓	✓				✓		✓					✓													✓							✓			✓		
24P-770-775				✓	✓				✓		✓					✓													✓							✓			✓		
24P-775-780				✓	✓				✓		✓					✓													✓							✓			✓		
24P-780-785				✓	✓				✓		✓					✓													✓							✓			✓		
24P-785-790				✓	✓				✓		✓					✓													✓							✓			✓		

Sample Number	Phenocrysts Mafics % by Vol.	Munsell Color Symbol	Max. Size (mm)	Quartz % by Vol.	Munsell Color Symbol	Max. Size (mm)	Feldspar % by Vol.	Munsell Color Symbol	Max. Size (mm)	Clasts Pumice % by Vol.	Munsell Color Symbol	Max. Size (mm)	Lithics % by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-660-665	2	5G 4/1	2	5	N8	2	2	CL	2				1	N5	2
24P-665-670	2	5G 4/1	2	5	N8	2	3	CL	2				1	N5	3
24P-670-675	2	5G 4/1	2	5	N8	2	2	CL	2				1	N5	3
24P-675-680	2	BRONZE	2	4	N8	2	3	CL	2						
24P-680-685	2	5G 4/1	2	5	N8	2	3	CL	2				2	N5 & N3	4
24P-685-690	2	5G 4/1	2	5	N8	2	3	CL	2				2	N5 & N3	2
24P-690-695	2	5G 4/1	2	5	N8	2	3	CL	2				3	N1 & N4	3
24P-695-700	2	5G 4/1	2	5	N8	2	3	CL	2	1	10YR 8/2	4	5	N1 & N4	3
24P-700-705	1	5G 2/1	2	3	CL	2	2	CL	2	20	10YR 8/2	3	5	N3 & N5	4
24P-705-710	1	5G 2/1	2	3	CL	2	3	CL	2	10	10YR 8/2	3	5	N3 & N5	3
24P-710-715	1	N1	2	5	CL	2	3	CL	2	10	10YR 8/2	4	5	N3 & N5	4
24P-715-720				3	CL	2	2	CL	2	10	10YR 8/2	5	5	5R 4/6 N3	3
24P-720-725	1	5G 2/1	2	5	CL	6	1	CL	2	10	10YR 8/2	4	4	N3 & N5	15
24P-725-730	1	5G 2/1	2	1	CL	3	1	CL	2	2	10YR 8/2	2	5	N1 & N3	4
24P-730-735	2	5G 2/1	2	1	CL	3	1	CL	2				5	N1 & N3	3
24P-735-740	2	5G 2/1	2	1	CL	3	1	CL	2				5	N1 & N3	3
24P-740-745	2	N1	2	1	CL	2	2	CL	3				3	N1 & N3	3
24P-745-750	1	N1	2	1	CL	2	2	CL	2				4	N1 & N3	3
24P-750-755	2	N1	2	1	CL	2	2	CL	2				3	N1 & N3	3
24P-755-760	2	N1	2	1	N7	2	2	CL	2				3	N1 & N3	2
24P-760-765	3	5G 2/1	2	1	N7	2	2	CL	2				4	N1 & N3	2
24P-765-770	3	5G 2/1	2	2	N7	2	2	CL	2				5	N1 & N3	3
24P-770-775	3	5G 2/1	2	1	N7	2	2	CL	2				4	5R 4/6 N1	2
24P-775-780	4	5G 2/1	3	2	N7	2	2	CL	2	1	10YR 8/2	2	5	N1 & N3	2
24P-780-785	5	5G 2/1	3	1	N7	2	2	CL	2	2	10YR 8/2	3	8	VARIEGATED	2
24P-785-790	4	5G 2/1	2	1	N7	2	2	CL	2	2	10YR 8/2	3	5	VARIEGATED	2

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	Depth Interval (feet/bgs) To	Drilling/Coring Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Sample Density Data: Bore-hole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/29/03	EJH	11/25/03	BW	24P-790-795	790.00	795.00	1.5	0.4	52.0	3.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-795-800	795.00	800.00	1.5	0.4	52.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-800-805	800.00	805.00	1.5	0.5	58.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-805-810	805.00	810.00	1.5	0.5	58.0	2.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-810-815	810.00	815.00	1.5	0.5	58.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-815-820	815.00	820.00	1.5	0.5	58.0	2.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-820-825	820.00	825.00	1.5	0.9	58.0	1.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-825-830	825.00	830.00	1.5	0.9	58.0	1.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-830-835	830.00	835.00	1.5	0.9	58.0	1.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-835-840	835.00	840.00	1.5	0.9	58.0	1.5	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-840-845	840.00	845.00	1.3	0.8	62.0	2.0	6.3				5YR 4/4
07/29/03	EJH	11/25/03	BW	24P-845-850	845.00	850.00	1.3	0.8	62.0	2.0	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-850-855	850.00	855.00	1.3	0.8	62.0	2.0	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-855-860	855.00	860.00	1.3	0.8	62.0	2.0	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-860-865	860.00	865.00	1.3	0.9	62.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-865-870	865.00	870.00	1.3	0.9	62.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-870-875	870.00	875.00	1.3	0.9	62.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-875-880	875.00	880.00	1.3	0.9	62.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-880-885	880.00	885.00	1.3	0.7	60.0	1.5	6.3				5YR 6/4
07/29/03	EJH	11/25/03	BW	24P-885-890	885.00	890.00	1.3	0.7	60.0	1.5	6.3				5YR 7/2
07/29/03	EJH	11/25/03	BW	24P-890-895	890.00	895.00	1.3	0.7	60.0	2.0	6.3				5YR 3/2 5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-895-900	895.00	900.00	1.3	0.7	60.0	2.0	6.3				5YR 3/2 5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-900-905	900.00	905.00	1.1	1.1	72.0	2.0	6.3				5YR 3/2 5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-905-910	905.00	910.00	1.1	1.1	72.0	2.0	6.3				5YR 3/2 5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-910-915	910.00	915.00	1.1	1.1	72.0	2.0	6.3				5YR 8/4 5YR 3/2
07/29/03	EJH	11/25/03	BW	24P-915-920	915.00	920.00	1.1	1.1	72.0	2.0	6.3				10YR 5/4

Sample Number	Moisture Content: NA	DRY	MOIST	WET	HCL Reaction: NONE	WEAK	STRONG	Rock Unit – Tuff – Deposition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC
24P-790-795				✓	✓				✓		✓					✓			
24P-795-800				✓	✓				✓		✓					✓			
24P-800-805				✓	✓				✓		✓					✓			
24P-805-810				✓	✓				✓		✓					✓			
24P-810-815				✓	✓				✓		✓					✓			
24P-815-820				✓	✓				✓		✓					✓			
24P-820-825				✓	✓				✓		✓					✓			
24P-825-830				✓	✓				✓			✓				✓			
24P-830-835				✓	✓				✓			✓				✓			
24P-835-840				✓	✓				✓			✓				✓			
24P-840-845				✓	✓				✓			✓				✓			
24P-845-850				✓	✓				✓			✓				✓			
24P-850-855				✓	✓				✓			✓				✓			
24P-855-860				✓	✓				✓			✓				✓			
24P-860-865				✓	✓				✓			✓				✓			
24P-865-870				✓	✓				✓			✓				✓			
24P-870-875				✓	✓				✓			✓				✓			
24P-875-880				✓	✓				✓			✓				✓			
24P-880-885				✓	✓				✓			✓				✓			
24P-885-890				✓	✓				✓			✓				✓			
24P-890-895				✓	✓														
24P-895-900				✓	✓														
24P-900-905				✓	✓														
24P-905-910				✓	✓														
24P-910-915				✓	✓														
24P-915-920				✓	✓														

Sample Number	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-790-795										✓							✓			✓		
24P-795-800										✓							✓			✓		
24P-800-805										✓					✓					✓		
24P-805-810										✓					✓					✓		
24P-810-815										✓							✓			✓		
24P-815-820										✓					✓					✓		
24P-820-825										✓					✓					✓		
24P-825-830											✓				✓					✓		
24P-830-835											✓				✓					✓		
24P-835-840										✓					✓					✓		
24P-840-845										✓					✓					✓		
24P-845-850										✓					✓					✓		
24P-850-855										✓					✓					✓		
24P-855-860										✓					✓					✓		
24P-860-865										✓					✓					✓		
24P-865-870										✓					✓					✓		
24P-870-875										✓					✓					✓		
24P-875-880										✓					✓					✓		
24P-880-885										✓					✓					✓		
24P-885-890										✓					✓					✓		
24P-890-895				✓									✓		✓						✓	
24P-895-900				✓									✓		✓						✓	
24P-900-905					✓									✓	✓							✓
24P-905-910					✓									✓	✓							✓
24P-910-915				✓										✓	✓							✓
24P-915-920				✓										✓	✓							

Sample Number	Phenocrysts – Mafics: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Quartz: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Feldspar: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Clasts – Pumice: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Lithics: % by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-790-795	3	5G 2/1	2	2	N7	2	2	CL	2				3	VARIEGATED	2
24P-795-800	3	5G 2/1	2	2	CL	2	2	CL	2	1	10YR 8/6	3	5	VARIEGATED	2
24P-800-805	2	5G 2/1	2	2	CL	2	2	CL	2				5	VARIEGATED	2
24P-805-810	2	5G 2/1	2	3	CL	2	4	CL	2				5	VARIEGATED	2
24P-810-815	2	5G 2/1	2	4	CL	3	3	CL	2				5	VARIEGATED	2
24P-815-820	3	5G 2/1 BRONZE	2	4	CL	2	3	CL	2	1	5YR 5/6	3	5	N4	2
24P-820-825	2	5G 2/1	2	3	CL	2	3	CL	2				6	N4	4
24P-825-830	3	5G 2/1	2	2	CL	2	2	CL	2				10	N4	4
24P-830-835	2	5G 2/1	3	2	CL	2	3	CL	2				2	N4	3
24P-835-840	2	5G 2/1	2	1	CL	2	1	CL	2				5	N4	2
24P-840-845	2	5G 2/1	2	1	CL	2	1	CL	2				3	N4 & N1	2
24P-845-850	2	5G 2/1	2	1	CL	2	2	CL	2				3	N4 & N1	2
24P-850-855	2	5G 2/1	2	1	CL	2	2	CL	2				1	N4 & N1	3
24P-855-860	2	5G 2/1	2	1	CL	2	2	CL	2				1	N4	3
24P-860-865	1	5G 2/1	2	1	CL	2	1	CL	2				1	N4	2
24P-865-870	1	5G 2/1	2	1	CL	2	1	CL	2				1	N1	2
24P-870-875	1	5G 2/1	2	1	CL	2	1	CL	2	1	N6	5			
24P-875-880	1	5G 2/1	2	1	CL	2	1	CL	2	1	10YR 8/6	3	1	5R 4/6 N4	5
24P-880-885	1	N1	2	1	CL	2				1	10YR 8/6	2	1	N4	6
24P-885-890	1	N1	2	1	CL	2									
24P-890-895													80	VARIEGATED	8
24P-895-900													85	VARIEGATED	5
24P-900-905													50	N4	10
24P-905-910													50	5YR 3/2	5
24P-910-915													15	5YR 3/2	4
24P-915-920															

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/29/03	EJH	11/25/03	BW	24P-920-925	920.00	925.00	1.1	0.5	72.0	1.5	6.3				10YR 5/4
07/29/03	EJH	11/25/03	BW	24P-925-930	925.00	930.00	1.1	0.5	72.0	1.5	6.3				10YR 5/4
07/29/03	EJH	11/25/03	BW	24P-930-935	930.00	935.00	1.1	0.5	72.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-935-940	935.00	940.00	1.1	0.5	72.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-940-945	940.00	945.00	1.3	1.0	76.0	1.5	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-945-950	945.00	950.00	1.3	1.0	76.0	2.0	6.3				5YR 5/6
07/29/03	EJH	11/25/03	BW	24P-950-955	950.00	955.00	1.3	1.0	76.0	2.0	6.3				10YR 8/2
07/29/03	EJH	11/25/03	BW	24P-955-960	955.00	960.00	1.3	1.0	76.0	1.5	6.3				10YR 8/2
07/29/03	EJH	11/25/03	BW	24P-960-965	960.00	965.00	1.3	1.0	76.0	1.5	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-965-970	965.00	970.00	1.3	1.0	76.0	1.0	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-970-975	970.00	975.00	1.3	1.0	76.0	1.0	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-975-980	975.00	980.00	1.3	1.0	76.0	1.0	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-980-985	980.00	985.00	1.3	0.8	74.0	1.0	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-985-990	985.00	990.00	1.3	0.8	74.0	2.0	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-990-995	990.00	995.00	1.3	0.8	74.0	2.5	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-995-1000	995.00	1000.00	1.3	0.8	74.0	3.0	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-1000-1005	1000.00	1005.00	1.3	0.6	74.0	2.5	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-1005-1010	1005.00	1010.00	1.3	0.6	74.0	2.5	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-1010-1015	1010.00	1015.00	1.3	0.6	74.0	2.5	6.3				10YR 7/4
07/29/03	EJH	11/25/03	BW	24P-1015-1020	1015.00	1020.00	1.3	0.6	74.0	2.5	6.3				10YR 7/4
07/30/03	EJH	11/25/03	BW	24P-1020-1025	1020.00	1025.00	1.3	0.7	89.0	3.0	6.3				10YR 7/4
07/30/03	EJH	11/25/03	BW	24P-1025-1030	1025.00	1030.00	1.3	0.7	89.0	3.0	6.3				10YR 7/4
07/30/03	EJH	11/25/03	BW	24P-1030-1035	1030.00	1035.00	1.3	0.7	89.0	3.0	6.3				10YR 7/4
07/30/03	EJH	11/25/03	BW	24P-1035-1040	1035.00	1040.00	1.3	0.7	89.0	3.0	6.3				10R 4/6
07/30/03	EJH	11/25/03	BW	24P-1040-1045	1040.00	1045.00	1.3	0.7	89.0	2.5	6.3				10YR 7/4
07/30/03	EJH	11/25/03	BW	24P-1045-1050	1045.00	1050.00	1.3	0.7	89.0	3.0	6.3				10R 4/6

Checked boxes (Moisture Content: NA / DRY / MOIST / WET; HCL Reaction: NONE / WEAK / STRONG; Rock Unit – Tuff Deposition: ASHFALL / ASHFLOW / REWORKED; Welding: DENSE / MODERATE / WEAK / NONE; Alteration: VITRIC / DEVITRIFIED / MATRIX / VAPOR PHASE / SPHERULITIC; Sedimentary: CLAYSTONE / MUDSTONE / SILTSTONE / SANDSTONE / CONGLOMERATE / CHERT; Carbonate: LIMESTONE / DOLOMITE; OTHER; Weathering: FRESH / SLIGHT / MODERATE / HIGH / DECOMPOSED; Structure: NONE OBSERVED / STRATIFIED / LAMINATED / FRACTURED / OTHER; Matrix: DENSE/NONPOROUS / OPEN/POROUS / OTHER):

Sample Number	Moisture Content	HCL Reaction	Depo-sition	Welding	Alteration	Sedimentary	Carbonate	Other	Weathering	Structure	Matrix
24P-920-925	WET	NONE				SANDSTONE			DECOMPOSED	NONE OBSERVED	
24P-925-930	WET	NONE				SANDSTONE			DECOMPOSED	NONE OBSERVED	
24P-930-935	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-935-940	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	DENSE/NONPOROUS
24P-940-945	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-945-950	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-950-955	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-955-960	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-960-965	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-965-970	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				HIGH	NONE OBSERVED	OPEN/POROUS
24P-970-975	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				MODERATE	NONE OBSERVED	OPEN/POROUS
24P-975-980	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				MODERATE	NONE OBSERVED	OPEN/POROUS
24P-980-985	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				SLIGHT	NONE OBSERVED	OPEN/POROUS
24P-985-990	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-990-995	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-995-1000	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1000-1005	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1005-1010	WET	NONE	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1010-1015	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1015-1020	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1020-1025	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1025-1030	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1030-1035	WET	NONE	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1035-1040	WET	NONE	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1040-1045	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS
24P-1045-1050	WET	NONE	ASHFLOW	NONE	DEVITRIFIED				FRESH	NONE OBSERVED	OPEN/POROUS

Sample Number	Phenocrysts – Mafics % by Vol.	Mafics Munsell Color Symbol	Mafics Max. Size (mm)	Quartz % by Vol.	Quartz Munsell Color Symbol	Quartz Max. Size (mm)	Feldspar % by Vol.	Feldspar Munsell Color Symbol	Feldspar Max. Size (mm)	Clasts – Pumice % by Vol.	Pumice Munsell Color Symbol	Pumice Max. Size (mm)	Lithics % by Vol.	Lithics Munsell Color Symbol	Lithics Max. Size (mm)
24P-920-925															
24P-925-930															
24P-930-935	1	5G 2/1													
24P-935-940	3	5G 2/1	2	1	CL	2	1	CL	2				1	VARIEGATED	2
24P-940-945	1	5G 2/1	2	1	CL	2				20	5YR 8/4 10GY 7/2	5	5	VARIEGATED	2
24P-945-950	1	5GY 2/1	2	1	N4	2				15	5YR 8/4 10GY 7/2	4	4	VARIEGATED	2
24P-950-955				1	N5	2				15	5YR 8/4 10GY 7/2	3	4	VARIEGATED	3
24P-955-960	3	5GY 2/1	2	1	CL	2							1	VARIEGATED	2
24P-960-965	1	5GY 2/1	2	1	N5	2	1		1.5	1	10YR 8/2	4	2	VARIEGATED	2
24P-965-970	1	5GY 2/1	2	1	N5	2							4	VARIEGATED	3
24P-970-975	1	5GY 2/1	2	4	N5	2	1	CL	2	1	10YR 8/2	4	3	VARIEGATED	2
24P-975-980	1	5GY 2/1	2	2	N5	2				5	10YR 8/2	10	10	VARIEGATED	5
24P-980-985	1	5GY 2/1	2	1	N5	2	1	CL	2	1	10YR 8/2	5	5	5YR 3/4	3
24P-985-990	1	5GY 2/1	2	2	N5	2				4	10YR 8/2	3	2	N5	4
24P-990-995	1	5GY 2/1	2	1	N5	2				8	10YR 8/2	8	3	N5 5GY 6/1	3
24P-995-1000	1	5GY 2/1	2	1	N5	2				10	10YR 8/2	8	2	N5 5GY 6/1	3
24P-1000-1005	1	N1	2	1	N7	2	1	CL	2	4	10YR 8/6	4			
24P-1005-1010	1	N1	2	1	N7	2				5	10YR 8/6	3	1	N2	2
24P-1010-1015	1	N1	2	1	N7	3				6	10YR 8/6	4	1	N5	4
24P-1015-1020	2	5G 2/1	2	2	N7	2	1	CL	2	5	10YR 8/6	6	1	N4	2
24P-1020-1025	1	N1	2	1	N7	2				5	10YR 8/6	5	2	N4	3
24P-1025-1030	1	N1	2	2	N8	2				10	5YR 8/4	4	5	N4	3
24P-1030-1035	2	N1	2	2	N8	2	1	CL	2	10	5YR 8/4	6	5	N4	4
24P-1035-1040	2	N1	2	2	N8	2	1	CL	2	5	5YR 8/4	5	2	N5/N4	3
24P-1040-1045	1	5G 2/1	2	2	N8	2				10	5YR 8/4	5	5	N5/N4	2
24P-1045-1050	2	5G 2/1	2	2	N8	2				20	5YR 8/4	6	5	N5/N4	2

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	Depth Interval (feet/bgs) To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/30/03	EJH	11/25/03	BW	24P-1050-1055	1050.00	1055.00	1.3	0.7	89.0	3.0	6.3				10R 4/6
07/30/03	EJH	11/25/03	BW	24P-1055-1060	1055.00	1060.00	1.3	0.7	89.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1060-1065	1060.00	1065.00	1.3	0.6	81.0	2.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1065-1070	1065.00	1070.00	1.3	0.6	81.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1070-1075	1070.00	1075.00	1.3	0.6	81.0	3.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1075-1080	1075.00	1080.00	1.3	0.6	81.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1080-1085	1080.00	1085.00	1.3	0.4	81.0	3.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1085-1090	1085.00	1090.00	1.3	0.4	81.0	3.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1090-1095	1090.00	1095.00	1.3	0.4	81.0	3.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1095-1100	1095.00	1100.00	1.3	0.4	81.0	4.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1100-1105	1100.00	1105.00	1.3	0.6	92.0	4.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1105-1110	1105.00	1110.00	1.3	0.6	92.0	2.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1110-1115	1110.00	1115.00	1.3	0.6	92.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1115-1120	1115.00	1120.00	1.3	0.6	92.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1120-1125	1120.00	1125.00	1.3	0.7	92.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1125-1130	1125.00	1130.00	1.3	0.7	92.0	2.5	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1130-1135	1130.00	1135.00	1.3	0.7	92.0	3.0	6.3				5YR 5/6
07/30/03	EJH	11/25/03	BW	24P-1135-1140	1135.00	1140.00	1.3	0.7	92.0	3.0	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1140-1145	1140.00	1145.00	1.3	0.7	94.0	2.0	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1145-1150	1145.00	1150.00	1.3	0.7	94.0	2.5	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1150-1155	1150.00	1155.00	1.3	0.7	94.0	3.0	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1155-1160	1155.00	1160.00	1.3	0.7	94.0	2.5	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1160-1165	1160.00	1165.00	1.3	0.7	94.0	2.0	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1165-1170	1165.00	1170.00	1.3	0.7	94.0	2.5	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1170-1175	1170.00	1175.00	1.3	0.7	94.0	2.5	6.3				10YR 8/2
07/30/03	EJH	11/25/03	BW	24P-1175-1180	1175.00	1180.00	1.3	0.7	94.0	2.5	6.3				5YR 6/4

Sample Number	Moisture Content: NA	Moisture: DRY	Moisture: MOIST	Moisture: WET	HCL Reaction: NONE	HCL: WEAK	HCL: STRONG	Tuff Deposition: ASHFALL	Deposition: ASHFLOW	Deposition: REWORKED	Welding: DENSE	Welding: MODERATE	Welding: WEAK	Welding: NONE	Alteration: VITRIC	Alteration: DEVITRIFIED	Alteration: MATRIX	Alteration: VAPOR PHASE	Alteration: SPHERULITIC	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-1050-1055				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1055-1060				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1060-1065				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1065-1070				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1070-1075				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1075-1080				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1080-1085				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1085-1090				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1090-1095				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1095-1100				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1100-1105				✓	✓				✓				✓			✓													✓					✓						✓	
24P-1105-1110				✓	✓				✓				✓			✓													✓					✓						✓	
24P-1110-1115				✓	✓				✓				✓			✓													✓					✓						✓	
24P-1115-1120				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1120-1125				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1125-1130				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1130-1135				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1135-1140				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1140-1145				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1145-1150				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1150-1155				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1155-1160				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1160-1165				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1165-1170				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1170-1175				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1175-1180				✓	✓				✓					✓		✓													✓					✓						✓	

Sample Number	Phenocrysts – Mafics % by Vol.	Mafics Munsell Color Symbol	Mafics Max. Size (mm)	Quartz % by Vol.	Quartz Munsell Color Symbol	Quartz Max. Size (mm)	Feldspar % by Vol.	Feldspar Munsell Color Symbol	Feldspar Max. Size (mm)	Clasts – Pumice % by Vol.	Pumice Munsell Color Symbol	Pumice Max. Size (mm)	Lithics % by Vol.	Lithics Munsell Color Symbol	Lithics Max. Size (mm)
24P-1050-1055	1	5G 2/1	2	2	N8	2				15	5YR 8/4	6	5	N5/N4	3
24P-1055-1060	1	5G 2/1	2	2	N8	2	1	CL	2	5	5YR 8/4	5	5	5YR 4/1	4
24P-1060-1065	2	5G 2/1	2	1	N8	2	1	CL	2	5	5YR 8/4	5	3	5YR 4/1	2
24P-1065-1070	1	5G 2/1	2	1	N8	2				5	5YR 8/4	5	3	10YR 6/6	2
24P-1070-1075	1	5G 2/1	2	1	N8	2				10	10YR 7/4	6	3	10YR 4/2	4
24P-1075-1080	2	5G 2/1	2	1	N8	2				10	10YR 7/4	5	4	5YR 3/4	10
24P-1080-1085	2	5G 2/1	2	1	N8	2				10	10YR 7/4	5	5	10R 4/6 N4 & N2	5
24P-1085-1090	2	5G 2/1	2	1	N8	2				10	5YR 8/4	5	5	10R 4/6 N4 & N2	5
24P-1090-1095	2	5G 2/1	2	1	N8	2				5	5YR 8/4	5	5	10R 4/6 N4 & N2	5
24P-1095-1100	2	5G 2/1	2	1	N8	2				10	5YR 8/4	5	5	10R 4/6 N4 & N2	4
24P-1100-1105	1	N1	1	1	N5	1	1	CL	1	15	10YR 8/2 N1	3	15	N1 & N4	10
24P-1105-1110	2	N1	2	2	N5	2				20	10YR 8/2 N1	5	10	N1 & N4	10
24P-1110-1115	1	N1	1	2	N5	1	1	CL	1	15	10YR 8/2 N1	3	5	N1 & N4	2
24P-1115-1120	1	N1	2	1	N5	1	1	CL	1	20	10YR 8/2 N1	3	5	N1 & N4	3
24P-1120-1125	2	N1	2	1	N5	1	1	CL	1	10	10YR 8/2 N1	3	10	N1 & N4	5
24P-1125-1130	1	N1	2	2	N5	1	1	CL	1	15	10YR 8/2 N1	7	15	N1 & N4	15
24P-1130-1135	2	N1	2	1	N5	1	2	CL	1	20	10YR 8/2 N1	5	20	VARIEGATED	5
24P-1135-1140	1	N1	2	2	N5	2	2	CL	1	20	10YR 8/2 N1	4	15	VARIEGATED	4
24P-1140-1145	1	N1	1	1	N5	1	1	CL	1	15	10YR 8/2 N1	4	20	VARIEGATED	2
24P-1145-1150	1	N1	2	1	N5	1	2	CL	1	15	10YR 8/2 N1	3	15	VARIEGATED	4
24P-1150-1155	1	N1	1	1	N5	1	2	CL	1	10	10YR 8/2 N1	3	10	5YR 4/4 N4	3
24P-1155-1160	1	N1	1	1	N5	1	1	CL	1	10	10YR 8/2 N1	3	5	5YR 4/4 N4	3
24P-1160-1165	1	N1	1	1	N5	1	1	CL	1	10	10YR 8/2 N1	3	10	5YR 4/4 N4	2
24P-1165-1170	1	N1	1	1	N5	1				10	10YR 8/2 N1	2	10	5YR 4/4 N4	5
24P-1170-1175	1	N1	1	1	N5	1				10	10YR 8/2 N1	2	20	5YR 4/4 N4	2
24P-1175-1180	1	N1	1	1	N5	2	1	CL	1	10	10YR 8/2 N1	2	15	5YR 4/4 N4	2

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

Borehole ID: **NC-EWDP-24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
07/30/03	EJH	11/25/03	BW	24P-1180-1185	1180.00	1185.00	1.3	0.6	91.0	2.0	6.3				5YR 6/4
07/30/03	EJH	11/25/03	BW	24P-1185-1190	1185.00	1190.00	1.3	0.6	91.0	2.0	6.3				5YR 6/4
07/30/03	EJH	11/25/03	BW	24P-1190-1195	1190.00	1195.00	1.3	0.6	91.0	2.0	6.3				5YR 6/4
07/30/03	EJH	11/25/03	BW	24P-1195-1200	1195.00	1200.00	1.3	0.6	91.0	2.0	6.3				5YR 6/4
08/05/03	EJH	11/25/03	BW	24P-1200-1205	1200.00	1205.00	1.0	0.7	91.0	1.5	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1205-1210	1205.00	1210.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1210-1215	1210.00	1215.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1215-1220	1215.00	1220.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1220-1225	1220.00	1225.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1225-1230	1225.00	1230.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1230-1235	1230.00	1235.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1235-1240	1235.00	1240.00	1.0	0.7	91.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1240-1245	1240.00	1245.00	1.0	0.6	102.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1245-1250	1245.00	1250.00	1.0	0.6	102.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1250-1255	1250.00	1255.00	1.0	0.6	102.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1255-1260	1255.00	1260.00	1.0	0.6	102.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1260-1265	1260.00	1265.00	1.0	0.8	102.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1265-1270	1265.00	1270.00	1.0	0.8	102.0	2.0	6.3				5YR 7/2
08/05/03	EJH	11/25/03	BW	24P-1270-1275	1270.00	1275.00	1.0	0.8	102.0	2.0	6.3				10YR 7/4
08/05/03	EJH	11/25/03	BW	24P-1275-1280	1275.00	1280.00	1.0	0.8	102.0	2.0	6.3				10YR 7/4
08/05/03	EJH	11/25/03	BW	24P-1280-1285	1280.00	1285.00	1.0	0.7	103.0	2.0	6.3				10YR 7/4
08/05/03	EJH	11/25/03	BW	24P-1285-1290	1285.00	1290.00	1.0	0.7	103.0	2.0	6.3				10YR 7/4
08/05/03	EJH	11/25/03	BW	24P-1290-1295	1290.00	1295.00	1.0	0.7	103.0	2.0	6.3				10YR 7/4
08/05/03	EJH	11/25/03	BW	24P-1295-1300	1295.00	1300.00	1.0	0.7	103.0	2.0	6.3				10YR 7/4
08/05/03	EJH	11/25/03	BW	24P-1300-1305	1300.00	1305.00	1.0	0.6	103.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1305-1310	1305.00	1310.00	1.0	0.6	103.0	2.0	6.3				10YR 5/4

Sample Number	Moisture: NA	DRY	MOIST	WET	HCL Reaction: NONE	WEAK	STRONG	Tuff Deposition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-1180-1185				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1185-1190				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1190-1195				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1195-1200				✔	✔				✔				✔			✔													✔					✔						✔	
24P-1200-1205				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1205-1210				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1210-1215				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1215-1220				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1220-1225				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1225-1230				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1230-1235				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1235-1240				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1240-1245				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1245-1250				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1250-1255				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1255-1260				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1260-1265				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1265-1270				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1270-1275				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1275-1280				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1280-1285				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1285-1290				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1290-1295				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1295-1300				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1300-1305				✔	✔				✔					✔		✔													✔					✔						✔	
24P-1305-1310				✔	✔				✔					✔		✔													✔					✔						✔	

Sample Number	Phenocrysts – Mafics % by Vol.	Munsell Color Symbol	Max. Size (mm)	Quartz % by Vol.	Munsell Color Symbol	Max. Size (mm)	Feldspar % by Vol.	Munsell Color Symbol	Max. Size (mm)	Clasts – Pumice % by Vol.	Munsell Color Symbol	Max. Size (mm)	Lithics % by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-1180-1185	1	N1	1	1	N5	1				20	10YR 8/2 N1	2	15	5YR 4/4 N4	2
24P-1185-1190	1	N1	1	1	N5	1				15	10YR 8/2 N1	3	15	5YR 4/4 N4	10
24P-1190-1195	1	N1	1	1	N5	1	1	CL	1	5	10YR 8/2	2	5	10R 4/6	2
24P-1195-1200	1	N1	1	1	N5	1				5	N9	2	5	5YR 5/6	2
24P-1200-1205	1	N1	1	1	N7	1				1	10YR 8/2	2	5	5YR 4/4	10
24P-1205-1210	1	N1	1							1	10YR 8/2	1	5	N1 5YR 4/4	8
24P-1210-1215	1	N1	1	1	CL	1				1	10YR 8/2	2	3	N1 5YR 4/4	1
24P-1215-1220	1	N1	1	1	N7	1				1	10YR 8/2	1	5	N1 5YR 4/4	1
24P-1220-1225	1	N1	1	1	N7	1				1	10YR 7/4	2	25	N1 5YR 4/4	3
24P-1225-1230										2	10YR 7/4	2	20	N1 5YR 4/4	5
24P-1230-1235	1	N1	1							2	10YR 7/4	2	25	N1 5YR 4/4	3
24P-1235-1240										2	10YR 7/4	2	20	N1 5YR 4/4	4
24P-1240-1245	1	N1	1	1	CL	1				1	5YR 5/6	1	10	N1 5YR 4/4	2
24P-1245-1250										1	5YR 5/6	1	5	N1 5YR 4/4	1
24P-1250-1255	1	N1	1	1	CL	1				1	5YR 5/6	1	15	N1 5YR 4/4	1
24P-1255-1260	1	N1	1	1	CL	1				1	5YR 5/6	1	15	N1 5YR 4/4	2
24P-1260-1265	1	N1	1	1	CL	1				1	5YR 8/4	1	10	N1 5YR 4/4	1
24P-1265-1270	1	N1	1	1	CL	1				1	5YR 8/4	1	10	10Y 5/4	1
24P-1270-1275				1	CL	1							5	5YR 6/4	10
24P-1275-1280	1	N1	1							1	5YR 8/4	2	5	5YR 6/4	2
24P-1280-1285	1	N1	1	1	CL	2				1	5YR 8/4	1	8	VARIEGATED	1
24P-1285-1290	1	N1	1							1	5YR 8/4	2	10	VARIEGATED	1
24P-1290-1295	1	N1	1	1	CL	1				1	5YR 8/4	2	15	VARIEGATED	1
24P-1295-1300										1	5YR 8/4	2	15	5YR 5/6	8
24P-1300-1305	1	N1	1							1	10YR 7/4	2	2	10Y 8/2	1
24P-1305-1310	1	N1	1	1	CL	2				1	10YR 7/4	1	3	10YR 5/4	1

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth From	Depth To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
08/05/03	EJH	11/25/03	BW	24P-1310-1315	1310.00	1315.00	1.0	0.6	103.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1315-1320	1315.00	1320.00	1.0	0.6	103.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1320-1325	1320.00	1325.00	1.0	0.8	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1325-1330	1325.00	1330.00	1.0	0.8	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1330-1335	1330.00	1335.00	1.0	0.8	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1335-1340	1335.00	1340.00	1.0	0.8	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1340-1345	1340.00	1345.00	1.0	0.5	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1345-1350	1345.00	1350.00	1.0	0.5	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1350-1355	1350.00	1355.00	1.0	0.5	106.0	2.0	6.3				10YR 5/4
08/05/03	EJH	11/25/03	BW	24P-1355-1360	1355.00	1360.00	1.0	0.5	106.0	2.0	6.3				10YR 5/4 10R 4/6
08/05/03	EJH	11/25/03	BW	24P-1360-1365	1360.00	1365.00	1.0	0.6	98.0	2.5	6.3				10R 4/6
08/05/03	EJH	11/25/03	BW	24P-1365-1370	1365.00	1370.00	1.0	0.6	98.0	2.5	6.3				10R 4/6 10Y 6/2
08/05/03	EJH	11/25/03	BW	24P-1370-1375	1370.00	1375.00	1.0	0.6	98.0	2.5	6.3				10Y 6/2
08/05/03	EJH	11/25/03	BW	24P-1375-1380	1375.00	1380.00	1.0	0.6	98.0	2.5	6.3				10Y 5/4 10Y 6/2
08/05/03	EJH	11/25/03	BW	24P-1380-1385	1380.00	1385.00	1.0	0.8	98.0	2.0	6.3				10Y 5/4 10Y 6/2
08/05/03	EJH	11/25/03	BW	24P-1385-1390	1385.00	1390.00	1.0	0.8	98.0	2.0	6.3				10Y 5/4 10Y 6/2
08/05/03	EJH	11/25/03	BW	24P-1390-1395	1390.00	1395.00	1.0	0.8	98.0	2.0	6.3				10Y 5/4 10Y 6/2
08/05/03	EJH	11/25/03	BW	24P-1395-1400	1395.00	1400.00	1.0	0.8	98.0	2.0	6.3				10Y 5/4 10Y 6/2
08/06/03	EJH	11/25/03	BW	24P-1400-1405	1400.00	1405.00	1.0	0.8	109.0	2.0	6.3				5Y 3/2 10Y 5/4
08/06/03	EJH	11/25/03	BW	24P-1405-1410	1405.00	1410.00	1.0	0.8	109.0	2.0	6.3				5Y 3/2 10Y 5/4
08/06/03	EJH	11/25/03	BW	24P-1410-1415	1410.00	1415.00	1.0	0.8	109.0	2.0	6.3				5Y 3/2 10Y 5/4
08/06/03	EJH	11/25/03	BW	24P-1415-1420	1415.00	1420.00	1.0	0.8	109.0	2.0	6.3				5Y 3/2 10Y 5/4
08/06/03	EJH	11/25/03	BW	24P-1420-1425	1420.00	1425.00	1.0	0.8	109.0	2.0	6.3				5Y 3/2 10Y 5/4
08/06/03	EJH	11/25/03	BW	24P-1425-1430	1425.00	1430.00	1.0	0.8	109.0	2.5	6.3				10Y 7/4
08/06/03	EJH	11/25/03	BW	24P-1430-1435	1430.00	1435.00	1.0	0.8	109.0	2.5	6.3				5Y 4/4
08/06/03	EJH	11/25/03	BW	24P-1435-1440	1435.00	1440.00	1.0	0.8	109.0	2.0	6.3				n4 5Y 4/4

Sample Number	Moisture Content	HCL Reaction	Tuff Deposition	Tuff Welding	Tuff Alteration	Sedimentary	Carbonate	Other	Weathering	Structure	Matrix
24P-1310-1315	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1315-1320	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1320-1325	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1325-1330	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1330-1335	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1335-1340	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1340-1345	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1345-1350	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1350-1355	Wet	None	Ashflow	None	Devitrified				Fresh	None Observed	Open/Porous
24P-1355-1360	Wet	Strong				Claystone			Decomposed	None Observed	Other
24P-1360-1365	Wet	Strong				Claystone					
24P-1365-1370	Wet	Strong				Sandstone					
24P-1370-1375	Wet	Weak				Sandstone					
24P-1375-1380	Wet	Weak				Sandstone					
24P-1380-1385	Wet	Strong				Sandstone					
24P-1385-1390	Wet	Strong				Sandstone					
24P-1390-1395	Wet	Strong				Sandstone					
24P-1395-1400	Wet	Strong				Sandstone					
24P-1400-1405	Wet	Weak	Reworked	None	Devitrified				Moderate	None Observed	Open/Porous
24P-1405-1410	Wet	None	Reworked	None	Devitrified				Moderate	None Observed	Open/Porous
24P-1410-1415	Wet	None	Reworked	None	Devitrified				Moderate	None Observed	Open/Porous
24P-1415-1420	Wet	None		None		Conglomerate			Moderate	None Observed	Open/Porous
24P-1420-1425	Wet	None	Reworked	None	Devitrified				Moderate	None Observed	Open/Porous
24P-1425-1430	Wet	None	Reworked	None	Devitrified				Moderate	None Observed	Open/Porous
24P-1430-1435	Wet	None		None		Sandstone			Moderate	None Observed	Open/Porous
24P-1435-1440	Wet	None		None		Sandstone			Moderate	None Observed	Open/Porous

Sample Number	Mafics % by Vol.	Mafics Munsell Color Symbol	Mafics Max. Size (mm)	Quartz % by Vol.	Quartz Munsell Color Symbol	Quartz Max. Size (mm)	Feldspar % by Vol.	Feldspar Munsell Color Symbol	Feldspar Max. Size (mm)	Pumice % by Vol.	Pumice Munsell Color Symbol	Pumice Max. Size (mm)	Lithics % by Vol.	Lithics Munsell Color Symbol	Lithics Max. Size (mm)
24P-1310-1315	1	N1	1										4	N1	1
24P-1315-1320	1	N1	1							1	10YR 8/6	2	5	N5	1
24P-1320-1325	1	N1	1	1	N7	1				1	5Y 8/1 5Y 8/4	2	8	VARIEGATED	2
24P-1325-1330	1	N1	1							1	5Y 8/1 5Y 8/4	2	8	VARIEGATED	1
24P-1330-1335	1	N1	1							1	5Y 8/1 5Y 8/4	2	8	VARIEGATED	1
24P-1335-1340	1	N1	1	1	N7	1							5	VARIEGATED	2
24P-1340-1345	1	N1	1	1	N7	1				1	5Y 8/1	3	2	N7 & N1	1
24P-1345-1350	1	N1	1	1	N7	1				1	5Y 8/1	2	2	N7 & N1	1
24P-1350-1355	1	N1	1							1	5Y 8/1	2			
24P-1355-1360															
24P-1360-1365															
24P-1365-1370	1	N1	1												
24P-1370-1375	1	N1	1												
24P-1375-1380	1	N1	1												
24P-1380-1385	1	N1	1							1	5Y 8/1	2			
24P-1385-1390	1	N1	1												
24P-1390-1395	1	N1	1												
24P-1395-1400	1	N1	1										2	10YR 5/4	6
24P-1400-1405	1	N1	1	10	N8	1	1	CL	1	2	10Y 6/6	2	3	5YR 4/4	10
24P-1405-1410	1	N1	1	10	N8	2				3	10Y 6/6	2	2	5YR 5/2	4
24P-1410-1415	1	N1	1	10	N8	1				1	10Y 6/6	2	4	10YR 6/2	5
24P-1415-1420	1	N1	1	10	N8	1	1	CL	1	2	10Y 6/6	2	3	10YR 6/2	2
24P-1420-1425	1	N1	1	10	N8	1				2	10Y 6/6	2	10	N5 & N7	4
24P-1425-1430	1	N1	1	10	N8	1				1	10Y 6/6	2	5	N5	3
24P-1430-1435	1	N1	1	10	N8	1				2	10Y 6/6	2	10	N5	2
24P-1435-1440	1	N1	1	10	N8	1				2	10Y 6/6	3	20	N5 & N7	2

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

Borehole ID: **NC-EWDP-24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged		Checked		Sample Number	Depth Interval (feet/bgs)		Drilling/Coring Data				Sample Density Data				Munsell Color Symbol	Moisture Content				HCL Reaction			Rock Unit: Tuff									Rock Unit: Sedimentary								Rock Unit: Carbonate			Rock Unit: Other	Weathering					Structure				Matrix		Phenocrysts									Clasts					
																							Tuff									Sedimentary								Carbonate																															
																							Deposition			Welding		Alteration																																										
Date	By	Date	By		From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		NA	DRY	MOIST	WET	NONE	WEAK	STRONG	ASH FALL	ASH FLOW	REWORKED	DENSE	MODERATE	WEAK	NONE	VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	LIMESTONE	DOLOMITE	OTHER	FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	NONE OBSERVED	STRAIFIED	LAMINATED	FRACTURED	OTHER	DENSE/NONPOROUS	OPEN/POROUS	OTHER	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)
08/06/03	EJH	11/25/03	BW	24P-1440-1445	1440.00	1445.00	1.0	0.7	110.0	2.0	6.3				n4 5Y 4/4				✓	✓								✓									✓								✓			✓					✓		2	N1	1										50	N5 5YR 2/1	11
08/06/03	EJH	11/25/03	BW	24P-1445-1450	1445.00	1450.00	1.0	0.7	110.0	2.0	6.3				n4 5Y 4/4				✓	✓								✓								✓								✓			✓					✓		1	N1	1										30	N5 5YR 2/1	4
08/06/03	EJH	11/25/03	BW	24P-1450-1455	1450.00	1455.00	1.0	0.7	110.0	2.0	6.3				n4 5Y 4/4				✓	✓			✓					✓		✓																✓			✓					✓		2	N1	1	2	N8	4	1	CL	2	2	10Y 6/6	2	20	N5 5YR 2/1	5
08/06/03	EJH	11/25/03	BW	24P-1455-1460	1455.00	1460.00	1.0	0.7	110.0	2.5	6.3				10YR 6/6				✓	✓								✓									✓								✓			✓					✓		1	N1	1										50	N5 5YR 2/1	10
08/06/03	EJH	11/25/03	BW	24P-1460-1465	1460.00	1465.00	1.0	0.8	110.0	2.5	6.3				10YR 6/6				✓	✓								✓									✓								✓			✓					✓		1	N1	1								10	5Y 8/4	2	10	N5 5YR 2/1	12
08/06/03	EJH	11/25/03	BW	24P-1465-1470	1465.00	1470.00	1.0	0.8	110.0	2.5	6.3				10YR 6/6				✓	✓								✓									✓								✓			✓					✓		1	N1	1								8	5Y 8/4	2	10	N5 5YR 2/1	6
08/06/03	EJH	11/25/03	BW	24P-1470-1475	1470.00	1475.00	1.0	0.8	110.0	2.5	6.3				10YR 6/6				✓	✓								✓									✓								✓			✓					✓		1	N1	1								10	5Y 8/4	2	20	N5 5YR 2/1	7
08/06/03	EJH	11/25/03	BW	24P-1475-1480	1475.00	1480.00	1.0	0.8	110.0	3.0	6.3				10YR 6/6				✓	✓								✓									✓								✓			✓					✓		1	N1	1								10	5Y 8/4	3	10	N4 10R 4/6	20
08/06/03	EJH	11/25/03	BW	24P-1480-1485	1480.00	1485.00	1.0	1.1	122.0	2.0	6.3				10YR 6/6 10R 4/6				✓	✓			✓					✓		✓														✓			✓					✓		1	N1	1								10	5Y 8/4	2	5	5YR 4/4	5
08/06/03	EJH	11/25/03	BW	24P-1485-1490	1485.00	1490.00	1.0	1.1	122.0	2.5	6.3				10R 4/6				✓	✓			✓					✓		✓														✓			✓					✓		1	N1	2	1	N8	1				10	5Y 8/4	4	5	5YR 4/4	6
08/06/03	EJH	11/25/03	BW	24P-1490-1495	1490.00	1495.00	1.0	1.1	122.0	2.0	6.3				10R 4/6 10YR 6/6				✓	✓			✓					✓		✓														✓			✓					✓		1	N1	1								15	5Y 8/4	5			
08/06/03	EJH	11/25/03	BW	24P-1495-1500	1495.00	1500.00	1.0	1.1	122.0	3.0	6.3				10R 4/6 5YR 5/6				✓	✓			✓					✓		✓														✓			✓					✓		1	N1	1	1	N8	1				20	5Y 8/4	4	5	5YR 5/2	6
08/06/03	EJH	11/25/03	BW	24P-1500-1505	1500.00	1505.00	1.0	0.6	122.0	3.0	6.3				10YR 6/6				✓	✓			✓					✓		✓														✓			✓					✓		2	N1	2	3	N7	1				10	10Y 8/2	5	5	N4 5YR 5/2	3
08/06/03	EJH	11/25/03	BW	24P-1505-1510	1505.00	1510.00	1.0	0.6	122.0	2.0	6.3				10YR 6/6 5YR 3/2				✓	✓			✓					✓		✓													✓			✓					✓		3	N1	1	1	CL	1				10	10Y 8/2	3	5	N4 5YR 5/2	4
08/06/03	EJH	11/25/03	BW	24P-1510-1515	1510.00	1515.00	1.0	0.6	122.0	2.5	6.3				10YR 6/6 10YR 5/4				✓	✓			✓					✓		✓													✓			✓					✓		3	N1	1	1	CL	1	1	CL	1	5	10Y 8/2	4	5	N4 5YR 5/2	4
08/06/03	EJH	11/25/03	BW	24P-1515-1520	1515.00	1520.00	1.0	0.6	122.0	2.5	6.3				10YR 6/6 10YR 5/4				✓	✓			✓					✓		✓													✓			✓					✓		4	N1	2	3	N7	1				10	10Y 8/2	3	5	N4 5YR 5/2	10
08/06/03	EJH	11/25/03	BW	24P-1520-1525	1520.00	1525.00	1.0	0.7	114.0	2.5	6.3				10YR 6/6				✓	✓			✓					✓		✓													✓			✓					✓		2	N1	1	1	N7	1				5	10Y 8/2	2	20	N4	2
08/06/03	EJH	11/25/03	BW	24P-1525-1530	1525.00	1530.00	1.0	0.7	114.0	2.5	6.3				10YR 6/6				✓	✓			✓					✓		✓													✓			✓					✓					1	N7	1				8	10Y 8/2	3	15	N4	4
08/06/03	EJH	11/25/03	BW	24P-1530-1535	1530.00	1535.00	1.0	0.7	114.0	2.5	6.3				10YR 6/6				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1	1	N7	1				10	10Y 8/2	4	10	N4	4
08/06/03	EJH	11/25/03	BW	24P-1535-1540	1535.00	1540.00	1.0	0.7	114.0	2.5	6.3				10YR 6/6				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1	1	N7	1				8	10Y 8/2	3	20	N4 & N5	4
08/06/03	EJH	11/25/03	BW	24P-1540-1545	1540.00	1545.00	1.0	0.8	114.0	2.5	6.3				5YR 4/4				✓	✓			✓					✓		✓													✓			✓					✓		3	N1	1	1	N7	1	1	CL	1	4	10Y 8/2	4	15	N4 & N5	3
08/06/03	EJH	11/25/03	BW	24P-1545-1550	1545.00	1550.00	1.0	0.8	114.0	2.5	6.3				5YR 4/6				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1	1	N7	1				3	10Y 8/2	3	15	N4 & N5	3
08/06/03	EJH	11/25/03	BW	24P-1550-1555	1550.00	1555.00	1.0	0.8	114.0	2.5	6.3				5YR 4/6				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1								5	10Y 8/2	3	5	N4 & N5	2
08/06/03	EJH	11/25/03	BW	24P-1555-1560	1555.00	1560.00	1.0	0.8	114.0	2.5	6.3				5YR 4/6				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1	1	N7	1				1	10Y 8/2	2	4	N4 & N5	9
08/06/03	EJH	11/25/03	BW	24P-1560-1565	1560.00	1565.00	1.0	0.7	109.0	2.5	6.3				5YR 4/6				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1	1	N7	2	1	CL	1	1	N9	2	4	N5	10
08/06/03	EJH	11/25/03	BW	24P-1565-1570	1565.00	1570.00	1.0	0.7	109.0	2.5	6.3				10R 3/4				✓	✓			✓					✓		✓													✓			✓					✓		1	N1	1	1	N7	2				4	10Y 8/2	2	5	N5	4

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged		Checked		Sample Number	Depth Interval (feet/bgs)		Drilling/Coring Data				Sample Density Data				Munsell Color Symbol
Date	By	Date	By		From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	
08/06/03	EJH	11/25/03	BW	24P-1570-1575	1570.00	1575.00	1.0	0.7	109.0	2.5	6.3				5YR 4/6
08/06/03	EJH	11/25/03	BW	24P-1575-1580	1575.00	1580.00	1.0	0.7	109.0	2.0	6.3				5YR 4/6
08/06/03	EJH	11/25/03	BW	24P-1580-1585	1580.00	1585.00	1.0	0.6	109.0	2.0	6.3				10R 3/4
08/06/03	EJH	11/25/03	BW	24P-1585-1590	1585.00	1590.00	1.0	0.6	109.0	2.0	6.3				5YR 4/6
08/06/03	EJH	11/25/03	BW	24P-1590-1595	1590.00	1595.00	1.0	0.6	109.0	2.0	6.3				5YR 4/6 5YR 5/6
08/06/03	EJH	11/25/03	BW	24P-1595-1600	1595.00	1600.00	1.0	0.6	109.0	3.0	6.3				5R 5/4
08/06/03	EJH	11/25/03	BW	24P-1600-1605	1600.00	1605.00	1.0	0.7	114.0	2.0	6.3				5YR 5/6
08/06/03	EJH	11/25/03	BW	24P-1605-1610	1605.00	1610.00	1.0	0.7	114.0	2.5	6.3				5YR 5/6
08/06/03	EJH	11/25/03	BW	24P-1610-1615	1610.00	1615.00	1.0	0.7	114.0	2.0	6.3				5YR 6/4
08/06/03	EJH	11/25/03	BW	24P-1615-1620	1615.00	1620.00	1.0	0.7	114.0	2.0	6.3				5YR 6/4
08/06/03	EJH	11/25/03	BW	24P-1620-1625	1620.00	1625.00	1.0	0.7	114.0	2.0	6.3				5YR 6/4
08/06/03	EJH	11/25/03	BW	24P-1625-1630	1625.00	1630.00	1.0	0.7	114.0	2.0	6.3				10YR 8/2 5YR 4/4
08/06/03	EJH	11/25/03	BW	24P-1630-1635	1630.00	1635.00	1.0	0.7	114.0	2.0	6.3				10YR 8/2 5YR 4/4
08/06/03	EJH	11/25/03	BW	24P-1635-1640	1635.00	1640.00	1.0	0.7	114.0	2.0	6.3				10YR 8/2 5YR 4/4
08/06/03	EJH	11/25/03	BW	24P-1640-1645	1640.00	1645.00	1.0	0.8	104.0	2.0	6.3				10YR 8/2 5YR 4/4
08/06/03	EJH	11/25/03	BW	24P-1645-1650	1645.00	1650.00	1.0	0.8	104.0	2.0	6.3				10YR 8/2 5YR 4/4
08/06/03	EJH	11/25/03	BW	24P-1650-1655	1650.00	1655.00	1.0	0.8	104.0	2.0	6.3				10YR 8/2 5YR 4/4
08/06/03	EJH	11/25/03	BW	24P-1655-1660	1655.00	1660.00	1.0	0.8	104.0	2.0	6.3				10R 6/2
08/06/03	EJH	11/25/03	BW	24P-1660-1665	1660.00	1665.00	1.0	1.2	104.0	2.0	6.3				n3 10R 2/2
08/06/03	EJH	11/25/03	BW	24P-1665-1670	1665.00	1670.00	1.0	1.2	104.0	2.0	6.3				10R 2/2
08/06/03	EJH	11/25/03	BW	24P-1670-1675	1670.00	1675.00	1.0	1.2	104.0	2.0	6.3				10Y 4/2 5R 7/4
08/06/03	EJH	11/25/03	BW	24P-1675-1680	1675.00	1680.00	1.0	1.2	104.0	2.0	6.3				10R 2/2 5R 7/4
08/07/03	EJH	11/25/03	BW	24P-1680-1685	1680.00	1685.00	1.0	0.7	125.0	1.5	6.3				10R 2/2 5R 7/4
08/07/03	EJH	11/25/03	BW	24P-1685-1690	1685.00	1690.00	1.0	0.7	125.0	2.0	6.3				10R 2/2 5R 7/4
08/07/03	EJH	11/25/03	BW	24P-1690-1695	1690.00	1695.00	1.0	0.7	125.0	2.0	6.3				10R 2/2 5R 7/4
08/07/03	EJH	11/25/03	BW	24P-1695-1700	1695.00	1700.00	1.0	0.7	125.0	2.0	6.3				10R 2/2 5R 7/4

Sample Number	Moisture Content				HCL Reaction			Rock Unit – Tuff – Deposition			Welding				Alteration					Sedimentary						Carbonate		OTHER	Weathering					Structure					Matrix		
	NA	DRY	MOIST	WET	NONE	WEAK	STRONG	ASHFALL	ASHFLOW	REWORKED	DENSE	MODERATE	WEAK	NONE	VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	LIMESTONE	DOLOMITE		FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-1570-1575				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1575-1580				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1580-1585				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1585-1590				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1590-1595				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1595-1600				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1600-1605				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1605-1610				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1610-1615				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1615-1620				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1620-1625				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1625-1630				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1630-1635				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1635-1640				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1640-1645				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1645-1650				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1650-1655				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1655-1660				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1660-1665				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1665-1670				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1670-1675				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1675-1680				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1680-1685				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1685-1690				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1690-1695				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1695-1700				✓	✓				✓					✓		✓													✓						✓					✓	

Sample Number	Phenocrysts – Mafics			Quartz			Feldspar			Clasts – Pumice			Lithics		
	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-1570-1575	2	N1	1	1	N7	2				2	10Y 8/2	2	6	N5	3
24P-1575-1580	1	N1	1	2	N7 & CL	1				2	10Y 8/2	2	2	N5	2
24P-1580-1585	1	N1	1	1	N7	1				2	10Y 8/2	2	1	N5	2
24P-1585-1590	1	N1	1	1	N7	1	1	CL	0.5	5	10Y 8/2	3	5	N5 & N2	12
24P-1590-1595	1	N1	1	1	N7	1	1	CL	0.5	10	5GY 7/4	4	10	N5	8
24P-1595-1600	1	N1	1	1	N7	1	1	CL	0.5	10	5GY 7/4	4	5	N5	10
24P-1600-1605	1	N1	1	1	N7	1	1	CL	1	3	10Y 7/4	3	20	N6	10
24P-1605-1610	1	N1	1							5	10Y 7/4	4	40	10R 4/6	12
24P-1610-1615	2	N1	1							3	10Y 7/4	3	15	N3	6
24P-1615-1620	1	N1	1							2	10Y 7/4	2	18	N3 & N6	10
24P-1620-1625	2	N1	1	2	CL	1				1	10Y 7/4	2	25	N3 & N6	10
24P-1625-1630	1	N1	1	1	N8	1				3	10Y 7/4	2	15	N3 & N6	6
24P-1630-1635	1	N1	1	1	N8	1				2	10Y 7/4	2	10	N3 & N6	10
24P-1635-1640	1	N1	1	1	N8	1				3	10Y 7/4	2	20	N3 & N6	8
24P-1640-1645	1	N1	1	2	N8	0.5				1	10Y 7/4	2	50	N3 & N6	8
24P-1645-1650	1	N1	1	1	N8	1	1	CL	1	1	10Y 7/4	1	30	N3 & N6	5
24P-1650-1655	1	N1	1							1	10Y 7/4	2	30	N3 & N6	5
24P-1655-1660	1	N1	1	5	N8	1	1	CL	1	1	10Y 7/4	2	20	N3 & N6	10
24P-1660-1665	1	N1	1	1	N7	2				1	10Y 7/4	2	30	5YR 3/4	5
24P-1665-1670	1	N1	1							1	10Y 7/4	4	50	5YR 3/4	6
24P-1670-1675	1	N1	1										40	5YR 3/4	6
24P-1675-1680	1	N1	1	1	N8	1	1	CL	1	1	10Y 7/4	3	40	5YR 3/4	5
24P-1680-1685	1	N1	1	1	N8	1				1	10Y 7/4	2	20	5YR 3/4 N6	10
24P-1685-1690	1	N1	1	2	CL	2	1	CL	1	1	10Y 7/4	1	30	5YR 3/4 N6	10
24P-1690-1695	1	N1	1	2	CL	1				1	10Y 7/4	1	20	5YR 3/4 N6	7
24P-1695-1700	1	N1	1	2	CL	1	1	CL	1	1	10Y 7/4	2	15	5YR 3/4 N6	5

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

Borehole ID: **NC-EWDP-24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged		Checked		Sample Number	Depth Interval (feet/bgs)		Drilling/Coring Data				Sample Density Data				Munsell Color Symbol
Date	By	Date	By		From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	
08/07/03	EJH	11/25/03	BW	24P-1700-1705	1700.00	1705.00	1.0	0.6	125.0	2.0	6.3				10R 7/4 5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1705-1710	1705.00	1710.00	1.0	0.6	125.0	2.0	6.3				10R 7/4 5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1710-1715	1710.00	1715.00	1.0	0.6	125.0	2.0	6.3				10R 7/4 5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1715-1720	1715.00	1720.00	1.0	0.6	125.0	2.0	6.3				10R 7/4 5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1720-1725	1720.00	1725.00	1.0	0.6	117.0	2.0	6.3				5YR 6/4
08/07/03	EJH	11/25/03	BW	24P-1725-1730	1725.00	1730.00	1.0	0.6	117.0	2.5	6.3				5YR 6/4
08/07/03	EJH	11/25/03	BW	24P-1730-1735	1730.00	1735.00	1.0	0.6	117.0	2.5	6.3				5YR 6/4
08/07/03	EJH	11/25/03	BW	24P-1735-1740	1735.00	1740.00	1.0	0.6	117.0	2.0	6.3				5YR 3/2
08/07/03	EJH	11/25/03	BW	24P-1740-1745	1740.00	1745.00	1.0	0.5	117.0	2.0	6.3				10YR 5/4
08/07/03	EJH	11/25/03	BW	24P-1745-1750	1745.00	1750.00	1.0	0.5	117.0	2.5	6.3				10R 3/4
08/07/03	EJH	11/25/03	BW	24P-1750-1755	1750.00	1755.00	1.0	0.5	117.0	2.0	6.3				10R 3/4
08/07/03	EJH	11/25/03	BW	24P-1755-1760	1755.00	1760.00	1.0	0.5	117.0	2.5	6.3				10R 3/4
08/07/03	EJH	11/25/03	BW	24P-1760-1765	1760.00	1765.00	1.0	0.4	116.0	2.5	6.3				10R 3/4
08/07/03	EJH	11/25/03	BW	24P-1765-1770	1765.00	1770.00	1.0	0.4	116.0	2.5	6.3				10R 3/4
08/07/03	EJH	11/25/03	BW	24P-1770-1775	1770.00	1775.00	1.0	0.4	116.0	2.0	6.3				10R 3/4
08/07/03	EJH	11/25/03	BW	24P-1775-1780	1775.00	1780.00	1.0	0.4	116.0	2.5	6.3				10R 4/6
08/07/03	EJH	11/25/03	BW	24P-1780-1785	1780.00	1785.00	1.0	0.4	116.0	2.0	6.3				10R 4/6
08/07/03	EJH	11/25/03	BW	24P-1785-1790	1785.00	1790.00	1.0	0.4	116.0	2.0	6.3				10R 4/6
08/07/03	EJH	11/25/03	BW	24P-1790-1795	1790.00	1795.00	1.0	0.4	116.0	3.0	6.3				10R 4/6
08/07/03	EJH	11/25/03	BW	24P-1795-1800	1795.00	1800.00	1.0	0.4	116.0	3.0	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1800-1805	1800.00	1805.00	1.0	0.4	115.0	1.5	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1805-1810	1805.00	1810.00	1.0	0.4	115.0	2.5	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1810-1815	1810.00	1815.00	1.0	0.4	115.0	2.5	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1815-1820	1815.00	1820.00	1.0	0.4	115.0	2.5	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1820-1825	1820.00	1825.00	1.0	0.3	115.0	3.0	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1825-1830	1825.00	1830.00	1.0	0.3	115.0	2.5	6.3				5YR 3/4

Sample Number	Moisture Content				HCL Reaction			Rock Unit: Tuff – Deposition			Welding				Alteration					Sedimentary						Carbonate		Other	Weathering					Structure					Matrix		
	NA	DRY	MOIST	WET	NONE	WEAK	STRONG	ASHFALL	ASHFLOW	REWORKED	DENSE	MODERATE	WEAK	NONE	VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	LIMESTONE	DOLOMITE	OTHER	FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-1700-1705				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1705-1710				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1710-1715				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1715-1720				✓	✓				✓					✓		✓													✓					✓						✓	
24P-1720-1725				✓	✓																		✓											✓						✓	
24P-1725-1730				✓	✓																		✓											✓							✓
24P-1730-1735				✓		✓																	✓											✓							✓
24P-1735-1740				✓			✓																✓												✓						
24P-1740-1745				✓			✓													✓															✓						
24P-1745-1750				✓			✓															✓													✓						
24P-1750-1755				✓		✓																✓													✓						
24P-1755-1760				✓		✓																✓													✓						
24P-1760-1765				✓			✓															✓													✓						
24P-1765-1770				✓		✓																✓													✓						
24P-1770-1775				✓		✓																✓													✓						
24P-1775-1780				✓		✓																✓													✓						
24P-1780-1785				✓		✓																✓													✓						
24P-1785-1790				✓		✓																✓													✓						
24P-1790-1795				✓		✓																✓													✓						
24P-1795-1800				✓		✓																✓													✓						
24P-1800-1805				✓		✓																✓													✓						
24P-1805-1810				✓		✓																✓													✓						
24P-1810-1815				✓			✓															✓													✓						
24P-1815-1820				✓			✓															✓													✓						
24P-1820-1825				✓			✓															✓													✓						
24P-1825-1830				✓			✓															✓													✓						

Sample Number	Phenocrysts: Mafics			Quartz			Feldspar			Clasts: Pumice			Lithics		
	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)	% by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-1700-1705	1	N1	1	5	CL	2	1	CL	1	1	10Y 8/2	2	30	5YR 3/4	8
24P-1705-1710	1	N1	1	5	CL	1	1	CL	1	1	10Y 8/2	1	25	5YR 3/4	10
24P-1710-1715	1	N1	1	5	CL	1				1	10Y 8/2	1	30	5YR 3/4	5
24P-1715-1720	1	N1	1	4	CL	1				1	10Y 8/2	1	25	5YR 3/4	5
24P-1720-1725	1	N1	1	3	N7	1							20	5YR 3/4	5
24P-1725-1730	1	N1	1	4	N7	1									
24P-1730-1735	1	N1	1	5	N7	1									
24P-1735-1740															
24P-1740-1745													10	5YR 3/2	5
24P-1745-1750															
24P-1750-1755															
24P-1755-1760															
24P-1760-1765															
24P-1765-1770															
24P-1770-1775															
24P-1775-1780															
24P-1780-1785															
24P-1785-1790															
24P-1790-1795															
24P-1795-1800															
24P-1800-1805															
24P-1805-1810															
24P-1810-1815															
24P-1815-1820															
24P-1820-1825															
24P-1825-1830															

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

Borehole ID: **NC-EWDP- 24P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 400 to 1860 Start Date: 7/27/2003 End Date: 8/7/2003

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth Interval (feet/bgs) From	Depth Interval (feet/bgs) To	Drilling/Coring Data: Liquid Drilling Fluid Injection Rate (gpm)	Drillng / Coring Rate (ft/min)	Water Production (gpm)	Sample Recovery (gal)	Sample Density Data: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
08/07/03	EJH	11/25/03	BW	24P-1830-1835	1830.00	1835.00	1.0	0.3	115.0	2.5	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1835-1840	1835.00	1840.00	1.0	0.3	115.0	2.5	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1840-1845	1840.00	1845.00	1.0	0.5	115.0	2.0	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1845-1850	1845.00	1850.00	1.0	0.5	115.0	2.0	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1850-1855	1850.00	1855.00	1.0	0.5	115.0	2.0	6.3				5YR 3/4
08/07/03	EJH	11/25/03	BW	24P-1855-1860	1855.00	1860.00	1.0	0.5	115.0	2.5	6.3				5YR 3/4

Sample Number	Moisture Content: NA	DRY	MOIST	WET	HCL Reaction: NONE	WEAK	STRONG	Rock Unit – Tuff – Deposition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Carbonate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
24P-1830-1835				✔			✔															✔													✔						
24P-1835-1840				✔			✔															✔													✔						
24P-1840-1845				✔			✔															✔													✔						
24P-1845-1850				✔			✔															✔													✔						
24P-1850-1855				✔			✔															✔													✔						
24P-1855-1860				✔			✔															✔													✔						

Sample Number	Phenocrysts – Mafics: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Quartz: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Feldspar: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Clasts – Pumice: % by Vol.	Munsell Color Symbol	Max. Size (mm)	Lithics: % by Vol.	Munsell Color Symbol	Max. Size (mm)
24P-1830-1835															
24P-1835-1840															
24P-1840-1845															
24P-1845-1850															
24P-1850-1855															
24P-1855-1860															