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

Borehole ID: **NC-EWDP-28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
10/23/02	BW	11/24/02	EJH	BCS00040996	240.00	242.50	0.0	1.6	0.0	2.0	6.5	0.85	8.65	7.80	N7
10/23/02	BW	11/24/02	EJH	BCS00040997	242.50	245.00	0.0	1.6	0.0	1.5	6.5	0.85	7.35	6.50	10R 2/2
10/23/02	BW	11/24/02	EJH	BCS00040998	245.00	247.50	0.0	1.6	0.0	1.5	6.5	0.85	7.25	6.40	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00040999	247.50	250.00	0.0	1.6	0.0	2.5	6.5	0.85	10.45	9.60	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041000	250.00	252.50	0.0	1.6	0.0	2.5	6.5	0.85	10.70	9.85	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041001	252.50	255.00	0.0	1.6	0.0	2.0	6.5	0.85	8.75	7.90	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041002	255.00	257.50	0.0	1.6	0.0	2.5	6.5	0.85	9.95	9.10	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041003	257.50	260.00	0.0	1.6	0.0	2.5	6.5	0.85	10.25	9.40	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041004	260.00	262.50	0.0	1.4	0.0	2.0	6.5	0.85	7.65	6.80	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041005	262.50	265.00	0.0	1.4	0.0	2.5	6.5	0.85	11.45	10.60	10YR 7/4
10/23/02	BW	11/24/02	EJH	BCS00041006	265.00	267.50	0.0	1.4	0.0	2.0	6.5	0.85	9.35	8.50	10YR 8/2
10/23/02	BW	11/24/02	EJH	BCS00041007	267.50	270.00	0.0	1.4	0.0	2.5	6.5	0.85	10.60	9.75	10YR 8/2
10/23/02	BW	11/24/02	EJH	BCS00041008	270.00	272.50	0.0	1.4	0.0	2.5	6.5	0.85	11.40	10.55	N7
10/23/02	BW	11/24/02	EJH	BCS00041009	272.50	275.00	0.0	1.4	0.0	2.5	6.5	0.85	11.80	10.95	N7
10/23/02	BW	11/24/02	EJH	BCS00041010	275.00	277.50	0.0	1.4	0.0	2.5	6.5	0.85	11.60	10.75	5YR 6/1
10/23/02	BW	11/24/02	EJH	BCS00041011	277.50	280.00	0.0	1.4	0.0	2.5	6.5	0.85	10.70	9.85	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041012	280.00	282.50	0.0	1.6	0.0	2.0	6.5	0.85	9.75	8.90	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041013	282.50	285.00	0.0	1.6	0.0	2.0	6.5	0.85	9.30	8.45	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041014	285.00	290.00	0.0	1.6	0.0	5.0	6.5	0.85	24.70	23.85	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041015	290.00	295.00	0.0	1.6	0.0	5.0	6.5	0.85	23.45	22.60	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041016	295.00	300.00	0.0	1.6	0.0	5.0	6.5	0.85	25.25	24.40	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041017	300.00	305.00	0.0	0.5	0.0	4.0	6.5	0.85	19.05	18.20	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041018	305.00	310.00	0.0	0.5	0.0	5.0	6.5	0.85	27.10	26.25	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041019	310.00	315.00	0.0	0.5	0.0	5.0	6.5	0.85	21.00	20.15	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041020	315.00	320.00	0.0	0.5	0.0	5.0	6.5	0.85	19.60	18.75	5YR 8/1
10/23/02	BW	11/24/02	EJH	BCS00041021	320.00	325.00	6.5	1.6	0.0	5.0	6.5	0.85	24.85	24.00	10YR 6/2

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
BCS00040996		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00040997		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00040998		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00040999		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041000		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041001		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041002		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041003		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041004		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041005		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041006		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041007		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041008		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041009		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041010		✓				✓			✓					✓	✓																✓			✓						✓	
BCS00041011		✓				✓			✓					✓	✓															✓				✓						✓	
BCS00041012		✓				✓			✓					✓	✓															✓				✓						✓	
BCS00041013		✓				✓			✓					✓	✓														✓					✓						✓	
BCS00041014		✓				✓			✓					✓	✓														✓					✓						✓	
BCS00041015		✓				✓			✓					✓	✓														✓					✓						✓	
BCS00041016		✓				✓			✓					✓	✓														✓					✓						✓	
BCS00041017		✓			✓				✓				✓			✓													✓					✓						✓	
BCS00041018		✓				✓			✓				✓			✓													✓					✓						✓	
BCS00041019		✓			✓				✓				✓			✓													✓					✓						✓	
BCS00041020		✓			✓				✓				✓			✓													✓					✓						✓	
BCS00041021				✓	✓				✓				✓			✓													✓					✓						✓	

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)
BCS00040996	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00040997	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00040998	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00040999	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041000	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041001	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041002	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041003	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041004	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041005	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041006	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041007	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041008	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041009	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041010	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041011	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041012	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041013	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041014	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041015	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041016	1	N1	1	5	N8	5	10	COLOR LESS	5	10	5YR 8/1	10	1	10R 3/2	10
BCS00041017	1	N1	1	5	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041018	1	N1	1	5	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041019	1	N1	1	5	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041020	1	N1	1	5	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041021	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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)	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
10/23/02	BW	11/24/02	EJH	BCS00041022	325.00	330.00	6.5	1.6	0.0	8.0	6.5	0.85	49.75	48.90	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041023	330.00	335.00	6.5	1.6	0.0	9.0	6.5	0.85	50.45	49.60	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041024	335.00	340.00	6.5	1.6	0.0	10.0	6.5	0.85	56.10	55.25	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041025	340.00	345.00	6.5	1.8	0.0	5.0	6.5	0.85	29.90	29.05	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041026	345.00	350.00	6.5	1.8	0.0	5.0	6.5	0.85	29.55	28.70	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041027	350.00	355.00	6.5	1.8	0.0	5.0	6.5	0.85	26.45	25.60	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041028	355.00	360.00	6.5	1.8	0.0	5.0	6.5	0.85	28.80	27.95	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041029	360.00	365.00	6.5	1.4	0.0	4.0	6.5	0.85	18.35	17.50	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041030	365.00	370.00	6.5	1.4	0.0	4.0	6.5	0.85	20.80	19.95	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041031	370.00	375.00	6.5	1.4	0.0	4.0	6.5	0.85	17.35	16.50	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041032	375.00	380.00	6.5	1.4	0.0	4.0	6.5	0.85	17.50	16.65	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041033	380.00	385.00	0.0	1.1	0.0	5.0	6.5	0.85	24.30	23.45	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041034	385.00	390.00	0.0	1.1	0.0	7.0	6.5	0.85	31.85	31.00	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041035	390.00	395.00	0.0	1.1	0.0	8.0	6.5	0.85	36.00	35.15	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041036	395.00	400.00	0.0	1.1	0.0	7.0	6.5	0.85	32.15	31.30	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041037	400.00	405.00	0.0	1.8	0.0	2.5	6.5	0.85	11.15	10.30	10YR 6/2
10/23/02	BW	11/24/02	EJH	BCS00041038	405.00	410.00	0.0	1.8	0.0	1.5	6.5	0.85	6.95	6.10	10YR 6/6
10/23/02	BW	11/24/02	EJH	BCS00041039	410.00	415.00	0.0	1.8	0.0	1.5	6.5	0.85	8.20	7.35	10YR 6/6
10/23/02	BW	11/24/02	EJH	BCS00041040	415.00	420.00	0.0	1.8	0.0	9.0	6.5	0.85	58.60	57.75	5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041041	420.00	425.00	2.5	1.8	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041042	425.00	430.00	2.5	1.8	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041043	430.00	435.00	2.5	1.8	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041044	435.00	440.00	2.5	1.8	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041045	440.00	445.00	2.5	1.3	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041046	445.00	450.00	2.5	1.3	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041047	450.00	455.00	2.5	1.3	1.5		6.5				5YR 6/4

Sample Number	Moisture Content: NA	Moisture Content: DRY	Moisture Content: MOIST	Moisture Content: WET	HCL Reaction: NONE	HCL Reaction: WEAK	HCL Reaction: STRONG	Tuff Deposition: ASHFALL	Tuff Deposition: ASHFLOW	Tuff Deposition: REWORKED	Tuff Welding: DENSE	Tuff Welding: MODERATE	Tuff Welding: WEAK	Tuff Welding: NONE	Tuff Alteration: VITRIC	Tuff Alteration: DEVITRIFIED	Tuff Alteration: MATRIX	Tuff Alteration: VAPOR PHASE	Tuff Alteration: SPHERULITIC	Sedimentary: CLAYSTONE	Sedimentary: MUDSTONE	Sedimentary: SILTSTONE	Sedimentary: SANDSTONE	Sedimentary: CONGLOMERATE	Sedimentary: CHERT	Carbonate: LIMESTONE	Carbonate: DOLOMITE	Rock Unit: OTHER	Weathering: FRESH	Weathering: SLIGHT	Weathering: MODERATE	Weathering: HIGH	Weathering: DECOMPOSED	Structure: NONE OBSERVED	Structure: STRATIFIED	Structure: LAMINATED	Structure: FRACTURED	Structure: OTHER	Matrix: DENSE/NONPOROUS	Matrix: OPEN/POROUS	Matrix: OTHER
BCS00041022				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041023				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041024				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041025				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041026				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041027				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041028				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041029				✔	✔				✔				✔			✔													✔					✔						✔	
BCS00041030				✔		✔			✔				✔			✔													✔					✔						✔	
BCS00041031				✔		✔			✔				✔			✔													✔					✔						✔	
BCS00041032				✔		✔			✔				✔			✔													✔					✔						✔	
BCS00041033			✔			✔			✔				✔			✔													✔					✔						✔	
BCS00041034			✔			✔			✔				✔			✔														✔				✔						✔	
BCS00041035			✔			✔			✔				✔			✔														✔				✔						✔	
BCS00041036			✔			✔			✔				✔			✔															✔			✔						✔	
BCS00041037			✔				✔		✔				✔			✔															✔			✔						✔	
BCS00041038			✔			✔				✔				✔			✔															✔		✔							✔
BCS00041039			✔			✔				✔				✔			✔															✔		✔							✔
BCS00041040			✔			✔				✔				✔			✔															✔		✔							✔
BCS00041041				✔	✔				✔					✔	✔															✔				✔							✔
BCS00041042				✔	✔				✔					✔	✔															✔				✔							✔
BCS00041043				✔	✔				✔					✔	✔															✔				✔							✔
BCS00041044				✔	✔				✔					✔	✔															✔				✔							✔
BCS00041045				✔	✔				✔					✔	✔															✔				✔							✔
BCS00041046				✔	✔				✔					✔	✔															✔				✔							✔
BCS00041047				✔	✔				✔					✔	✔															✔				✔							✔

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)
BCS00041022	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041023	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041024	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041025	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041026	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041027	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041028	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041029	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041030	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041031	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041032	1	N1	1	2	N8	5	10	COLOR LESS	5	10	N7	5	0	N/A	0
BCS00041033	1	N1	1	2	N8	5	10	COLOR LESS	5	5	N7	5	0	N/A	0
BCS00041034	1	N1	1	2	N8	5	10	COLOR LESS	5	5	N7	5	0	N/A	0
BCS00041035	1	N1	1	2	N8	5	10	COLOR LESS	5	5	N7	5	0	N/A	0
BCS00041036	1	N1	1	2	N8	5	10	COLOR LESS	5	5	N7	5	0	N/A	0
BCS00041037	1	N1	1	2	N8	5	10	COLOR LESS	5	5	N7	5	0	N/A	0
BCS00041038	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	N7	5	15	5YR 3/4	5
BCS00041039	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	N7	5	15	5YR 3/4	5
BCS00041040	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	N7	5	15	5YR 3/4	5
BCS00041041	0	N/A	0	5	N8	5	20	COLOR LESS	5	30	10R 8/2	5	1	5YR 3/4	8
BCS00041042	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041043	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041044	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041045	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041046	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041047	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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)	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
10/23/02	BW	11/24/02	EJH	BCS00041048	455.00	460.00	2.5	1.3	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041049	460.00	465.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041050	465.00	470.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041051	470.00	475.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041052	475.00	480.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041053	480.00	485.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041054	485.00	490.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041055	490.00	495.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041056	495.00	500.00	2.5	1.1	1.5		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041057	500.00	505.00	2.5	1.1	1.5		6.5				10R 5/4
10/23/02	BW	11/24/02	EJH	BCS00041058	505.00	510.00	2.5	1.1	1.5		6.5				10R 5/4
10/23/02	BW	11/24/02	EJH	BCS00041059	510.00	515.00	2.5	0.8	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041060	515.00	520.00	2.5	0.8	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041061	520.00	525.00	2.5	1.3	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041062	525.00	530.00	2.5	1.3	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041063	530.00	535.00	2.5	1.3	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041064	535.00	540.00	2.5	1.3	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041065	540.00	545.00	2.5	1.6	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041066	545.00	550.00	2.5	1.6	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041067	550.00	555.00	2.5	1.6	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041068	555.00	560.00	2.5	1.6	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041069	560.00	565.00	2.5	1.0	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041070	565.00	570.00	2.5	1.0	6.0		6.5				5YR 6/4
10/23/02	BW	11/24/02	EJH	BCS00041071	570.00	575.00	2.5	1.0	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041072	575.00	580.00	2.5	1.0	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041073	580.00	585.00	2.5	1.8	6.0		6.5				10R 6/6

Sample Number	Moisture: NA	Moisture: DRY	Moisture: MOIST	Moisture: WET	HCL: NONE	HCL: WEAK	HCL: STRONG	Tuff Deposition: ASHFALL	Tuff Deposition: ASHFLOW	Tuff Deposition: REWORKED	Welding: DENSE	Welding: MODERATE	Welding: WEAK	Welding: NONE	Alteration: VITRIC	Alteration: DEVITRIFIED	Alteration: MATRIX	Alteration: VAPOR PHASE	Alteration: SPHERULITIC	Sedimentary: CLAYSTONE	Sedimentary: MUDSTONE	Sedimentary: SILTSTONE	Sedimentary: SANDSTONE	Sedimentary: CONGLOMERATE	Sedimentary: CHERT	Carbonate: LIMESTONE	Carbonate: DOLOMITE	Rock Unit: OTHER	Weathering: FRESH	Weathering: SLIGHT	Weathering: MODERATE	Weathering: HIGH	Weathering: DECOMPOSED	Structure: NONE OBSERVED	Structure: STRATIFIED	Structure: LAMINATED	Structure: FRACTURED	Structure: OTHER	Matrix: DENSE/NONPOROUS	Matrix: OPEN/POROUS	Matrix: OTHER
BCS00041048				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041049				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041050				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041051				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041052				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041053				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041054				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041055				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041056				✓	✓				✓					✓	✓															✓				✓							✓
BCS00041057				✓		✓			✓					✓	✓															✓				✓							✓
BCS00041058				✓		✓			✓					✓	✓															✓				✓							✓
BCS00041059				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041060				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041061				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041062				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041063				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041064				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041065				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041066				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041067				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041068				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041069				✓		✓			✓					✓		✓														✓				✓							✓
BCS00041070				✓		✓			✓					✓		✓															✓			✓							✓
BCS00041071				✓		✓			✓					✓		✓																✓		✓							✓
BCS00041072				✓		✓			✓					✓		✓																✓		✓							✓
BCS00041073				✓	✓				✓					✓		✓														✓				✓							✓

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)
BCS00041048	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041049	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041050	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041051	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041052	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 4/6	5
BCS00041053	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041054	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041055	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041056	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041057	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041058	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041059	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041060	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041061	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041062	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041063	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041064	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041065	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041066	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041067	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041068	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041069	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041070	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	5	15	10R 3/4	5
BCS00041071	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	2	15	10R 3/4	2
BCS00041072	0	N/A	0	5	N8	5	20	COLOR LESS	5	20	10R 8/2	2	15	10R 3/4	5
BCS00041073	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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
10/23/02	BW	11/24/02	EJH	BCS00041074	585.00	590.00	2.5	1.8	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041075	590.00	595.00	2.5	1.8	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041076	595.00	600.00	2.5	1.8	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041077	600.00	605.00	2.5	2.2	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041078	605.00	610.00	2.5	2.2	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041079	610.00	615.00	2.5	2.2	6.0		6.5				10R 6/6
10/23/02	BW	11/24/02	EJH	BCS00041080	615.00	620.00	2.5	2.2	6.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041081	620.00	625.00	2.5	1.2	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041082	625.00	630.00	2.5	1.2	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041083	630.00	635.00	2.5	1.2	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041084	635.00	640.00	2.5	1.2	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041085	640.00	645.00	2.5	0.8	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041086	645.00	650.00	2.5	0.8	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041087	650.00	655.00	2.5	0.8	20.0		6.5				10R 6/6
10/24/02	BW	11/24/02	EJH	BCS00041088	655.00	660.00	2.5	0.8	20.0		6.5				10R 4/2
10/24/02	BW	11/24/02	EJH	BCS00041089	660.00	665.00	2.5	0.9	20.0		6.5				10R 4/2
10/24/02	BW	11/24/02	EJH	BCS00041090	665.00	670.00	2.5	0.9	20.0		6.5				10R 4/2
10/24/02	BW	11/24/02	EJH	BCS00041091	670.00	675.00	2.5	0.9	20.0		6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041092	675.00	680.00	2.5	0.9	20.0		6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041093	680.00	685.00	2.5	1.3	20.0		6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041094	685.00	690.00	2.5	1.3	20.0		6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041095	690.00	695.00	2.5	1.3	20.0		6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041096	695.00	700.00	2.5	1.3	20.0	2.5	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041097	700.00	705.00	2.5	0.6	33.0	2.0	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041098	705.00	710.00	2.5	0.6	33.0	2.0	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041099	710.00	715.00	2.5	0.6	33.0	2.0	6.5				5YR 7/2

Sample Number	Moisture Content (NA/Dry/Moist/Wet)	HCL Reaction (None/Weak/Strong)	Tuff Deposition (Ashfall/Ashflow/Reworked)	Tuff Welding (Dense/Moderate/Weak/None)	Tuff 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)
BCS00041074	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041075	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041076	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041077	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041078	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041079	Wet	Weak	Ashflow	None	Devitrified				Moderate	None Observed	Other
BCS00041080	Wet	Weak	Ashflow	None	Devitrified				Moderate	None Observed	Other
BCS00041081	Wet	Weak	Ashflow	None	Devitrified				Moderate	None Observed	Other
BCS00041082	Wet	Weak	Ashflow	None	Devitrified				Moderate	None Observed	Other
BCS00041083	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041084	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041085	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041086	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041087	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041088	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Other
BCS00041089	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041090	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041091	Wet	None	Ashflow	Dense	Devitrified				Slight	None Observed	Open/Porous
BCS00041092	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041093	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041094	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041095	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041096	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041097	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041098	Wet	None	Ashflow	None	Devitrified				Slight	None Observed	Open/Porous
BCS00041099	Wet	None	Ashflow	None	Devitrified				Slight	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)
BCS00041074	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041075	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041076	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041077	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041078	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041079	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041080	1	N1	0.5	5	N8	2	20	COLOR LESS	2	20	5YR 8/1	2	15	N2	2
BCS00041081	1	N1	0.5	1	N8	2	15	COLOR LESS	2	5	5YR 8/1	2	15	N2	2
BCS00041082	1	N1	0.5	1	N8	2	15	COLOR LESS	2	5	5YR 8/1	2	10	N2	2
BCS00041083	1	N1	0.5	1	N8	2	15	COLOR LESS	2	5	5YR 8/1	2	5	N2	2
BCS00041084	1	N1	0.5	1	N8	2	15	COLOR LESS	2	5	5YR 8/1	2	10	N2	2
BCS00041085	1	N1	0.5	1	N8	2	15	COLOR LESS	2	5	5YR 8/1	2	10	N2	2
BCS00041086	1	N1	0.5	1	N8	2	15	COLOR LESS	2	5	5YR 8/1	2	15	N2	2
BCS00041087	1	N1	0.5	0	N/A	0	15	COLOR LESS	2	5	5YR 8/1	2	5	N2	2
BCS00041088	1	N1	0.5	0	N/A	0	15	COLOR LESS	2	5	5YR 8/1	2	3	N2	2
BCS00041089	1	N1	0.5	0	N/A	0	15	COLOR LESS	2	5	5YR 8/1	2	2	N2	2
BCS00041090	1	N1	0.5	0	N/A	0	15	COLOR LESS	2	5	5YR 8/1	2	2	N2	2
BCS00041091	1	N1	0.5	0	N/A	0	15	COLOR LESS	2	5	5Y 8/1	2	2	N2	2
BCS00041092	1	N1	0.5	5	N8	1	20	COLOR LESS	2	1	5Y 8/1	2	2	N2	2
BCS00041093	1	N1	0.5	5	N8	1	30	COLOR LESS	2	1	5Y 8/1	2	2	N2	2
BCS00041094	1	N1	0.5	5	N8	1	30	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041095	1	N1	0.5	5	N8	1	30	COLOR LESS	2	50	5Y 8/1	2	1	N2	2
BCS00041096	1	N1	0.5	5	N8	1	30	COLOR LESS	2	50	5Y 8/1	2	1	N2	2
BCS00041097	1	N1	0.5	5	N8	1	30	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041098	1	N1	0.5	5	N8	1	30	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041099	1	N1	0.5	5	N8	1	30	COLOR LESS	2	1	5Y 8/1	2	1	N2	2

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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
10/24/02	BW	11/24/02	EJH	BCS00041100	715.00	720.00	2.5	0.6	33.0	2.0	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041101	720.00	725.00	1.7	0.6	33.0	3.0	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041102	725.00	730.00	1.7	0.6	33.0	3.0	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041103	730.00	735.00	1.7	0.6	33.0	3.5	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041104	735.00	740.00	1.7	0.6	33.0	3.5	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041105	740.00	745.00	1.7	0.7	52.0	3.0	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041106	745.00	750.00	1.7	0.7	52.0	3.5	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041107	750.00	755.00	1.7	0.7	52.0	3.5	6.5				5YR 7/2
10/24/02	BW	11/24/02	EJH	BCS00041108	755.00	760.00	1.7	0.7	52.0	3.0	6.5				5YR 6/1
10/24/02	BW	11/24/02	EJH	BCS00041109	760.00	765.00	1.7	1.8	52.0	3.0	6.5				5YR 6/1
10/24/02	BW	11/24/02	EJH	BCS00041110	765.00	770.00	1.7	1.8	52.0	3.0	6.5				5RP 6/2
10/24/02	BW	11/24/02	EJH	BCS00041111	770.00	775.00	1.7	1.8	52.0	2.5	6.5				5RP 6/2
10/24/02	BW	11/24/02	EJH	BCS00041112	775.00	780.00	1.7	1.8	52.0	2.5	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041113	780.00	785.00	1.7	1.3	33.0	3.0	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041114	785.00	790.00	1.7	1.3	33.0	3.5	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041115	790.00	795.00	1.7	1.3	33.0	3.5	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041116	795.00	800.00	1.7	1.3	33.0	3.5	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041117	800.00	805.00	1.7	0.7	33.0	2.0	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041118	805.00	810.00	1.7	0.7	33.0	3.0	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041119	810.00	815.00	1.7	0.7	33.0	2.5	6.5				10YR 8/2
10/24/02	BW	11/24/02	EJH	BCS00041120	815.00	820.00	1.7	0.7	33.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041121	820.00	825.00	0.8	0.6	33.0	3.0	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041122	825.00	830.00	0.8	0.6	33.0	3.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041123	830.00	835.00	0.8	0.6	33.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041124	835.00	840.00	0.8	0.6	33.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041125	840.00	845.00	0.8	0.7	33.0	2.5	6.5				10YR 8/2

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
BCS00041100				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041101				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041102				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041103				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041104				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041105				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041106				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041107				✓	✓				✓					✓		✓														✓				✓						✓	
BCS00041108				✓	✓				✓				✓			✓														✓				✓						✓	
BCS00041109				✓	✓				✓				✓			✓														✓				✓						✓	
BCS00041110				✓	✓				✓				✓			✓																✓		✓						✓	
BCS00041111				✓	✓																											✓		✓						✓	
BCS00041112				✓	✓				✓				✓			✓																✓		✓						✓	
BCS00041113				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041114				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041115				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041116				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041117				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041118				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041119				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041120				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041121				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041122				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041123				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041124				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041125				✓	✓				✓					✓		✓															✓			✓						✓	

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)
BCS00041100	1	N1	0.5	5	N8	1	30	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041101	1	N1	0.5	5	N8	1	10	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041102	1	N1	0.5	5	N8	1	10	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041103	1	N1	0.5	5	N8	1	10	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041104	1	N1	0.5	5	N8	1	3	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041105	1	N1	0.5	5	N8	1	3	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041106	1	N1	0.5	5	N8	1	3	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041107	1	N1	0.5	5	N8	1	3	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041108	1	N1	0.5	5	N8	1	3	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041109	1	N1	0.5	5	N8	1	2	COLOR LESS	2	1	5Y 8/1	2	1	N2	2
BCS00041110	1	N1	0.5	5	N8	1	2	COLOR LESS	2	1	10R 6/6	2	1	N2	2
BCS00041111	1	N1	0.5	5	N8	1	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041112	1	N1	0.5	3	N8	1	1	COLOR LESS	1	1	10R 6/6	1	0	N/A	0
BCS00041113	1	N1	0.5	5	N8	1	2	COLOR LESS	1	1	10R 6/6	1	1	10R 3/4	1
BCS00041114	1	N1	0.5	5	N8	1	2	COLOR LESS	1	0	10R 6/6	0	0	10R 3/4	0
BCS00041115	1	N1	0.5	5	N8	1	2	COLOR LESS	1	0	10R 6/6	0	1	10R 3/4	1
BCS00041116	1	N1	0.5	5	N8	1	2	COLOR LESS	1	0	10R 6/6	0	1	10R 3/4	1
BCS00041117	1	N1	0.5	5	N8	1	2	COLOR LESS	1	1	10R 6/6	5	1	10R 3/4	5
BCS00041118	1	N1	0.5	5	N8	1	1	COLOR LESS	1	0	N/A	0	1	10R 3/4	5
BCS00041119	1	N1	0.5	5	N8	1	2	COLOR LESS	1	0	N/A	0	1	10R 3/4	5
BCS00041120	1	N1	0.5	5	N8	1	2	COLOR LESS	1	0	N/A	0	1	10R 3/4	5
BCS00041121	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	1	10R 3/4	5
BCS00041122	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	1	10R 3/4	5
BCS00041123	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	1	10R 3/4	5
BCS00041124	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	3	10R 3/4	8
BCS00041125	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	3	10R 3/4	8

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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
10/29/02	BW	11/24/02	EJH	BCS00041126	845.00	850.00	0.8	0.7	33.0	3.0	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041127	850.00	855.00	0.8	0.7	33.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041128	855.00	860.00	0.8	0.7	33.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041129	860.00	865.00	0.8	0.7	60.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041130	865.00	870.00	0.8	0.7	60.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041131	870.00	875.00	0.8	0.7	60.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041132	875.00	880.00	0.8	0.7	60.0	3.0	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041133	880.00	885.00	0.0	0.7	60.0	2.0	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041134	885.00	890.00	0.0	0.7	60.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041135	890.00	895.00	0.0	0.7	60.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041136	895.00	900.00	0.0	0.7	60.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041137	900.00	905.00	0.0	0.7	62.0	2.0	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041138	905.00	910.00	0.0	0.7	62.0	2.0	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041139	910.00	915.00	0.0	0.7	62.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041140	915.00	920.00	0.0	0.7	62.0	2.5	6.5				10YR 8/2
10/29/02	BW	11/24/02	EJH	BCS00041141	920.00	925.00	0.0	0.6	64.0	3.0	6.5				5YR 3/4
10/29/02	BW	11/24/02	EJH	BCS00041142	925.00	930.00	0.0	0.6	64.0	3.0	6.5				5YR 3/4
10/29/02	BW	11/24/02	EJH	BCS00041143	930.00	935.00	0.0	0.6	64.0	3.0	6.5				5YR 3/4
10/29/02	BW	11/24/02	EJH	BCS00041144	935.00	940.00	0.0	0.6	64.0	3.0	6.5				5YR 3/4
10/29/02	BW	11/24/02	EJH	BCS00041145	940.00	945.00	0.0	0.5	64.0	3.0	6.5				5YR 3/4
10/29/02	BW	11/24/02	EJH	BCS00041146	945.00	950.00	0.0	0.5	64.0	3.5	6.5				5YR 3/4
10/29/02	BW	11/24/02	EJH	BCS00041147	950.00	955.00	0.0	0.5	64.0	3.5	6.5				5YR 5/2
10/29/02	BW	11/24/02	EJH	BCS00041148	955.00	960.00	0.0	0.5	64.0	3.5	6.5				5YR 5/2
10/29/02	BW	11/24/02	EJH	BCS00041149	960.00	965.00	0.0	0.4	64.0	3.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041150	965.00	970.00	0.0	0.4	64.0	3.0	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041151	970.00	975.00	0.0	0.4	64.0	3.0	6.5				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
BCS00041126				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041127				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041128				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041129				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041130				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041131				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041132				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041133				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041134				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041135				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041136				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041137				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041138				✓	✓				✓					✓		✓															✓			✓						✓	
BCS00041139				✓	✓				✓		✓					✓															✓			✓						✓	
BCS00041140				✓	✓				✓		✓					✓															✓			✓						✓	
BCS00041141				✓	✓				✓		✓				✓														✓					✓					✓		
BCS00041142				✓	✓				✓		✓				✓														✓					✓					✓		
BCS00041143				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041144				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041145				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041146				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041147				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041148				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041149				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041150				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041151				✓	✓				✓		✓					✓													✓					✓					✓		

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)
BCS00041126	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	3	10R 3/4	8
BCS00041127	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	1	10R 3/4	5
BCS00041128	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	1	10R 3/4	5
BCS00041129	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	1	3	10R 3/4	5
BCS00041130	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	0.5	5	10R 3/4	10
BCS00041131	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	0.5	5	10R 3/4	10
BCS00041132	1	N1	0.5	5	N8	0.5	2	COLOR LESS	1	1	10R 7/4	0.5	5	10R 3/4	10
BCS00041133	1	N1	0.5	5	N8	1	3	COLOR LESS	1	2	10R 7/4	0.5	5	10R 3/4	10
BCS00041134	1	N1	0.5	5	N8	1	3	COLOR LESS	1	2	10R 7/4	0.5	3	10R 3/4	5
BCS00041135	1	N1	0.5	5	N8	1	3	COLOR LESS	1	1	10R 7/4	0.5	3	10R 3/4	5
BCS00041136	1	N1	0.5	5	N8	1	3	COLOR LESS	1	1	10R 7/4	0.5	1	10R 3/4	3
BCS00041137	1	N1	0.5	5	N8	1	3	COLOR LESS	1	1	10R 7/4	0.5	1	10R 3/4	3
BCS00041138	1	N1	0.5	5	N8	1	3	COLOR LESS	1	1	10R 7/4	0.5	1	10R 3/4	3
BCS00041139	1	N1	0.5	5	N8	1	3	COLOR LESS	1	1	10R 7/4	0.5	1	10R 3/4	3
BCS00041140	1	N1	0.5	5	N8	1	3	COLOR LESS	1	1	10R 7/4	0.5	1	10R 3/4	3
BCS00041141	1	N1	0.5	0	N/A	0	5	COLOR LESS	1	2	N8/N9	1	0	N/A	0
BCS00041142	1	N1	0.5	0	N/A	0	5	COLOR LESS	1	2	N8/N9	1	0	N/A	0
BCS00041143	1	N1	0.5	0	N/A	0	5	COLOR LESS	1	2	N8/N9	1	0	N/A	0
BCS00041144	1	N1	0.5	0	N/A	0	5	COLOR LESS	1	2	N8/N9	1	0	N/A	0
BCS00041145	1	N1	0.5	0	N/A	0	3	COLOR LESS	1	2	N8/N9	1	0	N/A	0
BCS00041146	1	N1	0.5	0	N/A	0	2	COLOR LESS	1	2	N8/N9	1	0	N/A	0
BCS00041147	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041148	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041149	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041150	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041151	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
10/29/02	BW	11/24/02	EJH	BCS00041152	975.00	980.00	0.0	0.4	64.0	3.0	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041153	980.00	985.00	0.8	0.4	64.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041154	985.00	990.00	0.8	0.4	64.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041155	990.00	995.00	0.8	0.4	64.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041156	995.00	1000.00	0.8	0.4	64.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041157	1000.00	1005.00	0.8	0.6	87.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041158	1005.00	1010.00	0.8	0.6	87.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041159	1010.00	1015.00	0.8	0.6	87.0	2.0	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041160	1015.00	1020.00	0.8	0.6	87.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041161	1020.00	1025.00	0.8	0.4	87.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041162	1025.00	1030.00	0.8	0.4	87.0	2.0	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041163	1030.00	1035.00	0.8	0.4	87.0	2.5	6.5				5YR 4/4
10/29/02	BW	11/24/02	EJH	BCS00041164	1035.00	1040.00	0.8	0.4	87.0	2.5	6.5				10R 6/6
10/29/02	BW	11/24/02	EJH	BCS00041165	1040.00	1045.00	0.8	0.5	87.0	1.0	6.5				10YR 4/2
10/29/02	BW	11/24/02	EJH	BCS00041166	1045.00	1050.00	0.8	0.5	87.0	1.5	6.5				10YR 5/4
10/29/02	BW	11/24/02	EJH	BCS00041167	1050.00	1055.00	0.8	0.5	87.0	1.5	6.5				10YR 5/4
10/29/02	BW	11/24/02	EJH	BCS00041168	1055.00	1060.00	0.8	0.5	87.0	1.5	6.5				10YR 5/4
10/29/02	BW	11/24/02	EJH	BCS00041169	1060.00	1065.00	0.8	0.4	86.0	1.5	6.5				10YR 5/4
10/29/02	BW	11/24/02	EJH	BCS00041170	1065.00	1070.00	0.8	0.4	86.0	2.0	6.5				10YR 5/4
10/29/02	BW	11/24/02	EJH	BCS00041171	1070.00	1075.00	0.8	0.4	86.0	1.5	6.5				5R 4/2
10/29/02	BW	11/24/02	EJH	BCS00041172	1075.00	1080.00	0.8	0.4	86.0	1.5	6.5				5R 4/2
10/29/02	BW	11/24/02	EJH	BCS00041173	1080.00	1085.00	0.0	0.4	91.0	2.0	6.5				5YR 5/6
10/29/02	BW	11/24/02	EJH	BCS00041174	1085.00	1090.00	0.0	0.4	91.0	2.0	6.5				5YR 5/6
10/29/02	BW	11/24/02	EJH	BCS00041175	1090.00	1095.00	0.0	0.4	91.0	1.5	6.5				5YR 5/6
10/29/02	BW	11/24/02	EJH	BCS00041176	1095.00	1100.00	0.0	0.4	91.0	2.0	6.5				5YR 5/6
10/29/02	BW	11/24/02	EJH	BCS00041177	1100.00	1105.00	0.0	0.4	91.0	2.0	6.5				5YR 5/6

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
BCS00041152				✓	✓				✓		✓					✓			
BCS00041153				✓	✓				✓		✓					✓			
BCS00041154				✓	✓				✓		✓					✓			
BCS00041155				✓	✓				✓		✓					✓			
BCS00041156				✓	✓				✓		✓					✓			
BCS00041157				✓	✓				✓		✓					✓			
BCS00041158				✓		✓			✓		✓					✓			
BCS00041159				✓	✓				✓		✓					✓			
BCS00041160				✓	✓				✓		✓					✓			
BCS00041161				✓	✓				✓		✓					✓			
BCS00041162				✓	✓				✓		✓					✓			
BCS00041163				✓	✓				✓		✓					✓			
BCS00041164				✓	✓				✓		✓						✓		
BCS00041165				✓	✓				✓		✓					✓			
BCS00041166				✓	✓			✓						✓		✓			
BCS00041167				✓	✓			✓						✓		✓			
BCS00041168				✓	✓			✓						✓		✓			
BCS00041169				✓	✓			✓						✓	✓				
BCS00041170				✓	✓				✓			✓				✓			
BCS00041171				✓	✓				✓			✓				✓			
BCS00041172				✓	✓				✓			✓				✓			
BCS00041173				✓	✓				✓			✓				✓			
BCS00041174				✓	✓				✓			✓				✓			
BCS00041175				✓	✓				✓			✓				✓			
BCS00041176				✓	✓				✓			✓				✓			
BCS00041177				✓	✓				✓		✓					✓			

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
BCS00041152										✓					✓					✓		
BCS00041153										✓					✓					✓		
BCS00041154										✓					✓					✓		
BCS00041155										✓					✓					✓		
BCS00041156										✓					✓					✓		
BCS00041157										✓					✓					✓		
BCS00041158										✓					✓					✓		
BCS00041159										✓					✓					✓		
BCS00041160										✓					✓					✓		
BCS00041161										✓					✓					✓		
BCS00041162										✓					✓					✓		
BCS00041163										✓					✓					✓		
BCS00041164													✓		✓						✓	
BCS00041165											✓				✓						✓	
BCS00041166											✓				✓						✓	
BCS00041167											✓				✓						✓	
BCS00041168											✓				✓						✓	
BCS00041169											✓				✓						✓	
BCS00041170											✓				✓					✓		
BCS00041171										✓					✓					✓		
BCS00041172										✓					✓					✓		
BCS00041173										✓					✓					✓		
BCS00041174										✓					✓					✓		
BCS00041175										✓					✓					✓		
BCS00041176										✓					✓					✓		
BCS00041177										✓					✓					✓		

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)
BCS00041152	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041153	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041154	1	N1	0.5	0	N/A	0	1	COLOR LESS	3	1	N8/N9	1	0	N/A	0
BCS00041155	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041156	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041157	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041158	1	N1	0.5	0	N/A	0	1	COLOR LESS	1	1	N8/N9	1	0	N/A	0
BCS00041159	1	N1	0.5	0	N/A	0	2	COLOR LESS	1	1	N8/N9	0.5	0	N/A	0
BCS00041160	1	N1	0.5	0	N/A	0	2	COLOR LESS	1	1	N8/N9	0.5	0	N/A	0
BCS00041161	0	N/A	0	0	N/A	0	2	COLOR LESS	1	1	N8/N9	0.5	0	N/A	0
BCS00041162	0	N/A	0	0	N/A	0	2	COLOR LESS	1	1	N8/N9	0.5	0	N/A	0
BCS00041163	0	N/A	0	0	N/A	0	2	COLOR LESS	1	1	N8/N9	0.5	1	5YR 5/6	1
BCS00041164	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041165	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041166	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	10	5GY 8/1 5YR 8/4	3	15	5YR 5/6	3
BCS00041167	0	N/A	0	0	N/A	0	2	COLOR LESS	0.5	10	5GY 8/1 5YR 8/4	3	15	5YR 5/6	3
BCS00041168	0	N/A	0	0	N/A	0	2	COLOR LESS	0.5	10	5GY 8/1 5YR 8/4	3	15	5YR 5/6	3
BCS00041169	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	5	5GY 8/1	8	15	5YR 5/6	3
BCS00041170	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041171	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041172	0	N/A	0	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041173	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041174	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041175	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041176	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041177	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
10/29/02	BW	11/24/02	EJH	BCS00041178	1105.00	1110.00	0.0	0.4	91.0	2.0	6.5				5YR 5/6
10/29/02	BW	11/24/02	EJH	BCS00041179	1110.00	1115.00	0.0	0.4	91.0	2.0	6.5				5YR 5/6
10/29/02	BW	11/24/02	EJH	BCS00041180	1115.00	1120.00	0.0	0.4	92.0	2.0	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041181	1120.00	1125.00	0.0	0.4	92.0	2.0	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041182	1125.00	1130.00	0.0	0.4	92.0	2.0	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041183	1130.00	1135.00	0.0	0.4	92.0	2.5	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041184	1135.00	1140.00	0.0	0.4	92.0	3.0	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041185	1140.00	1145.00	0.0	0.4	92.0	1.5	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041186	1145.00	1150.00	0.0	0.4	92.0	2.0	6.5				10R 6/6
10/30/02	BW	11/24/02	EJH	BCS00041187	1150.00	1155.00	0.0	0.4	92.0	2.0	6.5				RED
10/30/02	BW	11/24/02	EJH	BCS00041188	1155.00	1160.00	0.0	0.4	110.0	2.5	6.5				RED
10/30/02	BW	11/24/02	EJH	BCS00041189	1160.00	1165.00	0.0	0.5	110.0	1.5	6.5				RED
10/30/02	BW	11/24/02	EJH	BCS00041190	1165.00	1170.00	0.0	0.5	110.0	2.0	6.5				RED
10/30/02	BW	11/24/02	EJH	BCS00041191	1170.00	1175.00	0.0	0.5	110.0	2.0	6.5				RED
10/30/02	BW	11/24/02	EJH	BCS00041192	1175.00	1180.00	0.0	0.5	110.0	2.5	6.5				RED
10/30/02	BW	11/24/02	EJH	BCS00041193	1180.00	1185.00	2.5	0.5	110.0	1.0	6.5				10Y 8/2
10/30/02	BW	11/24/02	EJH	BCS00041194	1185.00	1190.00	2.5	0.5	110.0	1.0	6.5				5Y 8/4
10/30/02	BW	11/24/02	EJH	BCS00041195	1190.00	1195.00	2.5	0.5	110.0	1.0	6.5				5Y 8/4
10/30/02	BW	11/24/02	EJH	BCS00041196	1195.00	1200.00	2.5	0.5	110.0	2.0	6.5				5YR 6/4
10/30/02	BW	11/24/02	EJH	BCS00041197	1200.00	1205.00	0.8	0.5	110.0	2.0	6.5				5GY 8/1
10/30/02	BW	11/24/02	EJH	BCS00041198	1205.00	1210.00	0.8	0.5	110.0	2.5	6.5				5GY 8/1
10/30/02	BW	11/24/02	EJH	BCS00041199	1210.00	1215.00	0.8	0.5	110.0	2.0	6.5				5GY 8/1
10/30/02	BW	11/24/02	EJH	BCS00041200	1215.00	1220.00	0.8	0.5	110.0	2.0	6.5				5GY 8/1
10/30/02	BW	11/24/02	EJH	BCS00041201	1220.00	1225.00	0.8	0.4	110.0	2.0	6.5				5GY 8/1
10/30/02	BW	11/24/02	EJH	BCS00041202	1225.00	1230.00	0.8	0.4	110.0	2.0	6.5				10R 7/4
10/30/02	BW	11/24/02	EJH	BCS00041203	1230.00	1235.00	0.8	0.4	110.0	2.0	6.5				5RP 6/2

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
BCS00041178				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041179				✓	✓				✓		✓					✓													✓					✓					✓		
BCS00041180				✓	✓				✓		✓					✓																✓		✓					✓		
BCS00041181				✓	✓				✓		✓					✓														✓				✓					✓		
BCS00041182				✓	✓				✓		✓					✓														✓				✓					✓		
BCS00041183				✓	✓				✓		✓					✓														✓				✓					✓		
BCS00041184				✓	✓				✓		✓					✓														✓				✓					✓		
BCS00041185				✓	✓				✓		✓					✓														✓				✓					✓		
BCS00041186				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041187				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041188				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041189				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041190				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041191				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041192				✓	✓				✓					✓		✓																✓		✓					✓		
BCS00041193				✓	✓				✓					✓		✓															✓			✓					✓		
BCS00041194				✓	✓				✓					✓		✓															✓			✓					✓		
BCS00041195				✓	✓				✓					✓		✓															✓			✓					✓		
BCS00041196				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041197				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041198				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041199				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041200				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041201				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041202				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041203				✓		✓			✓					✓		✓																✓		✓					✓		

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)
BCS00041178	0	N/A	0	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041179	0	N/A	0	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041180	0	N/A	0	0	N/A	0	2	COLOR LESS	0.5	0	N/A	0	0	N/A	0
BCS00041181	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	0	N/A	0	1	N3	0.5
BCS00041182	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	0	N/A	0	1	N3	0.5
BCS00041183	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	1	N9	1	1	N3	0.5
BCS00041184	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	1	N9	1	1	N3	0.5
BCS00041185	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	1	N9	1	1	N3	0.5
BCS00041186	1	N1	0.5	0	N/A	0	1	COLOR LESS	0.5	1	5Y 7/2	10	1	N3	0.5
BCS00041187	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	25	N8-N9	10	15	5YR 4/4	10
BCS00041188	1	N1	0.5	0	N/A	0	2	COLOR LESS	0.5	25	5Y 8/4	10	15	5YR 4/4	10
BCS00041189	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	15	5YR 4/4	10
BCS00041190	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	15	5YR 4/4	10
BCS00041191	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	10	5YR 4/4 5Y 7/6	10
BCS00041192	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	10	5YR 4/4 5Y 7/6	10
BCS00041193	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	10	5YR 4/4 5Y 7/6	10
BCS00041194	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	10	5YR 4/4 5Y 7/6	10
BCS00041195	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	5Y 8/4	10	10	5YR 4/4 5Y 7/6	10
BCS00041196	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041197	1	N1	0.5	0	N/A	0	0	N/A	0	50	5YR 8/1	5	10	10R 4/6	5
BCS00041198	0	N/A	0	0	N/A	0	0	N/A	0	50	5YR 8/1	10	15	5YR 5/6	8
BCS00041199	0	N/A	0	0	N/A	0	0	N/A	0	50	5YR 8/1	10	5	5YR 5/6	5
BCS00041200	0	N/A	0	0	N/A	0	0	N/A	0	50	5YR 8/1	10	5	5YR 5/6	5
BCS00041201	1	N1	0.5	0	N/A	0	0	N/A	0	50	5YR 8/1	10	5	5YR 5/6	5
BCS00041202	1	N1	0.5	0	N/A	0	0	N/A	0	50	5YR 8/1	5	1	5YR 5/6	0.5
BCS00041203	0	N/A	0	0	N/A	0	0	N/A	0	50	5YR 8/1	5	1	5YR 5/6	5

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

Borehole ID: **NC-EWDP-28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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: Borehole Diameter (inch)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)	Munsell Color Symbol
10/30/02	BW	11/24/02	EJH	BCS00041204	1235.00	1240.00	11.5	0.4	111.0	2.0	6.5				5RP 6/2
10/30/02	BW	11/24/02	EJH	BCS00041205	1240.00	1245.00	11.5	0.3	111.0	3.0	6.5				10R 7/4
10/30/02	BW	11/24/02	EJH	BCS00041206	1245.00	1250.00	11.5	0.3	111.0	2.0	6.5				10R 8/2
10/30/02	BW	11/24/02	EJH	BCS00041207	1250.00	1255.00	11.5	0.3	111.0	2.0	6.5				10R 8/2
10/30/02	BW	11/24/02	EJH	BCS00041208	1255.00	1260.00	11.5	0.3	111.0	2.0	6.5				10R 8/2
10/30/02	BW	11/24/02	EJH	BCS00041209	1260.00	1265.00	11.5	0.3	111.0	3.5	6.5				5YR 8/1
10/30/02	BW	11/24/02	EJH	BCS00041210	1265.00	1270.00	11.5	0.3	111.0	4.0	6.5				5YR 8/1
10/31/02	BW	11/24/02	EJH	BCS00041211	1270.00	1275.00	11.5	0.3	111.0	3.5	6.1				5YR 6/4
10/31/02	BW	11/24/02	EJH	BCS00041212	1275.00	1280.00	11.5	0.3	128.0	4.0	6.1				5GY 8/1
11/03/02	BW	11/24/02	EJH	BCS00041213	1280.00	1285.00	7.5	0.6	128.0	1.5	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041214	1285.00	1290.00	7.5	0.6	128.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041215	1290.00	1295.00	7.5	0.6	128.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041216	1295.00	1300.00	7.5	0.6	128.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041217	1300.00	1305.00	7.5	0.6	136.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041218	1305.00	1310.00	7.5	0.6	136.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041219	1310.00	1315.00	7.5	0.6	136.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041220	1315.00	1320.00	7.5	0.6	136.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041221	1320.00	1325.00	7.5	0.6	136.0	2.0	5.6				10R 6/6
11/03/02	BW	11/24/02	EJH	BCS00041222	1325.00	1330.00	7.5	0.6	136.0	3.0	5.6				5R 3/4
11/03/02	BW	11/24/02	EJH	BCS00041223	1330.00	1335.00	7.5	0.6	136.0	3.0	5.6				5R 3/4
11/03/02	BW	11/24/02	EJH	BCS00041224	1335.00	1340.00	7.5	0.6	136.0	2.5	5.6				10R 4/6
11/03/02	BW	11/24/02	EJH	BCS00041225	1340.00	1345.00	7.5	0.6	136.0	2.5	5.6				5Y 4/1-2/1
11/03/02	BW	11/24/02	EJH	BCS00041226	1345.00	1350.00	7.5	0.6	136.0	3.0	5.6				5Y 4/1-2/1
11/03/02	BW	11/24/02	EJH	BCS00041227	1350.00	1355.00	7.5	0.6	136.0	2.5	5.6				5Y 4/1-2/1
11/03/02	BW	11/24/02	EJH	BCS00041228	1355.00	1360.00	7.5	0.6	136.0	2.5	5.6				5Y 4/1-2/1
11/03/02	BW	11/24/02	EJH	BCS00041229	1360.00	1365.00	7.5	0.4	117.0	2.5	5.6				5Y 4/1-2/1

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
BCS00041204				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041205				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041206				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041207				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041208				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041209				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041210				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041211				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041212				✓		✓			✓					✓		✓																✓		✓					✓		
BCS00041213				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041214				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041215				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041216				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041217				✓		✓			✓				✓			✓																✓		✓					✓		
BCS00041218				✓		✓			✓				✓			✓																✓		✓					✓		
BCS00041219				✓		✓			✓			✓				✓																✓		✓					✓		
BCS00041220				✓		✓			✓			✓				✓																✓		✓					✓		
BCS00041221				✓		✓			✓			✓				✓																✓		✓					✓		
BCS00041222				✓		✓																✓							✓							✓			✓		
BCS00041223				✓		✓																✓							✓							✓			✓		
BCS00041224				✓			✓																✓						✓							✓			✓		
BCS00041225				✓			✓														✓								✓							✓			✓		
BCS00041226				✓			✓														✓								✓							✓			✓		
BCS00041227				✓			✓														✓								✓							✓			✓		
BCS00041228				✓			✓														✓								✓							✓			✓		
BCS00041229				✓			✓														✓								✓							✓			✓		

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)
BCS00041204	0	N/A	0	0	N/A	0	1	COLOR LESS	5	35	5YR 8/1	5	1	10R 4/6	5
BCS00041205	1	N1	0.5	0	N/A	0	0	N/A	0	50	5YR 8/1	5	1	5YR 5/6 10R 4/6	1
BCS00041206	1	N1	0.5	0	N/A	0	0	N/A	0	50	5YR 8/1	5	1	5YR 5/6 10R 4/6	1
BCS00041207	2	N1	0.5	0	N/A	0	0	N/A	0	35	5YR 8/1	5	2	N1 / 10R 4/6	1
BCS00041208	2	N1	0.5	0	N/A	0	0	N/A	0	35	5YR 8/1	5	2	N1 / 10R 4/6	1
BCS00041209	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	35	5YR 8/1	5	2	N1 / 10R 4/6	1
BCS00041210	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	35	5YR 8/1	3	1	N1 / 10R 4/6	1
BCS00041211	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	35	5YR 8/1	5	10	10R 4/6	10
BCS00041212	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	35	5YR 8/1	10	10	10R 4/6	10
BCS00041213	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041214	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041215	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041216	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041217	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041218	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041219	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041220	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041221	0	N/A	0	0	N/A	0	1	COLOR LESS	0.5	30	N9	5	1	10R 4/6	3
BCS00041222	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041223	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041224	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041225	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041226	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041227	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041228	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041229	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0

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

Borehole ID: **NC-EWDP-28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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: Mafics			Phenocrysts: Quartz			Phenocrysts: Feldspar			Clasts: Pumice			Clasts: Lithics		
																						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	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	STRATIFIED	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)
11/03/02	BW	11/24/02	EJH	BCS00041230	1365.00	1370.00	7.5	0.4	117.0	2.5	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041231	1370.00	1375.00	7.5	0.4	117.0	3.0	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041232	1375.00	1380.00	7.5	0.4	117.0	2.0	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041233	1380.00	1385.00	7.5	0.4	117.0	2.5	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041234	1385.00	1390.00	7.5	0.4	117.0	2.5	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041235	1390.00	1395.00	0.5	0.4	117.0	2.0	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041236	1395.00	1400.00	0.5	0.4	117.0	2.0	5.6				5Y 4/1-2/1				✓			✓												✓													✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041237	1400.00	1405.00	0.5	0.4	117.0	2.0	5.6				10YR 6/2				✓			✓													✓												✓				✓			✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041238	1405.00	1410.00	0.5	0.4	117.0	2.0	5.6				5Y 5/2				✓			✓														✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041239	1410.00	1415.00	0.5	0.4	117.0	2.0	5.6				5Y 5/2				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041240	1415.00	1420.00	0.5	0.5	136.0	2.0	5.6				5Y 5/2				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041241	1420.00	1425.00	0.5	0.5	136.0	1.5	5.6				5Y 5/2				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041242	1425.00	1430.00	0.5	0.5	136.0	2.0	5.6				5Y 5/2				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041243	1430.00	1435.00	0.5	0.5	136.0	2.0	5.6				5Y 6/1				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041244	1435.00	1440.00	0.5	0.6	136.0	2.0	5.6				5Y 6/1				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041245	1440.00	1445.00	0.5	0.6	136.0	2.0	5.6				5Y 6/1				✓			✓													✓											✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041246	1445.00	1450.00	0.5	0.6	136.0	2.0	5.6				5B 7/1				✓		✓			✓			✓	✓															✓		✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	1	5YR 8/1	1	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041247	1450.00	1455.00	0.5	0.6	136.0	2.0	5.6				5B 7/1				✓	✓		✓					✓	✓															✓		✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	1	5YR 8/1	1	0	N/A	0
11/03/02	BW	11/24/02	EJH	BCS00041248	1455.00	1460.00	0.5	0.6	136.0	2.0	5.6				5B 7/1				✓	✓		✓					✓	✓															✓		✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	1	5YR 8/1	1	1	5YR 5/6	3
11/04/02	BW	11/24/02	EJH	BCS00041249	1460.00	1465.00	0.5	0.6	136.0	1.0	5.6				5B 7/1				✓	✓		✓					✓	✓															✓		✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	1	5YR 8/1	1	3	5YR 5/6	10
11/04/02	BW	11/24/02	EJH	BCS00041250	1465.00	1470.00	0.5	0.6	136.0	1.5	5.6				5B 7/1				✓	✓		✓					✓	✓															✓		✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/04/02	BW	11/24/02	EJH	BCS00041251	1470.00	1475.00	0.5	0.6	136.0	2.0	5.6				5Y 4/1-2/1				✓	✓		✓					✓	✓														✓			✓						✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/04/02	BW	11/24/02	EJH	BCS00041252	1475.00	1480.00	0.5	0.6	136.0	2.0	5.6				5B 7/4				✓	✓		✓					✓	✓															✓		✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/04/02	BW	11/24/02	EJH	BCS00041253	1480.00	1485.00	0.5	0.3	158.0	2.0	5.6				5B 7/1				✓	✓		✓					✓	✓																✓	✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/04/02	BW	11/24/02	EJH	BCS00041254	1485.00	1490.00	0.5	0.3	158.0	2.0	5.6				5B 7/1				✓		✓	✓					✓	✓																✓	✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/04/02	BW	11/24/02	EJH	BCS00041255	1490.00	1495.00	0.5	0.3	158.0	2.0	5.6				5Y 8/1				✓		✓	✓					✓	✓																✓	✓							✓			0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 2/6	5

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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
11/04/02	BW	11/24/02	EJH	BCS00041256	1495.00	1500.00	0.5	0.3	158.0	2.0	5.6				5B 7/1
11/04/02	BW	11/24/02	EJH	BCS00041257	1500.00	1505.00	0.5	0.2	158.0	2.0	5.6				5B 7/1
11/04/02	BW	11/24/02	EJH	BCS00041258	1505.00	1510.00	0.5	0.2	158.0	2.0	5.6				5B 7/1
11/04/02	BW	11/24/02	EJH	BCS00041259	1510.00	1515.00	0.5	0.2	158.0	2.0	5.6				5B 7/1
11/04/02	BW	11/24/02	EJH	BCS00041260	1515.00	1520.00	0.5	0.2	158.0	2.0	5.6				5B 7/1
11/04/02	BW	11/24/02	EJH	BCS00041261	1520.00	1525.00	0.5	0.2	158.0	2.0	5.6				5GY 6/1
11/04/02	BW	11/24/02	EJH	BCS00041262	1525.00	1530.00	0.5	0.2	158.0	2.5	5.6				5GY 6/1
11/04/02	BW	11/24/02	EJH	BCS00041263	1530.00	1535.00	0.5	0.2	158.0	2.5	5.6				5GY 6/1
11/04/02	BW	11/24/02	EJH	BCS00041264	1535.00	1540.00	0.5	0.4	145.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041265	1540.00	1545.00	0.5	0.4	145.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041266	1545.00	1550.00	0.5	0.4	145.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041267	1550.00	1555.00	0.5	0.4	145.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041268	1555.00	1560.00	0.5	0.7	145.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041269	1560.00	1565.00	0.5	0.7	145.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041270	1565.00	1570.00	0.5	0.7	145.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041271	1570.00	1575.00	0.5	0.7	145.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041272	1575.00	1580.00	0.5	0.7	148.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041273	1580.00	1585.00	0.5	0.6	148.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041274	1585.00	1590.00	0.5	0.6	148.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041275	1590.00	1595.00	0.5	0.6	148.0	1.5	5.6				5Y 8/1
11/05/02	BW	11/24/02	EJH	BCS00041276	1595.00	1600.00	0.5	0.6	148.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041277	1600.00	1605.00	0.5	0.6	148.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041278	1605.00	1610.00	0.5	0.6	148.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041279	1610.00	1615.00	0.5	0.6	148.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041280	1615.00	1620.00	0.5	0.6	148.0	1.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041281	1620.00	1625.00	0.5	0.6	148.0	1.0	5.6				5YR 8/1

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
BCS00041256				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041257				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041258				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041259				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041260				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041261				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041262				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041263				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041264				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041265				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041266				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041267				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041268				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041269				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041270				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041271				✓		✓		✓						✓		✓																✓		✓					✓		
BCS00041272				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041273				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041274				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041275				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041276				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041277				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041278				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041279				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041280				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041281				✓		✓		✓						✓		✓														✓				✓						✓	

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)
BCS00041256	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 2/6	5
BCS00041257	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 2/6	5
BCS00041258	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 2/6	5
BCS00041259	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	25	5R 4/6	8
BCS00041260	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	2
BCS00041261	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	1
BCS00041262	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	1
BCS00041263	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	1
BCS00041264	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	1
BCS00041265	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	15	5R 4/6	10
BCS00041266	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	15	5R 4/6	5
BCS00041267	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	15	5R 4/6	5
BCS00041268	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	15	5R 4/6	5
BCS00041269	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	1
BCS00041270	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6	5
BCS00041271	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	3	5R 4/6	1
BCS00041272	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6	1
BCS00041273	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6	1
BCS00041274	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6	1
BCS00041275	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	0.5
BCS00041276	1	N1	0.5	5	N8	0.5	1	COLOR LESS	0.5	1	N9	3	5	5R 4/6	0.5
BCS00041277	1	N1	0.5	5	N8	0.5	1	COLOR LESS	0.5	1	N9	3	5	5R 4/6	0.5
BCS00041278	1	N1	0.5	5	N8	0.5	1	COLOR LESS	0.5	1	N9	3	5	5R 4/6	0.5
BCS00041279	1	N1	0.5	5	N8	0.5	0	N/A	0	2	N9	3	3	5R 4/6	0.5
BCS00041280	0	N/A	0	5	N8	0.5	0	N/A	0	2	N9	3	5	5R 4/6	0.5
BCS00041281	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6 AND N2	3

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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
11/05/02	BW	11/24/02	EJH	BCS00041282	1625.00	1630.00	0.5	0.6	148.0	1.5	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041283	1630.00	1635.00	0.5	0.6	148.0	2.0	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041284	1635.00	1640.00	0.5	0.6	148.0	1.0	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041285	1640.00	1645.00	0.5	0.4	148.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041286	1645.00	1650.00	0.5	0.4	148.0	1.5	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041287	1650.00	1655.00	0.5	0.4	148.0	1.5	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041288	1655.00	1660.00	0.5	0.4	148.0	2.5	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041289	1660.00	1665.00	0.5	0.5	148.0	2.5	5.6				5YR 8/1
11/05/02	BW	11/24/02	EJH	BCS00041290	1665.00	1670.00	0.5	0.5	148.0	1.5	5.6				10R 7/4
11/05/02	BW	11/24/02	EJH	BCS00041291	1670.00	1675.00	0.5	0.5	148.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	EJH	BCS00041292	1675.00	1680.00	0.5	0.5	148.0	1.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041293	1680.00	1685.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041294	1685.00	1690.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041295	1690.00	1695.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041296	1695.00	1700.00	0.5	0.4	150.0	2.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041297	1700.00	1705.00	0.5	0.4	150.0	2.5	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041298	1705.00	1710.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041299	1710.00	1715.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/05/02	BW	11/24/02	BW	BCS00041300	1715.00	1720.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/06/02	BW	11/24/02	BW	BCS00041301	1720.00	1725.00	0.5	0.4	150.0	1.0	5.6				5PB 7/2
11/06/02	EJH	11/24/02	BW	BCS00041302	1725.00	1730.00	0.5	0.4	150.0	1.5	5.6				5PB 7/2
11/06/02	EJH	11/24/02	BW	BCS00041303	1730.00	1735.00	0.5	0.4	150.0	1.5	5.6				5PB 7/2
11/06/02	EJH	11/24/02	BW	BCS00041304	1735.00	1740.00	0.5	0.3	150.0	1.5	5.6				5PB 7/2
11/06/02	EJH	11/24/02	BW	BCS00041305	1740.00	1745.00	0.5	0.3	150.0	1.5	5.6				5B 7/1
11/06/02	EJH	11/24/02	BW	BCS00041306	1745.00	1750.00	0.5	0.3	150.0	2.0	5.6				5B 7/1
11/06/02	EJH	11/24/02	BW	BCS00041307	1750.00	1755.00	0.5	0.3	150.0	2.5	5.6				5B 7/1

Sample Number	Moisture Content				HCL Reaction			Tuff: Deposition			Tuff: Welding				Tuff: 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
BCS00041282				✓		✓		✓						✓		✓														✓				✓						✓	
BCS00041283				✓		✓		✓						✓		✓														✓				✓						✓	
BCS00041284				✓		✓		✓						✓		✓														✓				✓						✓	
BCS00041285				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041286				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041287				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041288				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041289				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041290				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041291				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041292				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041293				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041294				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041295				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041296				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041297				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041298				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041299				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041300				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041301				✓		✓		✓						✓		✓														✓						✓			✓		
BCS00041302				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041303				✓		✓		✓						✓		✓														✓						✓			✓		
BCS00041304				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041305				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041306				✓	✓			✓						✓		✓														✓				✓					✓		
BCS00041307				✓	✓			✓						✓		✓														✓				✓					✓		

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)
BCS00041282	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6 AND N2	3
BCS00041283	0	N/A	0	0	N/A	0	0	N/A	0	1	N9	2	5	5R 4/6 AND N2	3
BCS00041284	0	N/A	0	0	N/A	0	0	N/A	0	1	N9	2	5	5R 4/6 AND N2	3
BCS00041285	0	N/A	0	5	N8	0.5	0	N/A	0	1	N9	2	2	5R 4/6 AND N2	1
BCS00041286	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6 AND N2	3
BCS00041287	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	5R 4/6 AND N2	3
BCS00041288	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	10	HIGHLY VARIABLE	5
BCS00041289	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	15	HIGHLY VARIABLE	5
BCS00041290	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	20	HIGHLY VARIABLE	5
BCS00041291	0	N/A	0	5	N8	0.5	0	N/A	0	0	N/A	0	5	HIGHLY VARIABLE	5
BCS00041292	0	N/A	0	5	N8	0.5	0	N/A	0	1	N9	2	5	HIGHLY VARIABLE	5
BCS00041293	0	N/A	0	5	N8	0.5	0	N/A	0	1	N9	2	5	VARIABLE	5
BCS00041294	0	N/A	0	5	N8	0.5	0	N/A	0	1	N9	2	5	VARIABLE	5
BCS00041295	0	N/A	0	5	N8	0.5	0	N/A	0	0	N/A	0	5	10R 4/6	5
BCS00041296	0	N/A	0	5	N8	0.5	0	N/A	0	0	N/A	0	3	10R 4/6	3
BCS00041297	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	20	10R 2/2	5
BCS00041298	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	15	10R 2/2	5
BCS00041299	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	10R 4/6	5
BCS00041300	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	10R 4/6	5
BCS00041301	0	N/A	0	0	N/A	0	0	N/A	0	2	5G	1	5	10R 4/6	5
BCS00041302	0	N/A	0	0	N/A	0	0	N/A	0	1	5G	1	2	10R 4/6	3
BCS00041303	0	N/A	0	1	N7	1	0	N/A	0	1	5G 4/2	1	1	10GY 4/4	5
BCS00041304	0	N/A	0	0	N/A	0	0	N/A	0	1	5G	2	2	10R 4/6	3
BCS00041305	0	N/A	0	0	N/A	0	0	N/A	0	2	5B 7/1	2	1	10GY 4/4	2
BCS00041306	0	N/A	0	1	5B 7/2	1	0	N/A	0	1	5B 7/1	2	1	5G 6/1	2
BCS00041307	0	N/A	0	1	5B 7/2	0.5	0	N/A	0	1	5B 7/1	1	1	5YR	1

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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
11/06/02	EJH	11/24/02	BW	BCS00041308	1755.00	1760.00	0.5	0.3	150.0	2.5	5.6				5B 7/1
11/06/02	EJH	11/24/02	BW	BCS00041309	1760.00	1765.00	0.5	0.4	150.0	2.5	5.6				5B 7/1
11/06/02	EJH	11/24/02	BW	BCS00041310	1765.00	1770.00	0.5	0.4	150.0	2.0	5.6				5B 7/1
11/06/02	EJH	11/24/02	BW	BCS00041311	1770.00	1775.00	0.5	0.4	150.0	2.0	5.6				5BG 5/2
11/06/02	EJH	11/24/02	BW	BCS00041312	1775.00	1780.00	0.5	0.4	150.0	2.0	5.6				5BG 5/2
11/06/02	EJH	11/24/02	BW	BCS00041313	1780.00	1785.00	0.5	0.4	150.0	2.0	5.6				5BG 5/2
11/06/02	EJH	11/24/02	BW	BCS00041314	1785.00	1790.00	0.5	0.4	150.0	2.5	5.6				5BG 5/2
11/06/02	EJH	11/24/02	BW	BCS00041315	1790.00	1795.00	0.5	0.4	150.0	2.0	5.6				5GY 6/1
11/06/02	EJH	11/24/02	BW	BCS00041316	1795.00	1800.00	0.5	0.4	150.0	2.0	5.6				5GY/5Y2
11/06/02	EJH	11/24/02	BW	BCS00041317	1800.00	1805.00	0.5	0.6	150.0	2.0	5.6				5GY/5Y2
11/06/02	EJH	11/24/02	BW	BCS00041318	1805.00	1810.00	0.5	0.6	150.0	2.5	5.6				5Y 8/1
11/06/02	EJH	11/24/02	BW	BCS00041319	1810.00	1815.00	0.5	0.6	150.0	5.0	5.6				10G 7/2
11/06/02	EJH	11/24/02	BW	BCS00041320	1815.00	1820.00	0.5	0.6	150.0	3.0	5.6				10G 7/2
11/06/02	EJH	11/24/02	BW	BCS00041321	1820.00	1825.00	0.5	0.5	150.0	3.0	5.6				10G 7/2
11/06/02	EJH	11/24/02	BW	BCS00041322	1825.00	1830.00	0.5	0.5	150.0	2.5	5.6				5GY 6/1-10YR 8/2
11/06/02	EJH	11/24/02	BW	BCS00041323	1830.00	1835.00	0.5	0.5	150.0	2.5	5.6				5GY 6/1-10YR 8/2
11/06/02	EJH	11/24/02	BW	BCS00041324	1835.00	1840.00	0.5	0.5	150.0	2.5	5.6				N5
11/06/02	EJH	11/24/02	BW	BCS00041325	1840.00	1845.00	0.5	0.4	150.0	2.5	5.6				N5
11/06/02	EJH	11/24/02	BW	BCS00041326	1845.00	1850.00	0.5	0.4	150.0	3.0	5.6				5G 6/1
11/06/02	EJH	11/24/02	BW	BCS00041327	1850.00	1855.00	0.5	0.4	150.0	2.0	5.6				5G 6/1
11/06/02	EJH	11/24/02	BW	BCS00041328	1855.00	1860.00	0.5	0.4	150.0	2.5	5.6				5GY 8/1
11/06/02	EJH	11/24/02	BW	BCS00041329	1860.00	1865.00	0.5	0.4	150.0	2.5	5.6				10YR 8/2
11/06/02	EJH	11/24/02	BW	BCS00041330	1865.00	1870.00	0.5	0.4	150.0	2.0	5.6				5Y 8/1
11/07/02	EJH	11/24/02	BW	BCS00041331	1870.00	1875.00	0.5	0.4	150.0	1.0	5.6				10YR 8/2
11/07/02	EJH	11/24/02	BW	BCS00041332	1875.00	1880.00	0.5	0.4	150.0	2.0	5.6				10YR 8/2
11/07/02	EJH	11/24/02	BW	BCS00041333	1880.00	1885.00	0.5	0.5	150.0	2.0	5.6				10GY 7/2

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
BCS00041308				✓	✓			✓						✓		✓														✓				✓					✓		
BCS00041309				✓	✓			✓						✓		✓														✓						✓			✓		
BCS00041310				✓	✓			✓						✓		✓														✓						✓			✓		
BCS00041311				✓	✓			✓						✓		✓														✓				✓					✓		
BCS00041312				✓		✓		✓						✓		✓														✓				✓					✓		
BCS00041313				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041314				✓		✓		✓						✓		✓															✓			✓					✓		
BCS00041315				✓		✓		✓						✓		✓															✓					✓			✓		
BCS00041316				✓		✓			✓				✓			✓															✓					✓			✓		
BCS00041317				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041318				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041319				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041320				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041321				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041322				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041323				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041324				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041325				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041326				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041327				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041328				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041329				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041330				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041331				✓		✓			✓				✓			✓															✓			✓					✓		
BCS00041332				✓		✓			✓				✓			✓														✓				✓					✓		
BCS00041333				✓		✓			✓				✓			✓														✓				✓					✓		

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)
BCS00041308	0	N/A	0	0	N/A	0	0	N/A	0	1	5B 7/1	1	1	N3	1
BCS00041309	0	N/A	0	1	5B 7/2	1	0	N/A	0	1	5B 7/1	1	1	N3	1
BCS00041310	0	N/A	0	1	5B 7/2	1	0	N/A	0	1	5B 7/1	1	1	VARIABLE	1
BCS00041311	0	N/A	0	3	5B 7/2	1	0	N/A	0	1	5B 7/1	1	2	10GY 4/4	5
BCS00041312	0	N/A	0	1	5B 7/2	1	0	N/A	0	1	5B 7/1	1	2	10GY 4/4	3
BCS00041313	0	N/A	0	1	5Y 8/1	0.5	0	N/A	0	1	5B 7/1	1	3	10GY 4/4	3
BCS00041314	0	N/A	0	1	5Y 8/1	0.5	0	N/A	0	1	5B 7/1	1	2	10GY 4/4	2
BCS00041315	0	N/A	0	1	5Y 8/1	0.5	0	N/A	0	2	5B 7/1	1	1	10GY 4/4	2
BCS00041316	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	10GY 4/4	3
BCS00041317	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00041318	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	10YR 4/2	2
BCS00041319	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	10GY 4/4	1
BCS00041320	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	10GY 4/4	2
BCS00041321	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	10	10GY 4/4	2
BCS00041322	0	N/A	0	0	N/A	0	0	N/A	0	3	5Y 8/1	3	15	10YR 5/4	3
BCS00041323	0	N/A	0	0	N/A	0	0	N/A	0	2	5Y 8/1	2	5	10YR 5/4	3
BCS00041324	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 8/1	2	5	10YR 5/4	3
BCS00041325	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 8/1	2	10	10YR 5/4	3
BCS00041326	0	N/A	0	0	N/A	0	0	N/A	0	2	5Y 8/1	1	20	10YR 5/4	2
BCS00041327	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	10GY 4/4	1
BCS00041328	0	N/A	0	0	N/A	0	0	N/A	0	1	10YR 8/2	2	3	10GY 4/4	2
BCS00041329	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	10YR 8/2	1
BCS00041330	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 8/1	1
BCS00041331	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	2	5Y 8/1	2
BCS00041332	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	2	5Y 8/1	1
BCS00041333	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	10G 4/2	1

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

Logged Date	Logged By	Checked Date	Checked By	Sample Number	Depth From (feet/bgs)	Depth To (feet/bgs)	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	Moisture Content	HCL Reaction	Tuff Deposition	Tuff Welding	Tuff Alteration	Sedimentary	Carbonate	Other	Weathering	Structure	Matrix	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)
11/07/02	EJH	11/24/02	BW	BCS00041334	1885.00	1890.00	0.5	0.5	150.0	2.0	5.6				10G 6/2	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				SLIGHT	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	10G 4/2	1
11/07/02	EJH	11/24/02	BW	BCS00041335	1890.00	1895.00	0.5	0.5	150.0	2.0	5.6				10G 6/2	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				SLIGHT	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 2/1	2
11/07/02	EJH	11/24/02	BW	BCS00041336	1895.00	1900.00	0.5	0.5	150.0	2.0	5.6				10G 6/2	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				SLIGHT	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 2/1	2
11/07/02	EJH	11/24/02	BW	BCS00041337	1900.00	1905.00	0.5	0.6	150.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				SLIGHT	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 2/1	1
11/07/02	EJH	11/24/02	BW	BCS00041338	1905.00	1910.00	0.5	0.6	150.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5PB 5/2	1
11/07/02	EJH	11/24/02	BW	BCS00041339	1910.00	1915.00	0.5	0.6	150.0	1.5	5.6				10G 6/2	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5PB 5/2	1
11/07/02	EJH	11/24/02	BW	BCS00041340	1915.00	1920.00	0.5	0.6	150.0	1.5	5.6				10G 6/2	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5PB 5/2	1
11/07/02	EJH	11/24/02	BW	BCS00041341	1920.00	1925.00	0.5	0.7	150.0	1.5	5.6				10G 6/2	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	1	N8	1	0	N/A	0	1	10GY 4/4	2	0	N/A	0
11/07/02	EJH	11/24/02	BW	BCS00041342	1925.00	1930.00	0.5	0.7	150.0	1.5	5.6				N8	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	1	N8	1	0	N/A	0	1	10GY 4/4	2	0	N/A	0
11/07/02	EJH	11/24/02	BW	BCS00041343	1930.00	1935.00	0.5	0.7	150.0	1.5	5.6				N8	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	1	N8	1	0	N/A	0	0	N/A	0	0	N/A	0
11/07/02	EJH	11/24/02	BW	BCS00041344	1935.00	1940.00	0.5	0.7	150.0	2.0	5.6				N8	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	1	N8	3	0	N/A	0	0	N/A	0	1	N8	2
11/07/02	EJH	11/24/02	BW	BCS00041345	1940.00	1945.00	0.5	0.6	150.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	DEVITRIFIED				FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5Y 2/1	2
11/07/02	EJH	11/24/02	BW	BCS00041346	1945.00	1950.00	0.5	0.6	150.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	MATRIX				HIGH	NONE OBSERVED	OTHER	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/07/02	EJH	11/24/02	BW	BCS00041347	1950.00	1955.00	0.5	0.6	150.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	MATRIX				HIGH	NONE OBSERVED	OTHER	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/07/02	EJH	11/24/02	BW	BCS00041348	1955.00	1960.00	0.5	0.6	150.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	MATRIX				HIGH	NONE OBSERVED	OTHER	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/12/02	EJH	11/24/02	BW	BCS00041349	1960.00	1965.00	0.5	0.3	120.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	MATRIX				HIGH	NONE OBSERVED	OTHER	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	3	10R 7/4	2
11/12/02	EJH	11/24/02	BW	BCS00042000	1965.00	1970.00	0.5	0.3	120.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	MATRIX				HIGH	NONE OBSERVED	OTHER	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	5	10R 7/4	3
11/12/02	EJH	11/24/02	BW	BCS00042001	1970.00	1975.00	0.5	0.3	120.0	2.0	5.6				5B 7/1	WET	WEAK	ASHFLOW	WEAK	MATRIX				HIGH	NONE OBSERVED	OTHER	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	3	5YR 6/4	5
11/12/02	EJH	11/24/02	BW	BCS00042002	1975.00	1980.00	0.5	0.3	120.0	3.5	5.6				10YR 7/4	WET	NONE				CLAYSTONE			MODERATE	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/12/02	EJH	11/24/02	BW	BCS00042003	1980.00	1985.00	0.0	0.2	120.0	2.0	5.6				5Y 2/1	WET	WEAK				CLAYSTONE			FRESH	LAMINATED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	N5	3
11/12/02	EJH	11/24/02	BW	BCS00042004	1985.00	1990.00	0.0	0.2	120.0	2.0	5.6				10Y 4/2 / N6	WET	WEAK				CLAYSTONE			FRESH	LAMINATED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/12/02	EJH	11/24/02	BW	BCS00042005	1990.00	1995.00	0.0	0.2	120.0	2.0	5.6				10Y 4/2 / N6	WET	WEAK				CLAYSTONE			FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	5R 4/6	2
11/12/02	EJH	11/24/02	BW	BCS00042006	1995.00	2000.00	0.0	0.2	120.0	2.0	5.6				5G 4/1	WET	WEAK				SILTSTONE			FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/12/02	EJH	11/24/02	BW	BCS00042007	2000.00	2005.00	0.0	0.3	100.0	2.0	5.6				5G 4/1	WET	NONE				CLAYSTONE			FRESH	NONE OBSERVED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/12/02	EJH	11/24/02	BW	BCS00042008	2005.00	2010.00	0.0	0.3	100.0	2.0	5.6				5Y 2/1	WET	WEAK				MUDSTONE			FRESH	LAMINATED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
11/12/02	EJH	11/24/02	BW	BCS00042009	2010.00	2015.00	0.0	0.3	100.0	2.0	5.6				5Y 4/1	WET	WEAK				MUDSTONE			FRESH	LAMINATED	DENSE/NONPOROUS	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0

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

Borehole ID: **NC-EWDP- 28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 240 to 2080 Start Date: 10/22/2002 End Date: 11/13/2002

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 Data: Drillng / Coring Rate (ft/min)	Drilling/Coring Data: Water Production (gpm)	Drilling/Coring Data: Sample Recovery (gal)	Sample Density Data: Borehole Diameter (inch)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: Sample Weight (kg)	Munsell Color Symbol
11/12/02	EJH	11/24/02	BW	BCS00042010	2015.00	2020.00	0.0	0.3	100.0	2.0	5.6				5Y 4/1
11/12/02	EJH	11/24/02	BW	BCS00042011	2020.00	2025.00	0.0	0.2	100.0	1.0	5.6				5Y 4/1
11/12/02	EJH	11/24/02	BW	BCS00042012	2025.00	2030.00	0.0	0.2	100.0	2.0	5.6				5Y 4/1
11/12/02	EJH	11/24/02	BW	BCS00042013	2030.00	2035.00	0.0	0.2	100.0	2.0	5.6				5GY 2/1
11/12/02	EJH	11/24/02	BW	BCS00042014	2035.00	2040.00	0.0	0.2	100.0	1.5	5.6				5GY 2/1
11/13/02	EJH	11/24/02	BW	BCS00042015	2040.00	2045.00	0.0	0.2	100.0	2.0	5.6				5Y 2/1
11/13/02	EJH	11/24/02	BW	BCS00042016	2045.00	2050.00	0.0	0.2	100.0	2.0	5.6				5Y 2/1
11/13/02	EJH	11/24/02	BW	BCS00042017	2050.00	2055.00	0.0	0.2	100.0	2.0	5.6				5Y 2/1
11/13/02	EJH	11/24/02	BW	BCS00042018	2055.00	2060.00	0.0	0.2	100.0	2.0	5.6				5Y 2/1
11/13/02	EJH	11/24/02	BW	BCS00042019	2060.00	2065.00	0.0	0.2	75.0	2.0	5.6				5YR 2/1
11/13/02	EJH	11/24/02	BW	BCS00042020	2065.00	2070.00	0.0	0.2	75.0	1.5	5.6				5YR 2/1
11/13/02	EJH	11/24/02	BW	BCS00042021	2070.00	2075.00	0.0	0.2	75.0	1.5	5.6				5YR 2/1
11/13/02	EJH	11/24/02	BW	BCS00042022	2075.00	2080.00	0.0	0.2	75.0	2.0	5.6				5YR 2/1

Sample Number	Moisture Content: NA	DRY	MOIST	WET	HCL Re-action: NONE	WEAK	STRONG	Rock Unit: Tuff: Depo-sition: ASHFALL	ASHFLOW	REWORKED	Welding: DENSE	MODERATE	WEAK	NONE	Alteration: VITRIC	DEVITRIFIED	MATRIX	VAPOR PHASE	SPHERULITIC	Sedimentary: CLAYSTONE	MUDSTONE	SILTSTONE	SANDSTONE	CONGLOMERATE	CHERT	Car-bon-ate: LIMESTONE	DOLOMITE	OTHER	Weathering: FRESH	SLIGHT	MODERATE	HIGH	DECOMPOSED	Structure: NONE OBSERVED	STRATIFIED	LAMINATED	FRACTURED	OTHER	Matrix: DENSE/NONPOROUS	OPEN/POROUS	OTHER
BCS00042010				✔		✔															✔								✔							✔			✔		
BCS00042011				✔		✔															✔								✔					✔					✔		
BCS00042012				✔		✔															✔									✔						✔			✔		
BCS00042013				✔		✔															✔								✔							✔			✔		
BCS00042014				✔		✔															✔								✔					✔					✔		
BCS00042015				✔		✔															✔								✔							✔			✔		
BCS00042016				✔		✔															✔								✔							✔			✔		
BCS00042017				✔		✔															✔								✔							✔			✔		
BCS00042018				✔		✔															✔								✔							✔			✔		
BCS00042019				✔		✔															✔								✔							✔			✔		
BCS00042020				✔		✔															✔								✔							✔			✔		
BCS00042021				✔		✔															✔								✔							✔			✔		
BCS00042022				✔		✔															✔								✔							✔			✔		

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)
BCS00042010	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042011	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042012	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042013	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042014	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042015	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042016	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042017	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0
BCS00042018	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	VARIEGATED	2
BCS00042019	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	VARIEGATED	2
BCS00042020	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	VARIEGATED	2
BCS00042021	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	VARIEGATED	1
BCS00042022	0	N/A	0	0	N/A	0	0	N/A	0	0	N/A	0	1	VARIEGATED	1