Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/28/2001	KDD	8/12/2001	GH	BCS00010401-22SA-554	0.00	2.50	0.0	2.5	0.0	3.0	5.4				5YR 5/4	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010402-22SA-555	2.50	5.00	0.0	2.5	0.0	3.2	5.4				5YR 5/4	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010403-22SA-556	5.00	7.50	0.0	2.5	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010404-22SA-557	7.50	10.00	0.0	2.5	0.0	2.0	5.4				5YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010405-22SA-558	10.00	12.50	0.0	2.5	0.0	1.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010406-22SA-559	12.50	15.00	0.0	2.5	0.0	2.0	5.4				5YR 4/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010407-22SA-560	15.00	17.50	0.0	5.0	0.0	1.8	5.4				5YR 4/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010408-22SA-561	17.50	20.00	0.0	5.0	0.0	1.8	5.4				5YR 4/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010409-22SA-562	20.00	22.50	0.0	5.0	0.0	2.2	5.4				5YR 4/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010410-22SA-563	22.50	25.00	0.0	2.5	0.0	1.0	5.4				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010411-22SA-564	25.00	27.50	0.0	2.5	0.0	2.0	5.4				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010412-22SA-565	27.50	30.00	0.0	1.3	0.0	1.9	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010413-22SA-566	30.00	32.50	0.0	2.5	0.0	2.0	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010414-22SA-567	32.50	35.00	0.0	3.8	0.0	1.7	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010415-22SA-568	35.00	37.50	0.0	3.8	0.0	1.8	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010416-22SA-569	37.50	40.00	0.0	3.8	0.0	2.0	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☐	☑	☐	☐	☑	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010417-22SA-570	40.00	42.50	0.0	2.2	0.0	1.4	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010418-22SA-571	42.50	45.00	0.0	2.2	0.0	1.0	5.4				5YR 4/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010419-22SA-572	45.00	47.50	0.0	2.2	0.0	1.6	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010420-22SA-573	47.50	50.00	0.0	2.2	0.0	2.0	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010421-22SA-574	50.00	52.50	0.0	2.2	0.0	2.3	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010422-22SA-575	52.50	55.00	0.0	2.2	0.0	1.7	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010423-22SA-576	55.00	57.50	0.0	2.2	0.0	1.6	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010424-22SA-577	57.50	60.00	0.0	2.2	0.0	2.0	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010425-22SA-578	60.00	62.50	0.0	1.7	0.0	1.4	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010426-22SA-579	62.50	65.00	0.0	1.7	0.0	1.7	5.4				5YR 6/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010427-22SA-580	65.00	67.50	0.0	1.7	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010428-22SA-581	67.50	70.00	0.0	1.7	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010429-22SA-582	70.00	72.50	0.0	1.7	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010430-22SA-583	72.50	75.00	0.0	1.7	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/28/2001	KDD	8/12/2001	GH	BCS00010431-22SA-584	75.00	77.50	0.0	1.7	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010432-22SA-585	77.50	80.00	0.0	1.7	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010433-22SA-586	80.00	82.50	0.0	1.7	0.0	1.6	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010434-22SA-587	82.50	85.00	0.0	1.4	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010435-22SA-588	85.00	87.50	0.0	1.4	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/28/2001	KDD	8/12/2001	GH	BCS00010436-22SA-589	87.50	90.00	0.0	1.4	0.0	2.2	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010437-22SA-590	90.00	92.50	0.0	1.4	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010438-22SA-591	92.50	95.00	0.0	1.4	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010439-22SA-592	95.00	97.50	0.0	1.4	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010440-22SA-593	97.50	100.00	0.0	1.4	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010441-22SA-594	100.00	102.50	0.0	2.5	0.0	1.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010442-22SA-595	102.50	105.00	0.0	2.5	0.0	2.1	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010443-22SA-596	105.00	107.50	0.0	1.3	0.0	2.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010444-22SA-597	107.50	110.00	0.0	2.5	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010445-22SA-598	110.00	112.50	0.0	0.8	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010446-22SA-599	112.50	115.00	0.0	0.8	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010447-22SA-600	115.00	117.50	0.0	0.8	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010448-22SA-601	117.50	120.00	0.0	0.8	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010449-22SA-602	120.00	122.50	0.0	1.4	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010450-22SA-603	122.50	125.00	0.0	1.4	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010451-22SA-604	125.00	127.50	0.0	1.4	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010452-22SA-605	127.50	130.00	0.0	1.4	0.0	2.2	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010453-22SA-606	130.00	132.50	0.0	2.0	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010454-22SA-607	132.50	135.00	0.0	2.0	0.0	2.2	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010455-22SA-608	135.00	137.50	0.0	2.0	0.0	2.2	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010456-22SA-609	137.50	140.00	0.0	2.0	0.0	2.3	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010457-22SA-610	140.00	142.50	0.0	1.7	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010458-22SA-611	142.50	145.00	0.0	1.7	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010459-22SA-612	145.00	147.50	0.0	1.7	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010460-22SA-613	147.50	150.00	0.0	1.7	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/29/2001	KDD	8/12/2001	GH	BCS00010461-22SA-614	150.00	152.50	0.0	1.7	0.0	2.6	5.4				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010462-22SA-615	152.50	155.00	0.0	1.7	0.0	1.8	5.4				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010463-22SA-616	155.00	157.50	0.0	1.7	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010464-22SA-617	157.50	160.00	0.0	1.7	0.0	2.8	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010465-22SA-618	160.00	162.50	0.0	1.4	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010466-22SA-619	162.50	165.00	0.0	1.4	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010467-22SA-620	165.00	167.50	0.0	1.4	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010468-22SA-621	167.50	170.00	0.0	1.4	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010469-22SA-622	170.00	172.50	0.0	1.4	0.0	2.1	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010470-22SA-623	172.50	175.00	0.0	1.4	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010471-22SA-624	175.00	177.50	0.0	1.4	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010472-22SA-625	177.50	180.00	0.0	1.4	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010473-22SA-626	180.00	182.50	0.0	1.0	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010474-22SA-627	182.50	185.00	0.0	1.0	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010475-22SA-628	185.00	187.50	0.0	1.0	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010476-22SA-629	187.50	190.00	0.0	1.0	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010477-22SA-630	190.00	192.50	0.0	1.0	0.0	2.3	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010478-22SA-631	192.50	195.00	0.0	1.0	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010479-22SA-632	195.00	197.50	0.0	1.0	0.0	2.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010480-22SA-633	197.50	200.00	0.0	1.0	0.0	2.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010481-22SA-634	200.00	202.50	0.0	1.3	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010482-22SA-635	202.50	205.00	0.0	1.3	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010483-22SA-636	205.00	207.50	0.0	1.3	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010484-22SA-637	207.50	210.00	0.0	1.3	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010485-22SA-638	210.00	212.50	0.0	1.3	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010486-22SA-639	212.50	215.00	0.0	1.3	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010487-22SA-640	215.00	217.50	0.0	1.3	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010488-22SA-641	217.50	220.00	0.0	1.3	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010489-22SA-642	220.00	222.50	0.0	2.2	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010490-22SA-643	222.50	225.00	0.0	2.2	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/29/2001	KDD	8/12/2001	GH	BCS00010491	225.00	227.50	0.0	2.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010492	227.50	230.00	0.0	2.2	0.0	2.3	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010493	230.00	232.50	0.0	2.2	0.0	3.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010494	232.50	235.00	0.0	2.2	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010495	235.00	237.50	0.0	2.2	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010496	237.50	240.00	0.0	2.2	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010497	240.00	242.50	0.0	1.5	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010498	242.50	245.00	0.0	1.5	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010499	245.00	247.50	0.0	1.5	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010500	247.50	250.00	0.0	1.5	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010501	250.00	252.50	0.0	1.5	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010502	252.50	255.00	0.0	1.5	0.0	2.2	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010503	255.00	257.50	0.0	1.5	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010504	257.50	260.00	0.0	1.5	0.0	2.3	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010505	260.00	262.50	0.0	1.5	0.0	2.6	5.4				5YR 6/4	☑	☐	☐						▣	▣	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010506	262.50	265.00	0.0	1.5	0.0	2.1	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010507	265.00	267.50	0.0	1.5	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010508	267.50	270.00	0.0	1.5	0.0	2.8	5.4				5YR 5/4	☑	☐	☐						▣	▣	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010509	270.00	272.50	0.0	1.5	0.0	1.3	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010510	272.50	275.00	0.0	1.5	0.0	3.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010511	275.00	277.50	0.0	1.5	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						▣	▣	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010512	277.50	280.00	0.0	1.5	0.0	2.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010513	280.00	282.50	0.0	1.8	0.0	2.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010514	282.50	285.00	0.0	1.8	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010515	285.00	287.50	0.0	1.8	0.0	2.1	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010516	287.50	290.00	0.0	1.8	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010517	290.00	292.50	0.0	1.8	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010518	292.50	295.00	0.0	1.8	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010519	295.00	297.50	0.0	1.8	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						▣	▣	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010520	297.50	300.00	0.0	1.8	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						▣	▣	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/29/2001	KDD	8/12/2001	GH	BCS00010521	300.00	302.50	0.0	1.2	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010522	302.50	305.00	0.0	1.2	0.0	1.8	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010523	305.00	307.50	0.0	1.2	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010524	307.50	310.00	0.0	1.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010525	310.00	312.50	0.0	1.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/12/2001	GH	BCS00010526	312.50	315.00	0.0	1.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010527	315.00	317.50	0.0	1.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010528	317.50	320.00	0.0	1.2	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010529	320.00	322.50	0.0	1.2	0.0	1.9	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010530	322.50	325.00	0.0	1.2	0.0	3.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010531	325.00	327.50	0.0	1.2	0.0	1.6	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010532	327.50	330.00	0.0	1.2	0.0	2.3	5.4				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010533	330.00	332.50	0.0	1.2	0.0	2.2	5.4				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010534	332.50	335.00	0.0	1.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010535	335.00	337.50	0.0	1.2	0.0	2.6	5.4				5YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010536	337.50	340.00	0.0	1.2	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010537	340.00	342.50	0.0	0.9	0.0	2.6	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010538	342.50	345.00	0.0	0.9	0.0	2.5	5.4				5YR 5/6	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010539	345.00	347.50	0.0	0.9	0.0	2.6	5.4				5YR 5/6	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010540	347.50	350.00	0.0	0.9	0.0	2.7	5.4				5YR 5/6	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010541	350.00	352.50	0.0	1.3	0.0	2.5	5.4				5YR 5/6	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010542	352.50	355.00	0.0	1.3	0.0	2.6	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010543	355.00	357.50	0.0	1.3	0.0	2.8	5.4				5YR 5/6	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/29/2001	KDD	8/11/2001	GH	BCS00010544	357.50	360.00	0.0	1.3	0.0	2.4	5.4				5YR 5/6	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010545	360.00	362.50	0.0	2.0	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010546	362.50	365.00	0.0	2.0	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010547	365.00	367.50	0.0	2.0	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010548	367.50	370.00	0.0	2.0	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010549	370.00	372.50	0.0	1.3	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010550	372.50	375.00	0.0	1.3	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/30/2001	JSW	8/12/2001	GH	BCS00010551	375.00	377.50	0.0	1.3	0.0	3.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010552	377.50	380.00	0.0	1.3	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010553	380.00	382.50	0.0	1.3	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010554	382.50	385.00	0.0	1.3	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010555	385.00	387.50	0.0	1.3	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010556	387.50	390.00	0.0	1.3	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010557	390.00	392.50	0.0	1.3	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010558	392.50	395.00	0.0	1.3	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010559	395.00	397.50	0.0	1.3	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010560	397.50	400.00	0.0	1.3	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010561	400.00	402.50	0.0	1.4	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010562	402.50	405.00	0.0	1.4	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010563	405.00	407.50	0.0	1.4	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010564	407.50	410.00	0.0	1.4	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010565	410.00	412.50	0.0	1.4	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010566	412.50	415.00	0.0	1.4	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010567	415.00	417.50	0.0	1.4	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010568	417.50	420.00	0.0	1.4	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010569	420.00	422.50	0.0	1.8	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010570	422.50	425.00	0.0	1.8	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010571	425.00	427.50	0.0	1.8	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010572	427.50	430.00	0.0	1.8	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010573	430.00	432.50	0.0	1.8	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010574	432.50	435.00	0.0	1.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010575	435.00	437.50	0.0	1.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010576	437.50	440.00	0.0	1.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010577	440.00	442.50	0.0	2.0	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010578	442.50	445.00	0.0	2.0	0.0	3.1	5.4				10YR 6/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010579	445.00	447.50	0.0	2.0	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						▣	▣	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010580	447.50	450.00	0.0	2.0	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
7/30/2001	JSW	8/12/2001	GH	BCS00010581	450.00	452.50	0.0	2.0	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010582	452.50	455.00	0.0	2.0	0.0	3.2	5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010583	455.00	457.50	0.0	2.0	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010584	457.50	460.00	0.0	2.0	0.0	3.2	5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010585	460.00	462.50	0.0	2.0	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010586	462.50	465.00	0.0	2.0	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010587	465.00	467.50	0.0	2.0	0.0	3.1	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010588	467.50	470.00	0.0	2.0	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010589	470.00	472.50	0.0	2.0	0.0	3.1	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010590	472.50	475.00	0.0	2.0	0.0	2.7	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010591	475.00	477.50	0.0	2.0	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010592	477.50	480.00	0.0	2.0	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/25/2001	KDD	BCS00010593	480.00	482.50	0.0	0.8	0.0	1.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/25/2001	KDD	BCS00010594	482.50	485.00	0.0	0.8	1.0		5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/25/2001	KDD	BCS00010595	485.00	487.50	0.0	0.8	1.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/25/2001	KDD	BCS00010596	487.50	490.00	0.0	0.8	1.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/25/2001	KDD	BCS00010597	490.00	492.50	0.0	0.8	1.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/30/2001	JSW	8/12/2001	GH	BCS00010598	492.50	495.00	0.0	0.8	1.0		5.4				10YR 6/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010599	495.00	497.50	0.0	0.8	1.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010600	497.50	500.00	0.0	0.8	1.0		5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010601	500.00	502.50	0.0	0.9	0.4		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010602	502.50	505.00	0.0	0.9	0.0		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010603	505.00	507.50	0.0	0.9	1.1		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010604	507.50	510.00	0.0	0.9	2.3		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010605	510.00	512.50	0.0	0.9	0.5		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010606	512.50	515.00	0.0	0.9	0.0		5.4				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010607	515.00	517.50	0.0	0.9	2.9		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010608	517.50	520.00	0.0	0.9	0.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010609	520.00	522.50	0.0	1.1	2.2		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010610	522.50	525.00	0.0	1.1	0.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
8/17/2001	KDD	9/7/2001	JSW	BCS00010611	525.00	527.50	0.0	1.1	2.6		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010612	527.50	530.00	0.0	1.1	0.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010613	530.00	532.50	0.0	1.1	3.5		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010614	532.50	535.00	0.0	1.1	0.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010615	535.00	537.50	0.0	1.1	4.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010616	537.50	540.00	0.0	1.1	0.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010617	540.00	542.50	0.0	1.6	4.5		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010618	542.50	545.00	0.0	1.6	2.6		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010619	545.00	547.50	0.0	1.6	5.1		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/17/2001	KDD	9/7/2001	JSW	BCS00010620	547.50	550.00	0.0	1.6	0.0		5.4				5YR 5/6	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010621	550.00	552.50	0.0	1.6	5.8		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010622	552.50	555.00	0.0	1.6	0.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010623	555.00	557.50	0.0	1.6	5.1		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010624	557.50	560.00	2.0	1.6	0.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010625	560.00	565.00	2.0	2.5	2.7		5.4				5YR 4/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010626	565.00	570.00	2.0	2.5	4.0		5.4				5YR 3/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010627	570.00	575.00	2.0	2.5	3.3		5.4				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010628	575.00	580.00	2.0	2.5	2.7		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010629	580.00	585.00	2.0	2.1	4.7		5.4				5YR 3/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010630	585.00	590.00	2.0	2.1	2.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010631	590.00	595.00	2.0	2.1	2.7		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010632	595.00	600.00	2.0	2.1	1.3		5.4				5YR 6/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010633	600.00	605.00	2.0	1.4	0.8		5.4				5YR 5/6	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010634	605.00	610.00	2.0	1.4	0.9		5.4				5YR 4/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010635	610.00	615.00	2.0	1.4	2.2		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010636	615.00	620.00	2.0	1.4	2.7		5.4				5YR 5/6	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010637	620.00	625.00	2.0	4.0	5.1		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010638	625.00	630.00	2.0	4.0	5.1		5.4				5R 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010639	630.00	635.00	2.0	4.0	6.4		5.4				5YR 5/6	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010640	635.00	640.00	2.0	4.0	6.4		5.4				5YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
8/19/2001	HJA	8/25/2001	KDD	BCS00010641	640.00	645.00	2.0	1.4	2.2		5.4				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010642	645.00	650.00	2.0	1.4	1.5		5.4				5YR 5/6	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010643	650.00	655.00	2.0	1.4	4.5		5.4				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010644	655.00	660.00	2.0	1.4	3.0		5.4				5YR 4/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010645	660.00	665.00	2.0	2.0	7.5		5.4				5YR 4/4	☐	☐	☑						■	■	☐	☑	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010646	665.00	670.00	2.0	2.0	8.5		5.4				5YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010647	670.00	675.00	2.0	2.0	8.5		5.4				5YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☑	☐	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010648	675.00	680.00	2.0	2.0	5.3		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010649	680.00	685.00	2.0	1.5	4.8		5.4				5YR 3/4	☐	☐	☑						■	■	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010650	685.00	690.00	2.0	1.5	4.8		5.4				5YR 4/4	☐	☐	☑						■	■	☐	☐	☑	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/19/2001	HJA	8/25/2001	KDD	BCS00010651-22SA-802	690.00	695.00	2.0	1.5	4.8		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	8/25/2001	KDD	BCS00010652-22SA-803	695.00	700.00	2.0	1.5	5.6		5.4				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010653-22SA-804	700.00	705.00	2.0	0.6	2.9		5.4				5YR 5/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010654-22SA-805	705.00	710.00	2.0	2.5	4.0		5.4				5YR 5/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010655-22SA-806	710.00	715.00	2.0	1.7	5.4		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010656-22SA-807	715.00	720.00	2.0	1.7	3.6		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010657-22SA-808	720.00	725.00	2.0	2.0	22.4		5.4				5YR 5/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010658-22SA-809	725.00	730.00	2.0	2.0	25.6		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010659-22SA-810	730.00	735.00	2.0	1.7	8.2		5.4				5YR 5/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010660-22SA-811	735.00	740.00	2.0	1.7	8.2		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010661-22SA-812	740.00	745.00	2.0	2.2	21.1		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010662-22SA-813	745.00	750.00	2.0	2.2	10.6		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010663-22SA-814	750.00	755.00	2.0	2.2	10.6		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010664-22SA-815	755.00	760.00	2.0	2.2	14.1		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010665-22SA-816	760.00	765.00	2.0	3.3	28.5		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010666-22SA-817	765.00	770.00	2.0	3.3	10.6		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010667-22SA-818	770.00	775.00	2.0	2.5	20.0		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010668-22SA-819	775.00	780.00	2.0	2.5	12.0		5.4				5YR 5/6	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010669-22SA-820	780.00	785.00	2.0	3.3	15.8		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☐	☐	☑		☐	☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	100		
8/21/2001	KDD	9/5/2001	JSW	BCS00010670-22SA-821	785.00	790.00	2.0	3.3	15.8		5.4				5YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
8/21/2001	KDD	9/7/2001	JSW	BCS00010671-22SA-822	790.00	795.00	2.0	2.5	12.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010672-22SA-823	795.00	800.00	2.0	2.5	12.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010673-22SA-824	800.00	805.00	2.0	2.5	16.0		5.4				5R 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010674-22SA-825	805.00	810.00	2.0	2.5	8.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010675-22SA-826	810.00	815.00	2.0	1.7	10.9		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010676-22SA-827	815.00	820.00	2.0	1.7	9.5		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010677-22SA-828	820.00	825.00	2.0	2.5	12.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010678-22SA-829	825.00	830.00	2.0	2.5	8.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☐	☑	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010679-22SA-830	830.00	835.00	2.0	2.5	12.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010680-22SA-831	835.00	840.00	2.0	2.5	16.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010681-22SA-832	840.00	845.00	2.0	3.3	10.6		5.4				5YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010682-22SA-833	845.00	850.00	2.0	3.3	10.6		5.4				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010683-22SA-834	850.00	855.00	2.0	2.5	12.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010684-22SA-835	855.00	860.00	2.0	2.5	8.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010685-22SA-836	860.00	865.00	2.0	2.5	12.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010686-22SA-837	865.00	870.00	2.0	2.5	8.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010687-22SA-838	870.00	875.00	2.0	2.0	12.8		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010688-22SA-839	875.00	880.00	2.0	2.0	22.4		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010689-22SA-840	880.00	885.00	2.0	1.4	15.7		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010690-22SA-841	885.00	890.00	2.0	1.4	15.7		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010691-22SA-842	890.00	895.00	2.0	1.7	23.4		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010692-22SA-843	895.00	900.00	2.0	1.7	16.3		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010693-22SA-844	900.00	905.00	2.0	1.4	9.0		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010694-22SA-845	905.00	910.00	2.0	1.4	4.5		5.4				5YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010695-22SA-846	910.00	915.00	2.0	3.3	15.8		5.4				5YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010696-22SA-847	915.00	920.00	2.0	3.3	26.4		5.4				5YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010697-22SA-848	920.00	925.00	2.0	1.7	33.7		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010698-22SA-849	925.00	930.00	2.0	1.7	13.6		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010699-22SA-850	930.00	935.00	2.0	2.5	28.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010700-22SA-851	935.00	940.00	2.0	2.5	20.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
8/21/2001	KDD	9/7/2001	JSW	BCS00010701-22SA-852	940.00	945.00	2.0	1.7	20.7		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010702-22SA-853	945.00	950.00	2.0	1.7	21.2		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010703-22SA-854	950.00	955.00	2.0	1.7	20.7		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010704-22SA-855	955.00	960.00	2.0	1.7	28.8		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010705-22SA-856	960.00	965.00	2.0	2.0	12.8		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010706-22SA-857	965.00	970.00	2.0	2.0	21.8		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010707-22SA-858	970.00	975.00	2.0	2.5	31.2		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010708-22SA-859	975.00	980.00	2.0	2.5	27.2		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010709-22SA-860	980.00	985.00	2.0	2.5	24.0		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010710-22SA-861	985.00	990.00	2.0	2.5	20.8		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010711-22SA-862	990.00	995.00	2.0	1.7	23.4		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010712-22SA-863	995.00	1000.00	2.0	1.7	28.8		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010713-22SA-864	1000.00	1005.00	2.0	2.0	28.8		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010714-22SA-865	1005.00	1010.00	2.0	2.0	25.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010715-22SA-866	1010.00	1015.00	2.0	2.5	23.2		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010716-22SA-867	1015.00	1020.00	2.0	2.5	32.8		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010717-22SA-868	1020.00	1025.00	2.0	3.3	50.7		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010718-22SA-869	1025.00	1030.00	2.0	3.3	28.5		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010719-22SA-870	1030.00	1035.00	2.0	1.1	19.4		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010720-22SA-871	1035.00	1040.00	2.0	1.1	23.2		5.4				5YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010721-22SA-872	1040.00	1045.00	2.0	2.0	23.0		5.4				5YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010722-22SA-873	1045.00	1050.00	2.0	2.0	17.9		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010723-22SA-874	1050.00	1055.00	2.0	1.7	19.0		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010724-22SA-875	1055.00	1060.00	2.0	1.7	39.2		5.4				5YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☑	☐	☐	☑	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010725-22SA-876	1060.00	1065.00	2.0	2.0	32.0		5.4				5YR 4/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010726-22SA-877	1065.00	1070.00	2.0	2.0	37.1		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010727-22SA-878	1070.00	1075.00	2.0	2.0	35.8		5.4				10YR 6/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010728-22SA-879	1075.00	1080.00	2.0	2.0	12.8		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010729-22SA-880	1080.00	1085.00	2.0	2.0	39.7		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010730-22SA-881	1085.00	1090.00	2.0	2.0	28.2		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		

Alluvium Drill Cuttings Logging Form - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-22SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 1110 Start Date: 7/28/2001 End Date: 8/1/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs)		Drilling Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Gra-ding		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
					From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
8/21/2001	KDD	9/7/2001	JSW	BCS00010731-22SA-882	1090.00	1095.00	2.0	2.5	32.0		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010732-22SA-883	1095.00	1100.00	2.0	2.5	24.0		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010733-22SA-884	1100.00	1105.00	2.0	1.7	26.1		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		
8/21/2001	KDD	9/7/2001	JSW	BCS00010734-22SA-885	1105.00	1110.00	2.0	1.7	45.7		5.4				10YR 6/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	100		