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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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	Sand	Silt	Clay	Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Low	Moderate	High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Subangular	Subrounded	Rounded	Cementation: None	Weak	Moderate	Strong	HCL Reaction: None	Weak	Strong	Major Rock Type (%): Volcanics	Carbonates	Other
7/10/2001	JSW	7/10/2001	DPH	BCS00008901	0.00	2.50	0.0	1.5	0.0	2.5	5.1				10YR 5/4	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008902	2.50	5.00	0.0	1.5	0.0	5.5	5.1				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008903	5.00	7.50	0.0	1.5	0.0	2.7	5.1				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008904	7.50	10.00	5.0	1.1	0.0	5.4	5.1				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008905	10.00	12.50	5.0	1.1	0.0	1.5	5.1				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008906	12.50	15.00	5.0	1.1	0.0	5.3	5.1				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008907	15.00	17.50	5.0	1.1	0.0	2.5	5.1				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008908	17.50	20.00	5.0	1.1	0.0	5.0	5.1				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	DPH	BCS00008909	20.00	22.50	5.0	1.1	0.0	4.3	5.1				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/13/2001	JSW	7/10/2001	GH	BCS00008910	22.50	25.00	0.0	2.5	0.0	1.4	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008911	25.00	27.50	0.0	2.5	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008912	27.50	30.00	0.0	2.5	0.0	1.9	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008913	30.00	32.50	0.0	2.5	0.0	1.5	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008914	32.50	35.00	0.0	2.5	0.0	2.2	5.4				10YR 5/4	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008915	35.00	37.50	0.0	2.5	0.0	1.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008916	37.50	40.00	0.0	2.5	0.0	2.0	5.4				10YR 5/4	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
8/28/2001	JSW	8/11/2001	GH	BCS00008917	40.00	42.50	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
8/28/2001	JSW	8/11/2001	GH	BCS00008918	42.50	45.00	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
8/28/2001	JSW	8/11/2001	GH	BCS00008919	45.00	47.50	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	▒	▒	▒	▒		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008920	47.50	50.00	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008921	50.00	52.50	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008922	52.50	55.00	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008923	56.30	57.50	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008924	57.50	60.00	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008925	60.00	62.50	2.0	1.3	0.0	0.5	5.4					☐	☐	☑						▒	▒	▒	▒	▒	▒		▒	▒	▒	▒	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008926	62.50	65.00	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008927	65.00	67.50	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008928	67.50	70.00	2.0	1.3	0.0	0.5	5.4					☐	☐	☑						▒	▒	▒	▒	▒	▒		▒	▒	▒	▒	☐	☑	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	8/11/2001	GH	BCS00008929	70.00	72.50	2.0	1.3	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/28/2001	GH	BCS00008930	72.50	75.00	2.0	1.3	0.0	0.5	5.4				10YR 4/2	☐	☐	☑						▒	▒	☑	☐	☐	☐		▒	▒	▒	▒	▒	▒	▒	▒	▒	▒	▒			

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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
7/17/2001	PM	8/11/2001	GH	BCS00008931	75.00	77.50	2.0	1.3	0.0	0.0	5.4				10YR 4/2	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00008932	77.50	80.00	2.0	1.3	0.0	0.0	5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008933	80.00	82.50	0.0	0.8	0.0	0.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008934	82.50	85.00	0.0	0.8	0.0	0.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008935	85.00	87.50	0.0	0.8	0.0	0.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008936	87.50	90.00	0.0	0.8	0.0	0.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008937	90.00	92.50	0.0	0.8	0.0	0.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008938	92.50	95.00	0.0	0.8	0.0	0.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008939	95.00	97.50	0.0	0.8	0.0	0.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008940	97.50	100.00	0.0	0.8	0.0	3.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008941	100.00	102.50	0.0	0.8	0.0	3.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008942	102.50	105.00	0.0	0.8	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008943	105.00	107.50	0.0	0.8	0.0	3.5	5.4				10YR 4/2	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008944	107.50	110.00	0.0	0.8	0.0	1.9	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008945	110.00	112.50	0.0	0.8	0.0	2.1	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008946	112.50	115.00	0.0	0.8	0.0	2.6	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008947	115.00	117.50	0.0	0.8	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008948	117.50	120.00	0.0	0.8	0.0	3.4	5.4				10YR 4/2	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008949	120.00	122.50	0.0	0.8	0.0	3.1	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008950	122.50	125.00	0.0	0.8	0.0	2.4	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008951	125.00	127.50	0.0	0.8	0.0	2.7	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008952	127.50	130.00	0.0	0.8	0.0	4.5	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008953	130.00	132.50	0.0	0.8	0.0	2.4	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008954	132.50	135.00	0.0	0.8	0.0	2.5	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008955	135.00	137.50	0.0	0.8	0.0	2.8	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008956	137.50	140.00	0.0	0.8	0.0	2.6	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008957	140.00	142.50	0.0	0.8	0.0	2.5	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008958	142.50	145.00	0.0	0.8	0.0	1.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008959	145.00	147.50	0.0	0.8	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008960	147.50	150.00	0.0	0.8	0.0	1.3	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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
7/10/2001	JSW	7/10/2001	GH	BCS00008961	150.00	152.50	0.0	0.8	0.0	3.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008962	152.50	155.00	0.0	0.8	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008963	155.00	157.50	0.0	0.8	0.0	2.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008964	157.50	160.00	0.0	0.8	0.0	3.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008965	160.00	162.50	0.0	0.8	0.0	1.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008966	162.50	165.00	0.0	0.8	0.0	2.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008967	165.00	167.50	0.0	0.8	0.0	2.2	5.4				10YR 5/4	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008968	167.50	170.00	0.0	0.8	0.0	2.2	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008969	170.00	172.50	0.0	0.8	0.0	3.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008970	172.50	175.00	0.0	0.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008971	175.00	177.50	0.0	0.8	0.0	3.5	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/10/2001	JSW	7/10/2001	GH	BCS00008972	177.50	180.00	0.0	0.8	0.0	3.4	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008973	180.00	182.50	0.0	0.7	0.0	2.8	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008974	182.50	185.00	0.0	0.7	0.0	2.5	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008975	185.00	187.50	0.0	0.7	0.0	2.4	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008976	187.50	190.00	0.0	0.7	0.0	1.2	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008977	190.00	192.50	0.0	0.7	0.0	2.6	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008978	192.50	195.00	0.0	0.7	0.0	2.0	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008979	195.00	197.50	0.0	0.7	0.0	2.8	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008980	197.50	200.00	0.0	0.7	0.0	5.0	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008981	200.00	202.50	0.0	0.7	0.0	1.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008982	202.50	205.00	0.0	0.7	0.0	2.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008983	205.00	207.50	0.0	0.7	0.0	0.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008984	207.50	210.00	0.0	0.7	0.0	3.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008985	210.00	212.50	0.0	0.7	0.0	2.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008986	212.50	215.00	0.0	0.7	0.0	3.1	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008987	215.00	217.50	0.0	0.7	0.0	2.4	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008988	217.50	220.00	0.0	0.7	0.0	3.0	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008989	220.00	222.50	0.0	1.0	0.0	2.5	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008990	222.50	225.00	0.0	1.0	0.0	2.7	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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 (%)					Grading		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
7/11/2001	JSW	7/15/2001	GH	BCS00008991	225.00	227.50	0.0	1.0	0.0	2.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008992	227.50	230.00	0.0	1.0	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008993	230.00	232.50	0.0	1.0	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008994	232.50	235.00	0.0	1.0	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008995	235.00	237.50	0.0	1.0	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008996	237.50	240.00	0.0	1.0	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008997	240.00	242.50	0.0	0.8	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00008998	242.50	245.00	0.0	0.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/14/2001	GH	BCS00008999	245.00	247.50	0.0	0.8	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009000	247.50	250.00	0.0	0.8	0.0	3.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009001	250.00	252.50	0.0	0.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009002	252.50	255.00	0.0	0.8	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009003	255.00	257.50	0.0	0.8	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009004	257.50	260.00	0.0	0.8	0.0	3.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009005	260.00	262.50	0.0	0.9	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009006	262.50	265.00	0.0	0.9	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009007	265.00	267.50	0.0	0.9	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009008	267.50	270.00	0.0	0.9	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009009	270.00	272.50	0.0	0.9	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009010	272.50	275.00	0.0	0.9	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009011	275.00	277.50	0.0	0.9	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009012	277.50	280.00	0.0	0.9	0.0	3.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009013	280.00	282.50	0.0	0.5	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009014	282.50	285.00	0.0	0.5	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009015	285.00	287.50	0.0	0.5	0.0	2.5	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009016	287.50	290.00	0.0	0.5	0.0	3.1	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009017	290.00	292.50	0.0	0.5	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009018	292.50	295.00	0.0	0.5	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009019	295.00	297.50	0.0	0.5	0.0	3.5	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009020	297.50	300.00	0.0	0.5	0.0	3.8	5.4				10YR 5/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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
7/11/2001	JSW	7/15/2001	GH	BCS00009021	300.00	302.50	0.0	0.6	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009022	302.50	305.00	0.0	0.6	0.0	3.5	5.4				10YR 5/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009023	305.00	307.50	0.0	0.6	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009024	307.50	310.00	0.0	0.6	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009025	310.00	312.50	0.0	0.6	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009026	312.50	315.00	0.0	0.6	0.0	3.0	5.4				10YR 4/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009027	315.00	317.50	0.0	0.6	0.0	2.5	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009028	317.50	320.00	0.0	0.6	0.0	3.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009029	320.00	322.50	0.0	0.6	0.0	2.1	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009030	322.50	325.00	0.0	0.3	0.0	2.3	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009031	325.00	327.50	0.0	0.5	0.0	2.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009032	327.50	330.00	0.0	0.5	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009033	330.00	332.50	0.0	0.5	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009034	332.50	335.00	0.0	0.5	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009035	335.00	337.50	0.0	0.5	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009036	337.50	340.00	0.0	0.5	0.0	3.2	5.4				10YR 4/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009037	340.00	342.50	0.0	0.9	0.0	2.2	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009038	342.50	345.00	0.0	0.9	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/15/2001	GH	BCS00009039	345.00	347.50	0.0	0.9	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009040	347.50	350.00	0.0	0.9	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009041	350.00	352.50	0.0	1.6	0.0	3.1	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009042	352.50	355.00	0.0	1.6	0.0	3.5	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009043	355.00	357.50	0.0	1.0	0.0	2.3	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009044	357.50	360.00	0.0	1.0	0.0	3.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009045	360.00	362.50	0.0	1.0	0.0	2.8	5.4				10YR 4/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009046	362.50	365.00	0.0	1.0	0.0	3.1	5.4				10YR 4/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009047	365.00	367.50	0.0	0.8	0.0	2.1	5.4				10YR 4/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009048	367.50	370.00	0.0	0.8	0.0	3.7	5.4				10YR 4/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	7/16/2001	GH	BCS00009049	370.00	372.50	0.0	0.9	0.0	2.0	5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009050	372.50	375.00	0.0	0.9	0.0	2.9	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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
7/11/2001	JSW	8/11/2001	GH	BCS00009051	375.00	377.50	0.0	0.9	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009052	377.50	380.00	0.0	0.9	0.0	4.5	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009053	380.00	382.50	0.0	1.1	0.0	2.6	5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009054	382.50	385.00	0.0	1.1	0.0	3.4	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009055	385.00	387.50	0.0	1.1	0.0	3.2	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009056	387.50	390.00	0.0	1.1	0.0	1.2	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009057	390.00	392.50	0.0	0.8	0.0	3.8	5.4				5YR 4/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009058	392.50	395.00	0.0	0.8	0.0	3.0	5.4				5YR 4/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009059	395.00	397.50	0.0	0.8	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/25/2001	KDD	BCS00009060	397.50	400.00	0.0	0.8	0.0	3.2	5.4				10YR 5/4	☐	☑	☐						■	■	■	■	■	■		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009061	400.00	402.50	0.0	1.2	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009062	402.50	405.00	0.0	1.2	0.0	3.1	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009063	405.00	407.50	0.0	1.2	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009064	407.50	410.00	0.0	1.2	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009065	410.00	412.50	0.0	1.2	0.0	2.9	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009066	412.50	415.00	0.0	1.2	0.0	3.5	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009067	415.00	417.50	0.0	1.2	0.0	3.7	5.4				10YR 5/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009068	417.50	420.00	0.0	1.2	0.0	3.8	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/28/2001	GH	BCS00009069	420.00	422.50	0.0	1.2	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	■	■	■	■		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009070	422.50	425.00	0.0	0.4	0.0	1.3	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009071	425.00	427.50	0.0	0.4	0.0	2.6	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009072	427.50	430.00	0.0	0.4	0.0	4.1	5.4				10YR 5/4	☐	☑	☐						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009073	430.00	432.50	0.0	0.4	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009074	432.50	435.00	0.0	0.4	0.0	2.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009075	435.00	437.50	0.0	0.4	0.0	3.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009076	437.50	440.00	0.0	0.4	0.0	5.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009077	440.00	442.50	0.0	0.4	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009078	442.50	445.00	0.0	0.4	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009079	445.00	447.50	0.0	0.4	0.0	4.8	5.4				10YR 5/4	☐	☑	☐						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009080	447.50	450.00	0.0	0.4	0.0	3.2	5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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
7/11/2001	JSW	8/25/2001	KDD	BCS00009081	450.00	452.50	0.0	0.4	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		■	■	■	■	■	■	■	■	■	■	■	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009082	452.50	455.00	0.0	0.4	0.0	2.3	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/25/2001	KDD	BCS00009083	455.00	457.50	0.0	0.4	0.0	0.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009084	457.50	460.00	0.0	0.4	0.0	2.2	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009085	460.00	462.50	0.0	0.3	0.0	3.0	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009086	462.50	465.00	0.0	0.1	0.0	1.5	5.4				10YR 4/2	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009087	465.00	467.50	0.0	0.2	0.0	3.0	5.4				10YR 4/2	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/11/2001	JSW	8/11/2001	GH	BCS00009088	467.50	470.00	0.0	0.2	0.0	1.8	5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009089	470.00	472.50	0.0	0.6	0.0	2.1	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009090	472.50	475.00	0.0	0.6	0.0	12.5	5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009091	475.00	477.50	0.0	0.6	0.0	2.2	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009092	477.50	480.00	0.0	0.6	0.0	4.0	5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009093	480.00	482.50	0.0	0.6	0.0	1.9	5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009094	482.50	485.00	0.0	0.6	0.0	2.5	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009095	485.00	487.50	0.0	0.6	0.0	4.8	5.4				10YR 5/4	☐	☑	☐						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009096	487.50	490.00	0.0	0.6	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009097	490.00	492.50	0.0	0.6	0.0	3.3	5.4				5YR 5/6	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009098	492.50	495.00	0.0	0.6	0.0	4.2	5.4				5YR 5/6	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009099	495.00	497.50	0.0	0.6	0.0	4.7	5.4				5YR 5/6	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009100	497.50	500.00	0.0	0.6	0.0	3.9	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009101	500.00	502.50	0.0	0.6	0.0	1.0	5.4				10YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/12/2001	JSW	8/11/2001	GH	BCS00009102	502.50	505.00	0.0	0.6	0.0	2.3	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/31/2001	PM	8/11/2001	GH	BCS00009103	505.00	507.50	0.0	0.6	0.0	2.2	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009104	507.50	510.00	0.0	0.6	0.0	1.4	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009105	510.00	512.50	0.0	0.6	0.0	1.0	5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009106	512.50	515.00	0.0	0.6	0.0	2.7	5.4				10YR 5/4	☐	☐	☑						■	■	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009107	515.00	517.50	0.0	0.6	0.0	1.6	5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009108	517.50	520.00	0.0	0.6	0.0	2.4	5.4				10YR 5/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/11/2001	GH	BCS00009109	520.00	522.50	0.0	0.8	0.0	0.5	5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009110	522.50	525.00	0.0	0.8	5.0		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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
7/25/2001	PM	8/28/2001	GH	BCS00009111	525.00	527.50	0.0	0.8	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009112	527.50	530.00	0.0	0.8	5.0		5.4				10YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009113	530.00	532.50	0.0	0.8	5.0		5.4				10YR 4/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009114	532.50	535.00	0.0	0.8	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/25/2001	PM	8/28/2001	GH	BCS00009115	535.00	537.50	0.0	0.8	5.0		5.4				10YR 6/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009116	537.50	540.00	0.0	0.8	5.0		5.4				10YR 6/6	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009117	540.00	542.50	0.0	0.7	5.0		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/31/2001	PM	8/28/2001	GH	BCS00009118	542.50	545.00	0.0	0.7	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/31/2001	PM	8/28/2001	GH	BCS00009119	545.00	547.50	0.0	0.7	5.0		5.4				10YR 6/6	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009120	547.50	550.00	0.0	0.7	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009121	550.00	552.50	0.0	1.0	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009122	552.50	555.00	0.0	1.0	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/25/2001	PM	8/28/2001	GH	BCS00009123	555.00	557.50	0.0	1.0	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/31/2001		12/31/2001		BCS00009124	557.50	560.00	0.0	1.0	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009125	560.00	565.00	0.0	2.0	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009127	565.00	570.00	0.0	2.0	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009129	570.00	575.00	0.0	2.0	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009131	575.00	580.00	0.0	2.0	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009133	580.00	585.00	0.0	1.1	5.0		5.4					☐	☐	☑						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009135	585.00	590.00	0.0	1.1	5.0		5.4					■	■	■						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009137	590.00	595.00	0.0	1.1	5.0		5.4					■	■	■						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009139	595.00	600.00	0.0	1.1	5.0		5.4					■	■	■						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
12/31/2001		12/31/2001		BCS00009140	600.00	605.00	0.0	1.1	5.0		5.4					■	■	■						■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
7/17/2001	PM	8/11/2001	GH	BCS00009143	605.00	610.00	0.0	1.6	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009145	610.00	615.00	0.0	1.6	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009147	615.00	620.00	0.0	1.6	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009149	620.00	625.00	0.0	1.6	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009151	625.00	630.00	0.0	1.6	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009153	630.00	635.00	0.0	1.6	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009155	635.00	640.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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 (%)					Grading		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
7/17/2001	PM	8/11/2001	GH	BCS00009157	640.00	645.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009159	645.00	650.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009161	650.00	655.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009163	655.00	660.00	0.0	2.0	15.0		5.4				5YR 5/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009165	660.00	665.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009167	665.00	670.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009169	670.00	675.00	0.0	2.0	15.0		5.4				5YR 6/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009171	675.00	680.00	0.0	2.0	15.0		5.4				5YR 6/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009173	680.00	685.00	0.0	2.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009175	685.00	690.00	0.0	1.5	20.0		5.4				5YR 5/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009177	690.00	695.00	0.0	1.5	20.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009179	695.00	700.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009181	700.00	705.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009183	705.00	710.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009185	710.00	715.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009187	715.00	720.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009189	720.00	725.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009191	725.00	730.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009193	730.00	735.00	0.0	1.5	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009195	735.00	740.00	0.0	2.0	25.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009197	740.00	745.00	0.0	1.2	25.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009199	745.00	750.00	0.0	1.2	25.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009201	750.00	755.00	0.0	1.2	25.0		5.4				10YR 6/2	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009203	755.00	760.00	0.0	1.2	25.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009205	760.00	765.00	0.0	2.0	25.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009207	765.00	770.00	0.0	2.0	25.0		5.4				5YR 3/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/17/2001	PM	8/11/2001	GH	BCS00009209	770.00	775.00	0.0	2.0	25.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/17/2001	PM	8/11/2001	GH	BCS00009211	775.00	780.00	0.0	2.0	25.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009213	780.00	785.00	0.0	0.7	25.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009215	785.00	790.00	0.0	1.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM1A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 820 Start Date: 7/10/2001 End Date: 7/12/2001

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 (%)					Grading		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
7/17/2001	PM	8/11/2001	GH	BCS00009217	790.00	795.00	0.0	1.0	15.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009219	795.00	800.00	0.0	1.0	20.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009241	800.00	805.00	0.0	1.0	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009242	805.00	810.00	0.0	1.0	20.0		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009243	810.00	815.00	0.0	1.0	20.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	PM	8/11/2001	GH	BCS00009244	815.00	820.00	0.0	1.0	20.0		5.4				10YR 6/6	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		