

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-12PC Drill Depth From 0 To 66 (T.D.=250.0') Page 1 of 4
Driller BEYAN MORRIS Start Date/Time 4-11-00/0910 End Date/Time 4-11-00/1405
Drilling Equip./Method AP-1000 Sampling Equip. Method CYCLONE / AIR
9.5" CROWD-OUT BIT

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
0	BCS0000 6901	SILTY SAND: Some fine subang. subrad gravel, fine sand, very pale orange (10YR 8/2)			SPIC STRONG HCL REACT
2	MIN				STRONG HCL REACT
3	BCS0000 6902				
4	1 MIN	GRAVELLY SILTY SAND: Predom fine gravel fine sand, very pale orange (10YR 8/2)			WEAK HCL REACTION
5	BCS0000 6903				
6	2 MIN				
7	BCS0000 6904				NO HCL REACTION
8	1 MIN				
9	BCS0000 6905				NO HCL REACTION
10	1 MIN	SANDY GRAVEL: Well graded sand, predom fine subrad - subang. gravel, very pale orange (10YR 8/2), some silt.			
11	BCS0000 6906				NO HCL REACTION
12	1 MIN				
13	BCS0000 6907				NO HCL REACTION
14	1 MIN				
15	BCS0000 6908				NO HCL REACTION
16	1 MIN	SANDY GRAVEL & GRAVELLY SAND: Trace - some silt, well graded sand, predom fine subrad gravel, Lt brn (5YR 6/4) Some non-calc cementation			
17	BCS0000 6909				NO HCL REACTION
18	1 MIN				
19	BCS0000 6910				NO HCL REACTION
20	1 MIN				
21	BCS0000 6911				NO HCL REACTION
22	1 MIN				
23	BCS0000 6912				
24	2 MIN				

QUALITY ASSURANCE RECORD
APR 26 2000
THIS IS A RED STAMP
DO NOT REMOVE FROM FILE

Prepared By KEN DONNELSON Date 4/11/00 Checked By ARTHUR J. MENEN Date 04-13-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-12PC Drill Depth From 60 To 125 Page 2 of 4

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
65	BCS0000 6913 1 MIN	Increased gravel & silt			No HCl REACTION
	BCS0000 6914 2 MIN				STRONG HCl REACTION
75	BCS0000 6915 1 MIN	SANDY GRAVEL; some silt, well graded sand & gravel, Lt brn (SYR 6/4)			STRONG HCl REACTION
	BCS0000 6916 2 MIN				STRONG HCl REACTION
80	BCS0000 6917 2 MIN	Increased sand			STRONG HCl REACTION
85	BCS0000 6918 2 MIN	Abundant caliche cemented sand & pebbles			STRONG HCl REACTION
90	BCS0000 6919 2 MIN	GRAVELLY SAND; Predom fine subang-subrnd gravel, well graded sand, trace - some silt, Lt brn (SYR 6/4-5/6) Inject H2O.			MOD HCl REACTION
95	BCS0000 6920 2 MIN				STRONG HCl REACTION
100	BCS0000 6921 2 MIN	Increased sand (coarse)			STRONG HCl REACTION
105	BCS0000 6922 2 MIN	Well graded sand, decreased gravel			
110	BCS0000 6923 2 MIN				No HCl REACTION
115	BCS0000 6924 1 MIN				No HCl REACTION
120	BCS0000 6925 2 MIN	trace - some cobbles			No HCl REACTION
125	1 MIN				

Prepared By KEN DONNELSON Date 4/11/00 Checked By ARTHUR J. MENENAU Date 04-13-00

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CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-12PC Drill Depth From 125 To 190 Page 3 of 4

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
	BCS0000 6926				NO HCl REACTION
130	3 MIN BCS0000 6927	Trace of clay			NO HCl REACTION
	3 MIN BCS0000 6928	Increased clay & fine gravel			NO HCl REACTION
140	1 MIN BCS0000 6929	Decreased clay & increased coarse sand & fine gravel			NO HCl REACTION
145	2 MIN BCS0000 6930	CLAYEY GRAVELLY SAND: Predom fine subang gravel, well graded sand, low-mod plasticity Lt brn (SYR 5/6) - mod brn (SYR 4/4)			NO HCl REACTION
150	3 MIN BCS0000 6931	Increased clay			NO HCl REACTION
155	5 MIN BCS0000 6932	Decreased clay Lt brn (SYR 6/4 - 5/6)			NO HCl REACTION
160	5 MIN BCS0000 6933				NO HCl REACTION
165	3 MIN BCS0000 6934	Some coarse gravel Yielding water at 165-170'			NO HCl REACTION
170	3 MIN BCS0000 6935				NO HCl REACTION
175	2 MIN BCS0000 6936	4-13-00 Increased clay & coarse gravel			NO HCl REACTION
180	3 MIN BCS0000 6937	Decreased gravel & clay			NO HCl REACTION
185	2 MIN BCS0000 6938	Trace clay, Predom coarse sand & fine gravel			NO HCl REACTION
190	2 MIN				

Prepared By KEN DONNELSON Date 4-11-00 Checked By ARTHUR J. MEYER Date 04-13-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-12PC Drill Depth From 190 To 250 Page 4 of 4

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
195	BCS0000 6939 3 MIN BCS0000 6940 1 MIN BCS0000 6941	PSA GRAVEL: Fine subangular, well sorted			No HCl REACTION
205	1 MIN BCS0000 6942				No HCl REACTION
210	3 MIN BCS0000 6943	CLAYEY SAND & GRAVEL: Predom fine subang gravel & well graded sand, low plasticity Lt brn (5YR 6/4-5/6)			No HCl REACTION
215	1 MIN BCS0000 6944	Increased coarse gravel, cobbles & clay Decreased clay			No HCl REACTION
220	2 MIN BCS0000 6945	Increased clay Decreased clay			No HCl REACTION
225	2 MIN BCS0000 6946				No HCl REACTION
230	2 MIN BCS0000 6947	SILTY CLAY: Some very fine sand, med plasticity Mod brn (5YR 4/4) mottled with pale yel brn (10YR 6/2)			No HCl REACTION
235	2 MIN BCS0000 6948				No HCl REACTION
240	2 MIN BCS0000 6949	Increased v. fine sand, trace Mn Ox dendrites			No HCl REACTION
245	MIN BCS0000 6950				No HCl REACTION
250	2 MIN				4-11-00/1405 T.D.

Prepared By KEN DONNELSON Date 04-11-00 Checked By ARTHUR J. MENDENHALL Date 04-13-00