

**APPENDIX D-2**  
**Shallow Soil Boring Logs**

**THIS PAGE INTENTIONALLY LEFT BLANK**



# Borehole ID: KAFB-106143

**Client:** US Army Corps of Engineers  
**Project Location:** KAFB, Albuquerque, NM  
**Project Name:** KAFB BFF SWMU ST-106 and SS-111  
**Project Number:** 140705

Hole Diameter Upper (in.): 2  
 Hole Diameter Lower (in.): 2  
 Surface Completion Type:

**Date Started:** 2/17/2011  
**Date TD Reached:** 2/17/2011  
**Date Completed:** 2/17/2011

**Groundwater Levels BGS (ft):**  
 ▽ At Time of Drilling: N/A  
 ▼ At End of Drilling: N/A  
 ▽ After Drilling: N/A

**Ground Elevation AMSL (ft):** 5345.1  
**Y Coordinate:** 1472820.46  
**X Coordinate:** 1542550.46

**Drilling Contractor:** JR Drilling  
**Drilling Method:** Direct Push (Geoprobe)  
**Logged By:** Dale Flores

KAFB\_BOREHOLE\_LOG - SHAW\_DRILLING.GDT - 4/27/11 14:50 - Z:\KAFB BFF\GINT\KAFB\_PROJECT\KAFB\_BFF.GPJ

Depth (ft)	Sample Type	Number	Headspace PID	Lithologic Log	Material Description	U.S.C.S.	Well Diagram	Remarks
0								
0		106143-00	0.0		Poorly graded SAND with Silt (SP-SM); pinkish white; (7.5YR 8/2); dry; very loose; 90% very fine sand to 0.1mm; rounded; 10% silt; no odor.	SP-SM		Description from hand auger cuttings.
5		106143-05	0.0		Silty SAND (SM); reddish yellow (7.5YR 6/6); dry; very loose; 80% very fine sand; subrounded; 5% fine gravel to 5mm; subrounded; 15% silt; no odor.	SM		
10		106143-10	0.0		Same as above (5 ft).			
15		106143-15	0.0		SILT (ML); strong brown (7.5YR 4/6); dry; firm; non plastic; 90% silt; 10% very fine sand to 0.2mm; no odor.			
20		106143-20	0.0		Same as above (12 ft).	ML		
25								Total depth = 20 ft.
30								

**THIS PAGE INTENTIONALLY LEFT BLANK**



# Borehole ID: KAFB-106144

**Client:** US Army Corps of Engineers  
**Project Location:** KAFB, Albuquerque, NM  
**Project Name:** KAFB BFF SWMU ST-106 and SS-111  
**Project Number:** 140705

Hole Diameter Upper (in.): 2  
 Hole Diameter Lower (in.): 2  
 Surface Completion Type:

**Date Started:** 2/16/2011  
**Date TD Reached:** 2/16/2011  
**Date Completed:** 2/16/2011

**Groundwater Levels BGS (ft):**  
 ▽ At Time of Drilling: N/A  
 ▼ At End of Drilling: N/A  
 ▽ After Drilling: N/A

**Ground Elevation AMSL (ft):** 5344.1  
**Y Coordinate:** 1472807.25  
**X Coordinate:** 1542326.20

**Drilling Contractor:** JR Drilling  
**Drilling Method:** Direct Push (Geoprobe)  
**Logged By:** Dale Flores

KAFB\_BOREHOLE\_LOG - SHAW\_DRILLING.GDT - 4/27/11 14:52 - Z:\KAFB BFF\GINT\KAFB\_PROJECT\KAFB\_BFF.GPJ

Depth (ft)	Sample Type	Number	Headspace PID	Lithologic Log	Material Description	U.S.C.S.	Well Diagram	Remarks
0								
0 - 5		106144-00	0.0		Poorly graded SAND with Silt (SP-SM); pinkish white (7.5YR 8/2); dry; very loose; 90% very fine sand to 0.2mm; subrounded; 10% silt; no odor.	SP-SM		Description from hand auger cuttings.
5 - 10		106144-05	0.0		Silty SAND (SM); reddish yellow (7.5YR 6/6); dry; very loose; 80% very fine sand; subrounded; 5% fine gravel to 5mm; subrounded; 15% silt; no odor.	SM		
10 - 15		106144-10	0.0		Same as above (5 ft).			
15 - 20		106144-15	0.0		SILT (ML); light brown (7.5YR 6/4); dry; soft; non plastic; 90% silt; 10% very fine sand to 0.08mm; no odor.	ML		
20 - 25		106144-20	0.0					Total depth = 20 ft.
25 - 30								

**THIS PAGE INTENTIONALLY LEFT BLANK**



# Borehole ID: KAFB-106145

**Client:** US Army Corps of Engineers  
**Project Location:** KAFB, Albuquerque, NM  
**Project Name:** KAFB BFF SWMU ST-106 and SS-111  
**Project Number:** 140705

Hole Diameter Upper (in.): 2  
 Hole Diameter Lower (in.): 2  
 Surface Completion Type:

**Date Started:** 2/16/2011  
**Date TD Reached:** 2/16/2011  
**Date Completed:** 2/16/2011

**Groundwater Levels BGS (ft):**  
 ▽ At Time of Drilling: N/A  
 ▼ At End of Drilling: N/A  
 ▽ After Drilling: N/A

**Ground Elevation AMSL (ft):** 5343.8  
**Y Coordinate:** 1472777.70  
**X Coordinate:** 1542138.38

**Drilling Contractor:** JR Drilling  
**Drilling Method:** Direct Push (Geoprobe)  
**Logged By:** Dale Flores

Depth (ft)	Sample Type	Number	Headspace PID	Lithologic Log	Material Description	U.S.C.S.	Well Diagram	Remarks
0								
0		106145-00	0.0		Poorly graded SAND with Silt (SP-SM); pinkish white (7.5YR 8/2); dry; very loose; 90% very fine sand to 0.2mm; subrounded; 10% silt; slight odor.	SP-SM		Description from hand auger cuttings.
5								
5		106145-05	3.2		Silty SAND (SM); reddish yellow (5YR 6/6); moist; loose; 60% very fine sand to 0.2mm; subrounded; 40% silt; slight odor.			
10		106145-10	0.7		Same as above (5 ft).	SM		
15		106145-15	NR		Same as above (5 ft).			
20		106145-20	1.7		SILT (ML); strong brown (7.5YR 4/6); dry; firm; low plasticity; 90% silt; 10% very fine sand to 0.2mm; no odor.	ML		
25								Total depth = 20 ft.
30								

KAFB\_BOREHOLE\_LOG - SHAW\_DRILLING.GDT - 4/27/11 14:53 - Z:\KAFB BFF\GINT\KAFB\_PROJECT\KAFB\_BFF.GPJ

**THIS PAGE INTENTIONALLY LEFT BLANK**



# Borehole ID: KAFB-106146

**Client:** US Army Corps of Engineers  
**Project Location:** KAFB, Albuquerque, NM  
**Project Name:** KAFB BFF SWMU ST-106 and SS-111  
**Project Number:** 140705

Hole Diameter Upper (in.): 2  
 Hole Diameter Lower (in.): 2  
 Surface Completion Type:

**Date Started:** 2/16/2011  
**Date TD Reached:** 2/16/2011  
**Date Completed:** 2/16/2011

**Groundwater Levels BGS (ft):**  
 ▽ At Time of Drilling: N/A  
 ▼ At End of Drilling: N/A  
 ▽ After Drilling: N/A

**Ground Elevation AMSL (ft):** 5342.8  
**Y Coordinate:** 1472951.78  
**X Coordinate:** 1542082.71

**Drilling Contractor:** JR Drilling  
**Drilling Method:** Direct Push (Geoprobe)  
**Logged By:** Dale Flores

Depth (ft)	Sample Type	Number	Headspace PID	Lithologic Log	Material Description	U.S.C.S.	Well Diagram	Remarks
0								
0 - 5		106146-00	0.6		Poorly graded SAND with Silt (SP-SM); pinkish white (7.5YR 8/2); dry; very loose; 90% very fine sand to 0.2mm; subrounded; 10% silt; no odor.	SP-SM		Description from hand auger cuttings.
5 - 10		106146-05	0.0		Silty SAND (SM); reddish yellow (7.5YR 6/6); dry; very loose; 80% very fine sand; subrounded; 5% fine gravel to 5mm; subrounded; 15% silt; no odor.	SM		Total depth = 20 ft.
10 - 15		106146-10	0.0		Same as above (5 ft).			
15 - 20		106146-15	0.0		SILT (ML); strong brown (7.5YR 4/6); dry; firm; non plastic; 90% silt; 10% very fine sand to 0.2mm; no odor.	ML		
20 - 25		106146-20	0.0					
25 - 30								

KAFB\_BOREHOLE\_LOG - SHAW\_DRILLING.GDT - 4/27/11 14:55 - Z:\KAFB BFF\GINT\KAFB\_PROJECT\KAFB\_BFF.GPJ

**THIS PAGE INTENTIONALLY LEFT BLANK**



# Borehole ID: KAFB-106147

**Client:** US Army Corps of Engineers  
**Project Location:** KAFB, Albuquerque, NM  
**Project Name:** KAFB BFF SWMU ST-106 and SS-111  
**Project Number:** 140705

Hole Diameter Upper (in.): 2  
 Hole Diameter Lower (in.): 2  
 Surface Completion Type:

**Date Started:** 2/16/2011  
**Date TD Reached:** 2/17/2011  
**Date Completed:** 2/17/2011

**Groundwater Levels BGS (ft):**  
 ▽ At Time of Drilling: N/A  
 ▼ At End of Drilling: N/A  
 ▽ After Drilling: N/A

**Ground Elevation AMSL (ft):** 5342.8  
**Y Coordinate:** 1472850.62  
**X Coordinate:** 1541959.30

**Drilling Contractor:** JR Drilling  
**Drilling Method:** Direct Push (Geoprobe)  
**Logged By:** Dale Flores

Depth (ft)	Sample Type	Number	Headspace PID	Lithologic Log	Material Description	U.S.C.S.	Well Diagram	Remarks
0								
0 - 5		106147-00	0.1		Poorly graded SAND with Silt (SP-SM); pinkish white (7.5YR 8/2); dry; very loose; 90% very fine sand to 0.2mm; subrounded; 10% silt; slight odor.	SP-SM		Description from hand auger cuttings.
5 - 10		106147-05	450.0		Silty SAND (SM); reddish yellow (5YR 6/6); dry; very loose; 60% very fine sand to 0.5mm; subrounded; 40% silt; strong odor.	SM		
10 - 15		106147-10	80.0		Same as above (5 ft).			
15 - 20		106147-15	4.6		SILT (ML); reddish yellow (5YR 7/6); dry; hard; low plasticity; 90% silt; 5% very fine sand to 0.08mm; 5% white caliche; slight odor.	ML		Very hard drilling from 14 to 17 ft due to caliche cementation.
20 - 25		106147-20	1.1					
25 - 30								Total depth = 20 ft.

KAFB\_BOREHOLE\_LOG - SHAW\_DRILLING.GDT - 4/27/11 14:56 - Z:\KAFB BFF\GINT\KAFB\_PROJECT\KAFB\_BFF.GPJ

**THIS PAGE INTENTIONALLY LEFT BLANK**