GeoServices Corporation Subsurface Investigations Test Boring Log	Project: Proposed Radio Tower Maryland State Police Barracks "V" Site Berlin, MD	Contract Number: 00MD0118 Boring Number: B - 1 Sheet: 1 of 2

Client: State of Maryland
Dept. of Budget and Management
Telecommunications Division

Boring Foreman: J. Boyce
Drilling Method: 3.25" ID HSA
Drilling Equipment: CME-55 (Note 1)

Checked By: K. Lightbody

Dates Started: 11/26/01
Completed: 11/26/01

Location: As Shown on Sketch

Ground Surface Elevation: Not Provided

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered	--	--	None	--	--
Completion	11/26/01	1:00 PM	17.1	38.5'	--
Casing Pulled	11/26/01	1:20 PM	None to 8.5'	--	8.5' & dry
Overnight	11/27/01	6:50 AM	None to 9.2'	--	9.2' & dry

See General Notes and Boring Location Plan

Sampling Depth	Sampling Data	Strata Depth	Strata Description	Class	Remarks
			Topsoil		
0.0	2 + 4 + 5	0.4	Sandy silt, FILL, moist, brown		
2.0	2 + 1 + 2	3.0			
4.0	2 + 1 + 2		Sandy SILT,moist, gray	ML	
6.5	2 + 3 + 2	6.5	Poorly graded SAND, trace silt, moist, gray and brown	SP	
9.0	2 + 2 + 2		- wet @ 9'		
14.0	2 + 1 + 2	14.0	Poorly graded SAND with silt, moist, white and brown	SP	
19.0	2 + 2 + 3		- trace gravel, contains coarse sand, wet @ 19'		
24.0	1/24"				

Note 1: Standard Penetration Tests done using safety hammer

GeoServices Corporation Subsurface Investigations Test Boring Log	Project: Proposed Radio Tower Marlyand State Police Barracks "V" Site Berlin, MD	Contract Number: 00MD0118 Boring Number: B - 1 Sheet: 2 of 2

Sampling Depth	Sampling Data	Strata Depth	Strata Description	Class	Remarks
29.0	2 + 4 + 4	29.0			
			Poorly graded SAND with gravel, wet, white	SP	
34.0	4 + 3 + 5		- trace silt below 34'		
38.5	4 + 5 + 8				
		40.0			
			Bottom of Boring @ 40'		

GeoServices Corporation Subsurface Investigations Test Boring Log	Project: Proposed Radio Tower Maryland State Police Barracks "V" Site Berlin, MD	Contract Number: 00MD0118 Boring Number: B - 2 Sheet: 1 of 2

Client: State of Maryland
Dept. of Budget and Management
Telecommunications Division

Boring Foreman: J. Boyce
Drilling Method: 3.25" ID HSA
Drilling Equipment: CME-55 (Note 1)

Checked By: K. Lightbody

Dates Started: 11/26/01
Completed: 11/27/01

Location: As Shown on Sketch

Ground Surface Elevation: Not Provided

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered	--	--	None	--	--
Overnight (Note 2)	11/27/01	6:50 AM	14.8'	29'	--
Completion	11/27/01	7:20 AM	17.1	38.5	--
Casing Pulled	11/27/01	7:45 AM	9.8'	--	11.1'
Short Term	11/27/01	10:30 AM	9.5'	--	10.1'

See General Notes

Sampling Depth	Sampling Data	Strata Depth	Strata Description	Class	Remarks
			Topsoil		
0.0	2 + 7 + 6	0.4	Silty SAND, moist, gray	SM	
2.0	1 + 4 + 3				
4.0	3 + 4 + 4	4.0	Poorly graded SAND, trace silt, moist, brown - silt layer @ 5'	SP	
6.5	2 + 4 + 7	6.5	Poorly graded SAND, moist, gray and brown - wet @ 9'	SP	
9.0	3 + 4 + 5				
14.0	2 + 2 + 2	13.0	Poorly graded SAND, trace silt, wet, white and brown - trace gravel @ 14'	SP	
19.0	2 + 1 + 2				
24.0	1 + 1 + 1				

Note 1: Standard Penetration Tests done using safety hammer
Note 2: Boring was started on 11/26/01 and drilled to 29 ft. before stopping for the day. Water level was recorded on morning of 11/27/01 before drilling was continued.

GeoServices Corporation Subsurface Investigations Test Boring Log	Project: Proposed Radio Tower Marlyand State Police Barracks "V" Site Berlin, MD	Contract Number: 00MD0118 Boring Number: B - 2 Sheet: 2 of 2

Sampling Depth	Sampling Data	Strata Depth	Strata Description	Class	Remarks
29.0	2 + 2 + 4				
34.0	3 + 2 + 5		- trace gravel at 34'		
38.5	5 + 6 + 5				
		39.5			
			Fat CLAY, moist, gray	CH	
		40.0			
			Bottom of Boring @ 40'		

GeoServices Corporation Subsurface Investigations Test Boring Log	Project: Proposed Radio Tower Maryland State Police Barracks "V" Site Berlin, MD	Contract Number: 00MD0118 Boring Number: B - 3 Sheet: 1 of 2

Client: State of Maryland
Dept. of Budget and Management
Telecommunications Division

Boring Foreman: J. Boyce
Drilling Method: 3.25" ID HSA
Drilling Equipment: CME-55 (Note 1)

Checked By: K. Lightbody

Dates Started: 11/27/01
Completed: 11/27/01

Location: As Shown on Sketch

Ground Surface Elevation: Not Provided

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered	--	--	None	--	--
Completion	11/27/01	10:10 AM	17.5'	38.5'	--
Casing Pulled	11/27/01	10:45 AM	10.3'	--	11.3'

Backfilled Upon Completion

See General Notes and Boring Location Plan

Sampling Depth	Sampling Data	Strata Depth	Strata Description	Class	Remarks
0.0	3 + 6 + 7		Topsoil		
		1.0			
2.0	2 + 4 + 4		Sandy SILT, moist, gray and brown	ML	
4.0	2 + 4 + 4				
		5.0			
			Silty SAND, moist, brown and gray	SM	
6.5	5 + 8 + 9	6.0			
			Poorly graded SAND, moist, brown	SP	
9.0	5 + 6 + 7		- wet @ 9'		
14.0	2 + 1 + 2				
			Poorly graded SAND with silt, wet, white and brown	SP	
19.0	2 + 2 + 3		- contains silt pockets @ 19'		
24.0	1 + 1 + 1		- trace gravel @ 24'		

Note 1: Standard Penetration Tests done using safety hammer

GeoServices Corporation
Subsurface Investigations
Test Boring Log

Project: Proposed Radio Tower
Marlyand State Police Barracks "V" Site
Berlin, MD

Contract Number: 00MD0118
Boring Number: B - 3
Sheet: 2 of 2

Sampling Depth	Sampling Data	Depth	Strata Description	Class	Remarks
29.0	4 + 6 + 8				
34.0	4 + 1 + 3				
38.5	5 + 8 + 8				
		40.0	Bottom of Boring @ 40'		

GENERAL NOTES

1 Numbers in the "sampling data" column indicate the number of blows required to drive a 2 inch O.D., 1-3/8 inch I.D. sampling spoon through three 6 inch intervals or as indicated, using a 140 pound hammer falling 30 inches, per ASTM D-1586.

2. Classification of soil is by visual inspection and is in general accordance with the Unified Soil Classification System. Symbols in parentheses, i.e. (SP), are Unified Soil Classification Group Symbols by visual inspection.

3. Water level observations are included on each log. Water levels may vary from precipitation, porosity of the soil, site topography, or other conditions.

4. All borings made by hollow stem auger.

5. Boring locations were selected and marked by others. Elevations were not provided.

6. The boring logs and related information depict subsurface conditions only at these specific locations and at the particular time when drilled. Soil conditions at other locations may differ from conditions occurring at these boring locations. Also, the passage of time may result in a change in the subsurface soil and groundwater conditions at these boring locations.

7. The stratification lines represent the approximate boundary between soil types as determined in the drilling and sampling operation. Some variation may also be expected vertically between samples taken. The soil profile, water level observations and penetration resistances presented have been made with reasonable care and accuracy and must be considered only an approximate representation of subsurface conditions to be encountered at the particular location.