



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.1

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **HA-1**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/8/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.7

DATE FINISHED: 3/8/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/8/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 3

TYPE OF SAMPLING: HAND AUGER

DEPTH (FT.)	SAMP LE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SY MB OL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Gray fine SAND, traces of silt [SP]						
						- very light gray						
						- light brown						
5												
						BORING TERMINATED AT 6.0 FT.						
10												
15												
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.2

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **HA-2**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/8/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.0

DATE FINISHED: 3/8/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/8/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 0

TYPE OF SAMPLING: HAND AUGER

DEPTH (FT.)	SAMP LE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SY MB OL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0				▽		Gray brown fine SAND with silt [SP-SM]						
						Dark brown ORGANIC SILT with fine sand [OL]		85				31
5				▼		Dark brown silty fine SAND with roots and organics [SM-OL]						
						BORING TERMINATED AT 6.0 FT.						
10												
15												
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.3

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **HA-3**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/8/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 4.0

DATE FINISHED: 3/8/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/8/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: HAND AUGER

DEPTH (FT.)	SAMP LE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SY MB OL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0				▽		Dark brown fine SAND with silt, trace roots [SP-SM]						
5				▽		— light gray brown, with roots						
6.0						BORING TERMINATED AT 6.0 FT.						
10												
15												
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.4

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-1**  
SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**  
RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/8/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.7

DATE FINISHED: 3/8/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/8/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 0

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0				▽		Very loose gray brown fine SAND with silt [SP-SM]						
		5-2-2	4			Very loose dark brown silty fine SAND with organics [SM-OL]						
		1-2-2	4									
5		2-1-1	2	▼		- very dark brown	27	15				6
		1-0-0	WOR									
		1-1-2	3			Very loose very dark brown fine SAND with silt [SP-SM]						
						- loose						
10		3-4-3	7									
						- light brown						
15		3-4-5	9			BORING TERMINATED AT 15.0 FT.						
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.6

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-3**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 6.3

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 2

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose gray brown fine SAND with silt [SP-SM]						
		4-5-4	9	▽								
		11-13-12	25			— medium dense, trace rock						
						— dense						
5		9-13-18	31									
		13-8-8	16	▽		Medium dense dark brown silty fine SAND [SM]	12	28				
		5-3-3	6			— loose						
10		4-4-3	7									
						Medium dense brown fine SAND with silt [SP-SM]						
15		4-6-6	12			BORING TERMINATED AT 15.0 FT.						
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.7

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-4**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.0

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1.5

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose gray brown fine SAND with silt [SP-SM]						
		4-4-5	9	▽								
		4-4-3	7									
5		2-2-3	5	▼		Loose very dark brown fine SAND with silt [SP-SM]						
		2-2-2	4			- very loose						
		3-4-4	8			- loose	9	27				
10		4-5-3	8									
						- medium dense						
15		7-7-7	14			BORING TERMINATED AT 15.0 FT.						
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.8

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-5**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.0

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 0.5

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0					▽	Medium dense brown fine SAND [SP]						
		6-6-8	14			Loose gray brown silty fine SAND, trace roots [SM]						
		8-4-2	6									
5				▼		-- very loose	13	27				
		3-2-2	4									
		3-3-3	6			Loose dark brown fine SAND with silt [SP-SM]						
		4-8-10	18			-- medium dense						
10		7-9-12	21			Medium dense gray brown fine SAND [SP]						
						-- light gray						
15		6-8-6	14			BORING TERMINATED AT 15.0 FT.						
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.9

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-6**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.3

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 0.5

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMP PLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0					▽	Medium dense light gray brown fine SAND, trace of silt [SP]	5	16				
4-5-7		12										
4-3-3		6				Loose brown silty fine SAND [SM]						
5					▽	Medium dense dark brown fine SAND with silt [SP-SM]						
2-1-2		3										
7-8-9		17										
7-7-10		17										
8-9-8		17				Medium dense light brown fine SAND [SP]						
10												
						Medium dense light gray brown silty fine SAND [SM]						
6-6-6		12										
15						BORING TERMINATED AT 15.0 FT.						
20												
25												





# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.10

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-7**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.7

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMP PLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose brown fine SAND, trace of silt [SP]						
		3-4-5	9	▽		Loose gray fine SAND with silt [SP-SM]						
		3-4-4	8									
5		3-3-4	7	▽		- very loose, brown						
		3-2-2	4			- medium dense, light brown	11	24				
		10-12-13	25									
10		11-11-11	22									
						Loose light gray brown silty fine SAND [SM]						
15		3-4-6	10			BORING TERMINATED AT 15.0 FT.						
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.11

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-8**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 3.7

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0				▽		Loose light brown fine SAND with silt [SP-SM]						
3-4-5		9										
6-7-5		12		▽		— medium dense, gray brown						
5							9	34				
3-4-5		9				— loose						
2-2-2		4				— very loose						
1-2-3		5				Loose dark brown silty fine SAND [SM]						
3-3-3		6				— light gray brown						
10						Medium dense very light gray brown fine SAND with silt [SP-SM]						
15		4-5-7	12			BORING TERMINATED AT 15.0 FT.						
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.12

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-9**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 3.5

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMP PLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYM BOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose light gray fine SAND [SP]						
		3-3-4	7			Loose dark brown fine SAND with silt [SP-SM]						
		3-4-5	9			Loose dark brown silty fine SAND [SM]						
5		4-4-4	8			- very loose						
		2-2-2	4									
		2-2-3	5			Loose light gray brown fine SAND with silt [SP-SM]						
10		3-3-5	8									
		3-5-4	9			BORING TERMINATED AT 15.0 FT.						
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.13

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-10**

SHEET: **1 of 1**

SECTION: 11

TOWNSHIP: 26

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 3.8

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0				▽		Medium dense very light gray fine SAND [SP]						
7-8-7		15				Medium dense very dark brown fine SAND with silt [SP-SM]						
7-7-5		12		▽								
5						- loose	11	28				
3-3-5		8										
						- very loose						
3-1-1		2										
2-3-4		7				Loose very dark brown fine SAND with silt [SP-SM]						
						- medium dense						
10												
						Medium dense very light gray brown fine SAND [SP]						
15		10-11-11	22			BORING TERMINATED AT 15.0 FT.						
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.14

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-11**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 3.7

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0					▽	Loose brown fine SAND with silt [SP-SM]						
3-4-4		8			▽	Loose light brown fine SAND [SP]						
4-5-5		10			▽	Loose dark brown fine SAND with silt [SP-SM]						
6-3-4		7										
4-5-5		10				- shade lighter	7	23				
3-3-2		5										
4-4-4		8										
10						- medium dense, light brown						
8-9-13		22				BORING TERMINATED AT 15.0 FT.						
15												
20												
25												



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.17

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-14**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 4.2

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1.5

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose light gray fine SAND with silt [SP-SM]						
		6-6-4	10	▽		— dark brown						
		3-3-5	8	▼								
5		4-4-3	7			Loose very dark brown silty fine SAND [SM]						
		3-4-5	9			— very loose						
		3-2-2	4									
10		2-1-1	2			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.18

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-15**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 4.3

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1.5

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMP PLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Medium dense light gray fine SAND [SP]						
		7-9-9	18	▽		- dark brown						
						- light brown						
		5-4-5	9	▽		Loose light brown fine SAND with silt [SP-SM]						
5		2-1-2	3			- very loose, dark brown						
						- loose						
		5-4-4	8									
		4-4-4	8									
						- shade lighter						
10		6-5-5	10			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.19

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-16**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 4.0

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose gray fine SAND [SP]						
		4-4-5	9	▽								
		4-4-4	8	▽		Loose dark brown silty fine SAND [SM]						
5		3-2-3	5									
		2-3-4	7				13	22				
		3-4-7	11			- medium dense						
10		6-9-8	17			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												





# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.20

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-17**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 3.2

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMP PLE	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Medium dense gray fine SAND [SP]						
		4-5-6	11		▽							
		3-3-2	5		▽	Loose light gray brown fine SAND with silt [SP-SM]						
						-- medium dense, brown						
5		7-8-11	19									
		7-6-6	12									
		4-5-6	11			-- shade darker						
10		6-6-8	14			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.21

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-18**

SHEET: **1 of 1**

SECTION: 11

TOWNSHIP: 26

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 4.0

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 1

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose dark gray brown fine SAND [SP]						
		3-3-4	7	▽		Very loose gray brown silty fine SAND, trace roots [SM]	15	29				
		4-3-1	4	▽								
5		5-6-8	14			- medium dense, brown						
		5-7-5	12			Medium dense brown fine SAND with silt [SP-SM]						
		4-3-4	7									
10		3-3-3	6			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.22

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-19**

SHEET: **1 of 1**

SECTION: 11

TOWNSHIP: 26

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 6.0

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 2

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose brown fine SAND with silt [SP-SM]						
		3-2-3	5	▽		— very loose						
		3-2-2	4			— loose, gray brown						
5		3-4-4	8									
		5-4-4	8	▼		Loose very dark brown silty fine SAND, trace roots [SM]						
		4-5-7	12			— medium dense						
10		6-6-8	14			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												

W-06914.GPJ



# UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.0900053.0000

REPORT NO.:

PAGE: B-2.23

PROJECT: GEOTECHNICAL EXPLORATION  
ST. CLOUD HIGH SCHOOL RENOVATIONS  
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **P-20**

SECTION: 11

TOWNSHIP: 26

SHEET: **1 of 1**

RANGE: 30

CLIENT: BRPH ARCHITECTS-ENGINEERS, INC.

G.S. ELEVATION (ft): N.S.

DATE STARTED: 3/6/09

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.7

DATE FINISHED: 3/6/09

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 3/6/09

DRILLED BY: UES - ORLANDO

EST. SHGWT (ft): 2

TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	S A M P L E	BLOWS PER 6" INCREMENT	N (BLOWS/ FT.)	W.T.	S Y M B O L	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/ DAY)	ORG. CONT. (%)
									LL	PI		
0						Medium dense gray fine SAND with silt [SP-SM]						
		3-8-9	17	▽								
		6-6-6	12			-- brown						
5		6-5-6	11	▼								
		7-6-6	12			-- gray brown						
		3-4-3	7			-- loose, very dark brown						
10		6-5-5	10			BORING TERMINATED AT 10.0 FT.						
15												
20												
25												