

TEST BORING LOG STA. 4+248.45, 8.68m (R)

ACT PROJECT NO. 9406.13 BORING NO. B-7 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 06-30-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 192.60m WILLUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150 MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				51 mm Asphalt Pavement					
0				228 mm Concrete Slab					
1	1	SS		Brown coarse and fine sand, little gravel, trace silt and clay, Fill. Loose. Moist. (A-3a) (Visual)	2-4-3	12.8			192
1.5	2	SS		Brown sandy silt, some clay, trace gravel. Loose. Moist. (A-4a)	4-4-5	19.2	23/3		192
3.0	3	SS		Brown and gray silt, some clay, trace fine sand, trace gravel. Loose to very loose. Wet. (A-4b)	2-4-5	25.7	28/1		136
4.5	4	SS		Brown coarse and fine sand, some gravel, trace silt, Medium dense. Moist. (A-3a) (Visual)	1-1-1	34.0			
4.5	5	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Dense. Moist. (A-4a) (Visual)	6-9-12	8.0			
6.0	6	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Dense. Moist. (A-4a) (Visual)	13-17-22	10.8			432+
6.0	End of boring @ 6.0 m.								
7.5									
9.0									
10.5									

GROUNDWATER ENCOUNTERED AT: 2.0 m  
 ON COMPLETION: 4.2 m  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

TEST BORING LOG STA. 4+366.63, 3.46m (L)

ACT PROJECT NO. 9406.13 BORING NO. B-8 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 07-11-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 192.01m WILLUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150 MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				123 mm Asphalt Pavement					
0				228 mm Concrete Slab					
1	1	SS		Brown fine sand, Medium dense. Moist. (A-3) (Visual)	3-6-8	12.5			
1.5	2	SS		Brown and gray sandy silt, some clay, trace gravel. Medium dense. Moist. (A-4a) (Visual)	6-7-8	14.1			432+
3.0	3	SS		Gray silt and clay, trace fine sand, trace gravel and rock fragments. Very stiff. Moist. (A-6a) (Visual)	5-12-12	10.3			432+
3.0	4	SS		Gray silt and clay, trace fine sand, trace gravel and rock fragments. Very stiff. Moist. (A-6a) (Visual)	4-7-8	11.5			432+
4.5	5	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	6-9-9	11.9			432+
6.0	6	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	7-14-15	11.0			432+
6.0	End of boring @ 6.0 m.								
7.5									
9.0									
10.5									

GROUNDWATER ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

TEST BORING LOG STA. 4+478.10, 3.82m (R)

ACT PROJECT NO. 9406.13 BORING NO. B-9 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 06-30-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 188.92m WILLUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150 MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				51 mm Asphalt Pavement					
0				227 mm Concrete					
0.75	1	SS		Brown and gray coarse and fine sand, some gravel, trace silt, Fill. Loose. Moist. (A-3a) (Visual)	3-9-14	14.8			432+
1.5	2	SS		Gray sandy silt, some clay, with brick debris, trace gravel. Fill. Medium dense. Moist. (A-4a) (Visual)	7-6-8	12.1	23/8		432+
2.25	3	SS		Gray sandy silt and clay, trace gravel fragments. Medium dense. Moist. (A-4a)	4-7-7	11.1			432+
3.0	4	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	4-9-12	11.5			432+
3.75	End of boring @ 3.5 m.								
4.5									

GROUNDWATER ENCOUNTERED AT: 0.3 m  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

TEST BORING LOG STA. 4+578.58, 2.91m (L)

ACT PROJECT NO. 9406.13 BORING NO. B-10 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 07-11-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 187.67m WILLUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150 MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				101 mm Asphalt Pavement					
0				254 mm Concrete					
0.75	1	SS		Brown coarse and fine sand, Medium dense. Moist. (A-3a) (Visual)	5-10-10	12.1			432+
1.5	2	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense to dense. Moist. (A-4a) (Visual)	11-9-9	11.8			432+
2.25	3	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	8-12-15				
3.0	4	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	12-24-25	8.6			
3.0	End of boring @ 2.8 m.								
3.75									
4.5									

GROUNDWATER ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: BULK COMPOSITE SAMPLE FOR CSR OBTAINED AT .5 m - 1.5 m.

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

TEST BORING LOG STA. 4+721.86, 3.03m (R)

ACT PROJECT NO. 9406.13 BORING NO. B-11 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 06-30-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 191.18m WILLUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150 MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				51 mm Asphalt Pavement					
0				216 mm Concrete					
0.75	1	SS		Brown coarse and fine sand, some gravel, Fill. Loose. Moist. (A-3a) (Visual)	5-5-8	13.8			432+
1.5	2	SS		Brown and gray coarse and fine sand, with some gravel, little clay, trace silt. Medium dense. Moist. (A-3a)	5-5-8	15.5	NP		432+
2.25	3	SS		Gray sandy silt, some fine sand, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	5-7-8	11.4			432+
3.0	4	SS		Gray sandy silt, some fine sand, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	5-10-14	9.4			432+
3.75	5	SS		Gray sandy silt, some fine sand, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	5-8-10	11.8			432+
3.75	End of boring @ 3.6 m.								
4.5									

GROUNDWATER ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content  
 NP - Non Plastic

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

TEST BORING LOG STA. 4+799.37, 1.99m (L)

ACT PROJECT NO. 9406.13 BORING NO. B-12 SHEET 1 OF 1  
 CLIENT: STEPHEN HOVANCSEK & ASSOCIATES, INC. DATE DRILLED: 07-11-94  
 PROJECT: VINE STREET RECONSTRUCTION FROM EAST 364TH TO SKIFF STREET, LAK-640-2.14, EASTLAKE S  
 DRILLING METHOD: ROTARY DRIVE, HOLLOW STEM AUGERS SURFACE ELEVATION: 183.16m WILLUGHBY

Depth (M.)	No.	Type	SYMBOL	SAMPLE IDENTIFICATION	BLOW COUNT ON SS/150 MM	PROPERTIES			
						W (%)	LL/PI	$\gamma_d$ (kg/cm <sup>3</sup> )	$q_u$ (kPa)
0				101 mm Asphalt Pavement					
0				228 mm Concrete					
0.75	1	SS		Brown coarse and fine sand, Loose. Moist. (A-3a) (Visual)	4-4-6	20.7			335
1.5	2	SS		Brown and gray silt and clay, some fine sand, trace gravel and rock fragments. Very stiff. Moist. (A-6a) (Visual)	5-6-10	18.7			432+
2.25	3	SS		Gray sandy silt, some clay, trace gravel and rock fragments. Medium dense. Moist. (A-4a) (Visual)	6-8-10	14.2			432+
3.0	End of boring @ 2.4 m.								
3.75									
4.5									

GROUNDWATER ENCOUNTERED AT: NONE  
 ON COMPLETION: NONE  
 AFTER: NONE  
 REMARKS: NONE

AS - Auger Sample  
 ST - Shelby Tube Sample  
 SS - Split Spoon Sample  
 W - Moisture Content

LL/PI - Liquid Limit/Plasticity Index  
 $\gamma_d$  - Dry Density  
 $q_u$  - Unconfined Strength  
 $q_p$  - Pocket Penetrometer Reading

APPLIED CONSTRUCTION TECHNOLOGIES, INC.

SOIL BORING LOGS

LAK-640-3.444