LOG OF BORING NO. LR-1

PROJECT: West Line Rd
PROJECT NO: AGR 1550, Task 37
PROJECT LOCATION: Sussux County, Delaware

WATER DEPTH (ft): ▽ 7.2 ▼ 5.5 ▼ Boc
DATE: 12/6 12/6
CAVED (ft): In Auger 8.8

DATE STARTED: 12/6
DATE COMPLETED:
DRILLING CONTRACTOR: Walton Corporation
DRILLER: C. Hill
DRILLING METHOD: 3 1/4 inch Hollow Stem Augers
SAMPLING METHOD: Split Spoon

GROUND SURFACE ELEVATION:
DATUM:
EQUIPMENT: CME 55
LOGGED BY: CC
CHECKED BY: ML

SAMPLE NUMBER	SAMPLE DEPTH (ft)	SAMPLE RECOVERY (in)	SAMPLE BLOWS/6 inches	N (blows/ft)	ELEVATION (ft)	DEPTH (ft)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	20	2-3-2-3	5		0	SM		Fill Gray, moist, loose, Silty Sand, trace organics	
S-2	2.0	20	3-2-2-1	4			SP-SM		Tan/Gray, moist, very loose, Poorly Graded Sand w/ Silt Fill	Fill
S-3	4.0	24	2-1-1-2	2		5	SM		Dark Gray, moist, very loose, Silty Sand, trace organics	Natural
S-4	6.0	20	2-2-1-2	3			SM		Dark Gray, wet, very loose, Silty Sand, trace organics, contains wood	
S-5	8.0	24	3-4-5-5	9			SP		Light Gray, wet, loose, Poorly Graded Sand	Augers changed w/ Drilling Mud water to clean out heave
S-6	10.0	24	5-5-7-5	12		10	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-7	12.0	24	3-5-10-11	15			SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel, contains wood	
S-8	14.0	18	7-12-16-18	28		15	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel, contains wood	
S-9	16.0	24	11-16-18-20	34			SP		Light Gray, wet, dense, Poorly Graded Sand, trace gravel	
S-10	18.0	24	15-16-23-20	39		20	SP		Light Gray, wet, dense, Poorly Graded Sand, trace gravel	
S-11	~~23.0~~ 24	24	9-9-10-12	19		25	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-12	~~28.0~~ 29	20	10-8-9-11	17		30	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	

NOTES:

GEO-TECHNOLOGY ASSOCIATES, INC.
18 Boulden Circle, Suite 36
New Castle, Delaware 19720

LOG OF BORING NO. LR-1
Sheet 1 of 2

PROJECT:
PROJECT NO: **AGR 1550, Task 37**
PROJECT LOCATION: **Sussux County, Delaware**

GROUND SURFACE ELEVATION:
LOGGED BY: **CC**
CHECKED BY: **ML**

SAMPLE NUMBER	SAMPLE DEPTH (ft)	SAMPLE RECOVERY (in)	SAMPLE BLOWS/6 inches	N (blows/ft)	ELEVATION (ft)	DEPTH (ft)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-13	~~33.0~~ 34	24	7-9-14-12	23		35	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	Augers chased w/ Drilling Mud & water to clean out hence
S-14	~~38.0~~ 39	24	25-12-27-12	29		40	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-15	~~43.0~~ 44	24	1-2-4-8	6		45	SP		Light Gray, wet, loose, Poorly Graded Sand	
S-16	~~48.0~~ 49	24	10-8-13-12	21		50	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-17	~~53.0~~ 54	0	19-38-50/3			55	SP		Light Gray, wet, very dense, Poorly Graded Sand	
S-18	~~58.0~~ 59	24	6-8-12-15	20		60	SP		Light Gray, wet, med dense, Poorly Graded Sand	

TD @ 60 ft
TD backfilled upon completion

NOTES:

GEO-TECHNOLOGY ASSOCIATES, INC.
18 Boulden Circle, Suite 36
New Castle, Delaware 19720

LOG OF BORING LB-1

Sheet 2 of 2

LOBG AGR 1550, TASK 37.GPJ 12/6/12

LOG OF BORING NO. ~~ML-2~~ LR-2

PROJECT: **West Line Road**
PROJECT NO: **AGR 1550, Task 37**
PROJECT LOCATION: **Sussux County, Delaware**

WATER DEPTH (ft): ▽ 7.8 ▼ 6.8 ▼ ROC
DATE: 12/7 12/7
CAVED (ft): Augers 8.0

DATE STARTED: 12/7
DATE COMPLETED: 12/7
DRILLING CONTRACTOR: **Walton Corporation**
DRILLER: B. Holden
DRILLING METHOD: **3 1/4 inch Hollow Stem Augers**
SAMPLING METHOD: **Split Spoon**

GROUND SURFACE ELEVATION:
DATUM:
EQUIPMENT: **CME 55**
LOGGED BY: **CC**
CHECKED BY: **ML**

SAMPLE NUMBER	SAMPLE DEPTH (ft)	SAMPLE RECOVERY (in)	SAMPLE BLOWS/6 inches	N (blows/ft)	ELEVATION (ft)	DEPTH (ft)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
~~S-1~~	0.0					0			2+/- inches asphalt 8+/- inches DGA	
S-~~2~~ 1	2.0	24	7-7-8-5	15			SM		Gray, moist, med dense, Silty Sand (F.Fill)	F.Fill
S-~~3~~ 2	4.0	16	4-5-5-6	10		5	SP-SM		Gray & Black, moist, loose, Poorly Graded Sand w/ Silt	Natural
S-~~4~~ 3	6.0	24	2-2-1-1	3			SP-SM		Gray & Black, wet, very loose, Poorly Graded Sand w/ Silt	
S-~~5~~ 4	8.0	24	1-1-2-2	3			SP		Gray, wet, very loose, Poorly Graded Sand, contains wood	
S-~~6~~ 5	10.0	24	4-6-7-7	13		10	SP		Gray, wet, med dense, Poorly Graded Sand, contains wood	
S-~~7~~ 6	12.0	24	1-2-8-6	10			SP		Light Gray, wet, loose, Poorly Graded Sand, trace gravel	
S-~~8~~ 7	14.0	20	21-10-16-17	26		15	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel, contains wood	Augers cleaned w/ drilling water to clean out hole
S-~~9~~ 8	16.0	18	11-11-12-13	23			SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-~~10~~ 9	18.0	18	25-8-9-8	17		20	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-~~11~~ 10	~~23.0~~ 24	18	18-8-12-18	20		25	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	
S-~~12~~ 11	~~28.0~~ 29	18	18-8-8-10	16		30	SP		Light Gray, wet, med dense, Poorly Graded Sand, trace gravel	

NOTES:

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New Castle, Delaware 19720

LOG OF BORING NO. ~~ML-2~~ LR-2

PROJECT: **West Line Road**
PROJECT NO: **AGR 1550, Task 37**
PROJECT LOCATION: **Sussux County, Delaware**

GROUND SURFACE ELEVATION:
LOGGED BY: **CC**
CHECKED BY: **ML**

SAMPLE NUMBER	SAMPLE DEPTH (ft)	SAMPLE RECOVERY (in)	SAMPLE BLOWS/6 inches	N (blows/ft)	ELEVATION (ft)	DEPTH (ft)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-13	~~33.0~~ 34	18	8-5-7-10	12		35	SP		Light Grey, wet, med dense, Poorly Graded Sand, trace gravel	Augers charged w/ Drilling Mud & Water to clean out hole
S-14	~~38.0~~ 39	16	10-9-11-12	20		40	SP		Light Grey, wet, med dense, Poorly Graded Sand, trace gravel	
S-15	~~43.0~~ 44	20	6-5-9-12	14		45	SP		Light Grey, wet, med dense, Poorly Graded Sand, trace gravel	
S-16	~~48.0~~ 49	10	13-10-10-12	20		50	SP		Light Grey, wet, med dense, Poorly Graded Sand, trace gravel	
S-17	~~53.0~~ 54	20	16-17-21-17	38		55	SP		Light Grey, wet, dense, Poorly Graded Sand, trace gravel	
S-18	~~58.0~~ 59	18	18-8-20-21	28		60	SP		Light Grey, wet, med dense, Poorly Graded Sand, trace gravel	
									TBT @ 60 ft TB Backfilled upon completion	

NOTES:

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LOG OF BORING ~~ME-2~~ LR-2

LOBG AGR 1550, TASK 37.GPJ 12/7/12