



**GEOTECHNICAL ENGINEERING SERVICES
JOB NO. 1-61003
INVESTIGATION OF 88 RESIDENTIAL LOTS
THE PEAKS @ MARIPOSA RANCH
RIO RANCHO, NEW MEXICO**

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**PREPARED FOR
THE TROUGHS, LLC**

December 20, 2016
Job No.1-61003

The Troughs, LLC
Mr. Bob Prewitt
prewitt@swcp.com

RE: Geotechnical Engineering Services
Investigation of 88 Residential Lots
The Peaks @ Mariposa Ranch
Rio Rancho, New Mexico

Dear Mr. Prewitt:

Submitted herein is the Geotechnical Engineering Services Report for our investigation of selected Lots within Blocks 2, 3, 4, 5, 7 and 9 of the Peaks @ Mariposa Ranch. The report contains the results of our field investigation and recommendations for remedial earthwork to be performed.

It has been a pleasure to serve you on this project. If you should have any questions, please contact this office.

Respectfully submitted:

Reviewed by:

GEO-TEST, INC.



Patrick Whorton, EI



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INTRODUCTION

This report presents the results of the geotechnical engineering services investigation performed for selected lots within The Peaks @ Mariposa Ranch in Rio Rancho, New Mexico.

The objectives of this investigation were to:

- 1) Evaluate the nature and engineering properties of the subsurface soils underlying the site in order to assess the condition of previously constructed residential lots.
- 2) Provide recommendations for remedial earthwork as necessary with respect to the original geotechnical investigation provided by Geo-Test, Inc. (Job No. 1-60607, dated August 3, 2006).

The investigation includes subsurface exploration, selected soil sampling, laboratory testing of the samples, performing an engineering analysis and preparation of this report.

PROPOSED CONSTRUCTION

A total of 88 residential lots within The Peaks subdivision are included in this investigation. The Lots investigated are as follows:

- Block 2 – Lots 1, 6, and 8-10
- Block 3 – Lots 1, 2, 4, and 6
- Block 4 – Lots 3, 6-8, 11-26, 28, 29, 33, 45-53, and 55-60
- Block 5 – Lots 1, 2, 4-8, 10-15, 17-20, and 22-30
- Block 7 – Lots 2-11
- Block 9 – Lots 1-5

Residential structures will be constructed on each lot and are anticipated to be of wood frame or masonry construction. Structural loads are expected to be light not exceeding 2.0 kips per lineal foot on bearing walls and 20 kips on columns. No basements are planned and slab-on-grade construction will be utilized.

Should structural loads or other project details vary significantly from those outlined above, this firm should be notified for review and revision of recommendations contained herein.

SITE HISTORY

The original geotechnical investigation of the site was conducted by this firm in 2006, the results of which were presented in our Geotechnical Engineering Services report, Job no. 1-60607, Tract 1A-17 Mariposa Ranch. The earthwork operations at the site began in 2007 with this firm providing the material testing for the project. Earthwork operations were completed in 2007. Since that time, the lots in question have remained dormant.

FIELD EXPLORATION

Eighty-six (86) exploratory borings were drilled to a depth of 10 feet below existing site grade. The locations of the borings are shown on the attached Boring Location Maps, Figures 1-5. During the test drilling, the soils encountered in the borings were continuously examined, visually classified and logged. The boring logs are presented in a following section of this report. Drilling was accomplished by a truck mounted drill rig using 5.5-inch diameter continuous flight hollow stem auger. Standard penetration testing was performed within the borings at five foot intervals or less utilizing an open tube split barrel sampler.

Two lots were inaccessible to our drilling equipment during the time the investigation was conducted. The two lots not investigated and therefore not included within this report are Lots 29 and 54 of Block 4. Once these lots are made accessible, they will be investigated and an addendum to this report will be issued as to the results of that investigation.

SITE CONDITIONS

All of the building pads at the Lots investigated were near finished grade at the time of this investigation. Loose superficial soils were encountered on the surface. Native vegetation has sporadically grown on the lots and wind as well as some water erosion has taken place.

SUBSURFACE SOIL CONDITIONS

As indicated by the exploratory borings, the soils underlying the various Lots consist predominantly of non-plastic silty sands and relatively clean sands which extend to the full depths explored. Although occasional thin lenses of medium plasticity clays were encountered at various depths at some of the boring locations, a significant layer of clay was encountered beneath Lots 7 and 24 of Block 5 at a depth of 3 to 4 feet. The results of the standard penetration testing indicate that the soils underlying most of the pads

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investigated are medium to very dense. The exception was Lot 11 of Block 4 and Lot 4 of Block 5 where loose soils were encountered at a depth of 2.5 to 5 feet below existing grade.

No free groundwater was encountered in the borings and soil moisture contents were generally moderate throughout the depths explored.

CONCLUSIONS AND RECOMMENDATIONS

For all lots investigated, with the exception of Lot 11 within Block 4 and Lots 4, 7, and 24 within Block 5, no overexcavation is required; however, surface preparation should be conducted before any construction begins as recommended in the Site Grading section of this report.

Due to the presence of loose soils, or potentially expansive clays being present near the foundation bearing depth, it is recommended that special site preparation be performed on Lot 11 within Block 4, and on Lots 4, 7, and 24 within Block 5. Detailed recommendations for the special site preparation are presented in the Site Grading section of this report.

Recommendations for foundation and slab design remain unchanged from those presented in the 2006 report 1-60607 entitled Tract 1A-17, Mariposa Ranch. These recommendations remain valid and should be adhered to for all new construction.

Post-construction moisture increases in the supporting soils could cause some differential foundation movements and could create excessive movements, at least in some areas of the site. Therefore, moisture protection is considered critical for the satisfactory performance of the structures and should be reflected in overall site grading and drainage details as recommended in the Moisture Protection section of report 1-60607.

SITE GRADING

The following general guidelines should be included in the project construction specifications to provide a basis for quality control during site grading. It is recommended that all structural fill and backfill be placed and compacted under engineering observation and in accordance with the following:

- 1) After clearing and grubbing and any required grading, the existing surface soils of all investigated lots within Blocks 2, 3, 4, 5, 7 and 9 (with the exception of Lot 11 within Block 4 and Lots 4, 7, and 24 within Block 5), should be scarified to a depth of 12 inches, moisture conditioned

within 2 percent of the optimum moisture and compacted to a minimum of 95 percent of maximum dry density as determined in accordance with ASTM D-1557. If additional fill is required to bring eroded pads back to design grade, the preceding moisture conditioning and compaction should be performed at existing grade prior to the placement of structural fill.

- 2) The existing soils underlying the proposed building areas of Lot 11 within Block 4 and Lots 4, 7, and 24 within Block 5, should be overexcavated to such an extent as to provide for a minimum of 3.0 feet of properly compacted structural fill beneath all foundations and floor slabs, or to such an extent as to remove all clay soils, whichever is the greater depth of overexcavation. The limits of the overexcavation should also extend laterally from the foundation perimeters a distance equal to the depth of fill beneath their bases. Any clay encountered during the overexcavation process should be wasted or placed in non-structural areas of the site. Prior to placement of structural fill, the exposed native soils should be moisture conditioned and densified as recommended below.
- 3) The exposed native soils at the base of the excavations should be scarified to a depth of 12 inches and watered as necessary to bring the upper 5 feet as close as practicable to the optimum moisture content or above. Flooding of the excavations will be an acceptable means of achieving the required soil moisture increases. Once the moisture content of the soils has equilibrated and is sufficiently stable for the support of heavy compaction equipment, the bottom of the excavations should be subjected to a minimum of 20 passes with a heavy vibratory roller. The area should then be compacted to a minimum of 95 percent of maximum dry density as determined in accordance with ASTM D-1557.
- 4) The results of this investigation indicate that most of the over-excavated soils will be suitable as structural fill; however, blending of materials or possibly imported fill may be required to meet the specifications for structural fill.
- 5) All structural fill and backfill material should be free of vegetation and debris and contain no rocks larger than 3 inches. The gradation of the material, as determined in accordance with ASTM D-422, should be as follows:

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Sieve Size	Percent Passing
3 inch	100
No. 4	60 - 100
No. 200	15 - 45

- 6) The plasticity index of the structural fill should be no greater than 15 when tested in accordance with ASTM D-4318.
- 7) Fill or backfill, should be placed in 8-inch loose lifts and compacted with approved compaction equipment. Lifts should be reduced to 4-inches if hand held compaction equipment is used. Each lift should be firm and non-yielding.
- 8) All compaction of fill or backfill shall be accomplished to a minimum of 95 percent of the maximum dry density as determined in accordance with ASTM D-1557. The moisture content of the fill or backfill, during compaction, should be within 2 percent of the optimum moisture content.
- 9) Tests for degree of compaction should be determined by the ASTM D-1556 method or ASTM D-6938. Observation and field tests should be carried on during fill and backfill placement by the geotechnical engineer to assist the contractor in obtaining the required degree of compaction. If less than 95 percent is indicated, additional compaction effort should be made with adjustment of the moisture content as necessary until 95 percent compaction is obtained.

CLOSURE

Our conclusions, recommendations and opinions presented herein are:

- 1) Based upon our evaluation and interpretation of the findings of the field and laboratory program.
- 2) Based upon an interpolation of soil conditions between and beyond the explorations.
- 3) Subject to confirmation of the conditions encountered during construction.
- 4) Based upon the assumption that sufficient observation will be provided during construction.

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- 5) Prepared in accordance with generally accepted professional geotechnical engineering principles and practice.

This report has been prepared for the sole use of The Troughs, LLC, specifically for the remediation of 88 Lots of The Peaks @ Mariposa Ranch in Rio Rancho, New Mexico, and not for use by any third parties.

We make no other warranty, either expressed or implied. Any person using this report for bidding or construction purposes should perform such independent investigation as they deem necessary to satisfy themselves as to the surface and subsurface conditions to be encountered and the procedures to be used in the performance of work on this project. If conditions encountered during construction appear to be different than indicated by this report, this office should be notified.

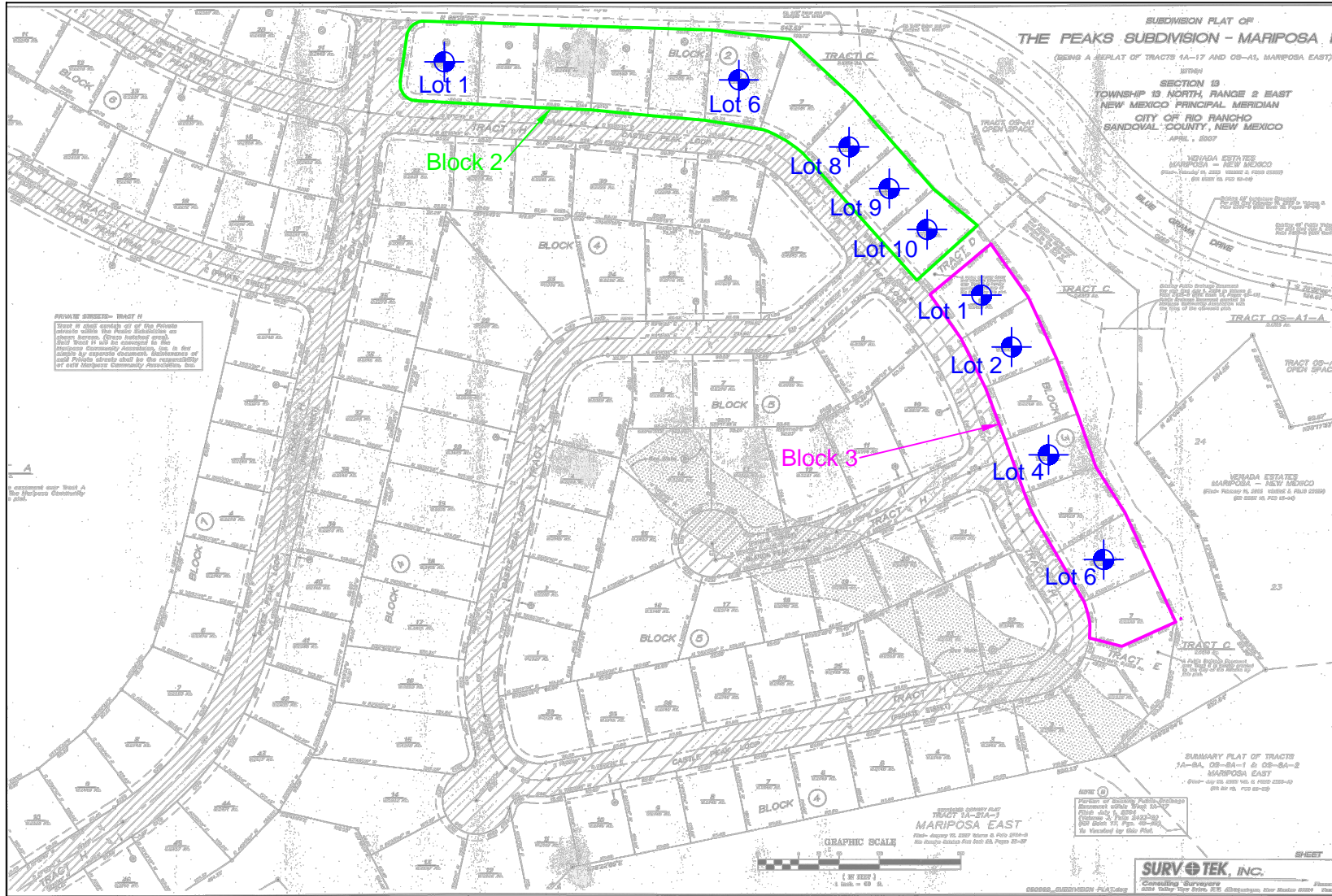
All soil samples will be discarded 60 days after the date of this report unless we receive a specific request to retain the samples for a longer period of time.

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BORING LOCATION MAP



The Peaks @ Mariposa Ranch Lot Investigation
 Rio Rancho, New Mexico
 Job No. 1-61003

Figure 1
 Blocks 2 & 3



GEO-TEST
 GEOTECHNICAL ENGINEERING
 AND MATERIAL TESTING



Project: 88 Lots @ The Peaks- Block 2

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 01

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	10-11-9 20			SM	SILTY SAND, non-plastic, medium dense to dense, slightly moist, brown	20
			SS	12-11-11 22					22
			SS	8-11-18 29					29
10			SS	15-16-17 33					33
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks- Block 2
 Date: 11/30/2016 Project No: 1-61003
 Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 06

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-13-12 25			SM	SILTY SAND, non-plastic, medium dense to dense, slightly moist, brown	25
			SS	22-18-16 34					34
			SS	13-22-22 44					44
10			SS	18-23-25 48					48
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LEGEND

- SS - Split Spoon
- AC - Auger Cuttings
- UD/SL - Undisturbed Sleeve
- AMSL - Above Mean Sea Level
- CS - Continuous Sampler
- UD - Undisturbed
- ST - Shelby Tube

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Project: 88 Lots @ The Peaks- Block 2

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 08

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	6-7-8 15				SILTY SAND, non-plastic, medium dense to dense, moist, brown	15
			SS	10-11-10 21					21
			SS	6-13-15 28			SM		28
10			SS	12-15-17 32					32
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

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Project: 88 Lots @ The Peaks- Block 2

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 09

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	10-11-12 23					23
			SS	15-16-17 33					33
5			SS	10-16-16 32			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	32
10			SS	14-15-16 31					31
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
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Project: 88 Lots @ The Peaks- Block 2

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 10

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE						
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft					
5			SS	12-10-9 19			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	20	40	60	80		
			SS	10-14-13 27										
			SS	11-16-15 31										
10			SS	14-14-15 29										
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet					

LEGEND

SS - Split Spoon
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UD/SL - Undisturbed Sleeve

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Project: 88 Lots @ The Peaks- Block 3

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 3 - Lot 01

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE						
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft					
5			SS	8-10-9 19			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	20	40	60	80		
			SS	10-11-13 24										
			SS	9-15-15 30										
10			SS	15-17-20 37										
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet					
15														

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
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Project: 88 Lots @ The Peaks- Block 3

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 3 - Lot 02

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	10-11-13 24					
			SS	13-13-13 26					
5			SS	10-14-15 29			SM	SILTY SAND, non-plastic, medium dense, moist, brown	
10			SS	9-13-14 27					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
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UD/SL - Undisturbed Sleeve

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Project: 88 Lots @ The Peaks- Block 3

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 3 - Lot 04

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-12-16 28			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	28
			SS	10-18-17 35					35
			SS	13-21-20 41					41
10			SS	15-17-21 38					38
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
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Project: 88 Lots @ The Peaks- Block 3

Date: 11/30/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 3 - Lot 06

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-13-14 27			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	27
			SS	18-21-23 44					44
			SS	10-12-13 25					25
10			SS	13-16-18 34					34
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16

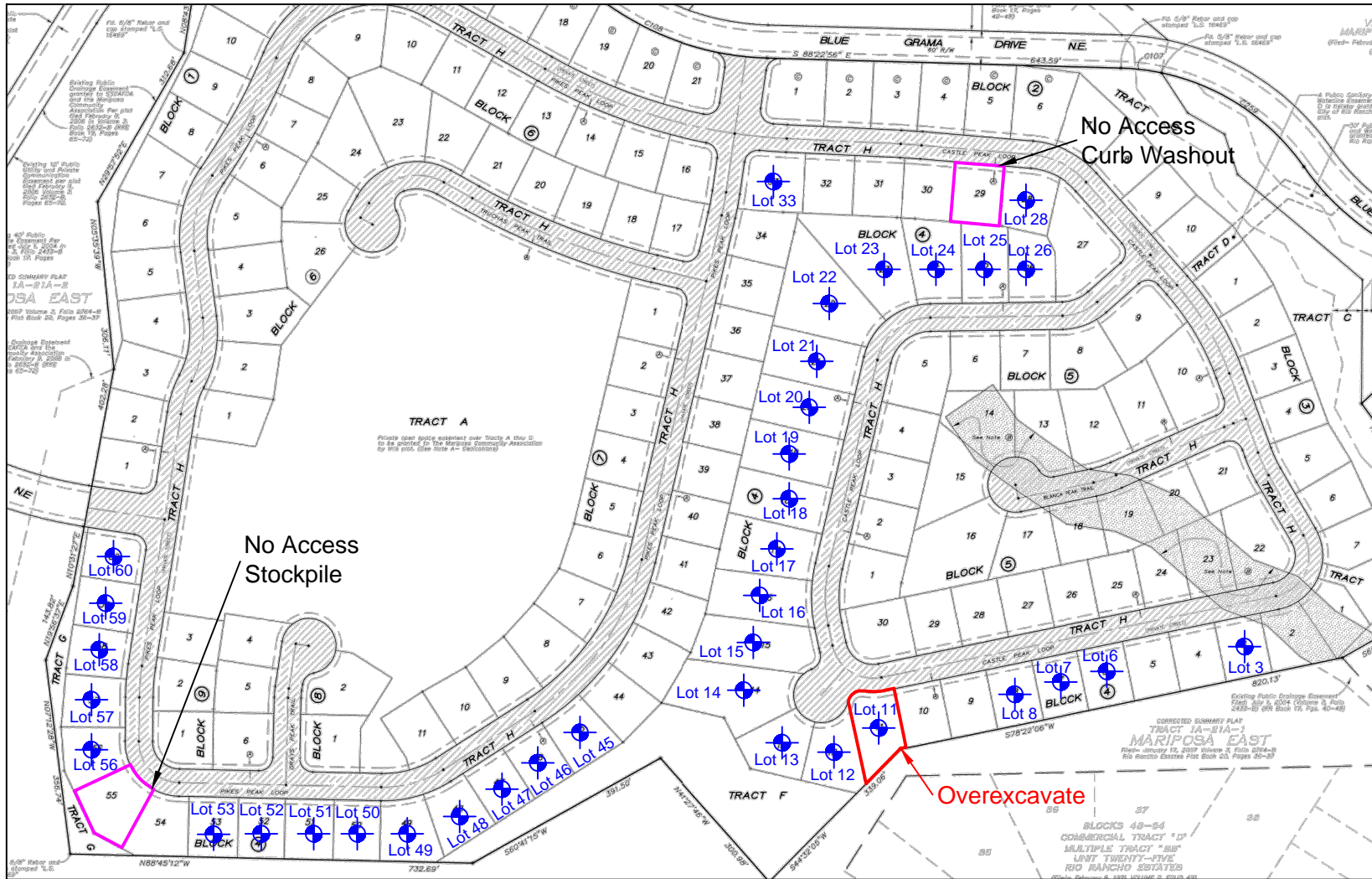
LEGEND

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BORING LOCATION MAP



The Peaks @ Mariposa Ranch Lot Investigation
 Rio Rancho, New Mexico
 Job No. 1-61003

Figure 2
 Block 4



GEO-TEST
 GEOTECHNICAL ENGINEERING
 AND MATERIAL TESTING



Project: 88 Lots @ The Peaks - Block 4

Date: 12/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 06

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	18-20-21 41			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown	41
			SS	21-27-25 52					52
			SS	21-22-23 45					45
10			SS	18-21-20 41					41
15									
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

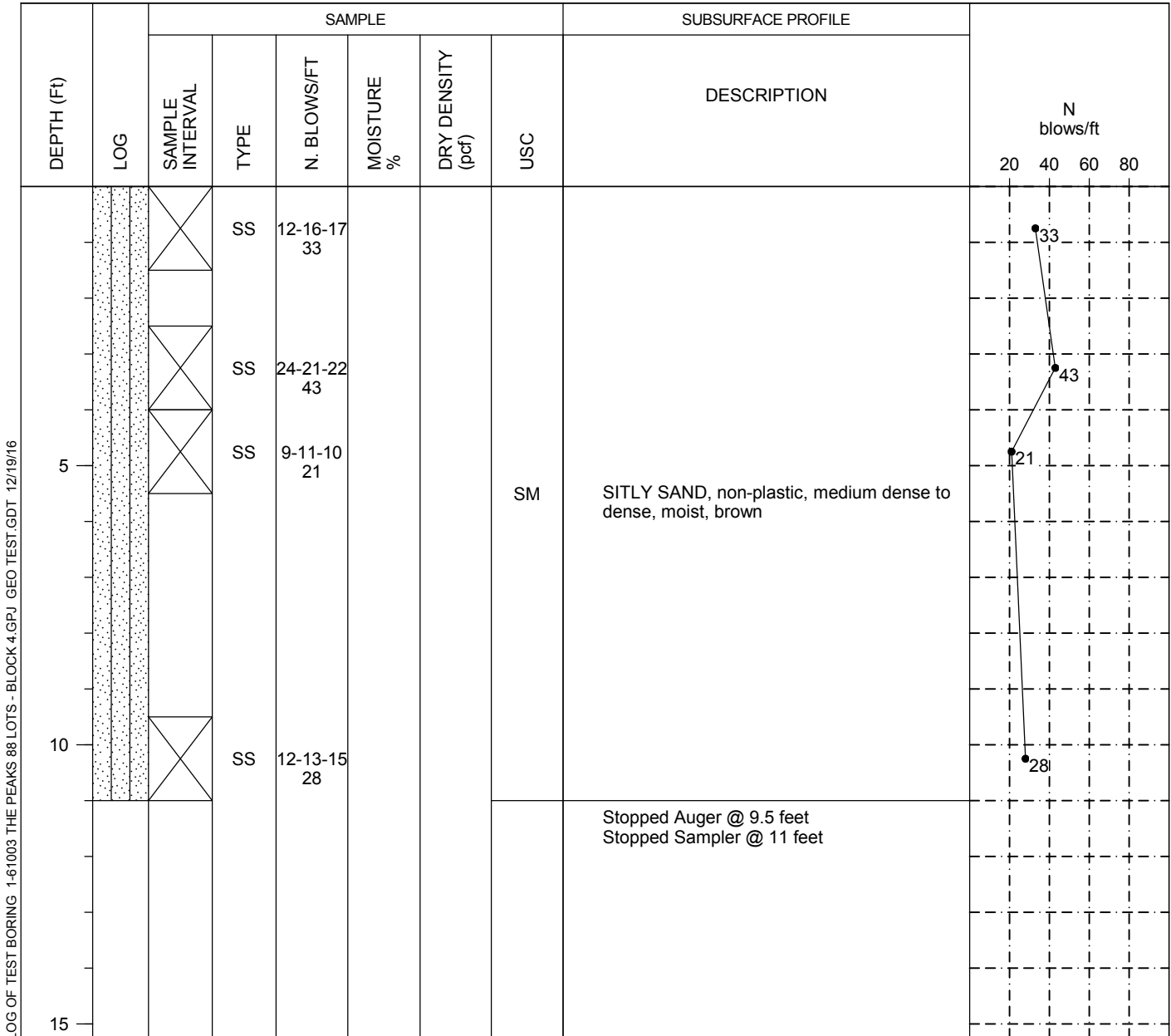
LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 07

During Drilling: none

After 24 Hours:



LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 08

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-12-13 25			SM	SITLY SAND, non-plastic, medium dense to dense, moist, brown	25
			SS	14-18-20 38					38
			SS	9-15-17 32					32
10			SS	18-18-18 36					36
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 11

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	8-6-9 15				WELL GRADED SAND with SILT, non-plastic, medium dense to loose, slightly moist, reddish brown	20 40 60 80
			SS	4-5-5 10					15
			SS	5-4-3 7			SW-SM		10
10			SS	12-20-35 55			SM	SILTY SAND, non-plastic, very dense, moist, light brown	7
15								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	55

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 12

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE						
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft					
5			SS	6-9-10 19			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium dense, moist, reddish brown	20	40	60	80		
			SS	6-8-10 18										
			SS	6-10-11 21										
10			SS	10-22-44 66			SM	SILTY SAND, non-plastic, very dense, moist, light brown						
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet						
15														

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 13

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	8-12-13 25					
			SS	8-12-15 27					
			SS	10-11-14 25			SM	SILTY SAND, non-plastic, medium dense, moist, brown	
10			SS	9-12-23 35			CL	SANDY CLAY, medium plasticity, firm, moist, reddish brown	
								Stopped Auger @ 9.5 feet Stopped Smapler @ 11 feet	

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 14

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	5-10-15 25			SM	SILTY SAND, non-plastic, medium dense, slightly moist, brown	25
			SS	9-16-20 36					36
5			SS	13-15-20 35			SW-SM		35
10			SS	8-14-16 30					30
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
								Note: Concrete Debris and Washout on this lot	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 15

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	7-20-25 45					
			SS	17-27-27 54					
			SS	19-35-50 85			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown	
10			SS	27-50 77					
								Stopped Auger @ 9.5 feet Sampler Refusal @ 10.5 feet	

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 16

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	4-9-12 21					20 40 60 80
			SS	22-50 72					
			SS	14-25-38 63			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	
10			SS	9-27-25 52					
15								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 17

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE					SUBSURFACE PROFILE		N blows/ft			
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20	40	60	80
0							SM	SILTY SAND, non-plastic, loose, slightly moist, brown				
4		4-12-20	SS	32								32
8		8-30-35	SS	65								65
5		20-50	SS	70								70
10		19-26-34	SS	60			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown				60
9.5								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet				

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 10/31/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 18

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	7-7-11 18				WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	
			SS	11-20-25 45					
			SS	13-24-30 54		SW-SM			
10			SS	50 50					
								Stopped Auger @ 9.5 feet Sampler Refusal @ 10 feet	
15									

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 19

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE		
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft	
									20 40 60 80	
			SS	6-12-19 31						
			SS	7-14-21 35						
5			SS	2-8-12 20			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium dense to dense, slightly moist, reddish brown * Thin Clay Lenses 2 to 11 feet		
10			SS	4-15-29 44						
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
15										

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 20

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	12-12-13 25					
			SS	17-25-30 55					
5			SS	33-50 83			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown * Thin Clay Lenses 7 to 11 feet	
10			SS	12-23-22 45					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 21

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	12-13-14 27					
			SS	12-23-27 50					
5			SS	18-28-50 78			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	
10			SS	50 50					
								Stopped Auger @ 9.5 feet Sampler Refusal @ 10 feet	
15									

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 22

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
9.9-9		X	SS	18					18
10-18-24		X	SS	42					42
15-26-27		X	SS	53			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	53
28-50		X	SS	78					78
								Stopped Auger @ 9.5 feet Sampler Refusal @ 10.5 feet	

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 23

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	8-9-8 17			SM	SILTY SAND, non-plastic, medium dense, moist, brown	17
			SS	9-9-9 18					18
			SS	4-7-8 15					15
10			SS	14-13-14 27					27
								Stopped Auger @ 9.5 feet Stopped Smapler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 24

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	8-8-9 17			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	17
			SS	7-11-12 23					23
			SS	10-18-19 37					37
10			SS	4-7-7 14					14
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 25

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	10-9-10 19					20 40 60 80
			SS	6-12-12 24					
			SS	8-13-15 28			SM	SILTY SAND, non-plastic, medium dense, moist, brown	
10			SS	8-11-10 21					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 26

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	8-9-10 19					19
			SS	7-10-11 21					21
5			SS	7-10-14 24			SM	SILTY SAND, non-plastic, medium dense, moist, brown	24
10			SS	11-12-11 23					23
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 12/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 28

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
5	[Patterned]	[X]	SS	8-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
		[X]	SS	9-10-11 21					21
		[X]	SS	7-12-10 22					22
		[X]	SS	11-12-13 25					25
10									
15									
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 4

Date: 12/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 33

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE			
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft		
5			SS	14-15-15 30							
			SS	16-21-23 44							
			SS	13-23-24 47							
10			SS	20-25-24 49							
							SM	SILTY SAND, non-plastic, dense to very dense, moist, brown			
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet			

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 45

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	8-10-13 23			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	20 40 60 80
			SS	11-16-15 31					
			SS	9-9-14 23					
10			SS	12-16-18 34					
									Stopped Auger @ 9.5' Stopped Sampler @ 11'

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 46

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE		
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft	
									20 40 60 80	
			SS	20-18-20 38						38
			SS	18-16-17 33						33
5			SS	19-23-22 45			SM	SILTY SAND, non-plastic, dense to very dense, moist, brown		45
10			SS	21-24-26 50						50
								Stopped Auger @ 9.5' Stopped Sampler @ 11'		
15										

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 47

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	10-11-12 23			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	23
			SS	9-16-15 31					31
			SS	18-17-19 36					36
10			SS	20-20-20 40					40
									Stopped Auger @ 9.5' Stopped Sampler @ 11'

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 48

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	10-11-10 21			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	21
			SS	9-9-9 18					18
			SS	12-13-14 27					27
10			SS	10-16-20 36					36
									Stopped Auger @ 9.5' Stopped Sampler @ 11'

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 49

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC		DESCRIPTION
5	[Patterned]	[X]	SS	6-8-8 16			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	16
		[X]	SS	8-9-12 21					21
		[X]	SS	12-16-16 32					32
		[X]	SS	15-18-19 37					37
10									
15									
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 50

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	6-7-8 15					15
			SS	10-9-11 20					20
5			SS	8-12-14 26			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	26
10			SS	12-18-18 36					36
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 51

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-12-13 25					25
			SS	14-14-14 28					28
			SS	18-18-23 41			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	41
10			SS	20-17-16 33					33
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	

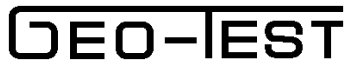
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 52

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	8-9-9 18					
			SS	12-13-14 27					
			SS	9-14-16 30			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	
10			SS	11-11-15 26					
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	

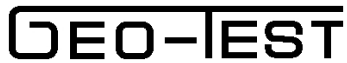
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/09/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

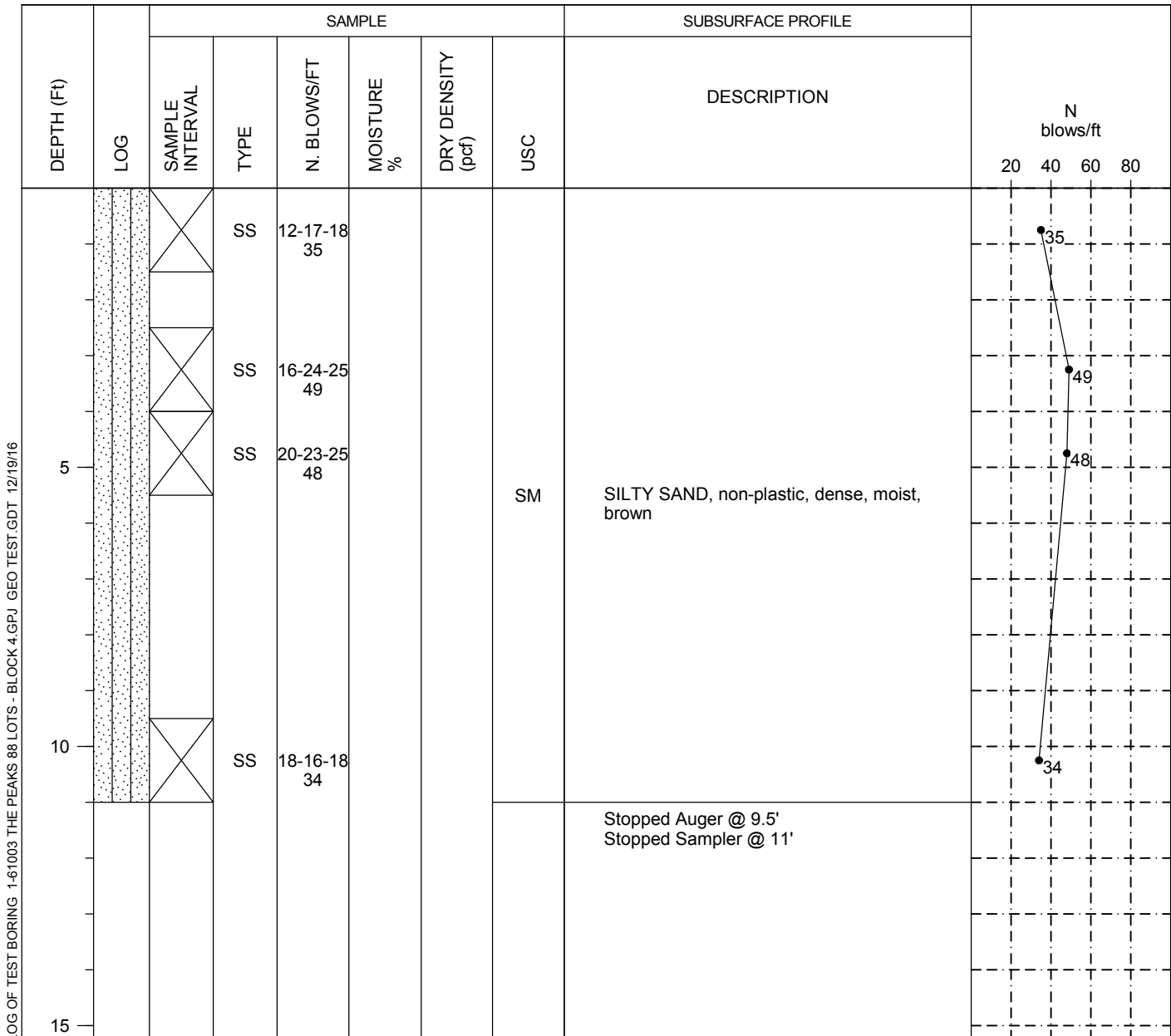
LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 53

During Drilling: none

After 24 Hours:



LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 56

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	7-8-9 17			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	17
			SS	8-12-13 25					25
			SS	16-17-16 33					33
10			SS	18-18-18 36					36
									Stopped Auger @ 9.5' Stopped Sampler @ 11'

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 57

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	4-5-6 11					11
			SS	6-10-12 22					22
5			SS	8-9-11 20			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	20
10			SS	16-17-18 35					35
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
15									

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

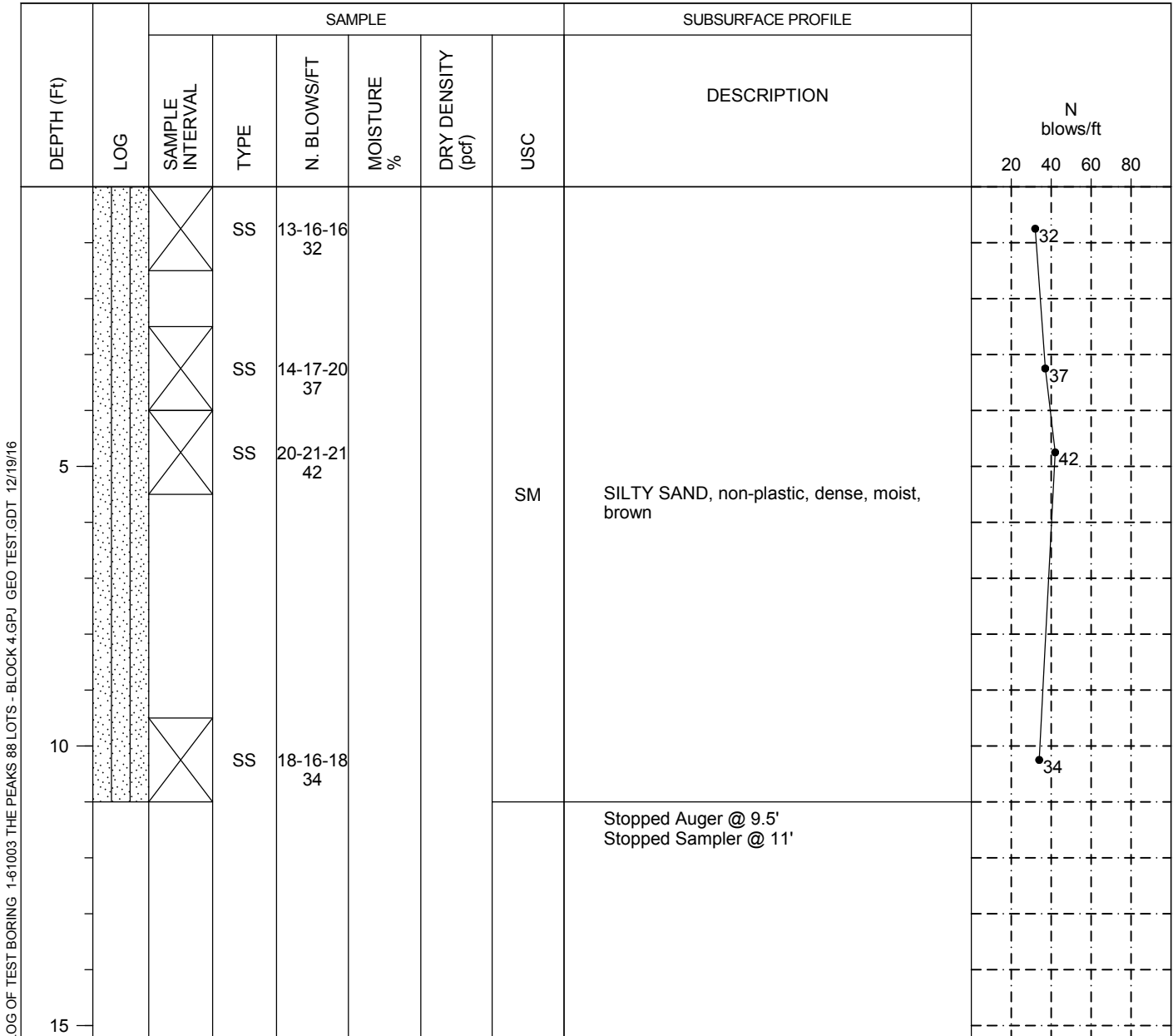
LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 58

During Drilling: none

After 24 Hours:



LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 59

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	18-16-17 33			SM	SILTY SAND, non-plastic, dense, moist, brown	33
			SS	20-21-22 43					43
			SS	23-22-22 44					44
10			SS	18-19-18 37					37
									Stopped Auger @ 9.5' Stopped Sampler @ 11'

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

LEGEND

- SS - Split Spoon
- AMSL - Above Mean Sea Level
- AC - Auger Cuttings
- CS - Continuous Sampler
- UD/SL - Undisturbed Sleeve
- UD - Undisturbed
- ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 4

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 60

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-13-15 28			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	28
			SS	14-18-22 40					40
			SS	9-12-12 24					24
10			SS	11-13-17 30					30
									Stopped Auger @ 9.5' Stopped Sampler @ 11'

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16

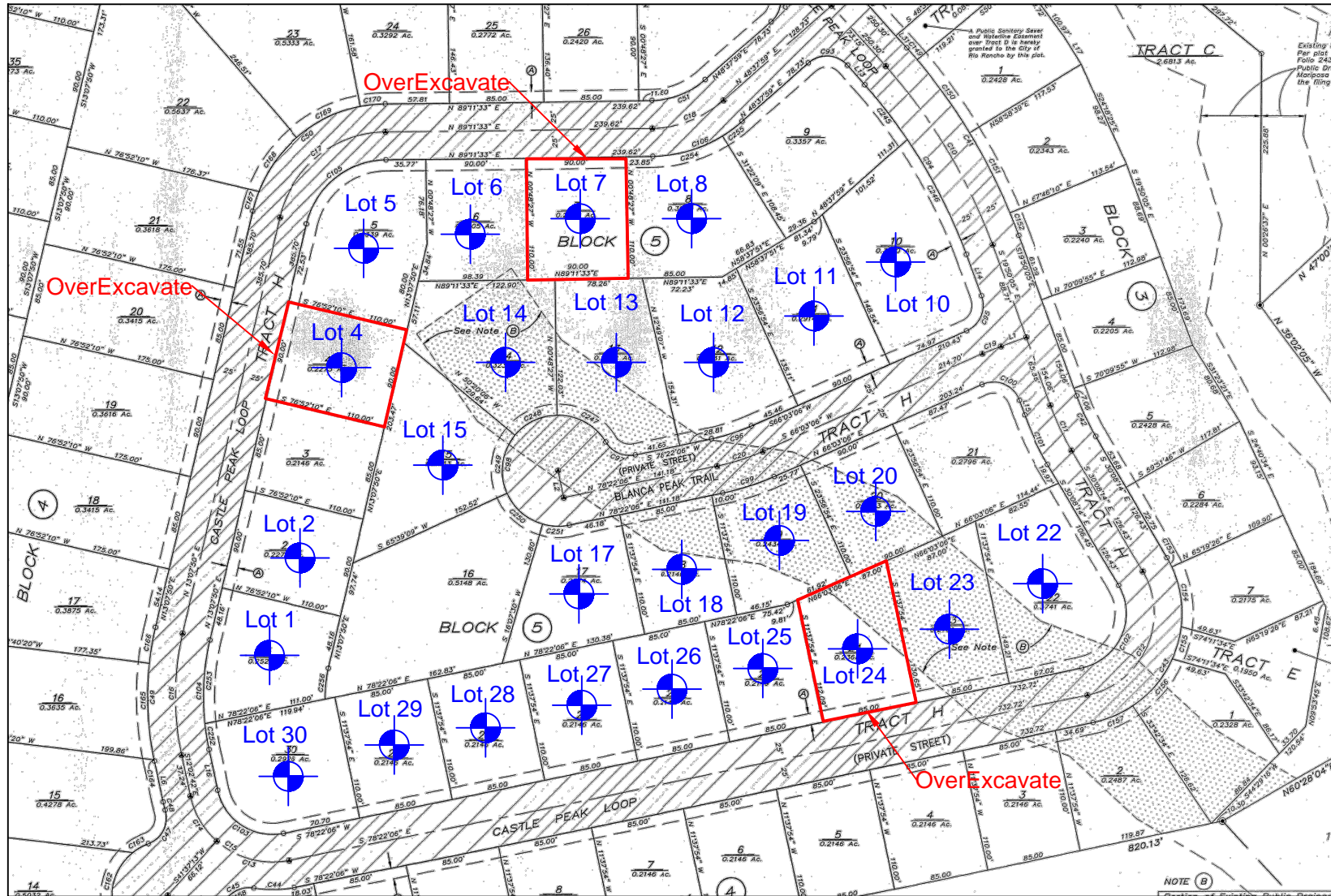
LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.

BORING LOCATION MAP



The Peaks @ Mariposa Ranch Lot Investigation
 Rio Rancho, New Mexico
 Job No. 1-61003

Figure 3
 Block 5



GEO-TEST
 GEOTECHNICAL ENGINEERING
 AND MATERIAL TESTING



Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 01

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	7-8-7 15			SM	SILTY SAND, non-plastic, medium dense, moist, brown	15
			SS	7-7-9 16			SP	POORLY GRADED SAND with GRAVEL, non-plastic, medium dense, moist, reddish brown	16
5			SS	7-5-7 12					12
10			SS	9-8-10 18					18
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 02

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	8-8-6 14				SILTY SAND, non-plastic, medium dense, moist, brown	14
			SS	4-6-7 13			13		
			SS	4-5-8 13		SM	13		
10			SS	6-7-8 15			15		
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 5

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 04

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	7-6-8 14			SM	SILTY SAND, non-plastic, loose to medium dense, moist, brown	14
			SS	4-3-5 8					8
			SS	3-3-5 8					8
			SS	3-5-10 15					15
10			SS	7-8-9 17					17
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 5

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 05

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	10-10-11 21			SM	SILTY SAND, non-plastic, medium dense to dense, slightly moist, brown	21
			SS	10-15-16 31					31
			SS	4-7-8 15					15
10			SS	4-7-9 16					16
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 5

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 06

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	10-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
			SS	11-12-13 25					25
			SS	10-12-12 24					24
10			SS	12-13-14 27					27
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet
15									

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 5

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 07

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	6-7-6 13			SM	SILTY SAND, non-plastic, medium dense, moist, brown	13
			SS	7-8-9 17			CL	SANDY CLAY, low to medium plasticity, firm, slightly moist, dark brown	17
5			SS	7-10-15 25			SM	SILTY SAND, non-plastic, medium dense, moist, brown	25
10			SS	10-11-13 24					24
								Stopped Auger @ 9.5 feet Stopped Smapler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: 88 Lots @ The Peaks - Block 5

Date: 11/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 08

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	7-10-12 22			SM	SILTY SAND, non-plastic, medium dense, moist, brown	22
			SS	9-12-14 26					26
			SS	7-6-6 12					12
10			SS	7-10-14 24					24
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 12/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 10

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	18-20-18 38			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown	38
			SS	29-30-24 54					54
			SS	24-26-26 52					52
10			SS	20-21-23 44					44
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 12/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 11

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	13-17-17 34					34
			SS	16-26-27 53					53
			SS	24-30-31 61					61
10			SS	18-21-24 45					45
							SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown	
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 12/02/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 12

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-14-13 27			SM	SILTY SAND, non-plastic, dense, moist, brown	27
			SS	15-19-21 40					40
			SS	18-19-20 39					39
10			SS	21-23-21 44					44
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 12/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 13

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
5	[Pattern]	[X]	SS	20-16-15 31			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, brown	31
		[X]	SS	18-19-20 39					39
		[X]	SS	25-26-26 52					52
		[X]	SS	18-20-23 43					43
10									
15									
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 12/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 14

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	14-13-15 28			SM	SILTY SAND, non-plastic, medium dense, moist, brown	28
			SS	13-26-26 52			SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense, slightly moist, reddish brown	52
5			SS	15-25-25 50					50
10			SS	26-50 76					76
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 12/01/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 15

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5	[Patterned]	X	SS	12-18-16 34			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown	
		X	SS	18-21-23 44					
		X	SS	15-27-28 55					
		X	SS	18-25-26 51					
10							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
15									

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 17

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	8-8-8 16					20 40 60 80
			SS	7-8-7 15					
			SS	10-9-9 18			SM	SILTY SAND, non-plastic, medium dense, moist, brown	
10			SS	8-7-7 14					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 18

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	6-7-6 13					13
			SS	7-7-7 14					14
5			SS	5-6-7 13			SM	SILTY SAND, non-plastic, medium dense, moist, brown	13
10			SS	7-8-9 17					17
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 19

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	10-12-12 24					24
			SS	15-15-16 31					31
5			SS	5-9-9 18			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	18
10			SS	5-7-7 14					14
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5
 Date: 12/01/2016 Project No: 1-61003
 Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 20

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	16-18-21 39			SM	SILTY SAND, fine to medium grain, non-plastic, dense to very dense, moist, brown	39
			SS	26-28-30 58					58
			SS	10-12-13 25					25
10			SS	14-14-13 27					27
15									
Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet									

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 22

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	8-8-6 14					14
			SS	10-17-17 34					34
5			SS	12-13-15 28			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	28
10			SS	12-12-12 24					24
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

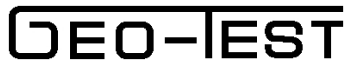
AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 23

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
5			SS	15-16-15 31			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	31
			SS	17-19-20 39					39
			SS	8-12-13 25					25
10			SS	10-11-14 25					25
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 24

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	7-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
			SS	6-7-13 20			CL	SANDY CLAY, low to medium plasticity, firm, slightly moist, brown	20
5			SS	4-5-7 12			SP	POORLY GRADED SAND, non-plastic, medium dense, slightly moist, reddish brown	12
10			SS	5-6-7 13					13
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 25

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-11-12 23					
			SS	18-26-26 52					
			SS	9-11-10 21			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	
10			SS	11-11-11 22					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

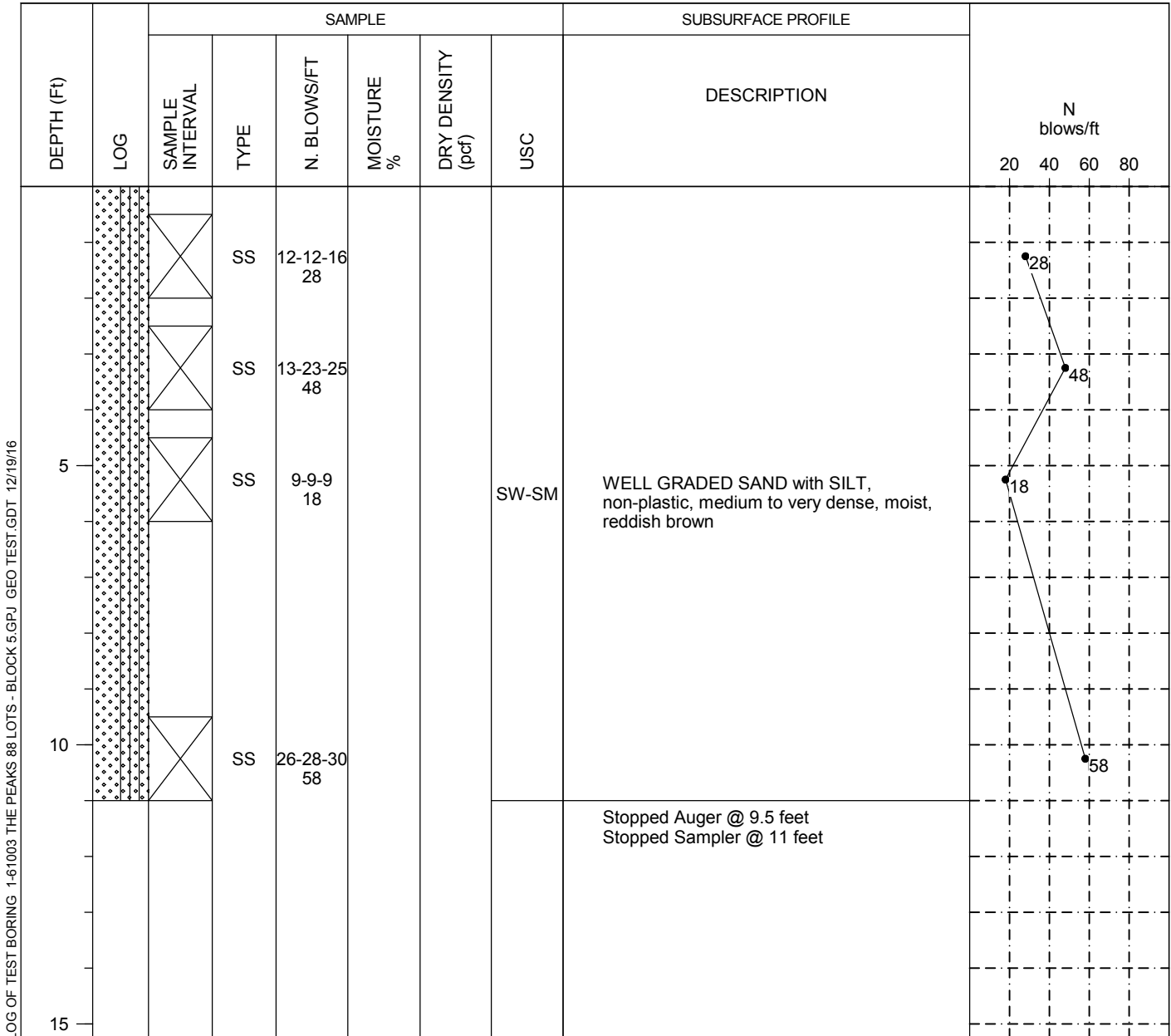
LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 26

During Drilling: none

After 24 Hours:



LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 27

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
5		16-25-25	SS	50			SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense, moist, reddish brown	50
		19-26-26	SS	52					52
10		30-50	SS	80					80
15								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/23/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 28

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	10-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
			SS	13-16-16 32			SP	POORLY GRADED SAND, non-plastic, dense to very dense, moist, reddish brown	32
5			SS	16-22-20 42					42
10			SS	17-25-25 50					50
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 29

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	8-9-10 19					19
			SS	7-11-12 23					23
5			SS	11-16-18 34			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	34
10			SS	9-13-13 26					26
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks - Block 5

Date: 11/22/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 30

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	10-11-11 22			SM	SILTY SAND, non-plastic, medium dense, moist, brown	22
			SS	7-15-16 31			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to medium dense, moist, reddish brown	31
5			SS	7-11-13 24					24
10			SS	11-12-13 25					25
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

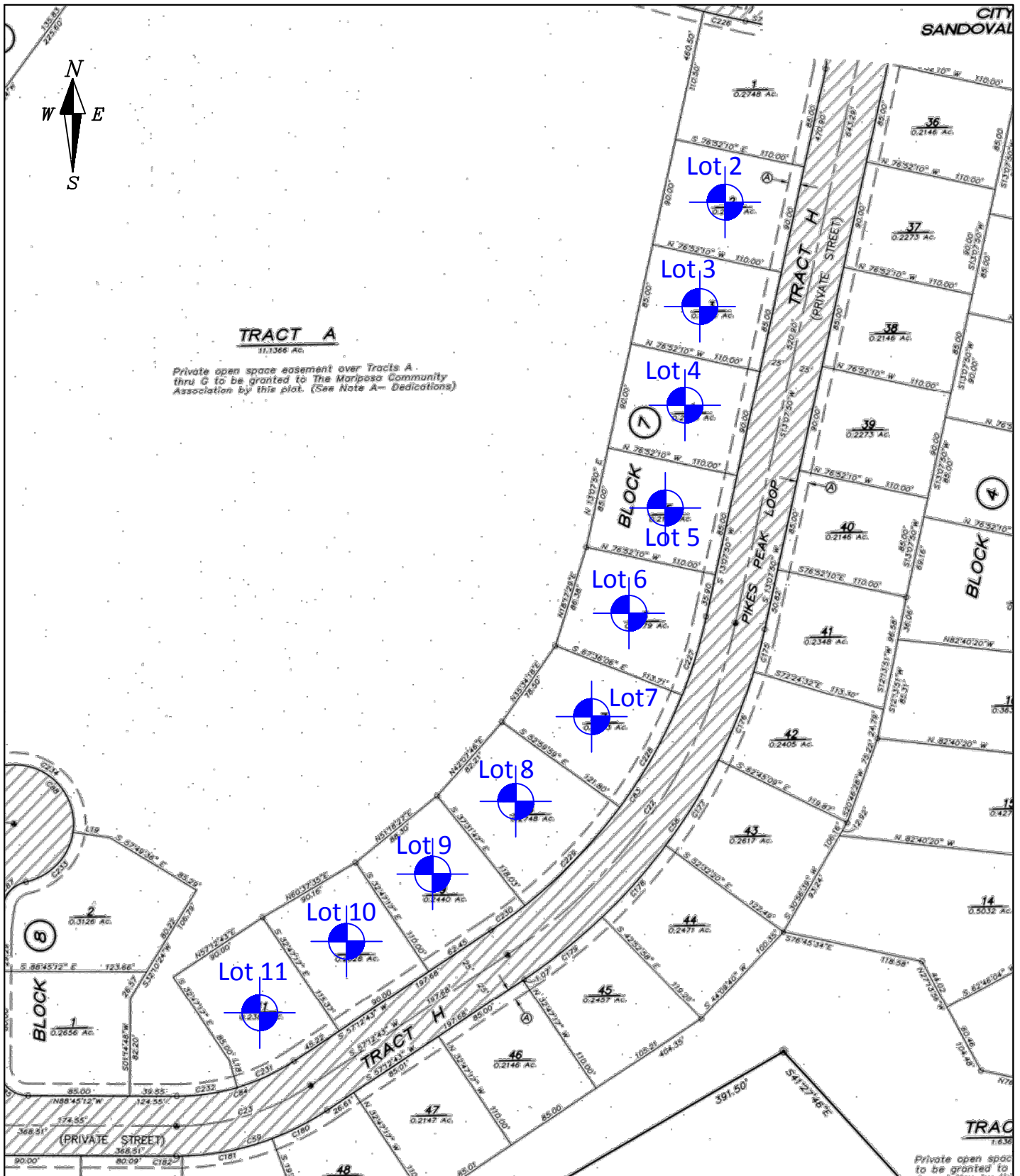
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



The Peaks @ Mariposa Ranch Lot Investigation
 Rio Rancho, New Mexico
 Job No. 1-61003

Figure 4
Block 7

GEO-TEST
 GEOTECHNICAL ENGINEERING
 AND MATERIAL TESTING



Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 02

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	13-15-15 30			SM	SILTY SAND, non-plastic, dense, moist, brown	30
			SS	16-23-21 44					44
			SS	15-21-20 41					41
10			SS	23-24-25 49					49
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: The Peaks 88 Lots - Block 7
 Date: 12/14/2016 Project No: 1-61003
 Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 03

During Drilling: none

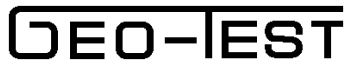
After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5			SS	14-15-16 31					
			SS	15-20-22 42					
			SS	28-30-25 55			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, brown	
10			SS	21-21-19 40					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LEGEND

- SS - Split Spoon
- AC - Auger Cuttings
- UD/SL - Undisturbed Sleeve
- AMSL - Above Mean Sea Level
- CS - Continuous Sampler
- UD - Undisturbed
- ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 04

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	7-8-9 17			SM	SILTY SAND, non-plastic, medium dense, moist, brown	17
			SS	9-15-17 32					32
5			SS	24-25-26 51			SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense, slightly moist, reddish brown	51
10			SS	21-20-21 41					41
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 05

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	4-5-6 11					11
			SS	6-7-7 14					14
5			SS	6-11-12 23			SM	SILTY SAND, non-plastic, medium dense, moist, brown	23
10			SS	9-12-13 25					25
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 06

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	12-14-16 30			SM	SILTY SAND, non-plastic, dense, moist, brown	30
			SS	15-23-21 44					44
			SS	18-20-19 39					39
10			SS	16-19-19 38					38
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 07

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
5		X	SS	10-12-12 24			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	24
		X	SS	17-20-18 38					38
		X	SS	13-14-13 27					27
10		X	SS	16-18-32 50					50
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: The Peaks 88 Lots - Block 7
 Date: 12/14/2016 Project No: 1-61003
 Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 08

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	13-14-17 31					
			SS	15-15-15 30					
			SS	12-17-19 36			SM	SILTY SAND, non-plastic, dense, moist, brown	
10			SS	16-19-23 42					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

- SS - Split Spoon
- AC - Auger Cuttings
- UD/SL - Undisturbed Sleeve
- AMSL - Above Mean Sea Level
- CS - Continuous Sampler
- UD - Undisturbed
- ST - Shelby Tube

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Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 09

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE						
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft					
5			SS	9-10-11 21			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	20	40	60	80		
			SS	14-17-16 33										
			SS	14-15-16 31										
10			SS	12-11-14 25										
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet					

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 10

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	10-13-15 28					
			SS	9-12-13 25					
5			SS	15-16-17 33			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	
10			SS	15-16-15 31					
								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
15									

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: The Peaks 88 Lots - Block 7

Date: 12/14/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 11

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
5			SS	9-10-11 21			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	21
			SS	10-14-15 29					29
			SS	9-9-12 21					21
10			SS	12-14-18 32					32
									Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet
15									

LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16

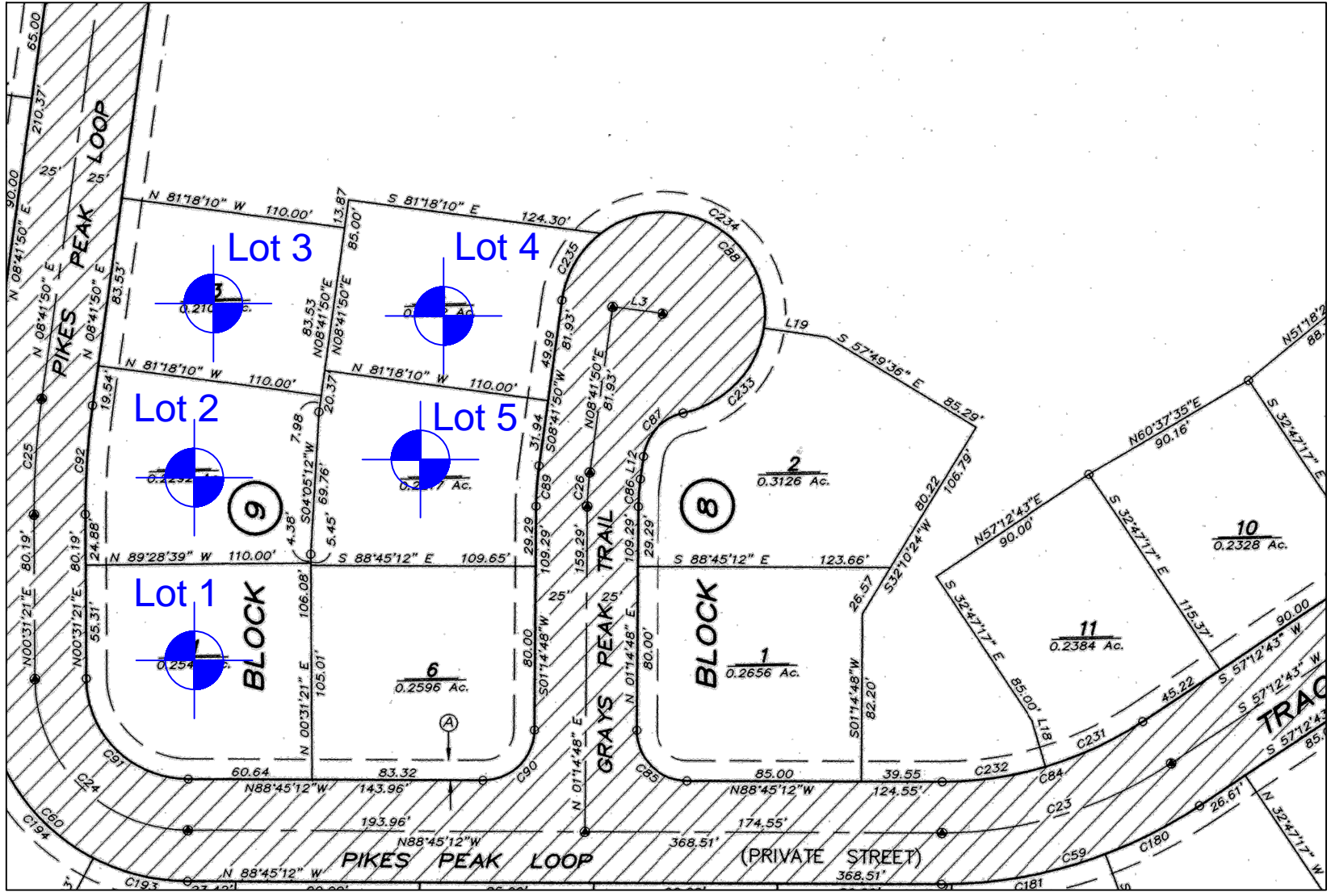
LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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BORING LOCATION MAP



The Peaks @ Mariposa Ranch Lot Investigation
 Rio Rancho, New Mexico
 Job No. 1-61003

Figure 5
 Block 9



GEO-TEST
 GEOTECHNICAL ENGINEERING
 AND MATERIAL TESTING



Project: 88 Lots @ The Peaks- Block 9
 Date: 12/08/2016 Project No: 1-61003
 Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 01

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	4-5-7 12			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
			SS	7-10-10 20					22
			SS	8-10-12 22					21
10			SS	10-10-11 21					
									Stopped Auger @ 9.5' Stopped Sampler @ 11'
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16

LEGEND

- SS - Split Spoon
- AC - Auger Cuttings
- UD/SL - Undisturbed Sleeve
- AMSL - Above Mean Sea Level
- CS - Continuous Sampler
- UD - Undisturbed
- ST - Shelby Tube

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Project: 88 Lots @ The Peaks- Block 9

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 02

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
5	[Patterned]	[X]	SS	6-7-8 15			SM	SILTY SAND, non-plastic, medium dense, moist, brown	15
		[X]	SS	8-9-8 17					17
		[X]	SS	5-9-9 18					18
		[X]	SS	12-13-12 25					25
10									
15									
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings
UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
CS - Continuous Sampler
UD - Undisturbed
ST - Shelby Tube

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Project: 88 Lots @ The Peaks- Block 9

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 03

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	7-7-7 14					14
			SS	8-12-12 24					24
5			SS	6-10-11 21			SM	SILTY SAND, non-plastic, medium dense, moist, brown	21
10			SS	10-12-9 21					21
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

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Project: 88 Lots @ The Peaks- Block 9

Date: 12/08/2016

Project No: 1-61003

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 05

During Drilling: none

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
									20 40 60 80
			SS	6-7-7 14					14
			SS	6-7-8 15					15
5			SS	6-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
10			SS	10-11-10 21					21
								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
15									

LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16

LEGEND

SS - Split Spoon
 AC - Auger Cuttings
 UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level
 CS - Continuous Sampler
 UD - Undisturbed
 ST - Shelby Tube

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