

September 10, 2019
Revised December 15, 2019



ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
PHONE (719) 531-5599
FAX (719) 531-5238

Jim Martens
8190 Poco Road
Colorado Springs, CO 80908

Re: Wastewater Study
8190 Poco Road
Parcel No. 52280-00-001
Colorado Springs, Colorado

Dear Mr. Martens:

GENERAL SITE CONDITIONS AND PROJECT DESCRIPTION

The site is located in a portion of the NW¼ of Section 28, Township 12 South, Range 66 West of the 6th Principal Meridian in El Paso County, Colorado. The site is located approximately 1½ miles northeast of Colorado Springs city limits, northwest of Poco Road and Vollmer Road in El Paso County, Colorado. The location of the site is as shown on the Vicinity Map, Figure 1.

The topography of the site is gradually sloping generally to the south. A minor drainage is located in the western portion of the property. Water was not observed in the drainage at the time of this investigation. The site boundaries are indicated on the USGS Map, Figure 2. Previous land uses have included grazing and pasture land and a rural residential development. The site contains primarily field grasses and weeds with scattered areas of ponderosa pines. A house is located in the northeastern portion of the site with an existing septic system and water well. Site photographs, taken April 23, 2019, are included in Appendix A.

Total acreage involved in the proposed minor subdivision is 12 acres. Two single-family rural residential lots are proposed as part of the replat. The proposed lot sizes are 5-acres for the western lot and 7-acres for the eastern lot. The new lot will be serviced by an individual well and on-site wastewater treatment system. The existing house is located on the eastern 7-acre lot and will remain. The Site Plan with the proposed replat is presented in Figure 3.

SOIL AND GEOLOGIC CONDITIONS

Soil Survey

The Natural Resource Conservation Service (NRCS) (Reference 1, Figure 4), previously the Soil Conservation Service (Reference 2) has mapped one soil type on the site. Complete descriptions of the soil type is presented in Appendix D. In general, the soils consist of sandy loam. The soils are described as follows:

<u>Type</u>	<u>Description</u>
71	Pring Coarse Sandy Loam, 3 – 8% Slopes

Jim Martens
Wastewater Study
8190 Poco Road
Parcel No. 52280-00-001
Colorado Springs, Colorado

The soils have been described to have rapid permeabilities. The soils are described as well suited for use as homesites. Possible hazards with soils erosion are present on the site. The erosion potential can be controlled with vegetation. The soils have been described to have moderate erosion hazards (Reference 2).

Soils

The soils encountered in the test pit consisted of gravelly sandy loam (silty sand) overlying weathered to formational silty sandstone. Weathered bedrock was encountered at 3 feet in the test pit. The sample of sand tested had approximately 25 percent of the soil size particles passing the No. 200 sieve. The sample of sandstone tested had 29 percent of the soil size particles passing the No. 200 sieve. The upper sand soils are considered to have low expansion potential. An FHA Swell pressure of 280 psf was measured on the silty sandstone, indicating low expansion potential. Atterberg Limits Testing on the sandstone resulted in the sandstone being non-plastic.

Groundwater

Groundwater or signs of seasonally occurring water were not encountered in the test pit, which was excavated to 6 feet. It is anticipated groundwater will not affect shallow foundations on the majority of the site. An area of potentially seasonal shallow groundwater has been mapped in a drainage on the site that is discussed in the following sections. Fluctuations in groundwater conditions may occur due to variations in rainfall or other factors not readily apparent at this time. Isolated sand layers within the soil profile can carry water in the subsurface. Contractors should be cognizant of the potential for the occurrence of subsurface water features during construction.

Geology

Approximately 12 miles west of the site is a major structural feature known as the Rampart Range Fault. This fault marks the boundary between the Great Plains Physiographic Province and the Southern Rocky Mountain Province. The site exists within a large structural feature known as the Denver Basin. Bedrock in the area is typically gently dipping in a northerly direction (Reference 3). The bedrock underlying the site consists of the Dawson Formation of Cretaceous Age. The Dawson Formation typically consists of coarse-grained arkosic sandstone with interbedded layers siltstone or claystone.

The geology of the site was evaluated using the *Geologic Map of the Falcon NW Quadrangle*, by Madole in 2003, (Reference 4, Figure 5). The Geology for the site is presented in Figure 6. One mappable unit was identified on this site which is described as follows:

Qc/Tkd **Colluvium of Quaternary Age overlying Dawson Formation of Tertiary to Cretaceous Age:** The materials consist of colluvial or residual soils overlying the bedrock materials on-site. The colluvial soils were deposited by the action of sheetwash and gravity. The residual soils were derived from the in-situ weathering of the bedrock on site. These materials typically consist of silty to clayey sand with potential areas of sandy clays. The bedrock consists of the Dawson Formation. The Dawson Formation typically consists of coarse-grained, arkosic sandstone with interbedded lenses of fine-grained sandstone, siltstone and claystone.

Jim Martens
Wastewater Study
8190 Poco Road
Parcel No. 52280-00-001
Colorado Springs, Colorado

The soils listed above were mapped from site-specific mapping, the *Geologic Map of the Falcon NW Quadrangle* distributed by the Colorado Geologic Survey in 2003 (Reference 4, Figure 5), The *Geologic Map of the Colorado Springs-Castle Rock Area*, distributed by the US Geological Survey in 1979 (Reference 5), and the *Geologic Map of the Pueblo 1° x 2° Quadrangle*, distributed by the US Geological Survey in 1978 (Reference 6). The Test Pit was also used in evaluating the site and is included in Appendix B. The Geology Map prepared for the site is presented in Figure 6.

ON-SITE WASTEWATER TREATMENT

The Natural Resource Conservation Service (Reference 1), previously the Soil Conservation Service (Reference 2) has been mapped with one soil description. The Soil Survey Map (Reference 1) is presented in Figure 4, and the Soil Survey Descriptions (Reference 2) are presented in Appendix C. The soils are described as having rapid percolation rates.

Soils encountered in the tactile test pits consisted of gravelly sandy loam overlying weathered to formational silty sandstone. The limiting layers encountered in the test pit is the silty sandstone, which corresponds with USDA Soil Type 3A with an LTAR value of 0.30 gallons per day per square foot. Weathered bedrock was encountered at approximately 3 feet in the test pit. Signs of seasonally occurring groundwater were not observed in the test pit. Absorption fields must be maintained a minimum of 4 feet above groundwater or bedrock, or confining layer. Should groundwater or bedrock be encountered within 6 feet of the surface, designed systems will be required.

In summary, it is our opinion the site is suitable for individual on-site wastewater treatment systems (OWTS) and that contamination of surface and subsurface water resources should not occur provided the OWTS sites are evaluated and installed according to El Paso County and State Guidelines and properly maintained. Based on the testing performed designed systems will be required for the new lot. The Septic Suitability Map is presented in Figure 6. Individual soil testing is required for proposed construction on each lot prior to construction. Absorption fields must be located a minimum of 100 feet from any well, including those on adjacent properties. Absorption fields must also be located a minimum of 50 feet from any drainages, floodplains or ponded areas and 25 feet from dry gulches.

CLOSURE

This report has been prepared for Jim Martens, for application to the proposed project in accordance with generally accepted geologic soil and engineering practices. No other warranty expressed or implied is made.

Jim Martens
Wastewater Study
8190 Poco Road
Parcel No. 52280-00-001
Colorado Springs, Colorado

We trust that this report has provided you with all the information that you required. Should you require additional information, please do not hesitate to contact Entech Engineering, Inc.

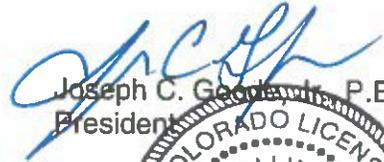
Respectfully Submitted,

ENTECH ENGINEERING, INC.

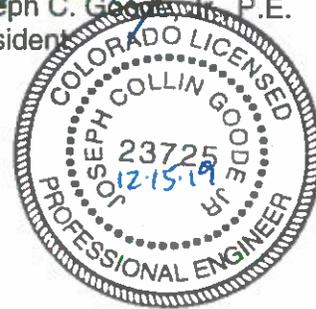
Reviewed by:



Logan L. Langford, P.G.
Geologist



Joseph C. Goode, Jr., P.E.
President



LLL/III

Encl.

Entech Job No. 190411
AAprojects/2019/190411 wws

Jim Martens
Wastewater Study
8190 Poco Road
Parcel No. 52280-00-001
Colorado Springs, Colorado

BIBLIOGRAPHY

1. Natural Resource Conservation *Service*, September 23, 2016. *Web Soil Survey*. United States Department Agriculture, <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.
2. United States Department of Agriculture Soil Conservation Service. June 1981. *Soil Survey of El Paso County Area, Colorado*.
3. Scott, Gleen R.; Taylor Richard B.; Epis, Rudy C; and Wabus, Reinhard A. 1978. *Geologic Structure Map of the Pueblo 1° x 2° Quadrangle, South-Central Colorado*. Sheet 2. U.S. Geologic Survey. Map I-1022, Sheet 2.
4. Madole, Richard F., 2003. *Geologic Map of the Falcon NW Quadrangle, El Paso County, Colorado*. Colorado Geological Survey. Open-File Report 03-8.
5. Trimble, Donald E. and Machette, Michael N. 1979. *Geologic Map of the Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado*. USGS, Map I-857-F.
6. Scott, Gleen R.; Taylor Richard B.; Epis, Rudy C; and Wabus, Reinhard A. 1978. *Geologic Structure Map of the Pueblo 1° x 2° Quadrangle, South-Central Colorado*. Sheet 2. U.S. Geologic Survey. Map I-1022.
7. Federal Emergency Management Agency. December 7, 2018. *Flood Insurance Rate Maps for the City of Colorado Springs, Colorado*. Map Number 08041CO535G

TABLES

TABLE 1
SUMMARY OF LABORATORY TEST RESULTS

CLIENT JIM MARTENS
 PROJECT 8190 POCO ROAD
 JOB NO. 190411

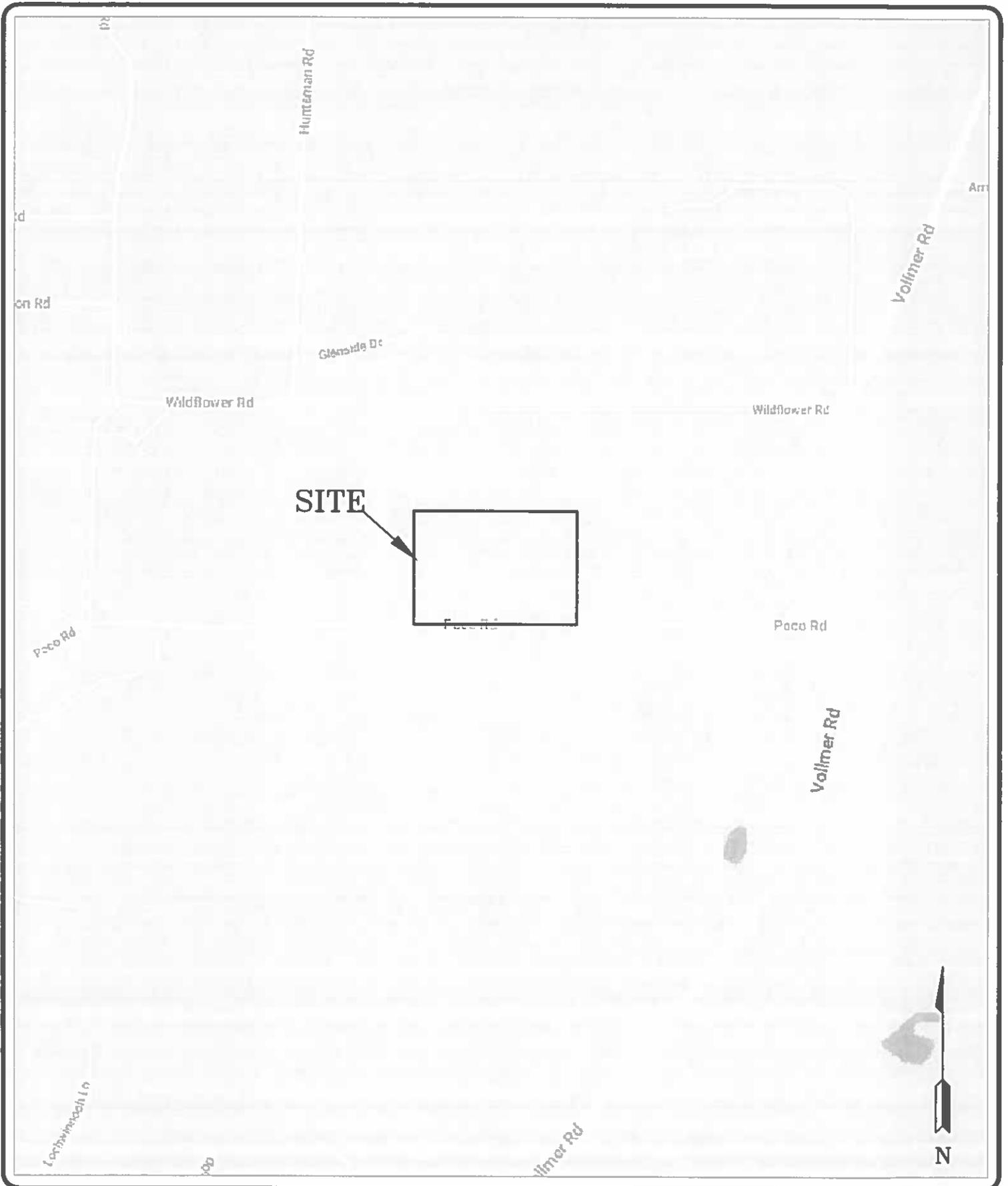
SOIL TYPE	TEST BORING NO.	DEPTH (FT)	WATER (%)	DRY DENSITY (PCF)	PASSING NO. 200 SIEVE (%)	LIQUID LIMIT (%)	PLASTIC INDEX (%)	SULFATE (WT %)	FHA SWELL (PSF)	SWELL/CONSOL (%)	UNIFIED CLASSIFICATION	SOIL DESCRIPTION
1	TP-1	0-2			25.4						SM	SAND, SILTY
2	TP-1	5-6			29.3	NV	NP		280		SM	WX SANDSTONE, SILTY

Table 2: Summary Tactile Test Pit Results

Test Pit No.	USDA Soil Type	LTAR Value	Depth to Bedrock (ft.)	Depth to Seasonally Occurring Groundwater (ft.)
1	3A*	0.30*	3*	N/A

*- Conditions that will require an engineered OWTS

FIGURES



ENTECH
ENGINEERING, INC.
 2825 ELKTON DRIVE
 COLORADO SPRINGS, CO. 80907 (719) 531-5099

VICINITY MAP
 8190 POCO ROAD
 COLORADO SPRINGS, CO.
 FOR: JIM MARTENS

DRAWN:
 LLL

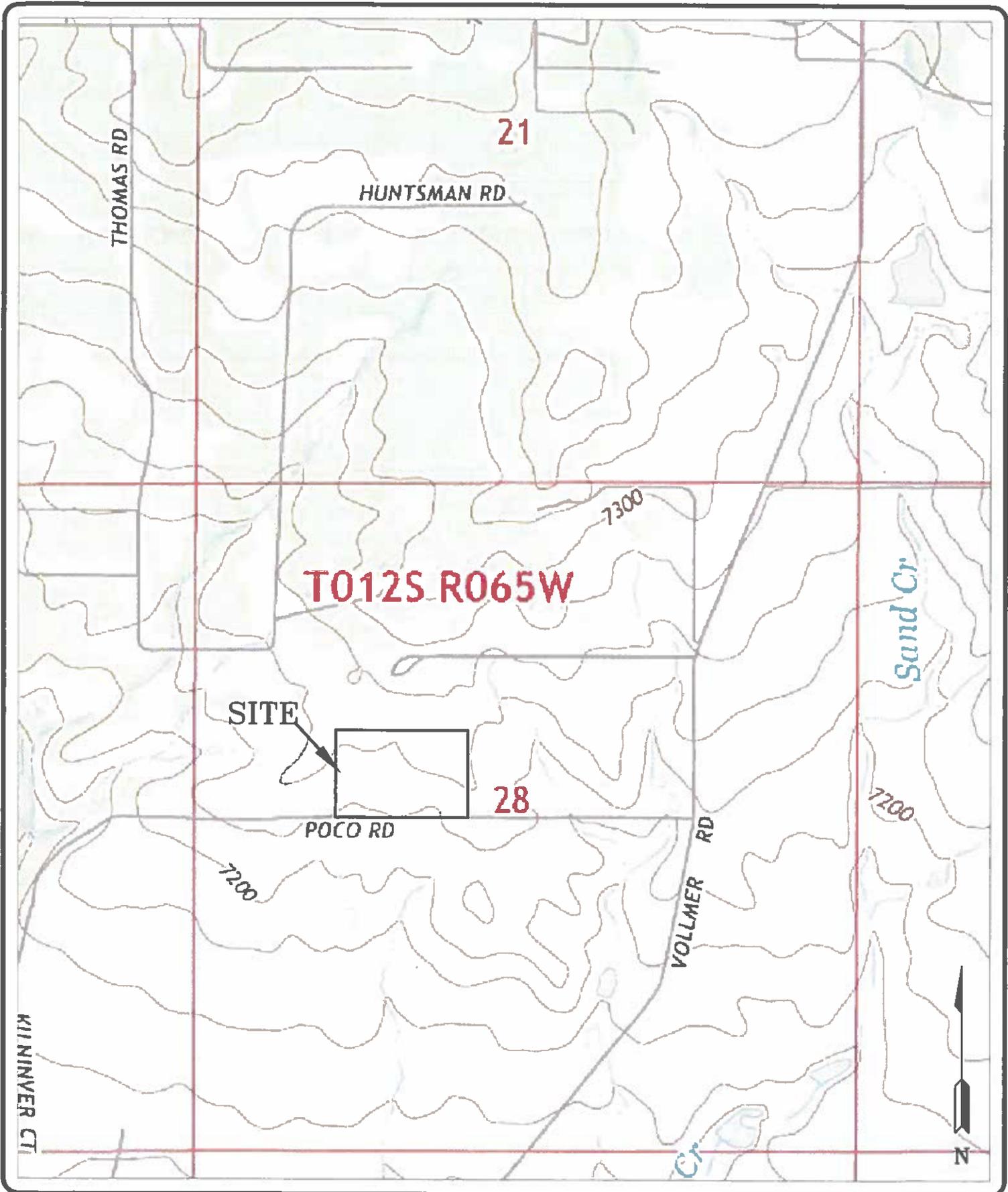
DATE:
 5/24/19

CHECKED:

DATE:

JOB NO.:
 190411

FIG NO.:
 1



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 505 ELKTON DRIVE
 COLORADO SPRINGS, CO. 80907 (719) 531-3599

USGS MAP
 8190 POCO ROAD
 COLORADO SPRINGS, CO.
 FOR: JIM MARTENS

JOB NO.:
 190411

FIG NO.:
 2

DRAWN:
 LLL

DATE:
 5/24/19

CHECKED:

DATE:

Soil Map—El Paso County Area, Colorado



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 505 ELKTON DRIVE
 COLORADO SPRINGS, CO. 80917 (719) 531-3299

SOIL SURVEY MAP
 8190 POCO ROAD
 COLORADO SPRINGS, CO.
 FOR: JIM MARTENS

JOB NO.:
 190411

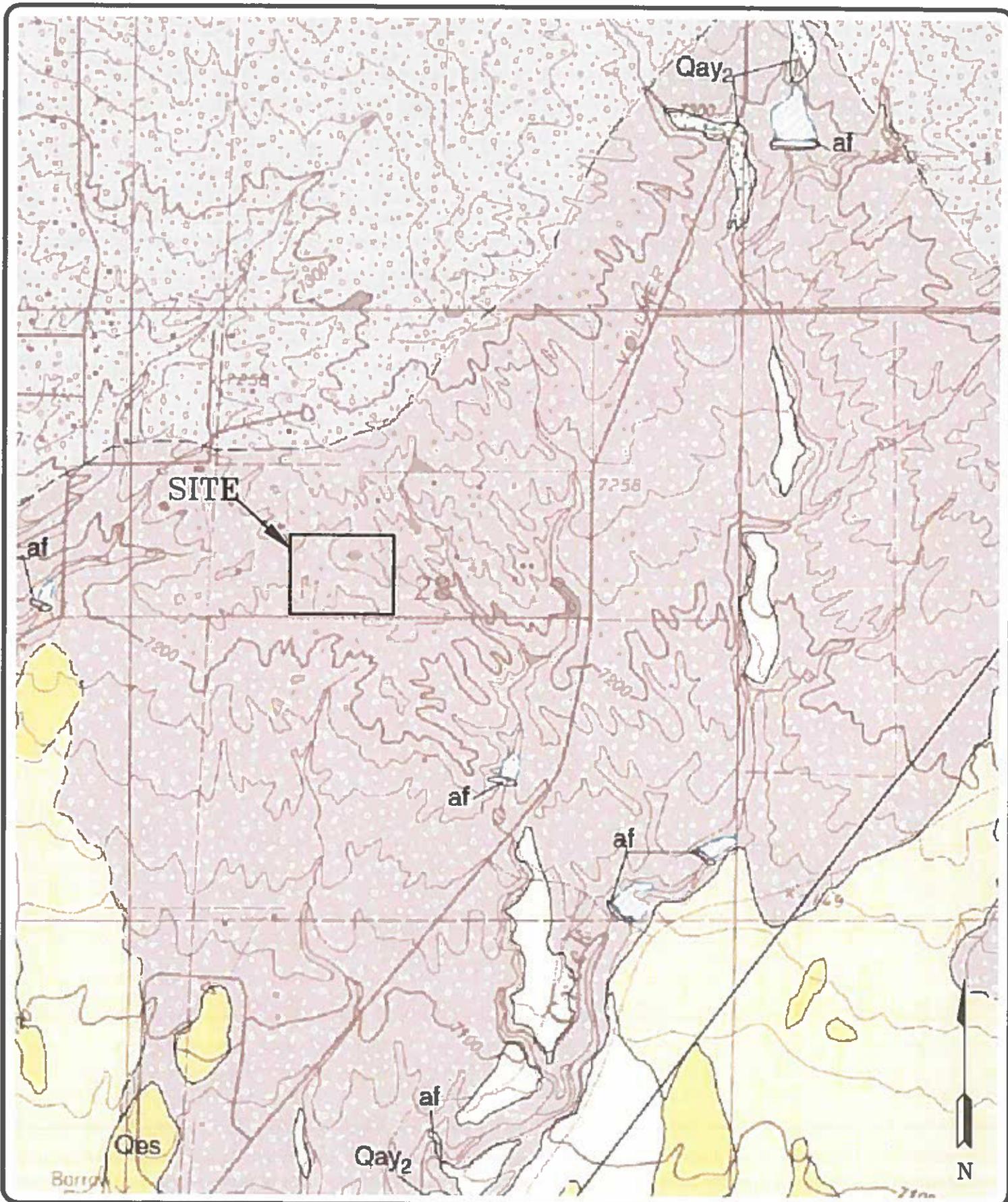
FIG NO.:
 4

DRAWN:
 LLL

DATE:
 5/24/19

CHECKED:

DATE:



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 305 ELKTON DRIVE
 COLORADO SPRINGS, CO. 80907 (719) 331-3599

FALCON NW QUADRANGLE GEOLOGIC MAP
 8190 POCO ROAD
 COLORADO SPRINGS, CO.
 FOR: JIM MARTENS

JOB NO.:
 190411

FIG NO.:
 5

DRAWN:
 LLL

DATE:
 5/24/19

CHECKED:

DATE:

APPENDIX A: Test Pit Logs

TEST PIT NO. 1
 DATE EXCAVATED 4/23/2019
 Job # 190411

CLIENT LOCATION
 JIM MARTENS
 8190 POCO ROAD

REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	USDA Soil Type	REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	USDA Soil Type
topsoil sandy loam, brown	1	*						1					
gravelly sandy loam, fine to coarse grained, light brown	2			gr	m	2		2					
weathered to formational silty sandstone, fine to coarse grained, tan	3			ma		3A		3					
	4							4					
	5							5					
	6							6					
	7							7					
	8							8					
	9							9					
	10							10					

Soil Structure Shape

- granular - gr
- platy - pl
- blocky - bl
- prismatic - pr
- single grain - sg
- massive - ma

Soil Structure Grade

- weak - w
- moderate - m
- strong - s
- loose - l



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505 ELKTON DRIVE
 COLORADO SPRINGS, COLORADO 80907

TEST PIT LOG

DRAWN:

DATE

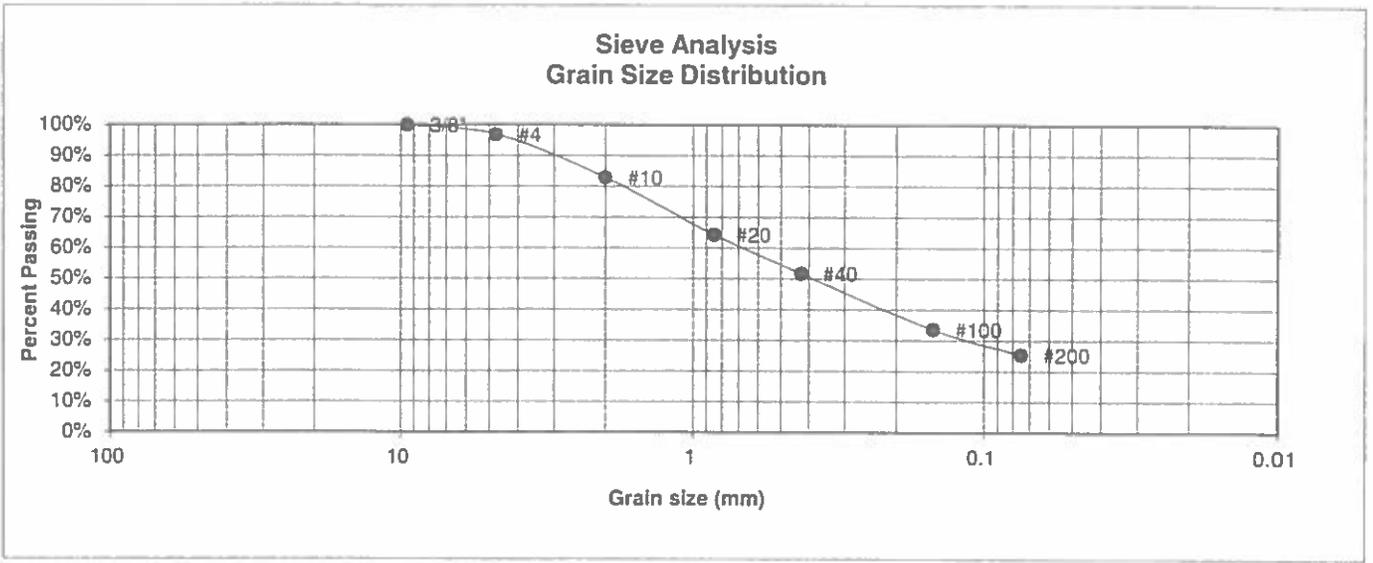
CHECKED:
LL

DATE
 5/11/19

JOB NO:
 190411
 FIG NO:
 A-1

APPENDIX B: Laboratory Test Results

BORING NO.	TP-1	UNIFIED CLASSIFICATION	SM	TEST BY	BL
DEPTH(ft)	0-2	AASHTO CLASSIFICATION		JOB NO.	190411
CLIENT	JIM MARTENS				
PROJECT	8190 POCO ROAD				



U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	96.9%
10	82.9%
20	64.3%
40	51.7%
100	33.6%
200	25.4%

Atterberg Limits
 Plastic Limit
 Liquid Limit
 Plastic Index

Swell
 Moisture at start
 Moisture at finish
 Moisture increase
 Initial dry density (pcf)
 Swell (psf)



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505 ELKTON DRIVE
COLORADO SPRINGS COLORADO 80907

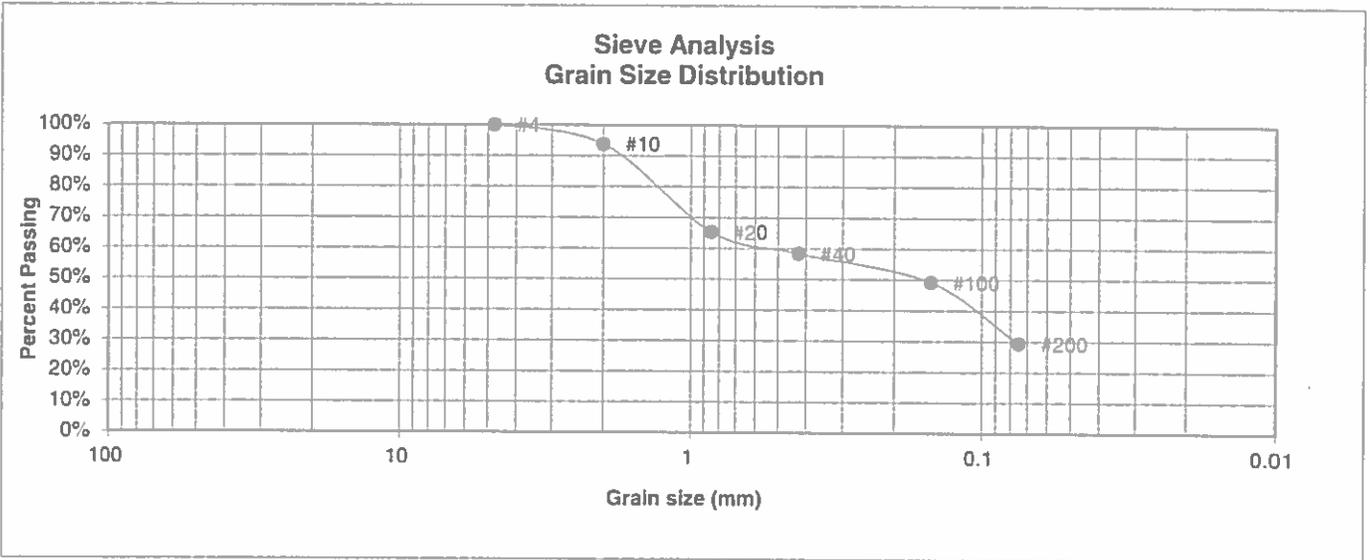
LABORATORY TEST RESULTS

DRAWN	DATE	CHECKED	DATE
		LLL	5/18/19

JOB NO.:
190411

FIG NO.:
B-1

BORING NO.	TP-1	UNIFIED CLASSIFICATION	SM	TEST BY	BL
DEPTH(ft)	5-6	AASHTO CLASSIFICATION		JOB NO.	190411
CLIENT	JIM MARTENS				
PROJECT	8190 POCO ROAD				



U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	
4	100.0%
10	93.8%
20	65.3%
40	58.4%
100	49.2%
200	29.3%

Atterberg Limits

Plastic Limit	NP
Liquid Limit	NV
Plastic Index	NP

Swell

Moisture at start	13.0%
Moisture at finish	24.2%
Moisture increase	11.2%
Initial dry density (pcf)	93
Swell (psf)	280



**ENTECH
ENGINEERING, INC.**

505 ELKTON DRIVE
COLORADO SPRINGS, COLORADO 80907

**LABORATORY TEST
RESULTS**

DRAWN:	DATE:	CHECKED:	DATE:
		LLL	5/16/19

JOB NO:
190411

FIG NO:
B-2

APPENDIX C: Soil Survey Descriptions

71—Pring coarse sandy loam, 3 to 8 percent slopes. This deep, noncalcareous, well drained soil formed in sandy sediment derived from arkosic sedimentary rock on valley side slopes and on uplands. Elevation ranges from 6,800 to 7,600 feet. The average annual precipitation is about 17 inches, the average annual air temperature is about 43 degrees F, and the average frost-free period is about 120 days.

Typically, the surface layer is dark grayish brown coarse sandy loam about 4 inches thick. The substratum is dark grayish brown coarse sandy loam about 10 inches thick over pale brown gravelly sandy loam that extends to a depth of 60 inches or more.

Included with this soil in mapping are small areas of Alamosa loam, 1 to 3 percent slopes, along drainageways; Cruckton sandy loam, 1 to 9 percent slopes; Peyton sandy loam, 1 to 5 percent slopes; Peyton sandy loam, 5 to 9 percent slopes; and Tomah-Crowfoot loamy sands, 3 to 8 percent slopes. In some places arkose beds of sandstone and shale are at a depth of 0 to 40 inches.

Permeability of this Pring soil is rapid. Effective rooting depth is 60 inches or more. Available water capacity is moderate. Surface runoff is medium, and the hazard of erosion is moderate.

Almost all areas of this soil are used as rangeland. Some areas previously cultivated have been reseeded to grass. This soil is also used for wildlife habitat and homesites.

This soil is well suited to the production of native vegetation suitable for grazing by cattle and sheep. Rangeland vegetation is mainly mountain muhly, little bluestem, needleandthread, Parry oatgrass, and junegrass.

Deferment of grazing in spring helps to maintain vigor and production of the cool-season bunchgrasses. Fencing and properly locating livestock watering facilities help to control grazing.

Windbreaks and environmental plantings generally are suited to this soil. The hazard of soil blowing is the main limitation to the establishment of trees and shrubs. This limitation can be overcome by cultivating only in the tree rows and leaving a strip of vegetation between the rows. Supplemental irrigation may be needed when planting and during dry periods. Trees that are best suited and have good survival are Rocky Mountain juniper, eastern redcedar, ponderosa pine, Siberian elm, Russian-olive, and hackberry. Shrubs that are best suited are skunkbush sumac, lilac, and Siberian peashrub.

This soil is suited to habitat for openland and rangeland wildlife. Rangeland wildlife, such as pronghorn antelope, can be encouraged by developing livestock watering facilities, properly managing livestock grazing, and reseeding range where needed.

This soil is well suited for use as homesites. Erosion control practices are needed to control soil blowing and water erosion on construction sites where the ground cover has been removed. Capability subclass IVe.



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SCS SOIL DESCRIPTION

Drawn	Date	Checked	Date
		LLL	5/24/91

Job No.

190911

Fig. No.

6-1

**APPENDIX D: El Paso County Health Department
Septic Records**

P

APPROVED: YES NO #5228000011

ENVIRONMENTALIST J. CHRISTENSEN

Address 8190 POCO ROAD

Owner JIM AND KAREN MARTENS

Legal Description W 2/3, S2, SE4, NW4 SEC: 28-12-65

Residence # of bedrooms 4; Commercial ; System Installer KUNAU

SEPTIC TANK:

Commercial ; Noncommercial ; L ; W ; WD
Construction Material CONCRETE, capacity 1500 gallons.

DISPOSAL FIELD:

Rock Systems:

Trench: depth , width , total length , sq. feet

Bed: depth , length , width , sq. feet

Rock type , depth , under PVC , over PVC

Seepage Pits: # of pits , total # of rings , working depth(s)
size of pit(s) L X W , lining material , total sq. feet

Rockless Systems:

Chamber: Type INFILTRATOR, number of chambers 39, bed , trench
sq. ft./section 15.5, reduction allowed 40%, sq. ft. required 998
total sq. ft. installed 1008, depth of installation 12"-17"

Engineer Design Y or (N), Designing Engineer _____

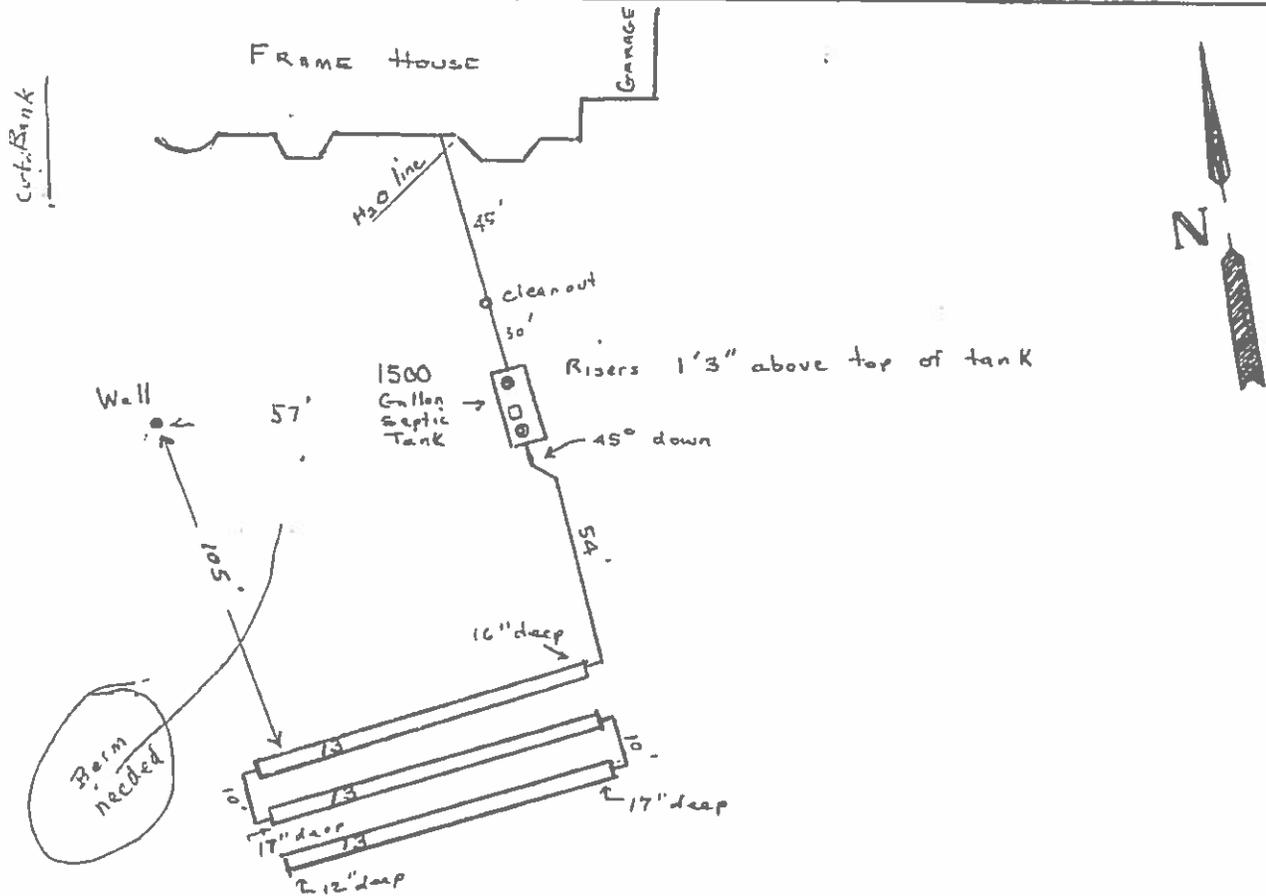
Approval letter provided? Y or (N)

Well 50 feet from tank Y or N 100 feet from leach field Y or N

Well installed at time of septic system inspection (Y) or N Public Water _____

*Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the disposal field.

NOTES: 6" schedule 40 pipe sleeved over 4" SD1335 sewer pipe from building sewer to septic tank inlet. 05/20/99 field is backfilled. Builders have left water running & runoff has eroded & exposed chamber in first trench. Need to divert H₂O around field.



Poco Rd ↓

Acres 1.5 **EL PASO COUNTY • DEPARTMENT OF HEALTH AND ENVIRONMENT**
 Water Supply WELL 301 South Union Blvd. • Colorado Springs, Colorado • 578-3125

PERMIT
TO CONSTRUCT, ALTER, REPAIR OR MODIFY ANY INDIVIDUAL SEWAGE DISPOSAL SYSTEM
 Issued to J.C. AND NAREN WATKINS Permit
 Date 11-30-99 Receipt No.

Address of Property 0190 ECCO ROAD, W3, S2, SEC. 13M, SEC. 20-12-65 Phone 599-8091
 (Permit valid at this address only)

Sewage-Disposal System work to be performed by KUNAU Phone 683-3720
 This Permit is issued in accordance with 25-10-106 Colorado Revised Statutes 1973, as amended. PERMIT EXPIRES upon completion of installation of sewage-disposal system or at the end of twelve (12) months from date of issue--whichever occurs first--(unless work is in progress). This permit is revokable if all stated requirements are not met.

- THIS PERMIT DOES NOT DENOTE APPROVAL OF ZONING AND ACREAGE REQUIREMENTS -

\$245.00
 PERMIT FEE (NOT REFUNDABLE)

11-30-99
 DATE OF EXPIRATION

NOTE: LEAVE ENTIRE SEWAGE-DISPOSAL SYSTEM UNCOVERED FOR FINAL INSPECTION. 48 HOUR ADVANCE NOTICE REQUIRED.

SEPTIC TANK: 1500	total square feet	998	BED SYSTEM: SEEPAGE PIT SYSTEM: total square feet	total square feet		rings or	diam.x	w/d
	ft. of trench			inches wide				
	ft. of trench		inches wide					

NOTES: INSTALL ABSORPTION SYSTEM IN THE AREA OF THE PERCOLATION TEST. ABSORPTION AREA SHALL BE NO DEEPER THAN 18 INCHES BELOW THE EXISTING GROUND SURFACE.

The Health Office shall assume no responsibility in case of failure or inadequacy of a sewage-disposal system, beyond consulting in good faith with the property owner or representative. Free access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with requirements of this law.

Steve J. Englander, M.D.
 DIRECTOR, DEPARTMENT OF HEALTH AND ENVIRONMENT

David Chantler
 ENVIRONMENTALIST

EL PASO COUNTY ENVIRONMENTAL HEALTH SERVICES
301 South Union Boulevard Colorado Springs, CO 80910-3123

APPLICATION FOR A NEW, REMODEL, REPAIR, OR ADDITION
TO AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM

mark Lindt
495-4705

Owner Jim & Karen Martens Phone 599-8091
Address of Property 8190 Dco Road 80908 Lot Size 12 AC Water Supply Well
Tax Sch # 52280-00-011 Septic Contractor & Phone # _____
Legal Description W 2/3 of S2, SE4, NW4, Sec 28-12-65
Type of Building frame Single Family Home Owner's Mailing Address 4910 Ramblewood 80920

MAXIMUM POTENTIAL BEDROOMS 4
Basement N Percolation Test Attached N Garbage Disposal N Clothes Washer N

I have supplied a plot plan as described on the back of this form. I acknowledge the completeness of the application is conditional upon such further mandatory and additional tests and reports as may be required by the Department to be made and furnished by a applicant for purposes of evaluating the application, and issuance of the permit is subject to such terms and conditions as deemed necessary to ensure compliance with rules and regulations adopted pursuant to C.R.S. 10-25-101 et. seq. I hereby certify all represented to be true and correct to the best of my knowledge and belief, and are designed to be relied on by the El Paso County Department of Health and Environment in evaluating the same for purposes of issuing the permit applied for herein. I further understand any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and in legal action for perjury as provided by law.

OWNER'S SIGNATURE Jim Martens Date 11/17/98

DEPARTMENT OF HEALTH USE ONLY		
Absorption Area	Tank Capacity	Date of Site Inspection
<u>998 ft²</u>	<u>1500 GALLONS</u>	<u>11/19/98</u>
REMARKS:		
<u>Install absorption system in the area of the percolation test. Absorption area shall be no deeper than 18 inches below the existing ground surface.</u>		
EHS INSPECTOR <u>Janet Christensen</u> Date <u>11/19/98</u> <input checked="" type="radio"/> APPROVED <input type="radio"/> DENIED		
PERMIT # <u>12908</u>	<input checked="" type="radio"/> FEE <input type="radio"/> NO FEE	DATE TO EPC PLANNING DEPT <u>11-19-98</u>

pd 12-1-98
check 1100

attached (K)

We require the ORIGINAL of your percolation (PERC) TEST.
 The following information must be on your PLOT PLAN.

Property lines
 Proposed septic system site
 Well(s)
 Building(s)
 Water line
 Subsoil drain(s)

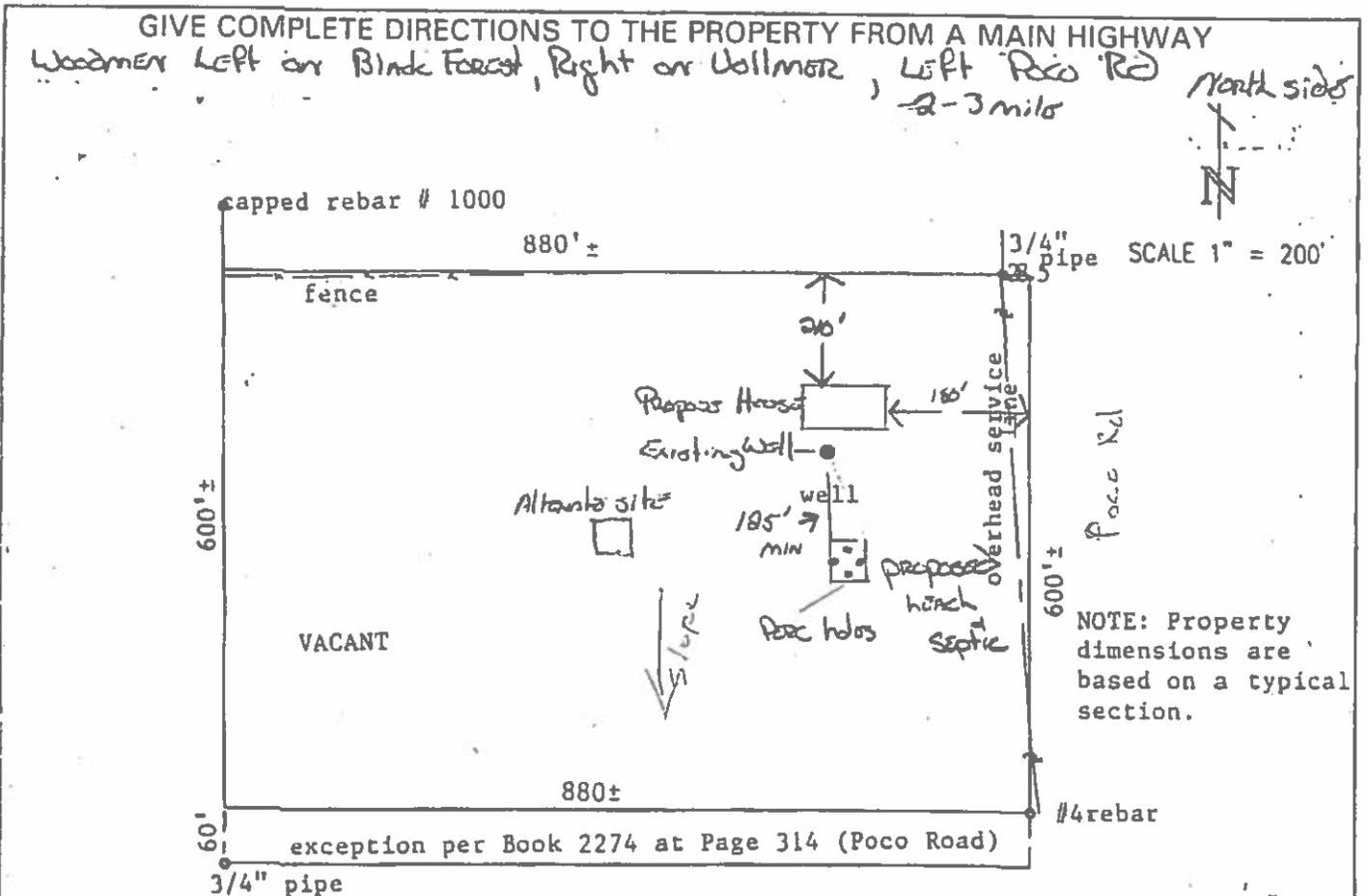
Property dimensions
 Designated alternate septic system site
 Adjacent property well(s)
 Proposed building(s)
 Cistern

If any of these are within 100 feet of your proposed septic system include on your plot plan

Spring(s)
 Pond(s)
 Dry Gulch(s)

Lake(s)
 Stream(s)
 Natural drainage course(s)

PROPERTY AND PERC HOLES MUST BE CLEARLY MARKED OR POSTED



LEGAL DESCRIPTION

The West two-thirds (2/3) of the South half of the Southeast Quarter of the Northwest Quarter of Section 28 in Township 12 South Range 65 West of the 6th P.M., except the South 60 feet thereof conveyed to El Paso County for road purposes by Deed recorded in Book 2274 at Page 314, El Paso County, Colorado.