



Prevent • Promote • Protect

Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044
 Colorado Springs, CO 80907
 (719) 578-3199 phone
 (719) 578-3188 fax
 www.elpasocountyhealth.org

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information:

Property Address: 13335 Trail Boss Ct City: Peyton Zip: 80831
 Legal Description: Lot 15 Corral Ranches Sub #8
 Tax Schedule #: 4328001008 Lot size: 7.91 Acre
 Is the property gated: Yes No Please provide a gate code if required: N/A
 Site Located Inside City Limits: Yes No Proposed Use: Residential Commercial
 Water Supply: Well Cistern Municipal Potential Number of Bedrooms: 3

Owner Information:

Primary Contact
 Owner: Brandon Jimenez Daytime Phone: 719-433-2536
 Owners Mailing Address: Same
 Email Address: Fax #:
 General Contractor: Phone/Email:

OWTS Installer Information:

Primary Contact
 System Installer: Murray Excavating Inc Daytime Phone: 719-683-2442
 Email Address: mike@murrayexcavating.com Licensed installer: Tier 1 Tier 2
 All engineer-design systems must be installed by a Tier 2 licensed installer

CURRENT FEES AS APPROVED BY THE EL PASO COUNTY BOARD OF HEALTH

All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)

- New Permit:** \$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = **\$920.00**
- Modification Permit:** \$675.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$698.00**
- Major Repair Permit:** \$535.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$558.00**
- Minor Repair Permit:** \$245.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$268.00**

Permits expire one year from date of issuance, unless otherwise noted

REQUIRED: Provide a complete written scope of work to be performed on the property.

Engineered Design: Conventional Design:

Install New ISDS For 2nd Home On Property Per Design Document Attached

The following documents **MUST** be included with your application.

- A soils report: including at least 2 soil profile excavation pits, in accordance with section 8.5 A-F of OWTS regulations
- A clear and legible design document: including the proposed and alternate locations, profile pit locations with respect to system layout, labeled with all setbacks to pertinent structures and features in table 7-1.
- Provide directions to property, from a main highway, on the backside of application.

Failure to provide the above listed documents may result in denial of the permit application
 Electronic submissions are preferred and can be submitted to healthinfo@elpasoco.com

I certify that the information provided on this application is in compliance with the Chapter 8 Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in order to obtain information necessary for the issuance of a permit.

Applicants Signature: Michael L Murray Date: 11-18-2020



Proposal for Septic System

Conventional X Engineered _____

6050 N. Ellicott Hwy, Calhan CO 80808
Office: 719-683-2442 -- Cell: 719-332-7323
Fax: 719-683-5921 mike@murrayexcavating.com

Date: 10/29/20

Owner: Stephanie, Bourne
Job Address: 13335 Trail Boss Ct
City: Peyton, CO 80831
Home: _____
Work: _____
Cell: 719-433-2536
Fax: _____
Email: jnsbourne@gmail.com

Agent/Rep: _____
Address: _____
City: _____
Home: _____
Work: _____
Cell: _____
Fax: _____
Email: _____

We propose to furnish materials and labor necessary for a septic system as outlined below:

<u>1000 Gallon</u>	<u>Tank Size (Gallons)</u>	<u>Infiltrator Plastic</u>	<u>Tank Type</u>
<u>900 Sq Ft</u>	<u>Leach Field Size (Sq. Ft.)</u>	<u>53 Q4+ Low Profile</u>	<u>Chambers (Leach Field)</u>
<u>50 Ft</u>	<u>4" Sewer Line</u>	<u>Included</u>	<u>Fittings</u>
<u>2-24"x24"</u>	<u>Tank Risers</u>	<u>2-24"</u>	<u>Riser Lids</u>
<u>N/A</u>	<u>Diverter Valve</u>	<u>Included</u>	<u>Permit</u>
<u>N/A</u>	<u>Tank Pump Out</u>	<u>N/A</u>	<u>Lift Station</u>

Includes Design & Permit

Includes Pit Run Sand & Topsoil For Cover Over Leach Field Due To Shallow Depth Requirement (18")

Sewer Line Stub Out Must Be Left Exposed

- Access: Access to the above listed property shall be freely available.
- Access: Murray Excavating, Inc. is not responsible for damage to driveways and sidewalks necessary for access.
- Easements: Owner is responsible for marking all easements and property lines.
- Existing Utilities: Owner is responsible for marking all utilities and sprinkler lines.
- Existing Utilities: Murray Excavating, Inc. is not responsible for damage to unmarked utilities, sprinkler lines, or unforeseen items.
- Backfilling: Backfilling will be to rough grade only. Landscaping and Seeding is not included in this bid.
- Backfilling: Settling of backfill may occur. Owner is responsible for regrading and maintaining proper drainage.
- Additional Charges: Removal of trees, fences, and other obstacles. Digging around underground utilities or obstacles.
- Additional Charges: Installing sewer lines and leach fields deeper than 4 feet. Digging through rock or other unusual conditions.
- Additional Charges: Repairing damaged unmarked utility lines and/or sprinkler lines.

All materials are guaranteed to be as specified above and all work will be performed in accordance with the drawings and specifications received at the time of this bid. Work will be completed in a professional workmanlike manner for the sum of:

Thirteen Thousand Nine Hundred Forty Five Dollars \$13,945.00

Terms of Payment: Cash Or Check On Completion Proposal Good For: 60 Days
Finance charges will apply if payment is not paid according to terms.

Respectfully Submitted: Michael L Murray
Murray Excavating, Inc.

I affirm the above specifications, conditions and price are acceptable. I authorize Murray Excavating, Inc. to perform the work as listed above. Payment will be made as outlined above. Number of bedrooms: Three Initials SPB

Date: X 11/11/20 Signature: X [Signature]



6825 Silver Ponds Heights #101
Colorado Springs, CO 80908
(719) 481-4560

To Whom It May Concern,

Attached are the results of the Profile Pit Evaluation performed for your site. **Completion of the report does NOT automatically place you in the queue to complete a design.** We require the following information is provided to us prior to placing a job in the queue.

1. Accurate number of bedrooms either proposed or existing in the house. Be sure to include all rooms with closets.
2. Designs for new construction also requires submittal of a site plan. This shall include at a minimum the following: all property lines dimensioned with lengths and angles, accurate dimensions from the house to property lines and corners, proposed construction of all buildings, location of Well with dimensions from structures and property lines, location of driveway, drawings **MUST** be to Scale, and slope or topography lines. **Additional fees will be assessed for incomplete and unclear site plans.** A surveyor's CADD file is preferred (.DWG or .DXF). It is your responsibility to provide correct information. Additional fees will be assessed if any information changes.
3. Site plans that are provided as DWG / DXF Files are exempt from redrawing fees. PDF Files of Surveyor's Site Plans for New Builds **WILL** incur a \$50 Redrawing Fee. Hand drawn Site Plans for New Builds **WILL** incur a \$200-\$400 Redrawing Fee and a site walk will be required. Septic Repair Designs do **NOT** incur Additional Fees.

Please read the evaluation to determine if the system for your site shall be designed by a licensed engineer or if a conventional design is allowed. If a conventional system is allowed, a design document is still required by the health department, this may be provided by an engineer, installer, or builder familiar with On-Site Wastewater Treatment System (OWTS) regulations. OWTS Designs and Record Drawings are done at an additional cost. Please contact the office for pricing. If installing in El Paso County, an Engineer's Record Drawing (additional fee) is required for final acceptance by the health department. If installing in a different county please verify with the installer who will be completing the Record Drawing. We are happy to complete this for an additional fee.

Per county and state regulations, the Soil Treatment Area (STA), commonly referred to as the leach field, shall be installed adjacent to the test pit locations. **Any alteration or deviation from the tested locations will require additional testing at an additional cost.**

The homeowner shall be made aware of the responsibilities of owning a septic system. Please contact your local health department for homeowner responsibilities and Do's and Don'ts.

Geoquest, LLC provides no warranty for the evaluation or design (should this be completed). This evaluation and design have been prepared in compliance with the state and the local governing public health department's regulations. However, the test procedures are limited in determining soil absorption across the proposed STA. Many factors contribute to soil absorption outside of our control as well as unknown water usage. It is important to follow proper OWTS installation practices to minimize risk.

Please feel free to contact us at (719) 481-4560, if you have any questions.



6825 Silver Ponds Heights #101
Colorado Springs, CO 80908
(719) 481-4560

PROFILE PIT EVALUATION

FOR

MURRAY EXCAVATING

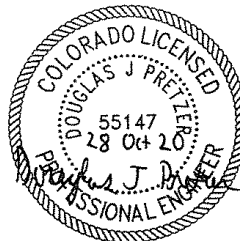
JOB #20-1111

Lot #15, Filing #8,
Corral Ranches Subdivision,
13335 Trail Boss Court,
El Paso County,
Colorado

Sincerely,

Douglas J. Pretzer

Douglas J. Pretzer, P.E.
Civil Engineer



PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at **Lot #15, Filing #8, Corral Ranches Subdivision, 13335 Trail Boss Court, El Paso County, Colorado**. The location of the test pits was determined by Murray Excavating. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed to the southwest at approximately 3% at least 20 feet. All applicable portions of the El Paso County Public Health Department Onsite Wastewater Treatment System Regulations (OWTS) must be complied with for the installation of the treatment system.

The inspection was performed on October 15, 2020, in accordance with Table 10-1 of the **E.P.C.P.H. OWTS Regulations**.

Soil Profile #1:

- 0 to 8"** - Topsoil - loam, organic composition.
- 8" to 60"** - USDA soil texture sandy loam, soil type 2A, structure shape massive, structure grade 0, non-cemented, LTAR 0.50, dark yellowish brown in color, 10 YR 3/4.
- 60" to 8'** - USDA soil texture loamy sand, soil type 1, structure shape single-grain, structure grade 0, non-cemented, LTAR 0.80, yellowish brown in color, 10 YR 5/4.

Soil Profile #2:

- 0 to 6"** - Topsoil - loam, organic composition.
- 6" to 66"** - USDA soil texture sandy loam, soil type 2A, structure shape massive, structure grade 0, non-cemented, LTAR 0.50, dark yellowish brown in color, 10 YR 3/4.
- 66" to 76"** - USDA soil texture clay, soil type 4A, structure shape massive, structure grade 0, non-cemented, LTAR 0.15, brown in color, 10 YR 5/3.
- 76" to 8'** - USDA soil texture loamy sand, soil type 1, structure shape single-grain, structure grade 0, non-cemented, LTAR 0.80, yellowish brown in color, 10 YR 5/4.

Groundwater was not encountered during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. **All setbacks shall conform to county regulations.**

Due to encountering USDA soil type 2A, the septic system to be installed on this site need not be designed by a Colorado Licensed Engineer. A conventional septic system is approved for this site. Based on the observed conditions, we feel a design based on an LTAR of 0.50 GPD/SF (USDA 2A, treatment soil, treatment level 1) is reasonable. Maximum depth of the installation shall not be deeper than 18 inches below the existing grade.

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of partly cloudy skies with cool temperatures.

PROFILE PIT LOG - Profile Pit #1

JOB#: 20-1111
 DATE EVALUATED: 15 October 2020
 EQUIPMENT USED: BACKHOE

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0"-8"				
TOPSOIL				
Loam Organic Composition				
8"-60"				
Sand				
Fine-coarse Grained USDA Soil Texture: Sandy Loam				
Moderate Density USDA Soil Type: 2A				
Low Moisture Content USDA Structure Shape: Massive				
Low Clay Content USDA Structure Grade: 0				
Low Cohesion Cementation Class: Non-cemented				
Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1):0.50				
Dark Yellowish Brown Color				
10YR 3/4				
60"-8'				
Sand				
Fine-coarse Grained USDA Soil Texture: Loamy Sand				
Low Density USDA Soil Type: 1				
Low Moisture Content USDA Structure Shape: Single Grain				
Low Clay Content USDA Structure Grade: 0				
Low Cohesion Cementation Class: Non-cemented				
Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1):0.80				
Yellowish Brown Color				
10YR 5/4				

LTAR to be Used for OWTS Sizing: 0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)
Depth to Groundwater (Permanent or Seasonal): Not Encountered
Depth to Bedrock and Type: Not Encountered
Depth to Proposed Infiltrative Surface from Ground Surface: Max. 18" Deep
Soil Treatment Area Slope and Direction: Southwest @ 3%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 20-1111
 Sheet: 1 of 2
 Date: 22 Oct 2020
 Scale: 1/4" = 1'
 Drawn by: rah
 Checked by: djp

Project Name and Address
Murray Excavating
 13335 Trail Boss Court
 Lot 15, Filing 8
 Corral Ranches Subdivision
 Sch. No. 4328001008
 El Paso County, Colorado

GEOQUEST, LLC.
 6825 SILVER PONDS HEIGHTS
 SUITE 101
 COLORADO SPRINGS, CO
 80908
 OFFICE: (719) 481-4560
 FAX: (719) 481-9204

PROFILE PIT LOG - Profile Pit #2

JOB#: 20-1111
 DATE EVALUATED: 15 October 2020
 EQUIPMENT USED: BACKHOE

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0"-6"	TOPSOIL			2A
	Loam Organic Composition			
6"- 66"	Sand			4A 1
	Fine-coarse Grained Moderate Density Low Moisture Content Low Clay Content Low Cohesion Low Plasticity Dark Yellowish Brown Color 10YR 3/4			
	USDA Soil Texture: Sandy Loam USDA Soil Type: 2A USDA Structure Shape: Massive USDA Structure Grade: 0 Cementation Class: Non-cemented Long Term Acceptance Rate (LTAR, Treatment Level 1):0.50			
66"- 76"	Clay			
	Fine-medium Grained High Density Low-moderate Moisture Content High Clay Content High Cohesion High Plasticity Brown Color 10YR 5/3			
	USDA Soil Texture: Clay USDA Soil Type: 4A USDA Structure Shape: Massive USDA Structure Grade: 0 Cementation Class: Non-cemented Long Term Acceptance Rate (LTAR, Treatment Level 1):0.15			
76"- 8'	Sand			
	Fine-coarse Grained Low Density Low Moisture Content Low Clay Content Low Cohesion Low Plasticity Yellowish Brown Color 10YR 5/4			
	USDA Soil Texture: Loamy Sand USDA Soil Type: 1 USDA Structure Shape: Single Grain USDA Structure Grade: 0 Cementation Class: Non-cemented Long Term Acceptance Rate (LTAR, Treatment Level 1):0.80			

LTAR to be Used for OWTS Sizing: 0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)
Depth to Groundwater (Permanent or Seasonal): Not Encountered
Depth to Bedrock and Type: Not Encountered
Depth to Proposed Infiltrative Surface from Ground Surface: Max. 18" Deep
Soil Treatment Area Slope and Direction: Southwest @ 3%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

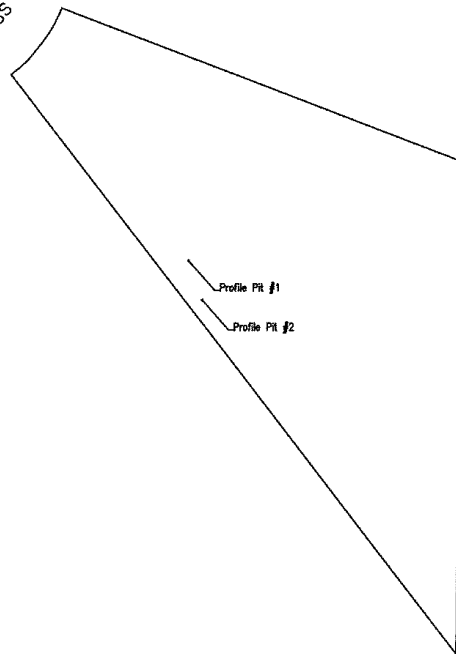
Project: 20-1111	Project Name and Address	GEOQUEST, LLC.
Sheet: 2 of 2		
Date: 22 Oct 2020	Murray Excavating	6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908
Scale: 1/4" = 1'	13335 Trail Boss Court Lot 15, Filing 8 Corral Ranches Subdivision Sch. No. 4328001008 El Paso County, Colorado	OFFICE: (719) 481-4560 FAX: (719) 481-9204
Drawn by: rah		
Checked by: djp		

GEOQUEST LLC

SITE MAP

Lot 15, Filing 8
Corral Ranches Subdivision
13335 Trail Boss Court
El Paso County
Colorado
Job #20-1111

Trail Boss Court



0 50 100 150 200 250
GRAPHIC SCALE IN FEET
SCALE: 1" = 250'

Location from Northeast Lot Corner to Profile Pit #1: S. 70° W. - 488'
Location from Profile Pit #1 to Profile Pit #2: S. 20° E. - 71'
GPS Coordinates Profile Pit #1: N. 38° 53' 1.5" , W. 104° 34' 9.3"
GPS Coordinates Profile Pit #2: N. 38° 53' 0.8" , W. 104° 34' 9.0"