



Prevent • Promote • Protect

Environmental Health
 1675 W. Garden of the Gods Rd.,
 Suite 2044
 Colorado Springs, CO 80907
 (719) 578-3199 *phone*
 (719) 575-3188 *fax*
www.elpasocountyhealth.org

Onsite Wastewater Treatment System Installation Permit

PERMIT DETAILS			
Permit No.: 136815	Record ID: ON0051293	Issued: May 23, 2022	Expires: May 23, 2023

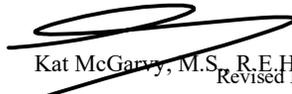
SYSTEM INFORMATION		
OWTS Location: 6555 Cowboy Ranch Vw, Peyton, CO 80831 – Main Residence		
Owner: Raylene Lerum	Schedule #: 430000068	Permit Type: New
Proposed Use: Residential	No. of Bedrooms: 4	Design Flow (gpd): 525
System Type: Pump to Gravity	Treatment Level: TL1	Water Source: Well

PERMIT REQUIREMENTS
<ul style="list-style-type: none"> - A Conventional non-engineered OWTS system to be installed on site, requiring a minimum of Tier I licensed installer to be named prior to final approval. - System installation includes pump to gravity fed system with 500 gal minimum tank lift station prior to septic tank and d-box to chambers in beds. Minimum tank requirements 1250 gallon and 1260 sq ft of soil treatment area (105 Q4 / 84 Arc 36 chambers required). - Zoller 267 pump or equivalent must be installed in the lift station prior to the OWTS tank. - The system must be installed per approved design document signed and dated 04.27.2022, changes to the approved design document must be submitted and approved by Public Health prior to installation. - All horizontal setbacks must be maintained through system installation. In addition, system must remain completely uncovered, including the tank size, for final inspection. - The well must be installed at time of final inspection, or final approval will not be given until well installation is verified. - Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred. - During excavation, if bedrock, groundwater, changes in soil type from that previously identified, or other notable soil changes are encountered, all excavation must cease and EPCPH is to be contacted for an evaluation to determine if additional tests are required - Issuance of this permit allows construction of the system as proposed. It does not imply or guarantee final system installation approval. System design or construction changes may be required based upon changed or newly discovered site conditions. <p>-Questions can be emailed to katiehutcheson@elpasoco.com.</p>

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 3:00 p.m. the business day prior to the requested inspection date or 1:00 p.m. the business day prior to a holiday.


 Kat McGarvey, M.S., R.E.H.S.
 Revised December 2021



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Conventional OWTS Application Review

System #: ON0051293

Permit Type: New

Property Address: 6555 Cowboy Ranch Vw, Peyton, CO 80831 – Main Residence

Approvals Rcvd:

DSD: 04.01.2022

Floodplain: FP on property: NA

Proposed system location outside FP: NA

Specialist: Kat McGarvy

Date of Review: Pending

New/Major Repair/Modification:

Site Evaluation date: 04.07.2022

Soil Report: Report date: 03.03.2022

Engineer: Geoquest LLC Job #: 22-0149

Soil Type: 3 LTAR: 0.35

Limiting Layer: Groundwater: None Bedrock: None Soil Type: None

Design Document: Design signed: 04.27.2022

Engineer drawn: NA Job #: NA

Bedrooms: 4 Design Flow: 525

Minimum Requirements:

Tank Capacity: Main: 1250

Pump Specs: Tank Capacity: NA Gal/dose: NA

STA:

Distribution: Pump to gravity Add. Components: NA

Media: Chambers Configuration: Bed Depth of Installation: <48"

STA Capacity:

Sq. Ft. (10-1): 1500 Sq. Ft. (10-2): 1800 Sq. Ft. (10-3): 1260 Sq. Ft. (with DV): NA

Q4 chambers: 105 Arc 36 chambers: 84

Comments: Main residence to be installed in area of Profile pits ½ (secondary residence in areas of pits 3/4)

EH Specialist: Katie Hutcheson

Approved Date: 04.27.2022



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ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT APPLICATION

Submit application to HEASepcticinfo@elpasoco.com

PROPERTY INFORMATION			
Applicant Name	Claude Brooks		
Property Address	6555 Cowboy Ranch View	City, State, Zip	Peyton CO 80931
Phone	719-332-2090	Email	BrooksConandEr@Outlook.com
Legal Description	Panel CW-1 Cowboy Way File 1438853		
Tax Schedule #	430000068	Lot Size	35 Acres
Is the property gated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Code:		Water Supply <input checked="" type="checkbox"/> Well <input type="checkbox"/> Cistern <input type="checkbox"/> Municipal
Proposed Use:	<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Multifamily <input type="checkbox"/> Commercial		Potential Number of Bedrooms: 4

OWNER INFORMATION			
Name	Raylene Lerum	Phone	
Mailing Address	6555 Cowboy Ranch View	City, State, Zip	Peyton CO 80931
Email	Steelshot44@yahoo.com		
General Contractor	Claude Brooks	Phone/Email	719-332-2090
System Installer	Claude Brooks	Phone/Email	BrooksConandEr@Outlook.com
All engineered-design systems <i>must</i> be installed by a Tier II licensed installer.			

PERMIT FEES AS ESTABLISHED BY EL PASO COUNTY BOARD OF HEALTH	
<input checked="" type="checkbox"/> New Permit	\$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$920.00
Permit fee includes: Application design review, site evaluation, and 1 final inspection. Additional inspections incur additional fees	
<input type="checkbox"/> Modification Permit	\$675.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$698.00
Permit fee includes: Application design review, site evaluation, and 1 final inspection. Additional inspections incur additional fees	
<input type="checkbox"/> Major Repair Permit	\$535.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$558.00
Permit fee includes: Application design review, site evaluation, and 1 final inspection. Additional inspections incur additional fees	
<input type="checkbox"/> Minor Repair Permit	\$245.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$268.00
Permit fee includes: Application review, 1 final inspection. Additional inspections incur additional fees	
All Payments are due at the time of application submittal; by check or major credit card (Visa / MC) Permits expire one year from the date of issuance, unless otherwise noted.	

REQUIRED: ADDITIONAL PROPERTY INFORMATION

System Type	<input type="checkbox"/> Engineered Design <input checked="" type="checkbox"/> Conventional Design	Number of Structure(s) to be connected:	
Written Scope of Work: <i>Install new conventional septic system with lift pump to 1500 gal tank and gravity feed to bed leech field</i> FOR Main House			

Please provide directions to the property from a main highway:
From Hwy 24 head East 6 miles TURN Left on Cowboy Ranch View Travel South 100 yds to Right into Property

- Property address or lot number must be clearly marked and visible from the road
 - Profile excavation test pit and/or soil profile holes must be clearly marked
 - Proposed and alternate soil treatment areas must be protected from compaction and disturbance
 - Locked gates require the gate code or lock combination be provided on front of application
- Failure to comply with the above information may result in an additional charge for a return trip.*

COMPLETE APPLICATION INCLUDES

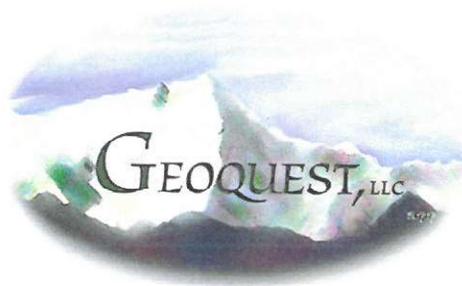
EPCPH will only accept submissions when all required components are included in submission.

<input checked="" type="checkbox"/> Colorado Professional Engineer (P.E.) stamped soils report: Soils report: including at least 2 soil profile excavation pits, in accordance with section 8.5 A-F of OWTS regulations
<input checked="" type="checkbox"/> Calculation/Design Worksheet
<input checked="" type="checkbox"/> Clear legible 8.5'x11' Design Document Design document must include proposed and alternate locations, profile pit locations with respect to system layout, all setbacks to pertinent structures and features in table 7-1.

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.

Applicant Signature: *Cleuda Beards* Date: *3-28-22*

Submit application to HEASepticinfo@elpasoco.com



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

PROFILE PIT EVALUATION

FOR

LAURIA CONSTRUCTION LLC

JOB #22-0149

6555 Cowboy Ranch View,
El Paso County,
Colorado

Sincerely,


Charles E. Milligan, P.E.



PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at **6555 Cowboy Ranch View, El Paso County, Colorado**. The location of the test pits was determined by Lauria Construction LLC. 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 system using Profile Pits #1 and #2 will feed to the west at approximately 4% and the system using Profile Pits #3 and #4 will feed to the west at approximately 3% in Profile Pits #3 & 4 for 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 February 17, 2022, in accordance with Table 10-1 of the **E.P.C.P.H. OWTS Regulations**.

Soil Profile #1:

- 0 to 6"** - Topsoil - loam, organic composition.
- 6" to 47"** - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, yellowish brown in color, 10 YR 5/4, soil type 2A with 5% rock.
- 47" to 8'** - USDA soil texture sandy clay loam, soil type 3, structure shape blocky, structure grade 2, non-cemented, LTAR 0.35, yellowish brown in color, 10 YR 5/4, soil type 3 with 7% rock.

Soil Profile #2:

- 0 to 6"** - Topsoil - loam, organic composition.
- 6" to 64"** - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, yellowish brown in color, 10 YR 5/4, soil type 2A with 11% rock.
- 64" to 8'** - USDA soil texture sandy loam, soil type 2, structure shape granular, structure grade 2, non-cemented, LTAR 0.60, very pale brown in color, 10 YR 7/4, soil type 2 with 4% rock.

Soil Profile #3:

- 0 to 8"** - Topsoil - loam, organic composition.
- 8" to 75"** - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, light yellowish brown in color, 10 YR 6/4, soil type 2A with 5% rock.
- 75" to 8'** - USDA soil texture sandy loam, soil type 2, structure shape granular, structure grade 2, non-cemented, LTAR 0.60, brownish yellow in color, 10 YR 6/6, soil type 3 with 10% rock.

Soil Profile #4:

- 0 to 6"** - Topsoil - loam, organic composition.
- 6" to 8'** - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, light yellowish brown in color, 10 YR 6/4, soil type 2A with 3% rock.

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 3, 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 0.35 GPD/SF (USDA soil type 3, treatment soil, treatment level 1) is reasonable. Maximum depth of the installation shall not be deeper than 4 feet 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 moderate temperatures.

PROFILE PIT LOG - Profile Pit #1

JOB#: 22-0149
 DATE EVALUATED: 17 Feb 2022
 EQUIPMENT USED: Mini-excavator

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0-6"	TOPSOIL			
	Loam Organic Composition			2A
6"-47"	Sand			
	Fine-coarse Grained Moderate Density Low-moderate Moisture Content Low-moderate Clay Content Low-moderate Cohesion Low-moderate Plasticity Yellowish Brown Color 10YR 5/4			3
	USDA Soil Texture: Sandy Loam USDA Soil Type: 2A USDA Structure Shape: Granular USDA Structure Grade: 1 Cementation Class: Non-cemented Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50 Soil Type 2A w/ 5% Rock			
47"-8'	Clayey Sand			
	Fine-coarse Grained Moderate Density Moderate Moisture Content Moderate Clay Content Low-moderate Cohesion Low-moderate Plasticity Yellowish Brown Color 10YR 5/4			
	USDA Soil Texture: Sandy Clay Loam USDA Soil Type: 3 USDA Structure Shape: Blocky USDA Structure Grade: 2 Cementation Class: Non-cemented Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.35 Soil Type 3 w/ 7% Rock			

LTAR to be Used for OWTS Sizing: 0.35GPD/SF (USDA Type 3, 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: Unknown (Maximum 4 ft Below Existing Ground Surface)
Soil Treatment Area Slope and Direction: West @4%

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: 21-0149
 Sheet: 1 of 4
 Date: 24 Feb 2022
 Scale: 1/4" = 1'
 Drawn by: mtj
 Checked by: cem

Project Name and Address

Lauria Construction LLC

6555 Cowboy Ranch View
 Sch. No. 4300000628
 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#: 22-0149
 DATE EVALUATED: 17 Feb 2022
 EQUIPMENT USED: Mini-excavator

0-6" **TOPSOIL**

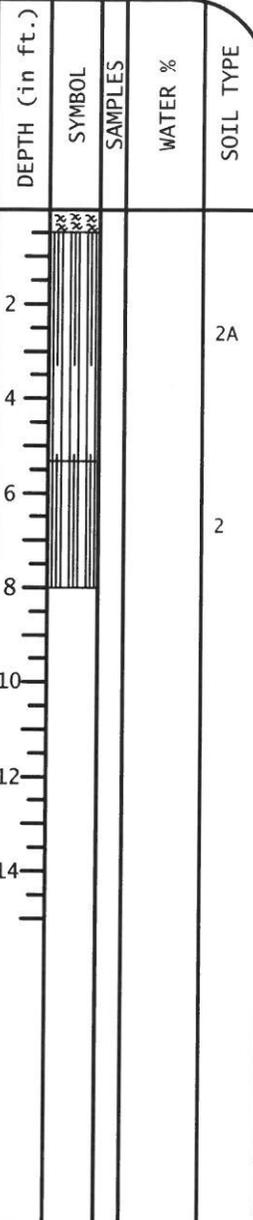
Loam
 Organic Composition

6"-64" **Sand**

Fine-coarse Grained	USDA Soil Texture: Sandy Loam
Moderate Density	USDA Soil Type: 2A
Low-moderate Moisture Content	USDA Structure Shape: Granular
Low-moderate Clay Content	USDA Structure Grade: 1
Low-moderate Cohesion	Cementation Class: Non-cemented
Low-moderate Plasticity	Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50
Yellowish Brown Color	Soil Type 2A w/ 11% Rock
10YR 5/4	

64"-8' **Sand**

Fine-coarse Grained	USDA Soil Texture: Sandy Loam
Moderate Density	USDA Soil Type: 2
Low-moderate Moisture Content	USDA Structure Shape: Granular
Low-moderate Clay Content	USDA Structure Grade: 2
Low Cohesion	Cementation Class: Non-cemented
Low Plasticity	Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.60
Very Pale Brown Color	Soil Type 2 w/ 4% Rock
10YR 7/4	



LTAR to be Used for OWTS Sizing: 0.35GPD/SF (USDA Type 3, 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: Unknown (Maximum 4 ft Below Existing Ground Surface)
Soil Treatment Area Slope and Direction: West @4%

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: 21-0149
 Sheet: 2 of 4
 Date: 24 Feb 2022
 Scale: 1/4" = 1'
 Drawn by: mtj
 Checked by: cem

Project Name and Address
Lauria Construction LLC
 6555 Cowboy Ranch View
 Sch. No. 4300000628
 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 #3

JOB#: 22-0149
 DATE EVALUATED: 17 Feb 2022
 EQUIPMENT USED: Mini-excavator

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0-8"				
TOPSOIL Loam Organic Composition				
8"-75"				2A
Sand Fine-coarse Grained USDA Soil Texture: Sandy Loam Moderate Density USDA Soil Type: 2A Low Moisture Content USDA Structure Shape: Granular Low-moderate Clay Content USDA Structure Grade: 1 Low-moderate Cohesion Cementation Class: Non-cemented Low-moderate Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50 Light Yellowish Brown Color Soil Type 2A w/ 5% Rock 10YR 6/4				
75"-8'				2
Sand Fine-coarse Grained USDA Soil Texture: Sandy Loam Moderate Density USDA Soil Type: 2 Low-moderate Moisture Content USDA Structure Shape: Granular Low-moderate Clay Content USDA Structure Grade: 2 Low Cohesion Cementation Class: Non-cemented Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.60 Brownish Yellow Color Soil Type 3 w/ 10% Rock 10YR 6/6				

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: Unknown (Maximum 4 ft Below Existing Ground Surface)
Soil Treatment Area Slope and Direction: West @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: 21-0149	Project Name and Address Lauria Construction LLC 6555 Cowboy Ranch View Sch. No. 4300000628 El Paso County, Colorado
Sheet: 3 of 4	
Date: 24 Feb 2022	
Scale: 1/4" = 1'	
Drawn by: mtj	
Checked by: cem	

GEOQUEST, LLC. 6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908 OFFICE: (719) 481-4560 FAX: (719) 481-9204	
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PROFILE PIT LOG - Profile Pit #4

JOB#: 22-0149
 DATE EVALUATED: 17 Feb 2022
 EQUIPMENT USED: Mini-excavator

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0-6"				
2				
4				2A
6				
8				
10				
12				
14				

0-6" TOPSOIL

Loam
 Organic Composition

6"-8' Sand

Fine-coarse Grained	USDA Soil Texture: Sandy Loam
Moderate Density	USDA Soil Type: 2A
Low-moderate Moisture Content	USDA Structure Shape: Granular
Low-moderate Clay Content	USDA Structure Grade: 1
Low-moderate Cohesion	Cementation Class: Non-cemented
Low-moderate Plasticity	Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50
Light Yellowish Brown Color	Soil Type 2A w/ 3% Rock
10YR 6/4	

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: Unknown (Maximum 4 ft Below Existing Ground Surface)
Soil Treatment Area Slope and Direction: West @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)

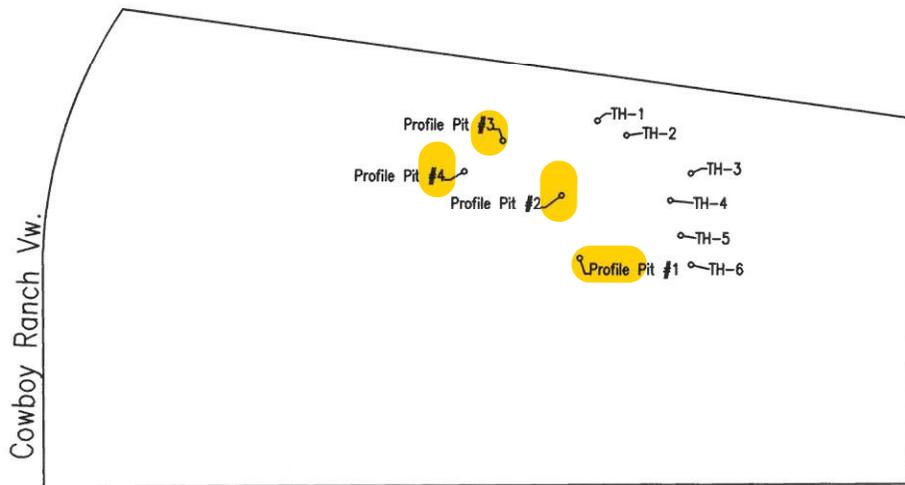
Project: 21-0149	<u>Project Name and Address</u>
Sheet: 4 of 4	
Date: 24 Feb 2022	Lauria Construction LLC 6555 Cowboy Ranch View Sch. No. 4300000628 El Paso County, Colorado
Scale: 1/4" = 1'	
Drawn by: mtj	
Checked by: cem	

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

GEOQUEST LLC

SITE MAP

6555 Cowboy Ranch Vw.
El Paso County
Colorado
Job #22-0149



Location from Southeast Lot Corner to Profile Pit #1:

N. 56° W. - 826'

Location from Profile Pit #1 to Profile Pit #2:

N. 16° W. - 133'

Location from Profile Pit #2 to Profile Pit #3:

N. 47° W. - 166'

Location from Profile Pit #1 to Profile Pit #2:

S. 51° W. - 100'

GPS Coordinates:

Pit 1; N. 38° 55' 36.00" W. 104° 29' 58.84"

Pit 2; N. 38° 55' 37.25" W. 104° 29' 59.32"

Pit 3; N. 38° 55' 38.36" W. 104° 30' 00.87"

Pit 4; N. 38° 55' 37.74" W. 104° 30' 01.86"



0 100 200 300 400

GRAPHIC SCALE IN FEET

SCALE: 1" = 400'



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Conventional (Non-Engineered) On-site Wastewater Treatment System (OWTS)
Design Worksheet - Short Form

Property Address: 6555 Cowboy Ranch View City and Zip: Peyton CO 80831
Number of bedrooms: 4 Wastewater Design Flow (Table 6-1) 525
Work will be done by: [] Owner [x] Licensed Installer Claude Brooks

Note: - Homeowner installation requires the individual installing the system be the listed as the individual on the permit.

Water source:
[x] Well [] Municipal [] Cistern

Note: - Wells must be located 50' from septic tank and 100' from STA.
- The well must be installed and verified before final signoff will occur.
- An additional trip fee will be charged if EPCPH must return to verify the well location.

Soil Report:
Note: Report MUST stamped by Professional Engineer

Soil Type: 3 LTAR: 0.35

Note: - Most limiting layer found within the 4' below the intended infiltrative surface of either profile pit must be used.

Was a limiting layer of Bedrock or Groundwater found within 8 feet? [] Yes [] No

Groundwater found at N/A inches. Bedrock found at N/A inches.

Septic Tank Requirements

Septic Tank Material: [x] Concrete [] Plastic

Tank Size (Table 9-1): 1500 gal Pump Tank size (if applicable): N/A

Note: - Inlet side must have a sanitary "T" that extends 5" above and 8" below inlet or a baffle.
- Tank must have risers to grade and outlet side must have an effluent filter.

Clean outs

Distance from structure to clean out: 5' (no further than 5' from structure)

Note: - There must also be a cleanout at least every 100' from structure to the septic tank

Proposed Soil Treatment Area (STA):

What is the installation depth range for the STA? 48" inches.

Depth of limiting layer: None inches.
Must maintain appropriate separation

- Application of wastewater: Gravity Pump-to-gravity
 Distribution Type: Distribution box Serial distribution Manifold
 Distribution Layout: Trench(s) Bed
 Distribution Media: Chambers Rock and Pipe
 Diverter Valve: Yes No
 Inspection Ports: Beg. & End of trenches 4 corners of each bed

Calculate the size of the STA:

Soil Treatment Area in square feet required = $\frac{\text{Design Flow (in gallons per day)}}{\text{LTAR (in gallons per day per square foot)}}$
 Soil Treatment area X (Reduction from table 10-2) X (Reduction from table 10-3) = Final STA size

Design Flow: 525 GPD LTAR: 0.35
 Reductions: Table 10-2: 1.2 Table 10-3: 0.7

Show calculations here:

Sample calculation: 3-bedroom home: 450gpd, LTAR 0.8, gravity fed (1.0) chambers in trenches (0.7) system: $450 / 0.8 = 562.5 \text{ Sq Ft} * 1.0 = 562.5 \text{ Sq ft} * 0.7 = 394 \text{ (393.75 rounds up to 394) Sq ft}$

$525 / 0.35 = 1500 \text{ Sq Ft} * 1.2 = 1800 \text{ Sq ft} * 0.7 = 1260 \text{ Sq ft}$

Pits 3 and 4
 4 Rows of 10 4 Rows of 11

For Chamber systems:

*Note: total area is calculated by number of chambers and sq ft per chamber allotted.
 Chambers: Quick4 (12 ft²) Arc36 (15 ft²) Total Chambers: 84 Total ft²: 1260

For Rock and Pipe Systems:

Depth of Rock (under pipe): _____ Depth of Rock (over pipe): _____
 Width of each trench/bed: _____ Total Pipe Length: _____
 Total ft²: _____ (Type of Cover on Rock: _____

6555 Cowboy Ranch View
Main House



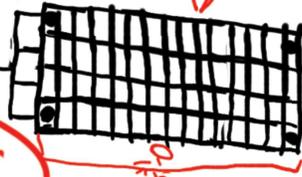
600'-0"

Profile
P2

Distribution Box
w/ speed levers



125'-0"



PROFIC
4 Rows of 11

New
500 gal
Concrete Tank



Lift Station
Zoeller M267
1/2 HP Cast Iron
Fun Z" SPECIAL
Solids with 2"
Discharge



- ① Inspection Pipes at Each Corner of All Beds
- ② Install Depth Max 48"
- ③ All Pipe And Fitting Solvent Welded Connections

PROFISION MAP

6555 Cowboy Ranch View Main House & Unit B Site Plan

Install ARC 36
Bed Format
4 Rows of 13

New 1000 gal Concrete Tank

Installer has inaccurately labeled the profile pits in this site plan.
Pit 3 in this diagram is Pit 2 (engineer report)
Pit 4 in this diagram is Pit 1 (engineer report)
Pit 2 in this diagram is Pit 4 (engineer report)
Pit 1 in this diagram is Pit 3 (engineer report)

600'-0"

Well

- ① Inspection Pipes at Each Corner of All Beds
- ② Install Depth Max 48"

