



PARR ENGINEERING & CONSULTING, INC.

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PROFILE PIT EVALUATION

Date: June 6, 2019 **Job:** JN: 19.197

Site Location: 13645 Gymkhana Road,
Peyton, CO 80831

Purpose of Investigation: To determine general subsurface soil conditions at the site location & to formulate design criteria for the proposed On-Site Wastewater Treatment system (OWTS)

Field Procedure: The materials in the various strata of the soil profile pit were visually classified in accordance with the U.S. Department of Agriculture (USDA) standards.



Profile Pit	Yes
Perc Test	-

Date: (Profile Eval) May 28, 2019
Excavator Peak Excavating
Evaluator R.J. & T.P.

Depth to Groundwater (permanent or seasonal) Pit #1: Not Reached
Depth to Groundwater (permanent or seasonal) Pit #2: Not Reached

Depth to Bedrock - Pit #1: Not Reached
Depth to Bedrock - Pit #2: Not Reached

Other Terrain Features or Soil Conditions: See Attached Site Map

Endorsement: Daniel J. Mizicko P.E.

Profile Pit 1	
Latitude:	38°53'2.87"N
Longitude:	104°34'23.76"W
Layer	Soil Type & LTAR
0 - 1'-0"	Topsoil
1'-0" - 8'-0"	Type 2 (LTAR=0.60)
-	-
-	-

Profile Pit 2	
Latitude:	38°53'3.55"N
Longitude:	104°34'23.59"W
Layer	Soil Type & LTAR
0 - 1'-0"	Topsoil
1'-0" - 4'-0"	Type 2 (LTAR=0.60)
4'-0" - 8'-0"	Type 1 (LTAR=0.80)
-	-

Location	
Latitude:	Longitude:
-	-
-	-
-	-

Perc #1	N/A	Min./In.
Perc #2	N/A	Min./In.
Perc #3	N/A	Min./In.
Average:	N/A	Min./In.

Recommendations: (1) A conventional, non-engineered On-Site Wastewater Treatment system (OWTS) is acceptable for this site.



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Google Site Map





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Profile Pit - Log

Job Number:	19.197
Date Evaluated:	05/28/19
Profile Pit#:	Pit #1

Excavator:	Peak Excavating	Total Depth:	8'-0"
Logged By:	R.J. & T.P.	STA Slope & Direction:	S 30° W @ 2%
Method:	Profile Pit	Latitude:	38°53'2.87"N
Auger & Size:	Mini Excavator	Longitude:	104°34'23.76"W

Depth (ft.)	Sample Interval	13645 Gymkhana Road, 80831						
		USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color

		Topsoil						
2		Sandy Loam	Granular	Strong	No	Type 2 (LTAR = 0.60) Treatment Level 1	<35%	7.5Y 3/2 (Moist)
4								
6								
8								
		Total Depth= 8'-0"						
10								

Evidence of Groundwater:	Not Reached
Depth to Bedrock:	Not Reached

Additional Notes:



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Profile Pit - Log

Job Number:	19.197
Date Evaluated:	05/28/19
Profile Pit#:	Pit #2

Excavator:	Peak Excavating	Total Depth:	8'-0"
Logged By:	R.J. & T.P.	STA Slope & Direction:	S 30° W @ 2%
Method:	Profile Pit	Latitude:	38°53'3.55"N
Auger & Size:	Mini Excavator	Longitude:	104°34'23.59"W

Depth (ft.)	Sample Interval	13645 Gymkhana Road, 80831					
		USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.

		Topsoil						
2		Sandy Loam	Granular	Strong	No	Type 2 (LTAR = 0.60) Treatment Level 1	<35%	7.5Y 3/2 (Moist)
4								
6		Sand	Single Grain	Structure-less	No	Type 1 (LTAR = 0.80) Treatment Level 1	<35%	7.5Y 3/2 (Moist)
8								
		Total Depth= 8'-0"						
10								

Evidence of Groundwater:	Not Reached
Depth to Bedrock:	Not Reached

Additional Notes:



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PROFILE PIT EVALUATION REPORT - General Notes, Regulations & Limitations

General Notes:

This report presents the data obtained pertaining to a Profile Pit Evaluation conducted at the locations indicated on the included Site Map. The purpose of this investigation was to evaluate subsurface soil-profile(s) in the area of the proposed Soil Treatment Area (STA) and to establish design criteria for an On-Site Wastewater Treatment system (OWTS).

Board of Health Regulations & Regulation No. 43 - Engineered Systems:

At proposed soil treatment area locations where any of the following conditions are present, the system shall be designed by a professional engineer and approved by the Health Department:

1. For soil types 3A, 4, 4A, 5, R-0, R-1 and R-2, and Treatment Levels TL2, TL2N, TL3, and TL3N as specified in Tables 10-1 and 10-1A of this regulation;
2. The maximum seasonal ground water surface is less than four feet below the bottom of the proposed absorption system.
3. A restrictive layer exists less than four feet below the bottom of the proposed absorption system
4. The ground slope is in excess of thirty percent
5. Pressure distribution is used.

Limitations:

The data presented in this report is specific to the locations of the Profile Pit locations evaluated. It must be understood and accepted that subsurface conditions can, and often do vary across any given area. These variations may not become evident until the time of system installation. If the subsurface conditions are discovered to vary anywhere across the system footprint, Parr Engineering AND the Design Engineer must be notified immediately for further evaluation. If another individual or party relies on this report, they shall indemnify and hold Parr Engineering & Consulting, Inc. harmless for any damages, losses, or expenses that may incur as a result of its use, except as allowed by law.