JDM CONSULTING, LLC

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Property Address:	17104 Goshawk Rd E,	Date:	October 7, 2020
	Colorado Springs, CO 80908	Job #:	20-181
Endorsement:	Jared R. Dumke, P.E.		

Purpose of Investigation: To determine the subsurface suitably for an Onsite Wastewater Treatment System (OWTS) as well as outline design criteria for a future Soil Treatment Area (STA) through both visual and tactile evaluations of the onsite subsurface soil. The onsite evaluation and associated soil testing were conducted in compliance with the El Paso County Board of Health OWTS Regulations

Profile Pit Summary	
Profile Pit #1	
Lat:	**39° 4'36.23"N**
Long:	**104°38'2.15"W**
0 - 0'-6"	**Topsoil**
0'-6" - 3'-0"	**Soil Type 4**
3'-0" - 5'-0"	**Soil Type 2**
5'-0" - 6'-0"	**Soil Type 4**
6'-0" - 8'-0"	**Soil Type 4**
Profile Pit #2	
Lat:	**39° 4'36.48"N**
Long:	**104°38'2.77"W**
0 - 0'-6"	**Topsoil**
0'-6" - 6'-6"	**Soil Type 4**
6'-6" - 8'-0"	**Soil Type 3**
-	-
-	-
Existing Well (If applicable)	
Lat:	**N/A**
Long:	**N/A**

Profile Pit #1		Profile Pit #2	
	Topsoil		Topsoil
1'-0"	Soil Type 4	1'-0"	Soil Type 4
2'-0"		2'-0"	
3'-0"		3'-0"	
	Soil Type 2		
4'-0"		4'-0"	
5'-0"		5'-0"	
	Soil Type 4		
6'-0"		6'-0"	
	Soil Type 4		
7'-0"		7'-0"	Soil Type 3
8'-0"		8'-0"	
9'-0"		9'-0"	

Recommendations:

An Engineered On-Site Wastewater Treatment System (OWTS) will be required for this site due to: (a) Soil Type 4 identified in the treatment zone of Profile Pit #1 & Profile Pit #2. (b) Redoximorphic features (Ground water and/or constantly saturated soils) identified in the treatment zone of Profile Pit #1. Soil Type 4 (LTAR = 0.20, Treatment Level 1) will be the most restrictive soil in the treatment zone of the soil treatment area.

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Site Map:

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Job Number:	20-181	Test Pit#	Pit #1
Date of Evaluation:	October 5, 2020	Total Depth:	8'-0"
Evaluator:	D.Mizicko	STA Slope and Direction:	S @ ±5%
Excavator:	Down to Earth Excavating	Latitude:	39° 4'36.23"N
Equipment:	Mini Excavator	Longitude:	104°38'2.15"W

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Depth Below Grade	Sample Depth	USDA Soil texture	USDA Soil Structure - Type	USDA Soil Structure Grade	Soil Type	Redoximorphic Features Present (Y/N)
0 - 0'-6"	**Topsoil**					
0'-6" - 3'-0"	**2'-0"**	**Sandy Clay**	**Blocky**	**Strong**	**Soil Type 4**	**No**
3'-0" - 5'-0"	**4'-0"**	**Sandy Loam**	**Granular**	**Strong**	**Soil Type 2**	**No**
5'-0" - 6'-0"	**7'-0"**	**Silty Clay**	**Blocky**	**Strong**	**Soil Type 4**	**No**
6'-0" - 8'-0"	**-**	**Silty Clay**	**Blocky**	**Strong**	**Soil Type 4**	**Yes**

Total Depth =	**8'-0"**			Comments:
Groundwater Encountered?	**Yes**	If yes, what depth?	**6'-0"**	**Redoximorphic features (Ground water and/or constantly saturated soils) identified in the profile pit at 6'-0" below grade.**
Bedrock Encountered?	**No**	If yes, what depth?	**-**	
Is Dawson Arkose (DA) or Cemented Sands (CS) Present?			**No**	
Is the material fractured and/or Jointed			**No**	
If Yes, what is the cementation class?				
Is the Dawson Arkose or Cemented Sand a limiting layer?			**-**	

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Job Number:	20-181	Test Pit#	Pit #2
Date of Evaluation:	October 5, 2020	Total Depth:	8'-0"
Evaluator:	D.Mizicko	STA Slope and Direction:	S @ ±5%
Excavator:	Down to Earth Excavating	Latitude:	39° 4'36.48"N
Equipment:	Mini Excavator	Longitude:	104°38'2.77"W

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Depth Below Grade	Sample Depth	USDA Soil texture	USDA Soil Structure - Type	USDA Soil Structure Grade	Soil Type	Redoximorphic Features Present (Y/N)
0 - 0'-6"	**Topsoil**					
0'-6" - 6'-6"	**-**	**Sandy Clay**	**Blocky**	**Strong**	**Soil Type 4**	**No**
6'-6" - 8'-0"	**7'-0"**	**Sandy Clay Loam**	**Granular**	**Moderate**	**Soil Type 3**	**No**
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Total Depth =	**8'-0"**		Comments:
Groundwater Encountered?	**No**	If yes, what depth?	-
Bedrock Encountered?	**No**	If yes, what depth?	-
Is Dawson Arkose (DA) or Cemented Sands (CS) Present?	**No**		
Is the material fractured and/or Jointed	**No**		
If Yes, what is the cementation class?			
Is the Dawson Arkose or Cemented Sand a limiting layer?	-		