



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

September 18, 2020

El Paso County Parks & Recreation 2002 Creek Crossing Street Colorado Springs, CO 80905

Attn: Greg Stachon

Re: OWTS Site Evaluation - Oak Meadows

Fox Run Regional Park

2110 Stella Drive

Colorado Springs, Colorado

Dear Mr. Stachon:

As requested, personnel of Entech Engineering, Inc. have observed the excavation of two test pits in the area of the proposed on-site wastewater treatment system (OWTS) absorption field location at the above referenced site. This letter presents the results of our testing.

The general location of the site is shown in the Vicinity Map, Figure 1. The locations of the test pits are shown in the Test Pit Location Map, Figure 2. The test pits were excavated on September 10, 2020, to approximate depths of 8 to 8.5 feet. Soils encountered in the test pits consisted of sandy clay overlying loamy sand. The Test Pit Logs and Laboratory Test Results are shown in Figures 2 through 5. Bedrock was not encountered in the test pits. Signs of seasonally occurring groundwater were not encountered in the test pits.

Visual and tactile evaluation of the soils was performed. The limiting layer encountered in the test pits is the sandy clay, which classified as USDA Soil Type 4. For design purposes a LTAR Value of 0.20 gallons per day per square foot is recommended, for Treatment Level 1. An engineer designed system will be required for this site due to Type 4 Soil encountered in both of test pits. The absorption field should be installed in accordance with El Paso County Health Department regulations.

We trust that this has provided you with the information you required. If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully Submitted,

Robert P. Jaquet,

ENTECH ENGINEERING, INC.

Reviewed by:

esident

JG/ri

Encl.

Entech Job No. 201776

AA projects/2020/201776 owts site eval





- TP-1 39°3'25.65"N, 104°47'22.05"W
- TP-2 39°3'25.12"N, 104°47'21.91"W



VICINITY MAP - FOX RUN REGIONAL PARK 2110 STELLA DRIVE COLORADO SPRINGS, COLORADO FOR: EL PASO COUNTY PARKS & RECREATION

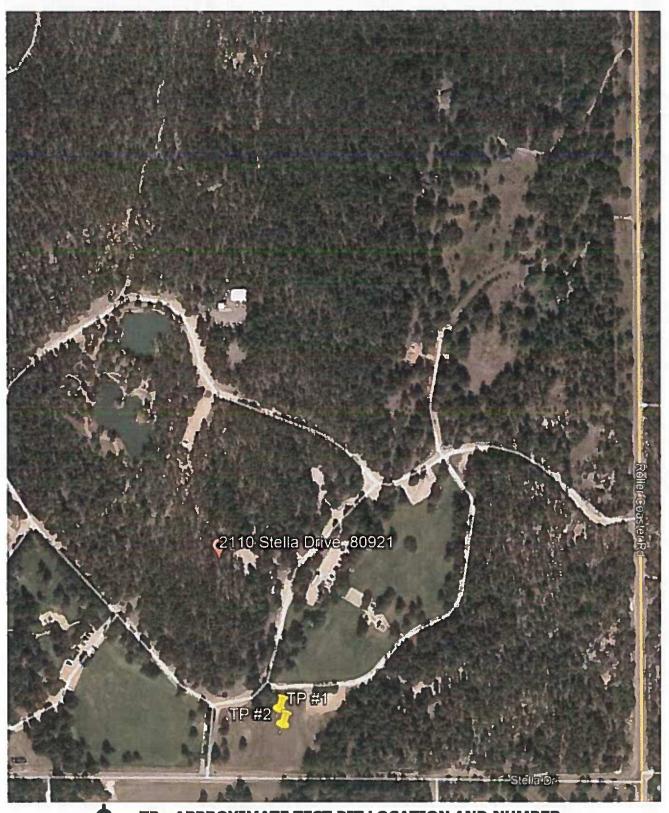
DRAWN: DATE: CHECKED: DATE: PPJ 09/18/20 JCG 09/18/20

JOB NO.: 201776

N

FIG NO.:

1





- TP-1 39°3'25.65"N, 104°47'22.05"W

- TP-2 39°3'25.12"N, 104°47'21.91"W



TEST PIT LOCATION MAP
2110 STELLA DRIVE
COLORADO SPRINGS, COLORADO
FOR: EL PASO COUNTY PARKS & RECREATION

DRAWN: DATE: CHECKED: DATE: RPJ 09/18/20 JCG 09/18/20

JOB NO.: 201776

N

FIG NO.:

2

TEST PIT NO. DATE EXCAVATED 9/10/2020 Job# 201776

TEST PIT NO. 2 DATE EXCAVATED 9/10/2020

CLIENT El Paso County Parks & Recreation

					LOCATION 2110 Stella Drive - Oak Meadows								
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 clay, fine grained, moist, dark brown	1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			gr	s	4	topsoil sandy clay, fine grained, moist, dark brown	1 _ 2 _ 3 _ 4 _			gr	S	4
loamy sand, coarse grained, moist, tan	5 6 7 8 9			sg	m	1	sandy loam, coarse grained, moist, tan	5 - 6 - 7 - 8 - 9 - 10			gr	m	2

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 - I



TEST PIT LOG								
DRAWN:	DATE	CHECKED:	9/15/20					

JOB NO.: 201776 FIG NO

BORING NO. TP-1

DEPTH(ft)

3

UNIFIED CLASSIFICATION **AASHTO CLASSIFICATION** SC

TEST BY

BL

JOB NO.

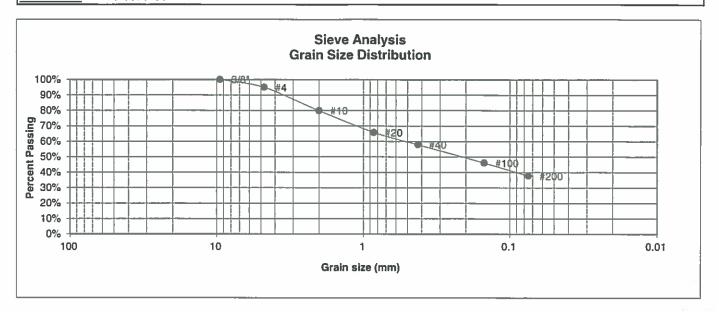
201776

CLIENT

EL PASO COUNTY PARKS

PROJECT

FOX RUN



U.S. <u>Sieve #</u> 3" 1 1/2" 3/4"	Percent <u>Finer</u>	Atterberg <u>Limits</u> Plastic Limit Liquid Limit Plastic Index
1/2"		· ·
3/8"	100.0%	
4	95.0%	<u>Swell</u>
10	79.9%	Moisture at start
20	65.8%	Moisture at finish
40	57.9%	Moisture increase
100 200	46.1% 37.7%	Initial dry density (pcf) Swell (psf)

DRAWN:



LABORATORY TEST RESULTS							
	DATE:	CHECKED:	DATE				

JOB NO.: 201776 FIG NO.

BORING NO. TP-1

6.5

UNIFIED CLASSIFICATION

SM-SW

TEST BY JOB NO.

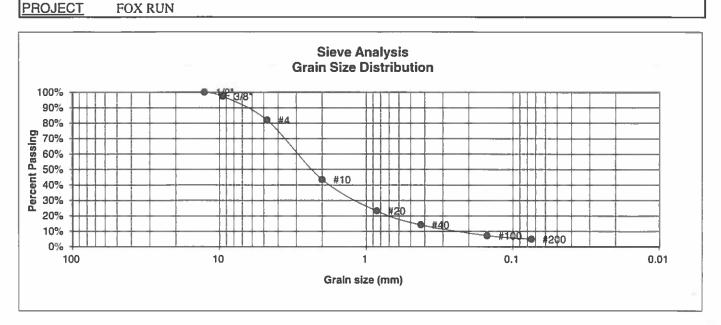
BL 201776

DEPTH(ft) **CLIENT**

EL PASO COUNTY PARKS

AASHTO CLASSIFICATION

FOX RUN



U.S.	Percent
Sieve #	<u>Finer</u>
3"	
1 1/2"	
3/4"	
1/2"	100.0%
3/8"	97.4%
4	81.9%
10	43.5%
20	23.2%
40	14.2%
100	7.3%
200	5.0%

Atterberg <u>Limits</u> Plastic Limit Liquid Limit Plastic Index

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



	LABORATO RESULTS	RY TEST	
	HEGGETO		
DRAWN:	DATE	CHECKED:	DATE:

JOB NO 201776

FIG NO.