

October 14, 2020

FLRD #5
2138 Flying Horse Club Drive
Colorado Springs, Colorado 80921

Attn: Mark Sherwood

Re: Cement Stabilized Subgrade – Field Tests
Forest Lakes Filing No. 5
El Paso County, Colorado

Dear Mr. Sherwood:

As requested, personnel of Entech Engineering, Inc. have performed strength testing on three sets of three soil/cement composite samples from the above referenced project. Testing was performed on field soil samples prepared with 2% Portland Cement Type 1/2, from Martin-Marietta near Pueblo, Colorado.

The average strength values of the 2% mix ranged from 291 to 360 psi. Due to the strength, microfracturing of the subgrade is recommended. A summary of the testing results is attached.

We trust 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,

ENTECH ENGINEERING, INC.



Daniel P. Stegman

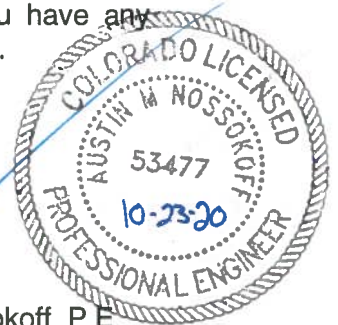
DPS/bs

Entech Job No. 192273
AAprojects/2020/192273 css- field test

Reviewed by:



Austin M. Nossokoff, P.E.



SUMMARY OF CTS TEST RESULTS FIELD TESTING

CLIENT FLRD #5
 PROJECT FOREST LAKES, FILING 5
 FIELD SAMPLE ID ON-SITE
 SOIL ADDITIVE TYPE I/II CEMENT

JOB NO 192273
 DATE 10/13/20
 BY BL

<i>ADDITIVE %</i>	<i>WATER %</i>	<i>DENSITY (dry)</i>	<i>AGE (days)</i>	<i>STRENGTH (psi)</i>
MESA TOP ROAD				
2	11.3	134.3	6	335
2	11.3	131.9	6	336
2	11.3	131.1	6	409
AVERAGE:				360
FOREST LAKES DRIVE, LOTS 18/19				
2	14.0	130.1	5	357
2	14.0	130.0	5	229
2	14.0	126.5	5	286
AVERAGE:				291
FOREST LAKES DRIVE, LOTS 32/33				
2	11.1	131.5	5	345
2	11.1	131.4	5	327
2	11.1	131.7	5	351
AVERAGE:				341

CURING METHOD

100° HUMIDIFIED OVEN