



ENTECH
ENGINEERING, INC.

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

December 17, 2021

FLRD #6
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Density Testing – Water
Forest Lakes Residential Development, Filing 6
Colorado Springs, Colorado
Report No. 4, Tests 306 – 337

Dear Mr. Boulton,

As requested, personnel of Entech Engineering, Inc. have performed density testing at the above referenced site.

Density testing on this site was performed on December 6, 2021 – December 10, 2021. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

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

Respectfully Submitted,

ENTECH ENGINEERING, INC.


Joseph C. Goode, Jr., P.E.
President



JCG/kw

Enclosure

Entech Job No. 201326

F:\AA projects\2020\201326-FLRD-Forest Lakes F6-110-ConMat\201326_3c4.doc

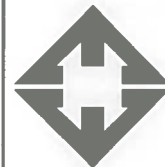
Client: FLRD #6	Entech Job #: 201326.3	Proctor Value Key: M = modified, ASTM D-1557 S = standard, ASTM D-698 T = AASHTO, T-180
Project: Forest Lakes Residential Development, Filing 6	Tested By: J. Claton	
Subject: Water	Report Date: 12-17-2021	

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
306	Water Main, Station 8 + 00 on Mesa Top Drive North, 6' below grade.	12/6/21	96	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
307	Water Main, Station 8 + 00 on Mesa Top Drive North, 4' below grade.	12/6/21	97	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
308	Water Main, Station 8 + 00 on Mesa Top Drive North, 2' below grade.	12/6/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
309	Water Main, Station 8 + 00 on Mesa Top Drive North, at grade.	12/6/21	95	95	9.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
310	Water Main, Station 5 + 50 on Mesa Top Drive North, 6' below grade.	12/6/21	97	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
311	Water Main, Station 5 + 50 on Mesa Top Drive North, 4' below grade.	12/6/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
312	Water Main, Station 5 + 50 on Mesa Top Drive North, 2' below grade.	12/6/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
313	Water Main, Station 5 + 50 on Mesa Top Drive North, at grade.	12/6/21	96	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
314	Water Main, Station 3 + 00 on Mesa Top Drive North, 5' below grade.	12/7/21	98	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
315	Water Main, Station 3 + 00 on Mesa Top Drive North, 3' below grade.	12/7/21	96	95	7.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

All dimensions are approximate. Cl. = Centerline



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FIELD DENSITY RESULTS

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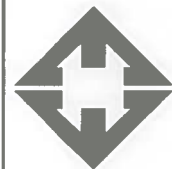
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Project: Forest Lakes Residential Development, Filing 6	Tested By: J. Claton	S = standard, ASTM D-698
Subject: Water	Report Date: 12-17-2021	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
316	Water Main, Station 3 + 00 on Mesa Top Drive North, 1' below grade.	12/7/21	96	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
317	Water Main, Station 3 + 00 on Mesa Top Drive North, at grade.	12/7/21	95	95	7.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
318	Water Main, Station 1 + 00 on Mesa Top Drive North, 5' below grade.	12/7/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
319	Water Main, Station 1 + 00 on Mesa Top Drive North, 3' below grade.	12/7/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
320	Water Main, Station 1 + 00 on Mesa Top Drive North, 1' below grade.	12/7/21	97	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
321	Water Main, Station 1 + 00 on Mesa Top Drive North, at grade.	12/8/21	97	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
322	Water Main, Tract "B", Station 5 + 00, between water tank and Mesa Top Drive North, 5' below grade.	12/8/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
323	Water Main, Tract "B", Station 5 + 00, between water tank and Mesa Top Drive North, 3' below grade.	12/8/21	96	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
324	Water Main, Tract "B", Station 5 + 00, between water tank and Mesa Top Drive North, 1' below grade.	12/8/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
325	Water Main, Tract "B", Station 5 + 00, between water tank and Mesa Top Drive North, at grade.	12/9/21	97	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Project: Forest Lakes Residential Development, Filing 6	Tested By: J. Claton	S = standard, ASTM D-698
Subject: Water	Report Date: 12-17-2021	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
326	Water Main, Tract "B", Station 2 + 50, between water tank and Mesa Top Drive North, 5' below grade.	12/9/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
327	Water Main, Tract "B", Station 2 + 50, between water tank and Mesa Top Drive North, 3' below grade.	12/9/21	96	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
328	Water Main, Tract "B", Station 2 + 50, between water tank and Mesa Top Drive North, 1' below grade.	12/9/21	96	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
329	Water Main, Tract "B", Station 2 + 50, between water tank and Mesa Top Drive North, at grade.	12/9/21	95	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
330	Water Services - Lot #21 on Mesa Top Drive North, 5' below grade.	12/10/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
331	Water Services - Lot #21 on Mesa Top Drive North, 3' below grade.	12/10/21	96	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
332	Water Services - Lot #21 on Mesa Top Drive North, 1' below grade.	12/10/21	97	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
333	Water Services - Lot #21 on Mesa Top Drive North, at grade.	12/10/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
334	Water Services - Lot #22 on Mesa Top Drive North, 5' below grade.	12/10/21	97	95	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
335	Water Services - Lot #22 on Mesa Top Drive North, 3' below grade.	12/10/21	95	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
336	Water Services - Lot #22 on Mesa Top Drive North, 1' below grade.	12/10/21	97	95	6.0	SM	M - 130.3 @ 7.6	<input checked="" type="checkbox"/>
337	Water Services - Lot #22 on Mesa Top Drive North, at grade.	12/10/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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