



ENTECH
ENGINEERING, INC.

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

August 7, 2020

FLRD #2
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Density Testing – Water
Forest Lakes Residential Development, Filing 5
Colorado Springs, Colorado
Report No. 2, Tests 4 – 21

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 July 27 – 31, 2020. 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.

MHH
Mark H. Hauschild, P.E.
Senior Engineer

MHH/bo

Enclosure



Entech Job No. 192273

F:\AA projects\2019\192273-FLRD #2-Forest Lakes Residential Development Filing #5-110-ConMat\192273_3cl2.doc

Client: FLRD #2	Entech Job #: 192273.3	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Residential Development, Filing 5	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Water	Report Date: 08-06-2020	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
4	Main, Station 2 + 25, Mesa Top Drive, 4' below grade.	7/27/20	98	95	7.6	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
5	Main, Station 2 + 10, Mesa Top Drive, 2' below grade.	7/27/20	97	95	8.2	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
6	Main, Station 1 + 90, Mesa Top Drive, at grade.	7/27/20	96	95	8.1	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
7	Main, Station 4 + 90, Mesa Top Drive, 4' below grade.	7/28/20	97	95	7.7	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
8	Main, Station 4 + 70, Mesa Top Drive, 2' below grade.	7/28/20	97	95	8.3	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
9	Main, Station 4 + 60, Mesa Top Drive, at grade.	7/28/20	96	95	8.5	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
10	Main, Station 7 + 50, Mesa Top Drive, 4' below grade.	7/29/20	97	95	9.2	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
11	Main, Station 7 + 25, Mesa Top Drive, 2' below grade.	7/29/20	97	95	8.1	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
12	Main, Station 7 + 10, Mesa Top Drive, at grade.	7/29/20	97	95	8.3	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
13	Valves, Station 9 + 94, Mesa Top Drive, 2' below grade.	7/31/20	98	95	9.1	SM	M - 127.9 @ 9.2	<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

Mark H. Hauschild, P.E.


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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
14	Valves, Station 9 + 94, Mesa Top Drive, at grade.	7/31/20	98	95	8.3	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
15	Main, Station 10 + 75, Mesa Top Drive, 4' below grade.	7/31/20	96	95	7.9	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
16	Main, Station 11 + 00, Mesa Top Drive, 2' below grade.	7/31/20	97	95	8.6	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
17	Main, Station 11 + 25, Mesa Top Drive, at grade.	7/31/20	96	95	9.0	SM	M - 127.9 @ 9.2	<input type="checkbox"/>
18	Valves, Station 1 + 32, Mesa Top Drive, 2' below grade.	7/31/20	97	95	8.0	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
19	Valves, Station 1 + 32, Mesa Top Drive, at grade.	7/31/20	96	95	8.7	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
20	Valves, Station 3 + 56, Mesa Top Drive, 2' below grade.	7/31/20	97	95	7.9	SM	M - 130.4 @ 8.1	<input type="checkbox"/>
21	Valves, Station 3 + 56, Mesa Top Drive, at grade.	7/31/20	98	95	7.5	SM	M - 130.4 @ 8.1	<input type="checkbox"/>

Comments:

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

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 <p>ENTECH ENGINEERING, INC. 505 Elkton Drive Colorado Springs, CO 80907 (719) 531-5599 • (719) 531-5238 (fax)</p>	<p>FIELD DENSITY RESULTS</p>	<p><i>Mark H. Hauschild, P.E.</i></p>
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