



**ENTECH**  
ENGINEERING, INC.

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

October 28, 2014

Land First, Inc.  
154 Del Oro Circle  
Colorado Springs, CO 80919

Attn: Ronald Waldthausen

Re: Density Testing – Sanitary Sewer  
Meridian Road and Bent Grass Meadows Drive  
Colorado Springs, Colorado  
Report No. 1, Test 1-6

Dear Mr. Waldthausen:

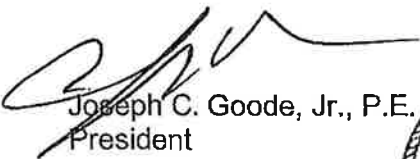
As requested, personnel of Entech Engineering, Inc. have performed density testing at the above referenced site.

Density testing on this site was performed on October 24, 2014. The density testing indicates that the materials have been adequately compacted at the depths and locations noted. Results of the density tests are attached with this letter.

We trust that this has provided you with the information you required. 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/ren

Encl.

Entech Job No. 141422  
3MSW/DEN/2014/141422.2cl



SANITARY SEWER

Client: Land First, Inc.	Entech Job #: 141422.2	Proctor Value Key: M = modified, ASTM D-1557
Project: Meridian Road and Bent Grass Meadows Drive	Tested By: T. Kinner	S = standard, ASTM D-698
Subject: Sanitary Sewer	Report Date: 10-28-2014	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
1	Main, Trey Lane, station 1+00, 2' east of manhole, 6' below grade. ✓	10/24/14	96	95	7.3	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
2	Main, Trey Lane, station 1+00, 2' north of manhole, 4' below grade. ✓	10/24/14	97	95	7.7	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
3	Main, Trey Lane, station 1+00, 2' south of manhole, 2' below grade. ✓	10/24/14	97	95	6.7	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
4	Main, Trey Lane, station 1+00, 2' west of manhole, 6' below grade.	10/24/14	95	95	7.8	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
5	Main, Trey Lane, station 1+00, 2' east of manhole, 4' below grade.	10/24/14	96	95	7.2	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
6	Main, Trey Lane, station 1+00, 2' north of manhole, 2' below grade.	10/24/14	97	95	7.5	SM	M - 132.0 @ 7.1	<input type="checkbox"/>

Comments:

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

All dimensions are approximate. Cl. = Centerline



**ENTECH**  
ENGINEERING, INC.  
505 Elkton Drive  
Colorado Springs, CO 80907  
(719) 531-5599 • (719) 531-5238 (fax)

FIELD DENSITY RESULTS

*[Signature]*  
Joseph C. Goode, Jr., P.E.



**ENTECH**  
ENGINEERING, INC.

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

November 5, 2014  
(Revised November 7, 2014)

Land First, Inc.  
154 Del Oro Circle  
Colorado Springs, CO 80919

Attn: Ronald Waldthausen

Re: Density Testing – Sanitary Sewer  
Meridian Road and Bent Grass Meadows Drive  
Colorado Springs, Colorado  
Report No. 2, Test 7-23

Dear Mr. Waldthausen:

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

Density testing on this site was performed on October 28 through 30, 2014. The density testing indicates that the materials have been adequately compacted at the depths and locations noted. Results of the density tests are attached with this letter.

We trust that this has provided you with the information you required. 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/ren

Encl.

Entech Job No. 141422  
3MSW/DEN/2014/141422.2.cla

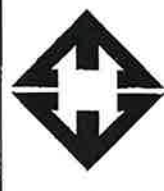



SANITARY SEWER

Client: Land First, Inc.	Entech Job #: 141422.2	Proctor Value Key: M = modified, ASTM D-1557 S = standard, ASTM D-998 T = AASHTO, T-180
Project: Meridian Road and Bent Grass Meadows Drive	Tested By: T. Kinner / C. Redwine	
Subject: Sanitary Sewer	Report Date: 11-07-2014	

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
7	Trey Lane, Lot 1, southwest corner, at grade.	10/28/14	97	95	7.6	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
8	Trey Lane, Lot 3, southwest corner, at grade.	10/28/14	95	95	7.8	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
9	Trey Lane, station 1+00, 2' west of manhole, at grade. ✓	10/28/14	96	95	6.5	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
10	Trey Lane, station 1+40, 2' west of manhole, at grade.	10/29/14	96	95	6.7	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
11	Trey Lane, station 1+20, 6' below grade. ✓	10/29/14	95	95	7.5	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
12	Trey Lane, station 1+25, 4' below grade. ✓	10/29/14	95	95	7.0	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
13	Trey Lane, station 1+15, 2' below grade. ✓	10/29/14	96	95	6.3	SM	M - 132.0 @ 7.1	<input type="checkbox"/>
14	Service, Bent Grass Meadows Drive, Lot 1, 4' below grade. ✓	10/29/14	97	95	9.0	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
15	Service, Bent Grass Meadows Drive, Lot 1, 2' below grade. ✓	10/29/14	97	95	9.0	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
16	Service, Bent Grass Meadows Drive, Lot 3, 5' below grade. ✓	10/29/14	96	95	8.7	SC	M - 132.0 @ 7.1	<input type="checkbox"/>

Comments:

Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED		All dimensions are approximate. Cl. = Centerline	
 <b>ENTECH</b> ENGINEERING, INC. 505 Elkton Drive Colorado Springs, CO 80907 (719) 531-5569 • (719) 531-6238 (fax)	FIELD DENSITY RESULTS		 Joseph C. Goode, Jr., P.E.

Client:	Land First, Inc.	Entech Job #:	141422.2	Proctor Value Key:	M = modified, ASTM D-1557 S = standard, ASTM D-698 T = AASHTO, T-180
Project:	Meridian Road and Bent Grass Meadows Drive	Tested By:	T. Kinner / C. Redwine		
Subject:	Sanitary Sewer	Report Date:	11-07-2014		

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
17	Service, Bent Grass Meadows Drive, Lot 3, 3' below grade. ✓	10/29/14	96	95	8.9	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
18	Service, Bent Grass Meadows Drive, Lot 3, 1' below grade. ✓	10/29/14	96	95	9.0	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
19	Service, Bent Grass Meadows Drive, Lot 2, 10' below grade. ✓	10/30/14	95	95	9.0	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
20	Service, Bent Grass Meadows Drive, Lot 2, 8' below grade. ✓	10/30/14	96	95	9.1	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
21	Service, Bent Grass Meadows Drive, Lot 2, 6' below grade. ✓	10/30/14	97	95	8.9	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
22	Service, Bent Grass Meadows Drive, Lot 2, 4' below grade. ✓	10/30/14	96	95	8.3	SC	M - 132.0 @ 7.1	<input type="checkbox"/>
23	Service, Bent Grass Meadows Drive, Lot 2, 2' below grade. ✓	10/30/14	95	95	8.7	SC	M - 132.0 @ 7.1	<input type="checkbox"/>

**Comments:**

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

All dimensions are approximate. Cl. = Centerline



**ENTECH**  
ENGINEERING, INC.  
505 Elktion Drive  
Colorado Springs, CO 80907  
(719) 531-5599 • (719) 531-5238 (fax)

**FIELD DENSITY RESULTS**

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