



ENTECH
ENGINEERING, INC.

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

July 24, 2021

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

Attn: Jim Boulton

Re: Density Testing – Sanitary Sewer
Forest Lakes Residential Development, Filing 6
Colorado Springs, Colorado
Report No. 4, Tests 22 – 56

Dear Mr. Boulton,

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

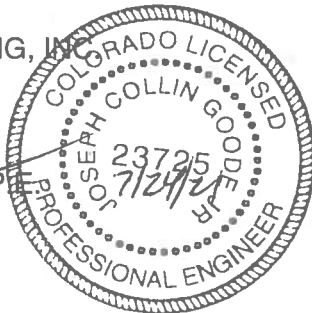
Density testing on this site was performed on July 16 – 22, 2021. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

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/bo

Enclosure

Entech Job No. 201326

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| | | |
|--|--------------------------------|---|
| Client: FLRD #6 | Entech Job #: 201326.2 | Proctor Value Key: M = modified, ASTM D-1557 |
| Project: Forest Lakes Residential Development, Filing 6 | Tested By: S. Wood | S = standard, ASTM D-698 |
| Subject: Sanitary Sewer | Report Date: 07-24-2021 | T = AASHTO, T-180 |

| Test # | Test Location | Testing Date | Percent Compaction | Percent Required | Percent Moisture | Soil Type | Proctor Type/Value | Pass/Fail |
|--------|--|--------------|--------------------|------------------|------------------|-----------|--------------------|--------------------------|
| 22 | Service, Lot 53, Timber Trek Way, 10' below grade. | 7/16/21 | 100 | 95 | 7.1 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 23 | Service, Lot 54, Timber Trek Way, 8' below grade. | 7/19/21 | 96 | 95 | 9.0 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 24 | Service, Lot 67, Timber Trek Way, 12' below grade. | 7/19/21 | 98 | 98 | 6.9 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 25 | Main, Station 7 + 80, Timber Trek Way, 8' below grade. | 7/19/21 | 100 | 95 | 9.0 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 26 | Main, Station 8 + 20, Timber Trek Way, 2' below grade. | 7/19/21 | 100 | 95 | 8.9 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 27 | Main, Station 8 + 50, Timber Trek Way, 4' below grade. | 7/19/21 | 100 | 95 | 6.8 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 28 | Service, Lot 43, Mesa Top Drive, 6' below grade. | 7/19/21 | 96 | 95 | 7.2 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 29 | Service, Lot 45, Mesa Top Drive, 6' below grade. | 7/19/21 | 98 | 95 | 7.2 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 30 | Service, Lot 42, Mesa Top Drive, 4' below grade. | 7/19/21 | 96 | 95 | 8.1 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 31 | Service, Lot 34, Mesa Top Drive, 6' below grade. | 7/19/21 | 97 | 95 | 7.0 | 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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|--|------------------------------|--|
|  <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>Joseph C. Goode, Jr., P.E.</i></p> |
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| 32 | Service, Lot 44, Mesa Top Drive, 6' below grade. | 7/19/21 | 95 | 95 | 7.0 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 33 | Service, Lot 67, Timber Trek Way, 10' below grade. | 7/19/21 | 99 | 95 | 7.2 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 34 | Service, Lot 67, Timber Trek Way, 8' below grade. | 7/19/21 | 100 | 95 | 7.9 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 35 | Service, Lot 53, Timber Trek Way, 8' below grade. | 7/19/21 | 97 | 95 | 6.9 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 36 | Service, Lot 53, Timber Trek Way, 6' below grade. | 7/19/21 | 95 | 95 | 6.3 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 37 | Service, Lot 56, Timber Trek Way, 10' below grade. | 7/20/21 | 95 | 95 | 6.8 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 38 | Service, Lot 56, Timber Trek Way, 8' below grade. | 7/20/21 | 95 | 95 | 7.0 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 39 | Main, Station 6 + 50, Timber Trek Way, 6' below grade. | 7/20/21 | 99 | 95 | 6.9 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 40 | Service, Lot 56, Timber Trek Way, 6' below grade. | 7/20/21 | 96 | 95 | 6.7 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |
| 41 | Service, Lot 66, Timber Trek Way, 10' below grade. | 7/20/21 | 96 | 95 | 6.3 | SM | M - 130.7 @ 8.1 | <input type="checkbox"/> |

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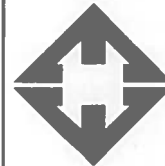
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|--------|---|--------------|--------------------|------------------|------------------|-----------|--------------------|--------------------------|
| 42 | Service, Lot 66, Timber Trek Way, 8' below grade. | 7/21/21 | 95 | 95 | 7.3 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 43 | Service, Lot 57, Timber Trek Way, 12' below grade. | 7/21/21 | 99 | 98 | 6.9 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 44 | Service, Lot 56, Timber Trek Way, 4' below grade. | 7/21/21 | 97 | 95 | 7.1 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 45 | Service, Lot 66, Timber Trek Way, 6' below grade. | 7/21/21 | 96 | 95 | 6.9 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 46 | Service, Lot 56, Timber Trek Way, 2' below grade. | 7/21/21 | 95 | 95 | 6.8 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 47 | Service, Lot 66, Timber Trek Way, 4' below grade. | 7/21/21 | 97 | 95 | 6.3 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 48 | Service, Lot 65, Timber Trek Way, 12' below grade. | 7/21/21 | 96 | 95 | 6.6 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 49 | Service, Lot 57, Timber Trek Way, 10' below grade. | 7/21/21 | 100 | 95 | 6.5 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 50 | Main, Station 6 + 20, Timber Trek Way, 12' below grade. | 7/21/21 | 98 | 98 | 5.9 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 51 | Service, Lot 55, Timber Trek Way, 12' below grade. | 7/21/21 | 98 | 98 | 6.5 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |

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FIELD DENSITY RESULTS

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| 52 | Service, Lot 55, Timber Trek Way, 10' below grade. | 7/21/21 | 100 | 95 | 6.7 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 53 | Service, Lot 64, Timber Trek Way, 12' below grade. | 7/22/21 | 99 | 98 | 8.0 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 54 | Service, Lot 65, Timber Trek Way, 10' below grade. | 7/22/21 | 95 | 95 | 6.9 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 55 | Service, Lot 58, Timber Trek Way, 12' below grade. | 7/22/21 | 99 | 98 | 7.3 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |
| 56 | Main, Station 5 + 25, Timber Trek Way, 10' below grade. | 7/22/21 | 96 | 95 | 8.1 | SM | M - 130.3 @ 7.6 | <input type="checkbox"/> |

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