



**REPORT OF SOILS FIELD COMPACTION TESTING**

**CLIENT:** Ludlow Construction Co., Inc.  
19 Carmelina's Circle  
Ludlow, MA 01056  
Attn: Mr. Mike Pio

**PROJECT:** Durham Meadows Waterline  
Durham, CT

**DATE:** April 20, 2020

**REPORT #:** 19-75-012-044A Page 1 of 5

**General Location:** South Main Street (Route 17), Waterline Trench  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 47°F  
**Weather:** Sunny  
**Soil ID#:** 3519-600  
**Soil Type:** Reddish Brown Silty Sand w/ Gravel  
**Proctor Sample Source:** On-Site

**Proctor Value:** 136.3      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 6.6%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	6" / 3.5' BFG	9.0%	133.2	97.7%
<b>LOCATION:</b>	Station #161+20			
2	6" / 2' 8" BFG	8.6%	131.5	96.5%
<b>LOCATION:</b>	Station #161+35			
3	6" / 3.5' BFG	8.8%	133.0	97.6%
<b>LOCATION:</b>	Station #161+55			
4	6" / 2' 8" BFG	9.4%	130.4	95.7%
<b>LOCATION:</b>	Station #161+45			
5	6" / 3.5' BFG	8.8%	131.4	96.4%
<b>LOCATION:</b>	Station #161+85			
6	6" / 2' 8" BFG	9.3%	130.6	95.8%
<b>LOCATION:</b>	Station #161+70			
7	6" / 3.5' BFG	9.5%	132.2	97.0%
<b>LOCATION:</b>	Station #162+00			
8	6" / 2' 8" BFG	9.4%	132.7	97.4%
<b>LOCATION:</b>	Station #162+15			

**REMARKS:** BFG - Below Finish Grade (Base Course for Asphalt)



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6" / 3.5' BFG	9.6%	132.6	97.3%
<b>LOCATION:</b>	Station #162+35			
10	6" / 2' 8" BFG	10.8%	130.8	96.0%
<b>LOCATION:</b>	Station #162+20			
11	6" / 3.5' BFG	10.7%	131.0	96.1%
<b>LOCATION:</b>	Station #162+50			
12	6" / 2' 8" BFG	9.8%	129.8	95.2%
<b>LOCATION:</b>	Station #162+60			
13	6" / 3.5' BFG	10.1%	130.3	95.6%
<b>LOCATION:</b>	Station #162+80			
14	6" / 2' 8" BFG	9.3%	130.6	95.8%
<b>LOCATION:</b>	Station #162+75			
15	6" / 3.5' BFG	10.0%	131.1	96.2%
<b>LOCATION:</b>	Station #163+05			
16	6" / 2' 8" BFG	9.5%	129.7	95.2%
<b>LOCATION:</b>	Station #163+95			

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**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 47°F  
**Weather:** Sunny  
**Soil ID#:** 3519-608  
**Soil Type:** Light Gray Grvel w/ Silt & Sand (1.5" Gravel)  
**Proctor Sample Source:** Haynes Group

**Proctor Value:** 138.9      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 7.8%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
25	6"/ 18" BFG	4.9%	134.9	97.1%
<b>LOCATION:</b>	Station #161+35			
26	6"/ 4" BFG	5.5%	136.1	98.0%
<b>LOCATION:</b>	Station #161+25			
27	6"/ 4" BFG	4.3%	136.9	98.6%
<b>LOCATION:</b>	Station #161+45			
28	6"/ 4" BFG	4.7%	134.8	97.0%
<b>LOCATION:</b>	Station #161+60			
29	6"/ 18" BFG	5.4%	134.0	96.5%
<b>LOCATION:</b>	Station #161+85			
30	6"/ 4" BFG	5.5%	135.7	97.7%
<b>LOCATION:</b>	Station #161+80			
31	6"/ 18" BFG	4.0%	137.6	99.1%
<b>LOCATION:</b>	Station #162+10			
32	6"/ 4" BFG	3.4%	138.9	100.0%
<b>LOCATION:</b>	Station #162+00			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	6"/ 18" BFG	4.7%	134.2	96.6%
<b>LOCATION:</b>	Station #162+35			
34	6"/ 4" BFG	3.9%	134.9	97.1%
<b>LOCATION:</b>	Station #162+25			
35	6"/ 18" BFG	4.4%	136.6	98.3%
<b>LOCATION:</b>	Station #162+50			
36	6"/ 4" BFG	2.7%	136.0	97.9%
<b>LOCATION:</b>	Station #162+60			
37	6"/ 18" BFG	4.9%	136.8	98.5%
<b>LOCATION:</b>	Station #162+85			
38	6"/ 4" BFG	4.5%	136.5	98.3%
<b>LOCATION:</b>	Station #162+70			
39	6"/ 18" BFG	4.1%	136.7	98.4%
<b>LOCATION:</b>	Station #163+00			
40	6"/ 4" BFG	4.6%	135.2	97.3%
<b>LOCATION:</b>	Station #163+05			

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