



**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:** May 4, 2020

**REPORT #:** 19-75-012-052 Page 1 of 5

**General Location:** South Main Street (Route 17), Waterline Trench (Station #174+40 - Station #175+90)  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 67°F  
**Weather:** Sunny  
**Soil ID#:** 3519-592  
**Soil Type:** Light Gray Gravel w/ Sand & Silt  
**Proctor Sample Source:** Haynes Group

**Proctor Value:** 141.4 **lbs/ft<sup>3</sup>** **Optimum Moisture:** 4.6%  
**Gauge Type:** Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	6"/ 3.5' BFG	4.7%	140.1	99.1%
<b>LOCATION:</b>	Station #174+50			
2	6"/ 2' 8" BFG	4.4%	140.4	99.3%
<b>LOCATION:</b>	Station #174+60			
3	6"/ 2.0' BFG	4.5%	141.3	99.9%
<b>LOCATION:</b>	Station #174+45			
4	6"/ 3.5' BFG	4.8%	137.4	97.2%
<b>LOCATION:</b>	Station #174+80			
5	6"/ 2' 8" BFG	4.3%	137.2	97.0%
<b>LOCATION:</b>	Station #174+75			
6	6"/ 2.0' BFG	3.5%	139.1	98.4%
<b>LOCATION:</b>	Station #174+85			
7	6"/ 3.5' BFG	2.6%	138.2	97.7%
<b>LOCATION:</b>	Station #174+95			
8	6"/ 2' 8" BFG	3.6%	140.0	99.0%
<b>LOCATION:</b>	Station #175+05			

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



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**General Location:** South Main Street (Route 17), Waterline Trench (Station #174+40 - Station #175+90)  
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 2.0' BFG	3.9%	138.5	97.9%
<b>LOCATION:</b>	Station #175+10			
10	6"/ 3.5' BFG	2.9%	138.0	97.6%
<b>LOCATION:</b>	Station #175+30			
11	6"/ 2' 8" BFG	2.9%	137.3	97.1%
<b>LOCATION:</b>	Station #175+35			
12	6"/ 2.0' BFG	3.7%	138.9	98.2%
<b>LOCATION:</b>	Station #175+35			
13	6"/ 3.5' BFG	2.8%	140.2	99.2%
<b>LOCATION:</b>	Station #175+40			
14	6"/ 2' 8" BFG	3.0%	137.3	97.1%
<b>LOCATION:</b>	Station #175+50			
15	6"/ 2.0' BFG	3.6%	134.5	95.1%
<b>LOCATION:</b>	Station #175+60			
16	6"/ 3.5' BFG	3.0%	134.9	95.4%
<b>LOCATION:</b>	Station #175+85			

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**Proctor Sample Source:** Haynes Group

**Proctor Value:** 141.4 lbs/ft<sup>3</sup>      **Optimum Moisture:** 4.6%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6" / 2' 8" BFG	4.1%	134.6	95.2%
<b>LOCATION:</b>	Station #175+70			
18	6" / 2.0' BFG	3.3%	136.6	96.6%
<b>LOCATION:</b>	Station #175+80			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
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**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 67°F  
**Weather:** Sunny  
**Soil ID#:** 3519-608  
**Soil Type:** Light Gray Gravel 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 (%)
19	6"/ 18" BFG	3.7%	138.1	99.4%
<b>LOCATION:</b>	Station #174+40			
20	6"/ 4" BFG	2.3%	136.2	98.1%
<b>LOCATION:</b>	Station #174+60			
21	6"/ 18" BFG	4.0%	136.5	98.3%
<b>LOCATION:</b>	Station #174+80			
22	6"/ 4" BFG	2.4%	134.8	97.0%
<b>LOCATION:</b>	Station #174+85			
23	6"/ 18" BFG	2.2%	135.1	97.3%
<b>LOCATION:</b>	Station #175+10			
24	6"/ 4" BFG	3.0%	134.2	96.6%
<b>LOCATION:</b>	Station #175+00			
25	6"/ 18" BFG	3.6%	134.6	96.9%
<b>LOCATION:</b>	Station #175+35			
26	6"/ 4" BFG	2.7%	137.1	98.7%
<b>LOCATION:</b>	Station #175+25			

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**Gauge Type:** Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
27	6"/ 18" BFG	2.8%	134.7	97.0%
<b>LOCATION:</b>	Station #175+65			
28	6"/ 4" BFG	3.3%	135.3	97.4%
<b>LOCATION:</b>	Station #175+45			
29	6"/ 18" BFG	3.2%	135.2	97.3%
<b>LOCATION:</b>	Station #175+70			
30	6"/ 4" BFG	4.0%	137.7	99.1%
<b>LOCATION:</b>	Station #175+85			
<b>LOCATION:</b>				
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