



**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 26, 2020

**REPORT #:** 19-75-012-069 Page 1 of 5

**General Location:** South Main Street (Route 17), Waterline Trench (Station #199+65 Station #201+40)  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 70°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	4.1%	135.7	96.0%
<b>LOCATION:</b> Station #199+75				
2	6"/ 2' 8" BFG	3.4%	136.6	96.6%
<b>LOCATION:</b> Station #199+75				
3	6"/ 2.0' BFG	2.4%	139.0	98.3%
<b>LOCATION:</b> Station #199+75				
4	6"/ 3.5' BFG	2.2%	138.7	98.1%
<b>LOCATION:</b> Station #200+00				
5	6"/ 2' 8" BFG	2.0%	138.1	97.7%
<b>LOCATION:</b> Station #200+00				
6	6"/ 2.0' BFG	3.1%	137.5	97.2%
<b>LOCATION:</b> Station #200+00				
7	6"/ 3.5' BFG	1.8%	139.4	98.6%
<b>LOCATION:</b> Station #200+25				
8	6"/ 2' 8" BFG	2.5%	138.4	97.9%
<b>LOCATION:</b> Station #200+25				

**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" / 2.0' BFG	2.4%	137.0	96.9%
<b>LOCATION:</b>	Station #200+25			
10	6" / 3.5' BFG	2.0%	136.7	96.7%
<b>LOCATION:</b>	Station #200+50			
11	6" / 2' 8" BFG	2.7%	138.8	98.2%
<b>LOCATION:</b>	Station #200+50			
12	6" / 2.0' BFG	3.0%	137.4	97.2%
<b>LOCATION:</b>	Station #200+50			
13	6" / 3.5' BFG	2.7%	138.1	97.7%
<b>LOCATION:</b>	Station #200+75			
14	6" / 2' 8" BFG	2.6%	136.4	96.5%
<b>LOCATION:</b>	Station #200+75			
15	6" / 2.0' BFG	2.5%	137.1	97.0%
<b>LOCATION:</b>	Station #200+75			
16	6" / 3.5' BFG	3.7%	138.9	98.2%
<b>LOCATION:</b>	Station #201+00			

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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6" / 2' 8" BFG	4.0%	139.2	98.4%
<b>LOCATION:</b>	Station #201+00			
18	6" / 2.0' BFG	3.0%	138.0	97.6%
<b>LOCATION:</b>	Station #201+00			
19	6" / 3.5' BFG	4.0%	137.0	96.9%
<b>LOCATION:</b>	Station #201+25			
20	6" / 2' 8" BFG	3.3%	138.1	97.7%
<b>LOCATION:</b>	Station #201+25			
21	6" / 2.0' BFG	4.1%	138.4	97.9%
<b>LOCATION:</b>	Station #201+25			
<b>LOCATION:</b>				
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**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 70°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 (%)
22	6"/ 18" BFG	3.4%	135.0	97.2%
<b>LOCATION:</b>	Station #199+75			
23	6"/ 4" BFG	5.5%	136.1	98.0%
<b>LOCATION:</b>	Station #199+75			
24	6"/ 18" BFG	6.0%	134.4	96.8%
<b>LOCATION:</b>	Station #200+00			
25	6"/ 4" BFG	5.0%	134.8	97.0%
<b>LOCATION:</b>	Station #200+00			
26	6"/ 18" BFG	4.2%	136.5	98.3%
<b>LOCATION:</b>	Station #200+25			
27	6"/ 4" BFG	4.1%	135.4	97.5%
<b>LOCATION:</b>	Station #200+25			
28	6"/ 18" BFG	4.4%	135.1	97.3%
<b>LOCATION:</b>	Station #200+50			
29	6"/ 4" BFG	3.8%	136.9	98.6%
<b>LOCATION:</b>	Station #200+50			

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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
30	6"/ 18" BFG	4.1%	135.7	97.7%
<b>LOCATION:</b>	Station #200+75			
31	6"/ 4" BFG	3.6%	134.4	96.8%
<b>LOCATION:</b>	Station #200+75			
32	6"/ 18" BFG	1.9%	134.5	96.8%
<b>LOCATION:</b>	Station #201+00			
33	6"/ 4" BFG	2.2%	136.1	98.0%
<b>LOCATION:</b>	Station #201+00			
34	6"/ 18" BFG	3.4%	135.4	97.5%
<b>LOCATION:</b>	Station #201+25			
35	6"/ 4" BFG	4.0%	136.2	98.1%
<b>LOCATION:</b>	Station #201+25			
<b>LOCATION:</b>				
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