





**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 14, 2020

**REPORT #:** 19-75-012-061 Page 2 of 8

**General Location:** South Main Street (Route 17), Waterline Trench (Station #191+15 Station #193+40)  
**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 70°F  
**Weather:** Clear  
**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 (%)
9	6"/ 2.0' BFG	2.6%	137.1	97.0%
<b>LOCATION:</b>	Station #191+85			
10	6"/ 3.5' BFG	3.7%	138.8	98.2%
<b>LOCATION:</b>	Station #192+00			
11	6"/ 2' 8" BFG	3.9%	135.7	96.0%
<b>LOCATION:</b>	Station #192+05			
12	6"/ 2.0' BFG	2.1%	141.5	100.0+
<b>LOCATION:</b>	Station #192+00			
13	6"/ 2.0' BFG	3.6%	135.3	95.7%
<b>LOCATION:</b>	Station #192+80			
14	6"/ 2' 8" BFG	3.2%	139.7	98.8%
<b>LOCATION:</b>	Station #193+00			
15	6"/ 2.0' BFG	4.2%	137.7	97.4%
<b>LOCATION:</b>	Station #192+90			
16	6"/ 2' 8" BFG	4.0%	140.1	99.1%
<b>LOCATION:</b>	Station #193+30			

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





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**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 70°F  
**Weather:** Clear  
**Soil ID#:** 3520-218  
**Soil Type:** Dark Brown Clayey sand w/ Gravel (On Site Bankroll Clay/Silt)  
**Proctor Sample Source:** On Site Excavation

**Proctor Value:** 131.3 **lbs/ft<sup>3</sup>** **Optimum Moisture:** 8.7%  
**Gauge Type:** Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
18	6"/ 3.5' BFG	7.2%	125.5	95.6%
<b>LOCATION:</b>	Station #192+20			
19	6"/ 2' 8" BFG	7.4%	126.9	96.6%
<b>LOCATION:</b>	Station #192+35			
20	6"/ 2.0' BFG	9.4%	127.2	96.9%
<b>LOCATION:</b>	Station #192+30			
21	6"/ 3.5' BFG	8.6%	127.6	97.2%
<b>LOCATION:</b>	Station #192+50			
22	6"/ 2' 8" BFG	7.7%	126.4	96.3%
<b>LOCATION:</b>	Station #192+40			
23	6"/ 2.0' BFG	8.7%	130.3	99.2%
<b>LOCATION:</b>	Station #192+45			
24	6"/ 3.5' BFG	8.9%	129.6	98.7%
<b>LOCATION:</b>	Station #192+70			
25	6"/ 2' 8" BFG	8.4%	127.4	97.0%
<b>LOCATION:</b>	Station #192+90			

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**Proctor Value:** 131.3      **lbs/ft<sup>3</sup>**      **Optimum Moisture:** 8.7%  
**Gauge Type:** Troxler 3430      **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
26	6"/ 3.5' BFG	8.6%	130.3	99.2%
<b>LOCATION:</b>	Station #193+10			
27	6"/ 3.5' BFG	8.3%	127.9	97.4%
<b>LOCATION:</b>	Station #193+20			
<b>LOCATION:</b>				
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**Field Rep:** Stephen Devlin  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 70°F  
**Weather:** Clear  
**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 (%)
28	6"/ 18" BFG	2.5%	136.7	98.4%
<b>LOCATION:</b>	Station #191+35			
29	6"/ 4" BFG	2.6%	134.8	97.0%
<b>LOCATION:</b>	Station #191+30			
30	6"/ 18" BFG	2.2%	135.8	97.8%
<b>LOCATION:</b>	Station #191+55			
31	6"/ 4" BFG	2.2%	135.3	97.4%
<b>LOCATION:</b>	Station #191+60			
32	6"/ 18" BFG	2.1%	136.3	98.1%
<b>LOCATION:</b>	Station #191+75			
33	6"/ 4" BFG	2.8%	138.5	99.7%
<b>LOCATION:</b>	Station #191+70			
34	6"/ 18" BFG	2.7%	137.5	99.0%
<b>LOCATION:</b>	Station #192+10			
35	6"/ 4" BFG	2.3%	134.0	96.5%
<b>LOCATION:</b>	Station #191+95			

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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
36	6"/ 18" BFG	2.0%	134.4	96.8%
<b>LOCATION:</b>	Station #192+25			
37	6"/ 4" BFG	1.9%	136.2	98.1%
<b>LOCATION:</b>	Station #192+30			
38	6"/ 18" BFG	2.7%	136.8	98.5%
<b>LOCATION:</b>	Station #192+50			
39	6"/ 4" BFG	2.4%	134.3	96.7%
<b>LOCATION:</b>	Station #192+60			
40	6"/ 18" BFG	2.8%	133.7	96.3%
<b>LOCATION:</b>	Station #192+75			
41	6"/ 4" BFG	1.9%	137.9	99.3%
<b>LOCATION:</b>	Station #192+70			
42	6"/ 18" BFG	1.8%	136.1	98.0%
<b>LOCATION:</b>	Station #193+10			
43	6"/ 4" BFG	1.2%	137.7	99.2%
<b>LOCATION:</b>	Station #193+05			

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