



**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:** September 11, 2019

**REPORT #:** 19-75-012-004 Page 1 of 5

**General Location:** South Main Street, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 55°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-600  
**Soil Type:** Reddish Brown Silty Sand w/ Gravel  
**Proctor Sample Source:** Onsite

**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	10"/40.0" BFG	8.0%	134.1	98.4%
<b>LOCATION:</b>	Station #104+26			
2	10"/ 40.0" BFG	7.1%	133.6	98.0%
<b>LOCATION:</b>	Station #104+51			
3	10"/ 40.0" BFG	6.6%	133.9	98.2%
<b>LOCATION:</b>	Station #104+76			
4	10"/ 40.0" BFG	6.4%	133.2	97.7%
<b>LOCATION:</b>	Station #105+01			
5	10"/ 40.0" BFG	6.2%	133.6	98.0%
<b>LOCATION:</b>	Station #105+26			
6	10"/ 40.0" BFG	7.3%	132.8	97.4%
<b>LOCATION:</b>	Station #105+51			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)



**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:** September 11, 2019

**REPORT #:** 19-75-012-004 Page 2 of 5

**General Location:** South Main Street, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 55°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-600  
**Soil Type:** Reddish Brown Silty Sand w/ Gravel  
**Proctor Sample Source:** Onsite

**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 (%)
7	10"/28.0" BFG	6.0%	135.0	99.0%
<b>LOCATION:</b>	Station #104+26			
8	10"/ 28.0" BFG	6.1%	134.8	98.9%
<b>LOCATION:</b>	Station #104+51			
9	10"/ 28.0" BFG	7.9%	133.9	98.2%
<b>LOCATION:</b>	Station #104+76			
10	10"/ 28.0" BFG	8.3%	133.0	97.6%
<b>LOCATION:</b>	Station #105+01			
11	10"/ 28.0" BFG	6.7%	132.6	97.3%
<b>LOCATION:</b>	Station #105+26			
12	10"/ 28.0" BFG	6.3%	133.3	97.8%
<b>LOCATION:</b>	Station #105+51			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)



**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:** September 11, 2019

**REPORT #:** 19-75-012-004 Page 3 of 5

**General Location:** South Main Street, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 55°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-600  
**Soil Type:** Reddish Brown Silty Sand w/ Gravel  
**Proctor Sample Source:** Onsite

**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 (%)
13	10"/16.0" BFG	4.9%	132.0	96.8%
<b>LOCATION:</b>	Station #104+26			
14	10"/ 16.0" BFG	6.3%	133.7	98.1%
<b>LOCATION:</b>	Station #104+51			
15	10"/ 16.0" BFG	7.5%	133.9	98.2%
<b>LOCATION:</b>	Station #104+76			
16	10"/ 16.0" BFG	6.6%	132.5	97.2%
<b>LOCATION:</b>	Station #105+01			
17	10"/ 16.0" BFG	6.0%	132.9	97.5%
<b>LOCATION:</b>	Station #105+26			
18	10"/ 16.0" BFG	7.0%	131.8	96.7%
<b>LOCATION:</b>	Station #105+51			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)



**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:** September 11, 2019

**REPORT #:** 19-75-012-004 Page 4 of 5

**General Location:** South Main Street, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 55°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-608  
**Soil Type:** Light Gray Gravel w/ Sand & Silt (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	10"/10.0" BFG	7.7%	132.3	95.2%
<b>LOCATION:</b>	Station #104+26			
20	10"/ 10.0" BFG	8.7%	132.9	95.7%
<b>LOCATION:</b>	Station #104+51			
21	10"/ 10.0" BFG	9.2%	131.9	95.0%
<b>LOCATION:</b>	Station #104+76			
22	10"/ 10.0" BFG	8.2%	133.4	96.0%
<b>LOCATION:</b>	Station #105+01			
23	10"/ 10.0" BFG	8.3%	134.0	96.5%
<b>LOCATION:</b>	Station #105+26			
24	10"/ 10.0" BFG	7.2%	135.3	97.4%
<b>LOCATION:</b>	Station #105+51			
<b>LOCATION:</b>				
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)



**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:** September 11, 2019

**REPORT #:** 19-75-012-004 Page 5 of 5

**General Location:** South Main Street, Waterline Trench  
**Field Rep:** Stephen Sturges  
**General Contractor:** Ludlow Construction Co., Inc.  
**Earthwork Contractor:** Ludlow Construction Co., Inc.  
**Air Temp:** 55°F  
**Weather:** Night/ Clear  
**Soil ID#:** 3519-608  
**Soil Type:** Light Gray Gravel w/ Sand & Silt (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	10"/4.0" BFG	7.0%	135.1	97.3%
<b>LOCATION:</b>	Station #104+26			
26	10"/ 4.0" BFG	8.8%	135.9	97.8%
<b>LOCATION:</b>	Station #104+51			
27	10"/ 4.0" BFG	8.4%	136.7	98.4%
<b>LOCATION:</b>	Station #104+76			
28	10"/ 4.0" BFG	9.2%	136.3	98.1%
<b>LOCATION:</b>	Station #105+01			
29	10"/ 4.0" BFG	8.8%	135.8	97.8%
<b>LOCATION:</b>	Station #105+26			
30	10"/ 4.0" BFG	9.0%	137.0	98.6%
<b>LOCATION:</b>	Station #105+51			
<b>LOCATION:</b>				
<b>LOCATION:</b>				

**REMARKS:** BFG - Below Finish Grade (BFG - 4.0" Below Base Course for Asphalt)