



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: June 15, 2020

REPORT #: 19-75-012-078 Page 1 of 6

General Location: Intersection of South Main Street (Route 17) & Route 68, Waterline Trench
Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 62°F
Weather: Sunny
Soil ID#: 3519-592
Soil Type: Light Gray Gravel w/ Sand & Silt (3.5" Gravel)
Proctor Sample Source: Haynes Group

Proctor Value: 141.4 **lbs/ft³** **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" / 42" BFG	2.0%	139.9	98.9%
LOCATION:	Station #602+00 (Route 68)			
2	6" / 42" BFG	1.9%	138.6	98.0%
LOCATION:	Station #602+25 (Route 68)			
3	6" / 42" BFG	1.5%	135.0	95.5%
LOCATION:	Station #602+50 (Route 68)			
4	6" / 42" BFG	2.2%	134.7	95.3%
LOCATION:	Station #602+75 (Route 68)			
5	6" / 32" BFG	1.4%	140.3	99.2%
LOCATION:	Station #602+00 (Route 68)			
6	6" / 32" BFG	1.9%	139.1	98.4%
LOCATION:	Station #602+25 (Route 68)			
7	6" / 32" BFG	2.4%	136.2	96.3%
LOCATION:	Station #602+50 (Route 68)			
8	6" / 32" BFG	2.1%	135.7	96.0%
LOCATION:	Station #602+75 (Route 68)			

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



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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 22" BFG	1.7%	139.6	98.7%
LOCATION:	Station #602+00			
10	6"/ 22" BFG	1.5%	140.0	99.0%
LOCATION:	Station #602+25			
11	6"/ 22" BFG	1.7%	134.9	95.4%
LOCATION:	Station #602+50			
12	6"/ 22" BFG	2.8%	134.5	95.1%
LOCATION:	Station #602+75			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 62°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/ft³ **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
13	6"/ 12" BFG	1.1%	134.5	96.8%
LOCATION:	Station #602+00 (Route 68)			
14	6"/ 12" BFG	2.0%	133.4	96.0%
LOCATION:	Station #602+25 (Route 68)			
15	6"/ 12" BFG	1.5%	135.8	97.8%
LOCATION:	Station #602+50 (Route 68)			
16	6"/ 12" BFG	1.8%	132.6	95.5%
LOCATION:	Station #602+75 (Route 68)			
17	6"/ 12" BFG	1.5%	133.6	96.2%
LOCATION:	Station #603+00 (Route 68)			
18	6"/ 12" BFG	2.2%	132.9	95.7%
LOCATION:	Station #603+25 (Route 68)			
19	6"/ 4" BFG	1.2%	134.7	97.0%
LOCATION:	Station #602+00 (Route 68)			
20	6"/ 4" BFG	2.2%	133.3	96.0%
LOCATION:	Station #602+25 (Route 68)			

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

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
21	6" / 4" BFG	1.7%	135.1	97.3%
LOCATION:	Station #602+50			
22	6" / 4" BFG	1.6%	134.0	96.5%
LOCATION:	Station #602+75			
23	6" / 4" BFG	1.7%	134.1	96.5%
LOCATION:	Station #603+00			
24	6" / 4" BFG	2.1%	132.3	95.2%
LOCATION:	Station #603+25			
LOCATION:				
LOCATION:				
LOCATION:				
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General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 62°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/ft³ **Optimum Moisture:** 6.6%
Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
25	6"/ 42" BFG	5.1%	127.9	93.8%
LOCATION:	Station #150+25			
26	6"/ 32" BFG	5.5%	127.6	93.6%
LOCATION:	Station #150+25			
27	6"/ 22" BFG	5.4%	128.5	94.3%
LOCATION:	Station #150+25			
LOCATION:				
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Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ **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"/ 12" BFG	2.2%	132.5	95.4%
LOCATION:	Station #148+00			
29	6"/ 12" BFG	1.2%	137.1	98.7%
LOCATION:	Station #148+60			
30	6"/ 12" BFG	1.9%	136.8	98.5%
LOCATION:	Station #150+25			
31	6"/ 4" BFG	1.6%	132.7	95.5%
LOCATION:	Station #148+00			
32	6"/ 4" BFG	2.0%	134.9	97.1%
LOCATION:	Station #148+60			
33	6"/ 4" BFG	2.1%	135.2	97.3%
LOCATION:	Station #150+25			
LOCATION:				
LOCATION:				

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