



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 16, 2020

REPORT #: 19-75-012-078A 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: 68°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	2.7%	134.3	95.0%
LOCATION:	Station #603+50 (Route 68)			
2	6"/ 42" BFG	1.9%	134.5	95.1%
LOCATION:	Station #603+75 (Route 68)			
3	6"/ 32" BFG	3.5%	135.7	96.0%
LOCATION:	Station #603+50 (Route 68)			
4	6"/ 32" BFG	1.5%	134.6	95.2%
LOCATION:	Station #603+75 (Route 68)			
5	6"/ 22" BFG	2.9%	134.3	95.0%
LOCATION:	Station #603+50 (Route 68)			
6	6"/ 22" BFG	1.7%	134.3	95.0%
LOCATION:	Station #603+75 (Route 68)			
LOCATION:				
LOCATION:				

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



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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: 68°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 (%)
7	6"/ 12" BFG	1.5%	132.9	95.7%
LOCATION:	Station #603+50			
8	6"/ 12" BFG	1.5%	132.4	95.3%
LOCATION:	Station #603+75			
9	6"/ 4" BFG	1.8%	132.4	95.3%
LOCATION:	Station #603+50			
10	6"/ 4" BFG	1.7%	132.5	95.4%
LOCATION:	Station #603+75			
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Proctor Value: 141.4 **lbs/ft³** **Optimum Moisture:** 4.6%
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
11	6"/ 42" BFG	3.5%	134.8	95.3%
LOCATION:	Station #157+75			
12	6"/ 32" BFG	3.4%	134.5	95.1%
LOCATION:	Station #157+75			
13	6"/ 22" BFG	3.0%	135.1	95.5%
LOCATION:	Station #157+75			
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General Location: Intersection of Maiden Lane and Picket Lane, Waterline Trench
Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 68°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 (%)
20	6"/ 42" BFG	8.7%	128.0	93.9%
LOCATION:	Station #425+70 (Maiden Lane)			
21	6"/ 32" BFG	9.1%	127.4	93.5%
LOCATION:	Station #425+70 (Maiden Lane)			
22	6"/ 22" BFG	8.9%	128.3	94.1%
LOCATION:	Station #425+70 (Maiden Lane)			
LOCATION:				
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Proctor Value: 138.9 lbs/ft³ **Optimum Moisture:** 7.8%
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
23	6"/ 12" BFG	1.5%	132.6	95.5%
LOCATION:	Station #425+70 (Maiden Lane)			
24	6"/ 4" BFG	1.7%	133.2	95.9%
LOCATION:	Station #425+70 (Maiden Lane)			
LOCATION:				
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