



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 4, 2020

REPORT #: 19-75-012-073 Page 1 of 4

General Location: Intersection South Main Street (Route 17) & Haddam Quarter Road, Waterline Trench
Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 78°F
Weather: Mostly 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	2.1%	137.7	97.4%
LOCATION:	Station #166+33.5			
2	6"/ 42" BFG	2.4%	135.9	96.1%
LOCATION:	Station #166+33.5			
3	6"/ 32" BFG	1.9%	138.4	97.9%
LOCATION:	Station #166+33.5			
4	6"/ 32" BFG	2.2%	137.8	97.5%
LOCATION:	Station #166+33.5			
5	6"/ 22" BFG	2.9%	136.1	96.3%
LOCATION:	Station #166+33.5			
6	6"/ 22" BFG	2.7%	136.8	96.7%
LOCATION:	Station #166+33.5			
LOCATION:				
LOCATION:				

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



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Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 78°F
Weather: Mostly 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"/ 16" BFG	1.4%	136.6	98.3%
LOCATION:	Station #166+33.5			
8	6"/ 16" BFG	1.7%	137.3	98.8%
LOCATION:	Station #166+33.5			
9	6"/ 8" BFG	1.6%	136.3	98.1%
LOCATION:	Station #166+33.5			
10	6"/ 8" BFG	2.0%	135.9	97.8%
LOCATION:	Station #166+33.5			
LOCATION:				
LOCATION:				
LOCATION:				
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General Location: Intersection South Main Street (Route 17), Waterline Trench
Field Rep: Gregory Vachon
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 78°F
Weather: Mostly 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 (%)
11	6"/ 42" BFG	3.7%	130.7	95.9%
LOCATION:	Station #137+80			
12	6"/ 42" BFG	4.1%	131.2	96.3%
LOCATION:	Station #137+80			
13	6"/ 30" BFG	5.0%	133.8	98.2%
LOCATION:	Station #137+80			
14	6"/ 30" BFG	4.8%	132.9	97.5%
LOCATION:	Station #137+80			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 78°F
Weather: Mostly 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 (%)
15	6" / 16" BFG	1.5%	138.0	99.4%
LOCATION:	Station #137+80			
16	6" / 16" BFG	2.0%	139.2	100.0+
LOCATION:	Station #137+80			
17	6" / 8" BFG	2.2%	148.4	100.0+
LOCATION:	Station #137+80			
18	6" / 8" BFG	2.4%	142.3	100.0+
LOCATION:	Station #137+80			
LOCATION:				
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