



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 9, 2019

REPORT #: 19-75-012-002 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: 62°F
Weather: Night/ Clear
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	10"/ 56.0" BFG	3.8%	135.4	95.8%
LOCATION:	Station #101+11			
2	10"/ 56.0" BFG	4.2%	136.0	96.2%
LOCATION:	Station #101+36			
3	10"/ 56.0" BFG	3.8%	135.3	95.7%
LOCATION:	Station #101+61			
4	10"/ 56.0" BFG	4.8%	135.8	96.0%
LOCATION:	Station #101+86			
5	10"/ 56.0" BFG	3.8%	134.9	95.4%
LOCATION:	Station #102+11			
6	10"/ 56.0" BFG	5.0%	136.9	96.8%
LOCATION:	Station #102+36			
LOCATION:				
LOCATION:				
LOCATION:				

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



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
7	10"/ 44.0" BFG	4.7%	135.9	96.1%
LOCATION:	Station #101+11			
8	10"/ 44.0" BFG	4.7%	137.0	96.9%
LOCATION:	Station #101+36			
9	10"/ 44.0" BFG	3.4%	135.5	95.8%
LOCATION:	Station #101+61			
10	10"/ 44.0" BFG	4.7%	136.9	96.8%
LOCATION:	Station #101+86			
11	10"/ 44.0" BFG	4.6%	137.4	97.2%
LOCATION:	Station #102+11			
12	10"/ 44.0" BFG	4.7%	137.7	97.4%
LOCATION:	Station #102+36			
LOCATION:				
LOCATION:				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
13	10"/ 32.0" BFG	4.2%	134.8	95.3%
LOCATION:	Station #101+11			
14	10"/ 32.0" BFG	4.0%	135.4	95.8%
LOCATION:	Station #101+36			
15	10"/ 32.0" BFG	5.0%	137.8	97.5%
LOCATION:	Station #101+61			
16	10"/ 32.0" BFG	3.7%	135.0	95.5%
LOCATION:	Station #101+86			
17	10"/ 32.0" BFG	4.2%	138.1	97.7%
LOCATION:	Station #102+11			
18	10"/ 32.0" BFG	5.0%	138.8	98.2%
LOCATION:	Station #102+36			
LOCATION:				
LOCATION:				

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 62°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/ft³

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"/ 20.0" BFG	6.6%	134.9	97.1%
LOCATION:	Station #101+11			
20	10"/ 20.0" BFG	5.9%	135.7	97.7%
LOCATION:	Station #101+36			
21	10"/ 20.0" BFG	6.9%	135.0	97.2%
LOCATION:	Station #101+61			
22	10"/ 20.0" BFG	7.8%	136.1	98.0%
LOCATION:	Station #101+86			
23	10"/ 20.0" BFG	7.0%	137.7	99.1%
LOCATION:	Station #102+11			
24	10"/ 20.0" BFG	7.8%	136.6	98.3%
LOCATION:	Station #102+36			
LOCATION:				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
25	12"/ 4.0" BFG	5.5%	133.9	96.4%
LOCATION: Station #101+11				
26	12"/ 4.0" BFG	5.3%	134.4	96.8%
LOCATION: Station #101+36				
27	12"/ 4.0" BFG	6.0%	134.9	97.1%
LOCATION: Station #101+61				
28	12"/ 4.0" BFG	8.4%	135.3	97.4%
LOCATION: Station #101+86				
29	12"/ 4.0" BFG	7.0%	133.2	95.9%
LOCATION: Station #102+11				
30	12"/ 4.0" BFG	7.8%	134.0	96.5%
LOCATION: Station #102+36				
LOCATION:				
LOCATION:				
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