



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: May 13, 2020

REPORT #: 19-75-012-060 Page 1 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #189+15 Station #191+15)
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 61°F
Weather: Clear
Soil ID#: 3519-592
Soil Type: Light Gray Gravel w/ Sand & Silt
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"/ 3.5' BFG	3.8%	136.0	96.2%
LOCATION: Station #189+30				
2	6"/ 2' 8" BFG	3.4%	135.5	95.8%
LOCATION: Station #189+35				
3	6"/ 2.0' BFG	3.2%	136.6	96.6%
LOCATION: Station #189+40				
4	6"/ 3.5' BFG	4.1%	137.6	97.3%
LOCATION: Station #189+55				
5	6"/ 2' 8" BFG	2.9%	136.4	96.5%
LOCATION: Station #189+40				
6	6"/ 2.0' BFG	2.7%	141.0	99.7%
LOCATION: Station #189+60				
7	6"/ 3.5' BFG	3.5%	137.2	97.0%
LOCATION: Station #189+75				
8	6"/ 2' 8" BFG	3.1%	135.6	95.9%
LOCATION: Station #189+70				

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



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9	6"/ 2.0' BFG	2.2%	137.0	96.9%
LOCATION:	Station #189+85			
10	6"/ 3.5' BFG	3.0%	137.9	97.5%
LOCATION:	Station #190+00			
11	6"/ 2' 8" BFG	3.3%	135.7	96.0%
LOCATION:	Station #190+15			
12	6"/ 2.0' BFG	1.8%	136.7	96.7%
LOCATION:	Station #190+05			
13	6"/ 3.5' BFG	2.0%	134.7	95.3%
LOCATION:	Station #190+35			
14	6"/ 2' 8" BFG	2.3%	136.3	96.4%
LOCATION:	Station #190+25			
15	6"/ 2.0' BFG	2.1%	138.1	97.7%
LOCATION:	Station #190+30			
16	6"/ 3.5' BFG	3.1%	138.3	97.8%
LOCATION:	Station #190+45			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6" / 2' 8" BFG	3.4%	136.9	96.8%
LOCATION:	Station #190+55			
18	6" / 2.0' BFG	1.8%	138.5	97.9%
LOCATION:	Station #190+55			
19	6" / 3.5' BFG	3.5%	139.3	98.5%
LOCATION:	Station #190+70			
20	6" / 2' 8" BFG	2.8%	135.3	95.7%
LOCATION:	Station #190+80			
21	6" / 2.0' BFG	2.9%	137.8	97.5%
LOCATION:	Station #190+85			
22	6" / 3.5' BFG	3.3%	135.0	95.5%
LOCATION:	Station #191+10			
23	6" / 2' 8" BFG	2.2%	135.9	96.1%
LOCATION:	Station #191+00			
24	6" / 2.0' BFG	2.6%	140.8	99.6%
LOCATION:	Station #191+10			

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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 61°F
Weather: Clear
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 (%)
25	6"/ 18" BFG	2.0%	134.9	97.1%
LOCATION:	Station #189+35			
26	6"/ 4" BFG	1.5%	135.6	97.6%
LOCATION:	Station #189+40			
27	6"/ 18" BFG	2.6%	133.7	96.3%
LOCATION:	Station #189+55			
28	6"/ 4" BFG	1.3%	136.3	98.1%
LOCATION:	Station #189+50			
29	6"/ 18" BFG	2.1%	135.7	97.7%
LOCATION:	Station #189+80			
30	6"/ 4" BFG	2.2%	134.4	96.8%
LOCATION:	Station #189+75			
31	6"/ 18" BFG	1.7%	136.9	98.6%
LOCATION:	Station #190+00			
32	6"/ 4" BFG	1.7%	137.5	99.0%
LOCATION:	Station #189+95			

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33	6"/ 18" BFG	2.4%	134.3	96.7%
LOCATION:	Station #190+35			
34	6"/ 4" BFG	3.1%	134.1	96.5%
LOCATION:	Station #190+40			
35	6"/ 18" BFG	3.4%	136.5	98.3%
LOCATION:	Station #190+60			
36	6"/ 4" BFG	3.0%	133.0	95.8%
LOCATION:	Station #190+55			
37	6"/ 18" BFG	3.2%	135.4	97.5%
LOCATION:	Station #190+75			
38	6"/ 4" BFG	1.9%	138.0	99.4%
LOCATION:	Station #190+80			
39	6"/ 18" BFG	1.7%	134.6	96.9%
LOCATION:	Station #191+00			
40	6"/ 4" BFG	2.3%	137.8	99.2%
LOCATION:	Station #191+15			

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