



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: April 28, 2020

REPORT #: 19-75-012-049 Page 1 of 8

General Location: South Main Street (Route 17), Waterline Trench (Station #169+20 - Station #172+20 (30))
Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 50°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	3.3%	134.6	95.2%
LOCATION: Station #169+25				
2	6" / 2' 8" BFG	4.2%	135.2	95.6%
LOCATION: Station #169+35				
3	6" / 2.0' BFG	2.9%	141.6	100.0+
LOCATION: Station #169+30				
4	6" / 3.5' BFG	5.1%	137.0	96.9%
LOCATION: Station #169+55				
5	6" / 2' 8" BFG	3.6%	138.0	97.6%
LOCATION: Station #169+60				
6	6" / 2.0' BFG	2.6%	135.9	96.1%
LOCATION: Station #169+70				
7	6" / 3.5' BFG	4.0%	135.9	96.1%
LOCATION: Station #169+80				
8	6" / 2' 8" BFG	3.4%	134.5	95.1%
LOCATION: Station #169+85				

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



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	6"/ 2.0' BFG	3.0%	137.6	97.3%
LOCATION:	Station #169+90			
10	6"/ 3.5' BFG	2.9%	135.7	96.0%
LOCATION:	Station #170+05			
11	6"/ 2' 8" BFG	2.9%	137.3	97.1%
LOCATION:	Station #170+15			
12	6"/ 2.0' BFG	4.9%	138.9	98.2%
LOCATION:	Station #170+00			
13	6"/ 3.5' BFG	4.1%	134.3	95.0%
LOCATION:	Station #170+25			
14	6"/ 2' 8" BFG	2.7%	136.9	96.8%
LOCATION:	Station #170+30			
15	6"/ 2.0' BFG	5.1%	135.2	95.6%
LOCATION:	Station #170+30			
16	6"/ 3.5' BFG	3.8%	137.7	97.4%
LOCATION:	Station #170+65			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	6"/ 2' 8" BFG	3.3%	136.7	96.7%
LOCATION:	Station #170+60			
18	6"/ 2.0' BFG	4.9%	139.0	98.3%
LOCATION:	Station #170+55			
19	6"/ 3.5' BFG	4.2%	138.5	97.9%
LOCATION:	Station #170+75			
20	6"/ 2' 8" BFG	4.3%	140.0	99.0%
LOCATION:	Station #170+90			
21	6"/ 2.0' BFG	5.4%	140.1	99.1%
LOCATION:	Station #170+90			
22	6"/ 3.5' BFG	4.7%	134.3	95.0%
LOCATION:	Station #171+15			
23	6"/ 2' 8" BFG	4.4%	135.4	95.8%
LOCATION:	Station #171+00			
24	6"/ 2.0' BFG	4.3%	135.0	95.5%
LOCATION:	Station #171+05			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
25	6"/ 3.5' BFG	5.6%	138.4	97.9%
LOCATION:	Station #171+30			
26	6"/ 2' 8" BFG	4.8%	137.1	97.0%
LOCATION:	Station #171+40			
27	6"/ 2.0' BFG	4.4%	136.8	96.7%
LOCATION:	Station #171+30			
28	6"/ 3.5' BFG	3.5%	139.1	98.4%
LOCATION:	Station #171+55			
29	6"/ 2' 8" BFG	3.5%	138.7	98.1%
LOCATION:	Station #171+50			
30	6"/ 2.0' BFG	3.9%	139.0	98.3%
LOCATION:	Station #171+65			
31	6"/ 3.5' BFG	3.7%	134.3	95.0%
LOCATION:	Station #171+70			
32	6"/ 2' 8" BFG	4.1%	135.8	96.0%
LOCATION:	Station #171+90			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	6"/ 2.0' BFG	2.9%	137.3	97.1%
LOCATION:	Station #171+80			
34	6"/ 3.5' BFG	3.3%	134.6	95.2%
LOCATION:	Station #172+05			
35	6"/ 2' 8" BFG	3.8%	137.0	96.9%
LOCATION:	Station #172+20			
36	6"/ 2.0' BFG	3.8%	139.3	98.5%
LOCATION:	Station #172+25			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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Field Rep: Stephen Devlin
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 50°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 (%)
37	6"/ 18" BFG	3.0%	136.0	97.9%
LOCATION:	Station #169+35			
38	6"/ 4" BFG	3.3%	136.8	98.5%
LOCATION:	Station #169+30			
39	6"/ 18" BFG	2.8%	134.8	97.0%
LOCATION:	Station #169+60			
40	6"/ 4" BFG	2.5%	134.5	96.8%
LOCATION:	Station #169+50			
41	6"/ 18" BFG	2.7%	135.8	97.8%
LOCATION:	Station #169+75			
42	6"/ 4" BFG	2.4%	135.6	97.6%
LOCATION:	Station #169+90			
43	6"/ 18" BFG	3.3%	136.2	98.1%
LOCATION:	Station #170+00			
44	6"/ 4" BFG	2.4%	136.0	97.9%
LOCATION:	Station #170+05			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
45	6"/ 18" BFG	3.0%	135.1	97.3%
LOCATION:	Station #170+25			
46	6"/ 4" BFG	2.8%	134.9	97.1%
LOCATION:	Station #170+35			
47	6"/ 18" BFG	3.3%	135.1	97.3%
LOCATION:	Station #170+60			
48	6"/ 4" BFG	3.0%	137.4	98.9%
LOCATION:	Station #170+55			
49	6"/ 18" BFG	4.9%	136.9	98.6%
LOCATION:	Station #170+80			
50	6"/ 4" BFG	2.7%	136.7	98.4%
LOCATION:	Station #170+85			
51	6"/ 18" BFG	2.2%	136.1	98.0%
LOCATION:	Station #171+00			
52	6"/ 4" BFG	1.8%	132.9	95.7%
LOCATION:	Station #171+05			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
53	6"/ 18" BFG	3.0%	136.7	98.4%
LOCATION:	Station #171+35			
54	6"/ 4" BFG	3.8%	136.6	98.3%
LOCATION:	Station #171+20			
55	6"/ 18" BFG	3.6%	135.4	97.5%
LOCATION:	Station #171+55			
56	6"/ 4" BFG	3.7%	136.2	98.1%
LOCATION:	Station #171+65			
57	6"/ 18" BFG	2.8%	133.7	96.3%
LOCATION:	Station #171+80			
58	6"/ 4" BFG	3.6%	132.1	95.1%
LOCATION:	Station #171+85			
59	6"/ 18" BFG	3.4%	137.7	99.1%
LOCATION:	Station #172+10			
60	6"/ 4" BFG	3.6%	137.1	98.7%
LOCATION:	Station #172+00			

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