



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: November 3, 2019

REPORT #: 19-75-012-025 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: 40°F
Weather: Night
Soil ID#: 3519-592
Soil Type: Light Grey 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	12"/ 44.0" BFG	4.5%	138.0	97.6%
LOCATION: Station #137+76				
2	12"/ 44.0" BFG	3.3%	138.3	97.8%
LOCATION: Station #138+01				
3	12"/ 44.0" BFG	3.8%	137.7	97.4%
LOCATION: Station #138+26				
4	12"/ 44.0" BFG	4.7%	137.3	97.1%
LOCATION: Station #138+51				
5	12"/ 44.0" BFG	4.4%	138.0	97.6%
LOCATION: Station #138+76				
6	12"/ 44.0" BFG	3.6%	137.8	97.5%
LOCATION: Station #139+01				
7	12"/ 44.0" BFG	3.5%	136.8	96.7%
LOCATION: Station #139+26				
8	12"/ 44.0" BFG	4.0%	137.1	97.0%
LOCATION: Station #139+51				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #139+52



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	4.0%	137.7	97.4%
LOCATION: Station #137+76				
10	12"/ 32.0" BFG	5.1%	138.1	97.7%
LOCATION: Station #138+01				
11	12"/ 32.0" BFG	5.3%	136.6	96.6%
LOCATION: Station #138+26				
12	12"/ 32.0" BFG	4.3%	135.9	96.1%
LOCATION: Station #138+51				
13	12"/ 32.0" BFG	4.2%	136.7	96.7%
LOCATION: Station #138+76				
14	12"/ 32.0" BFG	4.9%	137.4	97.2%
LOCATION: Station #139+01				
15	12"/ 32.0" BFG	3.9%	137.8	97.5%
LOCATION: Station #139+26				
16	12"/ 32.0" BFG	5.1%	137.0	96.9%
LOCATION: Station #139+51				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	12"/ 20.0" BFG	3.5%	137.9	97.5%
LOCATION:	Station #137+76			
18	12"/ 20.0" BFG	4.7%	139.1	98.4%
LOCATION:	Station #138+01			
19	12"/ 20.0" BFG	4.6%	138.5	97.9%
LOCATION:	Station #138+26			
20	12"/ 20.0" BFG	4.0%	138.0	97.6%
LOCATION:	Station #138+51			
21	12"/ 20.0" BFG	4.6%	137.9	97.5%
LOCATION:	Station #138+76			
22	12"/ 20.0" BFG	4.9%	138.4	97.9%
LOCATION:	Station #139+01			
23	12"/ 20.0" BFG	5.3%	139.0	98.3%
LOCATION:	Station #139+26			
24	12"/ 20.0" BFG	5.7%	138.8	98.2%
LOCATION:	Station #139+51			

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Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 40°F
Weather: Night
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	8"/ 12.0" BFG	4.4%	137.7	99.1%
LOCATION: Station #137+76				
26	8"/ 12.0" BFG	5.0%	136.4	98.2%
LOCATION: Station #138+01				
27	8"/ 12.0" BFG	5.6%	135.0	97.2%
LOCATION: Station #138+26				
28	8"/ 12.0" BFG	4.4%	136.9	98.6%
LOCATION: Station #138+51				
29	8"/ 12.0" BFG	3.3%	137.0	98.6%
LOCATION: Station #138+76				
30	8"/ 12.0" BFG	3.9%	136.9	98.6%
LOCATION: Station #139+01				
31	8"/ 12.0" BFG	5.7%	135.5	97.6%
LOCATION: Station #139+26				
32	8"/ 12.0" BFG	5.5%	136.3	98.1%
LOCATION: Station #139+51				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8" / 4.0" BFG	4.9%	137.0	98.6%
LOCATION:	Station #137+76			
34	8" / 4.0" BFG	5.5%	136.6	98.3%
LOCATION:	Station #138+01			
35	8" / 4.0" BFG	5.8%	136.5	98.3%
LOCATION:	Station #138+26			
36	8" / 4.0" BFG	6.0%	135.9	97.8%
LOCATION:	Station #138+51			
37	8" / 4.0" BFG	5.6%	136.6	98.3%
LOCATION:	Station #138+76			
38	8" / 4.0" BFG	4.9%	136.0	97.9%
LOCATION:	Station #139+01			
39	8" / 4.0" BFG	6.1%	136.4	98.2%
LOCATION:	Station #139+26			
40	8" / 4.0" BFG	6.0%	136.7	98.4%
LOCATION:	Station #139+51			

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