



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: October 23, 2019

REPORT #: 19-75-012-019 Page 1 of 7

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: 50°F
Weather: Night/ Clear
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 (%)
1	10"/ 44.0" BFG	7.3%	132.1	96.9%
LOCATION:	Station #126+76			
2	10"/ 44.0" BFG	8.4%	133.4	97.9%
LOCATION:	Station #127+01			
3	10"/ 44.0" BFG	7.7%	131.7	96.6%
LOCATION:	Station #127+26			
4	10"/ 44.0" BFG	9.0%	131.0	96.1%
LOCATION:	Station #127+51			
5	10"/ 44.0" BFG	9.3%	132.3	97.1%
LOCATION:	Station #127+76			
6	10"/ 44.0" BFG	8.9%	132.7	97.4%
LOCATION:	Station #128+01			
7	10"/ 44.0" BFG	10.0%	133.0	97.6%
LOCATION:	Station #128+26			
8	10"/ 44.0" BFG	9.8%	133.5	97.9%
LOCATION:	Station #128+51			

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #128+94



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Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/ 32.0" BFG	8.3%	133.4	97.9%
LOCATION:	Station #126+76			
10	12"/ 32.0" BFG	9.1%	133.6	98.0%
LOCATION:	Station #127+01			
11	12"/ 32.0" BFG	7.5%	132.4	97.1%
LOCATION:	Station #127+26			
12	12"/ 32.0" BFG	7.6%	132.9	97.5%
LOCATION:	Station #127+51			
13	12"/ 32.0" BFG	8.2%	131.9	96.8%
LOCATION:	Station #127+76			
14	12"/ 32.0" BFG	8.4%	133.0	97.6%
LOCATION:	Station #128+01			
15	12"/ 32.0" BFG	9.4%	132.3	97.1%
LOCATION:	Station #128+26			
16	12"/ 32.0" BFG	9.1%	133.1	97.7%
LOCATION:	Station #128+51			

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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 (%)
17	12"/ 20.0" BFG	10.0%	134.0	98.3%
LOCATION:	Station #126+76			
18	12"/ 20.0" BFG	9.7%	133.8	98.2%
LOCATION:	Station #127+01			
19	12"/ 20.0" BFG	8.8%	131.9	96.8%
LOCATION:	Station #127+26			
20	12"/ 20.0" BFG	8.3%	132.8	97.4%
LOCATION:	Station #127+51			
21	12"/ 20.0" BFG	7.0%	132.7	97.4%
LOCATION:	Station #127+76			
22	12"/ 20.0" BFG	9.9%	133.7	98.1%
LOCATION:	Station #128+01			
23	12"/ 20.0" BFG	9.3%	133.0	97.6%
LOCATION:	Station #128+26			
24	12"/ 20.0" BFG	9.5%	133.1	97.7%
LOCATION:	Station #128+51			

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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: 50°F
Weather: Night/ 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	8"/ 12.0" BFG	3.3%	136.7	98.4%
LOCATION:	Station #126+76			
26	8"/ 12.0" BFG	3.0%	136.0	97.9%
LOCATION:	Station #127+01			
27	8"/ 12.0" BFG	4.4%	136.1	98.0%
LOCATION:	Station #127+26			
28	8"/ 12.0" BFG	4.1%	135.8	97.8%
LOCATION:	Station #127+51			
29	8"/ 12.0" BFG	3.9%	135.1	97.3%
LOCATION:	Station #127+76			
30	8"/ 12.0" BFG	2.4%	135.8	97.8%
LOCATION:	Station #128+01			
31	8"/ 12.0" BFG	2.7%	136.0	97.9%
LOCATION:	Station #128+26			
32	8"/ 12.0" BFG	1.8%	136.3	98.1%
LOCATION:	Station #128+51			

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Weather: Night/ Clear
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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 (%)
33	8" / 4.0" BFG	3.0%	136.5	98.3%
LOCATION:	Station #126+76			
34	8" / 4.0" BFG	3.6%	135.4	97.5%
LOCATION:	Station #127+01			
35	8" / 4.0" BFG	4.0%	135.5	97.6%
LOCATION:	Station #127+26			
36	8" / 4.0" BFG	4.5%	134.9	97.1%
LOCATION:	Station #127+51			
37	8" / 4.0" BFG	3.2%	136.4	98.2%
LOCATION:	Station #127+76			
38	8" / 4.0" BFG	3.0%	136.2	98.1%
LOCATION:	Station #128+01			
39	8" / 4.0" BFG	3.4%	135.8	97.8%
LOCATION:	Station #128+26			
40	8" / 4.0" BFG	3.8%	135.0	97.2%
LOCATION:	Station #128+51			

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
41	10"/ 44.0" BFG	8.0%	133.0	97.6%
LOCATION:	Station #128+76			
42	12"/ 32.0" BFG	8.1%	132.7	97.4%
LOCATION:	Station #128+76			
43	12"/ 20.0" BFG	7.9%	132.6	97.3%
LOCATION:	Station #128+76			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
44	8"/ 12.0" BFG	2.6%	135.6	97.6%
LOCATION:	Station #128+76			
45	8"/ 4.0" BFG	3.2%	136.6	98.3%
LOCATION:	Station #128+76			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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