



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: June 18, 2020

REPORT #: 19-75-012-079A Page 1 of 5

General Location: South Main Street (Route 17); Route 68; Maiden Lane, Waterline Trench

Field Rep: Stephen Sturges

General Contractor: Ludlow Construction

Earthwork Contractor: Ludlow Construction

Air Temp: 76°F

Weather: Sunny/Clear

Soil ID#: 3519-600

Soil Type: Reddish Brown Sand with Gravel

Proctor Sample Source: Onsite

Proctor Value: 136.3 lbs/ft³

Optimum Moisture: 6.6%

Gauge Type: Troxler 3440

Required Compaction: 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	12"/ 16" BFG	2.2%	132.5	97.2%
LOCATION:	Station #153+56, Route 17			
2	12"/ 16" BFG	1.9%	131.4	96.4%
LOCATION:	Station #152+94, Route 17			
3	12"/ 16" BFG	2.3%	133.0	97.6%
LOCATION:	Station #152+19, Route 17			
4	12"/ 16" BFG	3.0%	132.1	96.9%
LOCATION:	Station #417+50, Maiden Lane			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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



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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction
Earthwork Contractor: Ludlow Construction
Air Temp: 76°F
Weather: Sunny/Clear
Soil ID#: 3519-608
Soil Type: Light Gray Gravel with silt and sand 1.5"
Proctor Sample Source: Haynes Group

Proctor Value: 138.9 lbs/ft³ **Optimum Moisture:** 7.8%
Gauge Type: Troxler 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
5	12"/ 4" BFG	2.4%	132.1	95.1%
LOCATION:	Station #153+56, Route 17			
6	12"/ 4" BFG	1.8%	133.4	96.0%
LOCATION:	Station #152+94, Route 17			
7	12"/ 4" BFG	2.2%	132.4	95.3%
LOCATION:	Station #152 +19, Route 17			
8	12"/ 4" BFG	2.4%	132.7	95.5%
LOCATION:	Station #417+50, Maiden Lane			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction
Earthwork Contractor: Ludlow Construction
Air Temp: 76°F
Weather: Sunny/Clear
Soil ID#: 3519-592
Soil Type: Light Gray Gravel with silt and sand 3.5"
Proctor Sample Source: Haynes Group

Proctor Value: 141.4 lbs/ft³ **Optimum Moisture:** 4.6%
Gauge Type: Troxler 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/ First Lift	2.4%	136.9	96.8%
LOCATION: Station #604+75				
10	12"/ Second Lift	3.0%	135.0	95.5%
LOCATION: Station #604+75				
11	10"/ First Lift	1.8%	135.8	96.0%
LOCATION: Station #605+00				
12	12"/ Second Lift	2.3%	136.3	96.4%
LOCATION: Station #605+00				
13	10"/ First Lift	2.0%	136.6	96.6%
LOCATION: Station #605+25				
14	12"/ Second Lift	1.9%	137.1	97.0%
LOCATION: Station #605+25				
15	10"/ First Lift	2.5%	137.9	97.5%
LOCATION: Station #605+50				
16	10"/ Second Lift	2.4%	136.0	96.2%
LOCATION: Station #605+50				

REMARKS: Each lift was 12"



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/ First Lift	2.0%	137.7	97.4%
LOCATION: Station #605+75				
18	12"/ Second Lift	2.4%	138.4	97.9%
LOCATION: Station #605+75				
19	10"/ First Lift	2.6%	137.6	97.3%
LOCATION: Station #606+00				
20	12"/ Second Lift	1.7%	137.0	96.9%
LOCATION: Station #606+00				
21	10"/ First Lift	1.9%	136.8	96.7%
LOCATION: Station #606+25				
22	12"/ Second Lift	2.3%	138.0	97.6%
LOCATION: Station #606+25				
23	10"/ First Lift	3.1%	137.3	97.1%
LOCATION: Station #606+50				
24	10"/ Second Lift	2.6%	137.1	97.0%
LOCATION: Station #606+50				

REMARKS: Each lift was 12"



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25	10" / 4" BFG	2.1%	133.2	95.9%
LOCATION:	Station #604+75			
26	10" / 4" BFG	1.8%	134.3	96.7%
LOCATION:	Station #605+00			
27	10" / 4" BFG	2.5%	135.1	97.3%
LOCATION:	Station #605+25			
28	10" / 4" BFG	2.2%	134.7	97.0%
LOCATION:	Station #605+50			
29	10" / 4" BFG	2.2%	133.8	96.3%
LOCATION:	Station #605+75			
30	10" / 4" BFG	2.5%	133.9	96.4%
LOCATION:	Station #606+00			
31	10" / 4" BFG	2.7%	135.1	97.3%
LOCATION:	Station #606+25			
32	10" / 4" BFG	1.6%	136.0	97.9%
LOCATION:	Station #606+50			

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