



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 19, 2020

REPORT #: 19-75-012-080 Page 1 of 7

General Location: Route 68, Waterline Trench
Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 86°F
Weather: Sunny
Soil ID#: 3519-592
Soil Type: Light Gray 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 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
1	10"/ Lift #1	3.3%	137.9	97.5%
LOCATION: Station #607+00				
2	12"/ Lift #2	4.0%	138.3	97.8%
LOCATION: Station #607+00				
3	10"/ Lift #1	2.2%	137.5	97.2%
LOCATION: Station #607+25				
4	12"/ Lift #2	2.5%	136.9	96.8%
LOCATION: Station #607+25				
5	10"/ Lift #1	2.0%	137.5	97.2%
LOCATION: Station #607+50				
6	12"/ Lift #2	2.8%	138.3	97.8%
LOCATION: Station #607+50				
7	10"/ Lift #1	3.1%	138.6	98.0%
LOCATION: Station #607+75				
8	10"/ Lift #2	3.3%	137.0	96.9%
LOCATION: Station #607+75				

REMARKS:



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Gauge Type: Troxler 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/ Lift #1	2.4%	136.6	96.6%
LOCATION: Station #608+00				
10	12"/ Lift #2	2.2%	137.1	97.0%
LOCATION: Station #608+00				
11	10"/ Lift #1	3.0%	137.9	97.5%
LOCATION: Station #608+25				
12	12"/ Lift #2	2.7%	138.4	97.9%
LOCATION: Station #608+25				
13	10"/ Lift #1	3.1%	137.7	97.4%
LOCATION: Station #608+50				
14	12"/ Lift #2	4.0%	138.4	97.9%
LOCATION: Station #608+50				
15	10"/ Lift #1	3.7%	137.0	96.9%
LOCATION: Station #608+75				
16	10"/ Lift #2	4.1%	136.4	96.5%
LOCATION: Station #608+75				

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Gauge Type: Troxler 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/ Lift #1	4.2%	137.5	97.2%
LOCATION:	Station #609+00			
18	12"/ Lift #2	3.2%	138.9	98.2%
LOCATION:	Station #609+00			
19	10"/ Lift #1	1.7%	138.8	98.2%
LOCATION:	Station #609+25			
20	12"/ Lift #2	2.5%	137.6	97.3%
LOCATION:	Station #609+25			
21	10"/ Lift #1	2.8%	138.3	97.8%
LOCATION:	Station #609+50			
22	12"/ Lift #2	1.8%	136.9	96.8%
LOCATION:	Station #609+50			
LOCATION:				
LOCATION:				

REMARKS:



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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 86°F
Weather: Sunny
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 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
23	12" / 4" BFG	1.7%	134.4	96.8%
LOCATION:	Station #607+00			
24	12" / 4" BFG	2.3%	132.1	95.1%
LOCATION:	Station #607+25			
25	12" / 4" BFG	1.9%	133.8	96.3%
LOCATION:	Station #607+50			
26	12" / 4" BFG	2.6%	134.8	97.0%
LOCATION:	Station #607+75			
27	12" / 4" BFG	3.0%	135.1	97.3%
LOCATION:	Station #608+00			
28	12" / 4" BFG	2.7%	134.3	96.7%
LOCATION:	Station #608+25			
29	12" / 4" BFG	3.8%	136.1	98.0%
LOCATION:	Station #608+50			
30	12" / 4" BFG	3.5%	135.7	97.7%
LOCATION:	Station #608+75			

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



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Weather: Sunny
Soil ID#: 3519-608
Soil Type: Light Gray Gravel w/ Silt & Sand (1.5" Gravel)
Proctor Sample Source: Haynes Group

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Gauge Type: Troxler 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
31	12"/ 4" BFG	2.0%	133.9	96.4%
LOCATION:	Station #609+00			
32	12"/ 4" BFG	2.4%	134.2	96.6%
LOCATION:	Station #609+25			
33	12"/ 4" BFG	2.3%	134.7	97.0%
LOCATION:	Station #609+25			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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



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General Location: Route 17, Hydrant Connection
Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 86°F
Weather: Sunny
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 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
34	12" / 16" BFG	4.0%	131.1	96.2%
LOCATION:	Station #200+00			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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Weather: Sunny
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 3440 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
35	12"/ 4" BFG	3.5%	135.0	97.2%
LOCATION:	Station #200+00			
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				
LOCATION:				

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