



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 29, 2020

REPORT #: 19-75-012-050 Page 1 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #172+40 (30) - Station #174+15)
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	2.4%	137.5	97.2%
LOCATION: Station #172+50				
2	6" / 2' 8" BFG	3.2%	135.6	95.9%
LOCATION: Station #172+60				
3	6" / 2.0' BFG	2.2%	137.1	97.0%
LOCATION: Station #172+45				
4	6" / 3.5' BFG	2.8%	137.1	97.0%
LOCATION: Station #172+75				
5	6" / 2' 8" BFG	3.1%	135.0	95.5%
LOCATION: Station #172+70				
6	6" / 2.0' BFG	4.0%	137.6	97.3%
LOCATION: Station #172+85				
7	6" / 3.5' BFG	2.9%	136.5	96.5%
LOCATION: Station #172+95				
8	6" / 2' 8" BFG	2.7%	136.9	96.8%
LOCATION: Station #173+05				

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

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 29, 2020

REPORT #: 19-75-012-050 Page 2 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #172+40 (30) - Station #174+15)
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 (%)
9	6"/ 2.0' BFG	2.9%	139.1	98.4%
LOCATION:	Station #173+10			
10	6"/ 3.5' BFG	3.8%	135.3	95.7%
LOCATION:	Station #173+30			
11	6"/ 2' 8" BFG	2.7%	136.2	96.3%
LOCATION:	Station #173+15			
12	6"/ 2.0' BFG	2.6%	139.3	98.5%
LOCATION:	Station #173+35			
13	6"/ 3.5' BFG	3.8%	135.9	96.1%
LOCATION:	Station #173+50			
14	6"/ 2' 8" BFG	2.7%	137.6	97.3%
LOCATION:	Station #173+45			
15	6"/ 2.0' BFG	2.2%	138.3	97.8%
LOCATION:	Station #173+65			
16	6"/ 3.5' BFG	2.7%	136.8	96.7%
LOCATION:	Station #173+80			

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



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 29, 2020

REPORT #: 19-75-012-050 Page 3 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #172+40 (30) - Station #174+15)
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 (%)
17	6" / 2' 8" BFG	2.9%	134.5	95.1%
LOCATION:	Station #173+70			
18	6" / 2.0' BFG	2.4%	136.5	96.5%
LOCATION:	Station #173+85			
19	6" / 3.5' BFG	2.6%	134.8	95.3%
LOCATION:	Station #174+05			
20	6" / 2' 8" BFG	2.2%	136.2	96.3%
LOCATION:	Station #174+00			
21	6" / 2.0' BFG	1.9%	136.0	96.2%
LOCATION:	Station #173+95			
LOCATION:				
LOCATION:				
LOCATION:				

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



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 29, 2020

REPORT #: 19-75-012-050 Page 4 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #172+40 (30) - Station #174+15)
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 (%)
22	6"/ 18" BFG	2.7%	135.2	97.3%
LOCATION: Station #172+55				
23	6"/ 4" BFG	2.2%	134.2	96.6%
LOCATION: Station #172+50				
24	6"/ 18" BFG	2.3%	134.7	97.0%
LOCATION: Station #172+85				
25	6"/ 4" BFG	2.0%	138.3	99.6%
LOCATION: Station #172+70				
26	6"/ 18" BFG	2.5%	137.3	98.8%
LOCATION: Station #173+00				
27	6"/ 4" BFG	2.7%	137.6	99.1%
LOCATION: Station #173+15				
28	6"/ 18" BFG	3.4%	136.6	98.3%
LOCATION: Station #173+20				
29	6"/ 4" BFG	3.3%	136.1	98.0%
LOCATION: Station #173+35				

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



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 29, 2020

REPORT #: 19-75-012-050 Page 5 of 5

General Location: South Main Street (Route 17), Waterline Trench (Station #172+40 (30) - Station #174+15)
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 (%)
30	6"/ 18" BFG	2.7%	135.6	97.6%
LOCATION:	Station #173+45			
31	6"/ 4" BFG	2.5%	136.0	97.9%
LOCATION:	Station #174+55			
32	6"/ 18" BFG	2.0%	135.4	97.5%
LOCATION:	Station #173+85			
33	6"/ 4" BFG	2.3%	135.0	97.2%
LOCATION:	Station #173+70			
34	6"/ 18" BFG	3.0%	137.9	99.3%
LOCATION:	Station #174+00			
35	6"/ 4" BFG	3.3%	134.9	97.1%
LOCATION:	Station #174+05			
LOCATION:				
LOCATION:				

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