



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 4, 2019 **REPORT #:** 19-75-012-026 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: 45°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	4.7%	137.7	97.4%
LOCATION:	Station #139+76			
2	12"/ 44.0" BFG	4.4%	138.1	97.7%
LOCATION:	Station #140+01			
3	12"/ 44.0" BFG	4.0%	136.6	96.6%
LOCATION:	Station #140+26			
4	12"/ 44.0" BFG	5.0%	137.9	97.5%
LOCATION:	Station #140+51			
5	12"/ 44.0" BFG	3.8%	138.2	97.7%
LOCATION:	Station #140+76			
6	12"/ 44.0" BFG	5.1%	138.5	97.9%
LOCATION:	Station #141+01			
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #141+22



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 4, 2019 **REPORT #:** 19-75-012-026 Page 2 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: 45°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 (%)
7	12"/ 32.0" BFG	4.0%	137.9	97.5%
LOCATION:	Station #139+76			
8	12"/ 32.0" BFG	4.2%	138.4	97.9%
LOCATION:	Station #140+01			
9	12"/ 32.0" BFG	5.5%	138.3	97.8%
LOCATION:	Station #140+26			
10	12"/ 32.0" BFG	4.5%	138.0	97.6%
LOCATION:	Station #140+51			
11	12"/ 32.0" BFG	4.3%	137.7	97.4%
LOCATION:	Station #140+76			
12	12"/ 32.0" BFG	4.2%	136.9	96.8%
LOCATION:	Station #141+01			
LOCATION:				
LOCATION:				
LOCATION:				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #141+22



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 4, 2019

REPORT #: 19-75-012-026 Page 3 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: 45°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 (%)
13	12"/ 20.0" BFG	3.8%	136.6	96.6%
LOCATION:	Station #139+76			
14	12"/ 20.0" BFG	4.0%	137.4	97.2%
LOCATION:	Station #140+01			
15	12"/ 20.0" BFG	4.5%	137.7	97.4%
LOCATION:	Station #140+26			
16	12"/ 20.0" BFG	4.3%	138.3	97.8%
LOCATION:	Station #140+51			
17	12"/ 20.0" BFG	5.8%	138.0	97.6%
LOCATION:	Station #140+76			
18	12"/ 20.0" BFG	5.1%	137.1	97.0%
LOCATION:	Station #141+01			
LOCATION:				
LOCATION:				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #141+22



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 4, 2019

REPORT #: 19-75-012-026 Page 4 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: 45°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 (%)
19	8"/ 12.0" BFG	5.6%	134.4	96.8%
LOCATION:	Station #139+76			
20	8"/ 12.0" BFG	6.0%	135.0	97.2%
LOCATION:	Station #140+01			
21	8"/ 12.0" BFG	4.5%	134.9	97.1%
LOCATION:	Station #140+26			
22	8"/ 12.0" BFG	5.5%	135.3	97.4%
LOCATION:	Station #140+51			
23	8"/ 12.0" BFG	5.6%	136.0	97.9%
LOCATION:	Station #140+76			
24	8"/ 12.0" BFG	6.0%	135.9	97.8%
LOCATION:	Station #141+01			
LOCATION:				
LOCATION:				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #141+22



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 4, 2019

REPORT #: 19-75-012-026 Page 5 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: 45°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" / 4.0" BFG	5.6%	134.3	96.7%
LOCATION:	Station #139+76			
26	8" / 4.0" BFG	4.6%	135.3	97.4%
LOCATION:	Station #140+01			
27	8" / 4.0" BFG	6.0%	135.5	97.6%
LOCATION:	Station #140+26			
28	8" / 4.0" BFG	5.8%	135.0	97.2%
LOCATION:	Station #140+51			
29	8" / 4.0" BFG	6.1%	136.6	98.3%
LOCATION:	Station #140+76			
30	8" / 4.0" BFG	5.5%	136.3	98.1%
LOCATION:	Station #141+01			
LOCATION:				
LOCATION:				

REMARKS: BFG - Below Finish Grade
 Crew Finished at Station #141+22