



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 15, 2019

REPORT #: 19-75-012-013 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: 42°F
Weather: Night/Mist
Soil ID#: 3519-600
Soil Type: Reddish Brown Silty Sand w/ Gravel
Proctor Sample Source: Onsite

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	12.2%	130.5	95.7%
LOCATION:	Station #118+53			
2	10"/ 44.0" BFG	10.3%	132.0	96.8%
LOCATION:	Station #118+78			
3	10"/ 44.0" BFG	11.4%	132.8	97.4%
LOCATION:	Station #119+03			
4	10"/ 44.0" BFG	11.8%	133.0	97.6%
LOCATION:	Station #119+28			
5	10"/ 44.0" BFG	9.8%	132.7	97.4%
LOCATION:	Station #119+53			
6	10"/ 44.0" BFG	8.4%	131.4	96.4%
LOCATION:	Station #119+78			
7	10"/ 44.0" BFG	10.0%	132.7	97.4%
LOCATION:	Station #120+03			
8	10"/ 44.0" BFG	11.2%	132.3	97.1%
LOCATION:	Station #120+28			

REMARKS: Crew finished at Station #120+51
 BFG - Below Finish Grade



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	12"/32.0" BFG	8.8%	130.9	96.0%
LOCATION: Station #118+53				
10	12"/ 32.0" BFG	9.9%	131.5	96.5%
LOCATION: Station #118+78				
11	12"/ 32.0" BFG	10.7%	131.2	96.3%
LOCATION: Station #119+03				
12	12"/ 32.0" BFG	12.0%	133.2	97.7%
LOCATION: Station #119+28				
13	12"/ 32.0" BFG	9.9%	132.0	96.8%
LOCATION: Station #119+53				
14	12"/ 32.0" BFG	8.6%	131.8	96.7%
LOCATION: Station #119+78				
15	12"/ 32.0" BFG	10.3%	131.9	96.8%
LOCATION: Station #120+03				
16	12"/ 32.0" BFG	10.5%	131.0	96.1%
LOCATION: Station #120+28				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	12"/20.0" BFG	9.6%	129.8	95.2%
LOCATION:	Station #118+53			
18	12"/ 20.0" BFG	10.1%	131.4	96.4%
LOCATION:	Station #118+78			
19	12"/ 20.0" BFG	8.9%	132.3	97.1%
LOCATION:	Station #119+03			
20	12"/ 20.0" BFG	11.1%	133.0	97.6%
LOCATION:	Station #119+28			
21	12"/ 20.0" BFG	7.9%	133.7	98.1%
LOCATION:	Station #119+53			
22	12"/ 20.0" BFG	7.7%	130.9	96.0%
LOCATION:	Station #119+78			
23	12"/ 20.0" BFG	7.0%	130.5	95.7%
LOCATION:	Station #120+03			
24	12"/ 20.0" BFG	8.4%	130.4	95.7%
LOCATION:	Station #120+28			

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 42°F
Weather: Night/Mist
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	2.2%	136.8	98.5%
LOCATION: Station #118+53				
26	8"/ 12.0" BFG	3.4%	135.0	97.2%
LOCATION: Station #118+78				
27	8"/ 12.0" BFG	2.4%	136.7	98.4%
LOCATION: Station #119+03				
28	8"/ 12.0" BFG	3.6%	136.1	98.0%
LOCATION: Station #119+28				
29	8"/ 12.0" BFG	4.0%	133.7	96.3%
LOCATION: Station #119+53				
30	8"/ 12.0" BFG	4.2%	135.5	97.6%
LOCATION: Station #119+78				
31	8"/ 12.0" BFG	4.5%	135.9	97.8%
LOCATION: Station #120+03				
32	8"/ 12.0" BFG	2.9%	136.3	98.1%
LOCATION: Station #120+28				

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Gauge Type: Troxler 3430 **Required Compaction:** 95.0%

TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
33	8" / 4.0" BFG	4.4%	136.5	98.3%
LOCATION:	Station #118+53			
34	8" / 4.0" BFG	3.4%	135.4	97.5%
LOCATION:	Station #118+78			
35	8" / 4.0" BFG	2.7%	136.2	98.1%
LOCATION:	Station #119+03			
36	8" / 4.0" BFG	3.9%	134.8	97.0%
LOCATION:	Station #119+28			
37	8" / 4.0" BFG	2.8%	134.9	97.1%
LOCATION:	Station #119+53			
38	8" / 4.0" BFG	1.9%	135.2	97.3%
LOCATION:	Station #119+78			
39	8" / 4.0" BFG	2.4%	135.0	97.2%
LOCATION:	Station #120+03			
40	8" / 4.0" BFG	2.8%	136.1	98.0%
LOCATION:	Station #120+28			

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