



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 8, 2019

REPORT #: 19-75-012-011 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: 54°F
Weather: Night
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	10.3%	131.3	96.3%
LOCATION: Station #114+13				
2	10"/ 44.0" BFG	12.1%	129.9	95.3%
LOCATION: Station #114+38				
3	10"/ 44.0" BFG	11.6%	130.3	95.6%
LOCATION: Station #114+53				
4	10"/ 44.0" BFG	9.8%	130.5	95.7%
LOCATION: Station #114+78				
5	10"/ 44.0" BFG	10.5%	131.0	96.1%
LOCATION: Station #115+03				
6	10"/ 44.0" BFG	9.9%	130.7	95.9%
LOCATION: Station #115+28				
7	10"/ 44.0" BFG	10.3%	130.3	95.6%
LOCATION: Station #115+53				
8	10"/ 44.0" BFG	10.0%	131.1	96.2%
LOCATION: Station #115+78				

REMARKS: Crew finished at Station #115+89
 BFG - Below Finish Grade



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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
9	10"/32.0" BFG	8.8%	132.0	96.8%
LOCATION: Station #114+13				
10	10"/ 32.0" BFG	9.4%	130.9	96.0%
LOCATION: Station #114+38				
11	10"/ 32.0" BFG	7.7%	130.3	95.6%
LOCATION: Station #114+53				
12	10"/ 32.0" BFG	7.0%	129.8	95.2%
LOCATION: Station #114+78				
13	10"/ 32.0" BFG	8.1%	130.7	95.9%
LOCATION: Station #115+03				
14	10"/ 32.0" BFG	8.3%	131.2	96.3%
LOCATION: Station #115+28				
15	10"/ 32.0" BFG	7.0%	131.8	96.7%
LOCATION: Station #115+53				
16	10"/ 32.0" BFG	9.2%	131.9	96.8%
LOCATION: Station #115+78				

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TEST NUMBER	DEPTH/ELEV. (in/ft)	MOISTURE (%)	DRY DENSITY (pcf)	COMPACTION (%)
17	10"/20.0" BFG	8.4%	133.0	97.6%
LOCATION:	Station #114+13			
18	10"/ 20.0" BFG	9.3%	132.8	97.4%
LOCATION:	Station #114+38			
19	10"/ 20.0" BFG	7.6%	133.1	97.7%
LOCATION:	Station #114+53			
20	10"/ 20.0" BFG	7.2%	132.5	97.2%
LOCATION:	Station #114+78			
21	10"/ 20.0" BFG	7.9%	132.2	97.0%
LOCATION:	Station #115+03			
22	10"/ 20.0" BFG	8.8%	131.5	96.5%
LOCATION:	Station #115+28			
23	10"/ 20.0" BFG	7.5%	131.2	96.3%
LOCATION:	Station #115+53			
24	10"/ 20.0" BFG	8.5%	131.6	96.6%
LOCATION:	Station #115+78			

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Field Rep: Stephen Sturges
General Contractor: Ludlow Construction Co., Inc.
Earthwork Contractor: Ludlow Construction Co., Inc.
Air Temp: 54°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"/ 12.0" BFG	3.0%	134.6	96.9%
LOCATION: Station #114+13				
26	8"/ 12.0" BFG	2.7%	135.6	97.6%
LOCATION: Station #114+38				
27	8"/ 12.0" BFG	2.5%	135.0	97.2%
LOCATION: Station #114+53				
28	8"/ 12.0" BFG	1.7%	135.1	97.3%
LOCATION: Station #114+78				
29	8"/ 12.0" BFG	3.1%	136.0	97.9%
LOCATION: Station #115+03				
30	8"/ 12.0" BFG	4.0%	136.3	98.1%
LOCATION: Station #115+28				
31	8"/ 12.0" BFG	2.7%	135.8	97.8%
LOCATION: Station #115+53				
32	8"/ 12.0" BFG	4.3%	135.4	97.5%
LOCATION: Station #115+78				

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33	8" / 4.0" BFG	4.5%	135.9	97.8%
LOCATION:	Station #114+13			
34	8" / 4.0" BFG	3.4%	136.2	98.1%
LOCATION:	Station #114+38			
35	8" / 4.0" BFG	2.7%	135.4	97.5%
LOCATION:	Station #114+53			
36	8" / 4.0" BFG	2.3%	136.6	98.3%
LOCATION:	.			
37	8" / 4.0" BFG	1.9%	136.9	98.6%
LOCATION:	Station #115+03			
38	8" / 4.0" BFG	1.4%	134.8	97.0%
LOCATION:	Station #115+28			
39	8" / 4.0" BFG	3.0%	135.0	97.2%
LOCATION:	Station #115+53			
40	8" / 4.0" BFG	2.5%	135.1	97.3%
LOCATION:	Station #115+78			

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