

## Soil Nuclear Gauge

**Report #:** SNG-000013

**Report Date:** 12/3/2020

**Test Method:** ASTM D 6938

### Client:

Ajax Building Corporation  
1080 Commerce Blvd.  
Midway, FL 32343

### Project:

10117-1020031.000  
Columbia County Detention Facility Materials  
Testing

Jacksonville, Florida

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
37		12/1/20	P-5 MODIFIED	D1557 A	SP-SM	10.5	112.5	9.1	114.9	125.4	12	102	95	DP/MP
38		12/1/20	P-5 MODIFIED	D1557 A	SP-SM	10.5	112.5	9.5	112.7	123.4	12	100	95	DP/MP
39		12/1/20	P-5 MODIFIED	D1557 A	SP-SM	10.5	112.5	9.3	113.6	124.2	12	101	95	DP/MP
40		12/1/20	P-5 MODIFIED	D1557 A	SP-SM	10.5	112.5	10.7	110.9	122.8	12	99	95	DP/MP
41		12/1/20	P-3 STANDARD	D698 A	SP-SM	9.8	116.7	7.9	112.5	121.4	12	96	95	DP/MP
42		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.5	109.1	118.4	12	97	95	DP/MP
43		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.4	108.8	117.9	12	96	95	DP/MP
44		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.8	111.4	121.2	8	99	95	DP/MP
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
37	Structural Fill: Building Pad: Approx. 9/A7						165.0	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
38	Structural Fill: Building Pad: Approx. 9/A13						165.0	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
39	Structural Fill: Building Pad: Approx. 6/A18						165.0	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
40	Structural Fill: Building Pad: Approx. 6/A21						165.0	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
41	Utility Trench Backfill: Water Main: Northern waterline at entrance						174.0	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
42	Structural Fill: Building Pad: Approx.						165.8	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
43	Structural Fill: Building Pad: Approx. 9/A13						165.8	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
44	Structural Fill: Building Pad: Approx. 5.5/A6						165.8	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
Remarks				Comments										
DP/MP: Density Pass / Moisture Pass				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Should the areas tested be subject to rain, freezing, or other adverse conditions, prior to paving, concreting, etc, NOVA recommends re-evaluation.

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45		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.4	107.2	116.2	8	95	95	DP/MP
46		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	9.5	107.0	117.2	8	95	95	DP/MP
47		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.8	109.1	118.7	8	97	95	DP/MP
48		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.2	107.1	115.9	8	95	95	DP/MP
49		12/1/20	P-1 STANDARD	D698 A	SP-SM	9.8	112.8	8.1	106.9	115.6	8	95	95	DP/MP
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
45	Structural Fill: Building Pad: Approx. 5.5/A13						165.8	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
46	Structural Fill: Building Pad: Approx. 5.5/A20						165.8	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
47	Structural Fill: Building Pad: Approx. 6/A16						165.8	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
48	Structural Fill: Building Pad: Approx. 6/A5						166.3	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
49	Structural Fill: Building Pad: Approx. 10/A5						166.3	MSL	Troxler / 3430 / 21834 /			Mitch Cantrell		
Remarks				Comments										
DP/MP: Density Pass / Moisture Pass				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Electronically signed and sealed by William L. Lawrence, P.E., Senior Regional Engineer on Dec 04, 2020 using a Digital Signature.

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