

FIELD DENSITY TEST REPORT

Report Number: 70211165.0002
Service Date: 09/10/21
Report Date: 09/10/21
Task: Soils-Utility Backfill Observations-Testing

Terracon

2401 Brentwood Rd Ste 107
Raleigh, NC 27604-3686
919-873-2211 Reg No: F-0869

Client

Harnett County Schools
Attn: Steve Matthews
1008 S. 11th St
Lillington, NC 27546

Project

Johnsonville ES Phase 1
18495 NC Highway 27 West
Cameron, NC

Project Number: 70211165

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data		Project Requirements	
				Optimum Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	70211165.0003	Screenings	ASTM D698	10.0	129.5	7.0 - 13.0	Min 95
2	70211165.0003	Screenings	ASTM D698	10.0	129.5	7.0 - 13.0	Min 98

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
Building pad									
1	0+75 North Side	-5.0'	1	6	137.2	10.3	8.1	126.9	98
2	0+75 South Side	-5.0'	1	6	136.6	12.6	10.2	124.0	96
3	0+45 East Side	-4.0'	1	6	138.4	9.3	7.2	129.1	100
4	1+00 West Side	-4.0'	1	6	138.5	10.7	8.4	127.8	99
5	0+85 North Side	-3.0'	1	6	139.5	10.9	8.5	128.6	99
6	0+45 South Side	-3.0'	1	6	138.5	11.4	9.0	127.1	98
7	0+50 East Side	-2.0'	1	6	139.0	10.3	8.0	128.7	99
8	0+75 West Side	-2.0'	1	6	140.6	12.2	9.5	128.4	99
9	0+50 North Side	-1.0'	2	6	143.4	13.7	10.6	129.7	100
10	0+75 South Side	-1.0'	2	6	142.0	11.8	9.1	130.2	100+

Datum: _____
S/N: _____ Make: _____ Model: _____ Last Cal. Date: _____

Comments: Test and/or retest results on this report meet project requirements as noted above.

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.

Terracon Rep.: Danny Vena

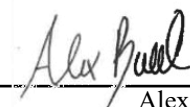
Reported To: Harrold at Engineered Construction Company

Contractor: Engineered Construction Company

Report Distribution:

(1) Harnett County Schools, Steve Matthews (1) LHC Structural Engineers, Inc., Ben Mielke
(1) SFLA Architects, Jaclin Wawak

Reviewed By: _____



Alex Bullard
Assistant Project Manager

Test Methods: ASTM D698, ASTM D6938, VTM-1

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

FIELD DENSITY TESTING REPORT

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Project

Johnsonville ES Phase 1
18495 NC Highway 27 West
Cameron, NC

Project Number: 70211165

Services Requested By: Scott Dawson at Engineered Construction Company

Earthwork Contractor: East Coast Civil Group

Observed Location(s): Building Pad

Subgrade Review: Prior to the placement of fill the subgrade was reviewed and consisted of Brown Silty Sand. The subgrade was observed to be firm and stable.

Fill Type Placed: Structural Fill

Proctor No.(s): NCDOT Screenings Proctor

Fill Description: Screenings

Source Of Fill: Imported from Quarry Martin Marietta – Lemon Springs

Fill Placement: The fill was observed to be placed in approximately 12-inch thick lifts. Compactive efforts were applied with a vibratory sheepsfoot roller. The fill placed appeared firm and stable during the application of compactive efforts.

Field Density Test Results: Field density tests were conducted on the fill placed today utilizing the drive tube method (ASTM D2937). 10 field density tests were performed. The test results met the minimum specified 95% & 98% compaction requirement as compared to ASTM D698. Refer to the attached Field Density Test Summary for individual test data.

Reported To: Harrold at Engineered Construction Company

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.

Terracon Rep.: Danny Vena

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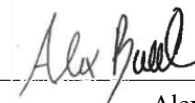
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Johnsonville ES Phase 1	Site Plan: In-Place field density testing, Building Pad.	
	Report Number: 70211165.0002	
18495 NC Highway 27 West	Technician: Danny Vena	2401 Brentwood Rd Ste 107
Cameron, NC	Date: 09/10/21	Raleigh, NC 27604-3686
	Scale: Not to Scale	919-873-2211 Reg No: F-0869