NC Registered Firm # F-1078



ECS Southeast, LLP 6151 Raeford Road Suite A Fayetteville, NC 28304 (910) 401-3288 [Phone] (910) 323-0539 [Fax]

LETTER OF TRANSMITTAL

April 6, 2020 W.S. Wellons Realty	RE: Lot 12-41 Raintree Ln ECS Job # 5190-C
PO Box 766	
Spring Lake, NC 28390	Permits:
ATTN: Jason Wellons	Location: Raintree Ln Spring Lake, NC 28390

CC:

ENCL:

4/3/2020

ming Crowley

Mingo Crowley Office Manager

Field Report # 1

Rym H. Paris

Ryan H. Parrish Construction Materials Project Manager

Disclaimer

^{1.} This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.

^{2.} The information in this report relates only to the activities performed on the report date.

^{3.} Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.

^{4.} Incomplete or non-conforming work will be reported for future resolution.

^{5.} The results of samples and/or specimens obtained or prepared for supersequent laboratory testing will be presented in separate reports/documents.

ECS	ECS Southeast, LLP 6151 Raeford Road Suite A Fayetteville, NC 28304 (910) 401-3288 [Phone]		FIELD F			
Project Location Client Contractor	 (910) 323-0539 [Fax] Lot 12-41 Raintree Ln Spring Lake, NC W.S. Wellons Realty None Listed 			Project No. Report No. Day & Date Weather On-Site Time Lab Time Travel Time* Total	5190-C 1 Friday 4/3/2020 50 °/ Sunny 1.50 0.25 <u>1.00</u> 3.25	
Pomarka				Re Obs Time	0.00	
Trin Chargoo*	Talla/Darking*	Miloggo*	25	Time of	Arrival	Doporturo
Chargeable Iter	ms 5000	ivileage	35	Time of	8:00A	9:30A
_	* Travel time an	d mileage will be bi	lled in a	ccordance with the	contract.	
	Summary of Services Performed (field	test data, locations,	elevatio	ns & depths are estir	nates) & Individuals Co	ontacted.

The undersigned arrived on site, as requested, to observe:

1. The placement and compaction of soils for the top 12 inches of the building pad. Please see the attached sketch.

Utilizing the nuclear test method to check the compaction of soils; test results indicated that the compacted material, at the areas and elevations tested, met or exceeded the project requirements of 98% of the maximum dry density as obtained in our laboratory using the Standard Proctor Method (ASTM D-698). Locations and elevations of all tests are based on stakeout provided by others. We cannot be responsible for structures located off of the observed engineered pad, misaligned utilities or stakeout errors causing uncontrolled fill to be placed in structural areas. The soils observed on this date appeared to be placed in accordance with project drawings and specifications with regard to lift thickness and moisture content.

2. To check the bearing capacity of soils via hand auger/dcp method for the building pad. Please see the attached sketch. A hand auger was used to advance the boreholes to different depths noted on the boring logs. Dynamic Cone Penetrometer (DCP) test were performed in the hand auger boreholes by a 1.5 inch diameter cone driven into the soil by a 15 pound ring weight with a free fall of 20 inches. The number of blows required to drive the cone into the soil a distance of 1.75 inches is termed the DCP Value and is indicated for each test on the hand auger.

A total of 4 hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the bottom of footing. DCP blow counts ranged from 4 to 8 blows per increment.

It is to the opinion of ECS that the materials in place at the locations and elevations tested appear to be suitable to support the design bearing capacity of 2000 psf.



Dynamic Cone Penetrometer Test Report

Project :	ect : Lot 12-			tree lan	е														
Project #:	5190-C																		
Technician:	C. Langbis	Tem	p/Weat	her:	5	0/sunr	זע												
Date:	04/03/20 Top Soil Depth:							1											
		Penetrometer Blow Counts								Soil [Descrin	tions						-	
Test Location	Toot Donth				i	<u>م</u> م	e		_ _						0	(0		Domorko	
		1 ¾"	1 ¾"	1 ¾"	Top Sc	Staine Sand	orang	Tan	Brow	Red	Claye	Sand	Silty	CLA	SANI	SILTS	with Silts	Remarks	
1	(BOF)(Subgrade)	5	4	6						\checkmark	\checkmark				\checkmark				
	-1	6	6	5		\checkmark			\checkmark		\checkmark				\checkmark				
	-2	5	6	6				\checkmark	\checkmark		\checkmark				\checkmark				
	-3	7	6	7				\checkmark	\checkmark		\checkmark				\checkmark				
	-4																		
	-5																		
2	(BOF)(Subgrade)	4	5	6		-				\checkmark	\checkmark				\checkmark				
	-1	6	7	8		\checkmark			\checkmark		\checkmark				\checkmark				
	-2	6	6	8				\checkmark	\checkmark		\checkmark				\checkmark				
2	-3	5	8	7				\checkmark	\checkmark		\checkmark				\checkmark				
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Lot 12-41 Raintree lane Project #5190-C Work order#56500







Field Compaction Summary, ASTM Nuclear

ECS Southeast, LLP

Project No: 5190-C Pro

Project Name: Lot 12-41 Raintree Ln

Date: 4/3/2020

Client: V.I. Management Group, LLC

Contractor: None Listed

Test Method ASTM NuclearNuclear Gauge No. 28048MakeTroxlerDensity Std1896ModelMoisture StdSer. No.28048

Technician: Charlie Alingbas Langbis

Sample No. Description				Proctor Method				orrected M	lax. Densit	y Uncoi	Uncorrected Optimum Moisture Content				
D4S-1 Yellow/Tan Clayey SANDS			S	Standard Proctor Method (ASTM D-698)			M	115.5	50		13.50				
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P/F	Comments
1	12	DT	8	1	subba se	D4S-1	0.00	115.50	13.50	129.5	114.8	12.8	99.4	Ρ	
2	12	DT	8	2	subba se	D4S-1	0.00	115.50	13.50	128.5	113.5	13.2	98.3	P	