

**ECS Southeast, LLC**

6151 Raeford Road, Suite A

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LETTER OF TRANSMITTAL

May 20, 2025
Precision Custom Homes

Raeford, NC 28376

ATTN: Shaun Gardner

RE: **Magnolia Hills Subdivision - Lot 18**
ECS Job # **33:7095-Z1**

Permits:

Location: **359 Persimmon Tree Drive**
Cameron, NC 28326

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Field Reports

☒

For your use

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As requested

CC: Precision Custom Homes - Allen Peterson

Precision Custom Homes - Lauren Ceruti

ENCL:

Please see the attached reports for the results of the soils encountered at lot 18. Laboratory testing has determined that this material is highly plastic (fat clay). ECS does not recommend using this material within 3' of the bottom of the footing.

ECS recommends undercutting 3' below bottom of footing from test locations 3 to 4 (and towards test locations 1 and 2 if grey fat clay is encountered) on report 2. ECS then recommends line the undercut footings with an engineering non-woven fabric and backfilling using washed #57 stone (wrapping the stone with fabric).



Jack Cowser, P.E.
Office Manager

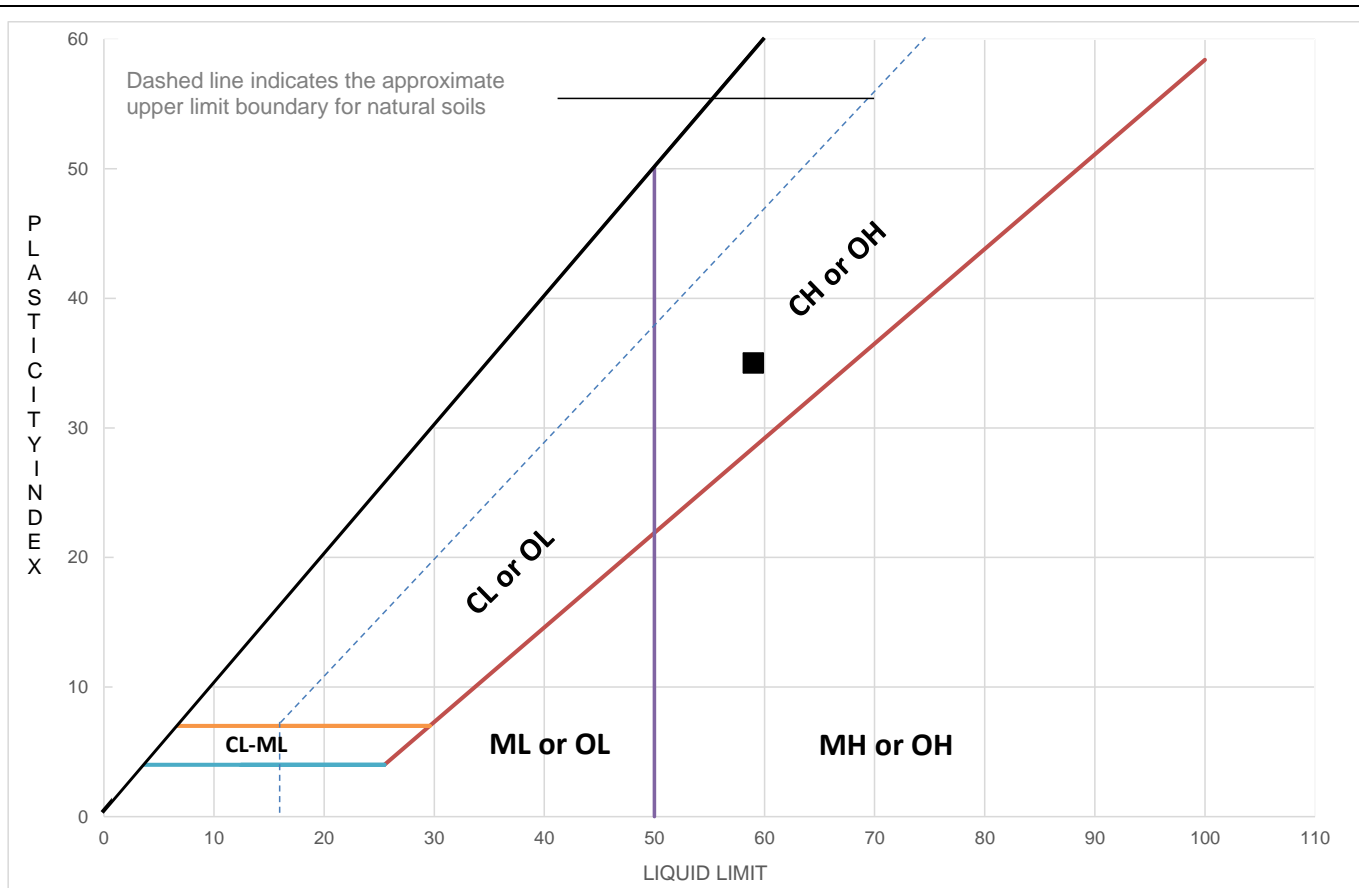
MAY 20 2025

Aaron Kyle Adair
CMT Senior Project Coordinator

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 subsequent laboratory testing will be presented in separate reports/documents.

LIQUID AND PLASTIC LIMITS TEST REPORT



TEST RESULTS (ASTM D4318-10 (MULTIPOINT TEST))

	Sample Location	Sample Number	Sample Depth (ft)	LL	PL	PI	%<#40	%<#200	AASHTO	USCS	Material Description
■	on-site	D4S-1	0.00-1.00	59	24	35		69.8			Light Grey and Brown Clay

Project: Magnolia Hills Subdivision - Lot 18
Client: Precision Custom Homes

Project No.: 33:7095-Z1
Date Reported: 5/20/2025



Office / Lab
ECS Southeast LLC - Fayetteville

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(910)401-3288
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Tested by	Checked by	Approved by	Date Received
crevels	crevels	crevels	

Laboratory Testing Summary

Sample Location	Sample Number	Depth (ft)	^MC (%)	Soil Type	Atterberg Limits			**Percent Passing No. 200 Sieve	Moisture - Density		CBR (%)		#Organic Content (%)
					LL	PL	PI		<Maximum Density (pcf)	<Optimum Moisture (%)	0.1 in.	0.2 in.	
on-site	D4S-1	0.0-1.0	3.9		59	24	35	69.8					

Notes: See test reports for test method, ^ASTM D2216-19, *ASTM D2488, **ASTM D1140-17, #ASTM D2974-20e1 < See test report for D4718 corrected values

Definitions: MC: Moisture Content, Soil Type: USCS (Unified Soil Classification System), LL: Liquid Limit, PL: Plastic Limit, PI: Plasticity Index, CBR: California Bearing Ratio, OC: Organic Content

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