

CATAWBA VALLEY

ENGINEERING & TESTING, P.C.

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LETTER OF TRANSMITTAL

Date	April 10, 2019
Project Name:	Chester SC Geotech
Project Number:	19-509

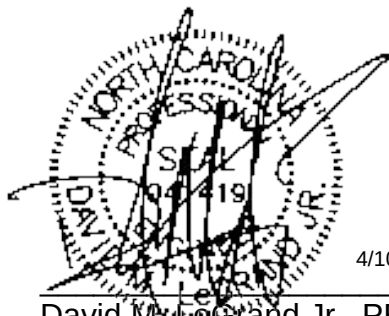
TO: Steve Rogers / steverogers@windstream.net

COPY TO:

WE ARE SENDING YOU: ☒ Soils Lab Results: Date: 4/8/19

VIA: ☐ U.S. Mail ☐ Hand Delivery ☒ Email ☐ UPS *Ground*

As requested, we have converted our soils laboratory results to a format reflecting AASHTO classification standards.



4/10/19

David M. LeGrand Jr., PE
Principal Engineer
NC 041419

Particle Size Distribution Report



Particle Size Distribution Report



GRAIN SIZE - mm.

	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	1	8	18	73	
□	0	0	0	0	11	49	40	
△	0	0	1	16	33	25	25	
◇	0	0	0	2	18	45	35	
▽	0	0	0	1	26	35	38	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	AASHTO
○	Test Borings	3480	B8 1-2.5'	Brown/Red Elastic SILT with Sand	A-7-5(19)
□	Test Borings	3481	B10 8.5-10'	Tan Silty SAND	A-4(0)
△	Test Borings	3482	B5 8.5-10'	Tan Silty SAND	A-1-b
◇	Test Borings	3483	B6 18.5-20'	Gray Silty SAND	A-2-4(0)
▽	Test Borings	3484	B8 23.5-25'	Gray Silty SAND	A-4(0)

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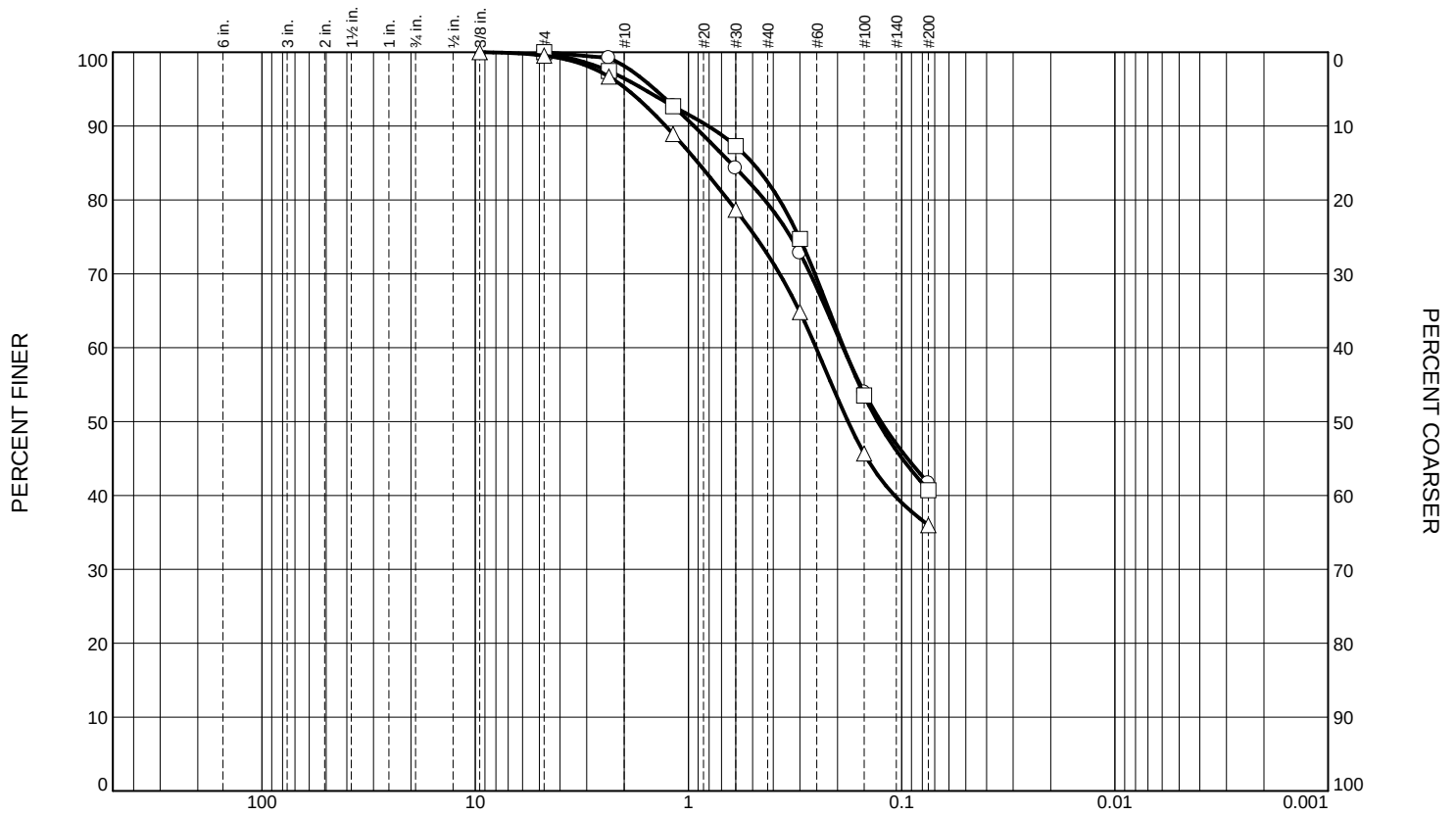
Client: Steve Rogers
Project: Chester SC

Project No.: 19509

Figure

Tested By: JLT Checked By: CR

Particle Size Distribution Report



GRAIN SIZE - mm.

	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	2	18	38	42	
□	0	0	0	4	14	41	41	
△	0	0	0	5	22	37	36	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	AASHTO
○	Test Borings	3485	B9 1-2.5'	Tan/Gray Silty SAND	A-4(0)
□	Test Borings	3486	B9 18.5-20'	Gray Silty SAND	A-4(0)
△	Test Borings	3487	B9 28.5-30'	Gray Silty SAND	A-4(0)

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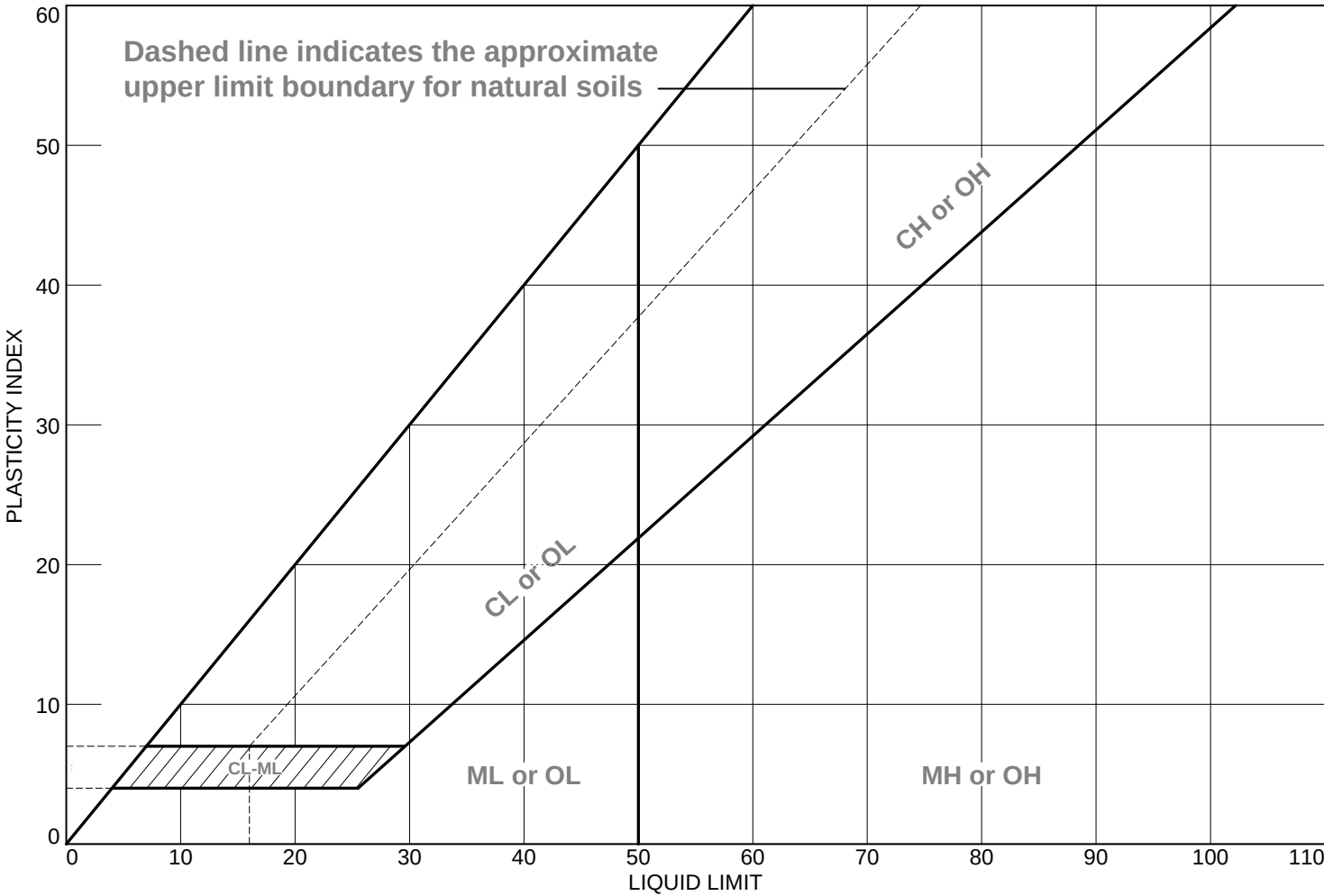
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Figure

Tested By: JLT Checked By: CR

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Test Borings	3465	B1 1-2.5'	23.6	NP	NV	NP	SM
■	Test Borings	3466	B1 3.5-5'	23.3	NP	NV	NP	SM
▲	Test Borings	3467	B2 1-2.5'	27.1	NP	NV	NP	ML
◆	Test Borings	3468	B2 13.5-15'	26.1	NP	NV	NP	ML
▼	Test Borings	3469	B6 1-2.5'	32.4	NP	NV	NP	ML

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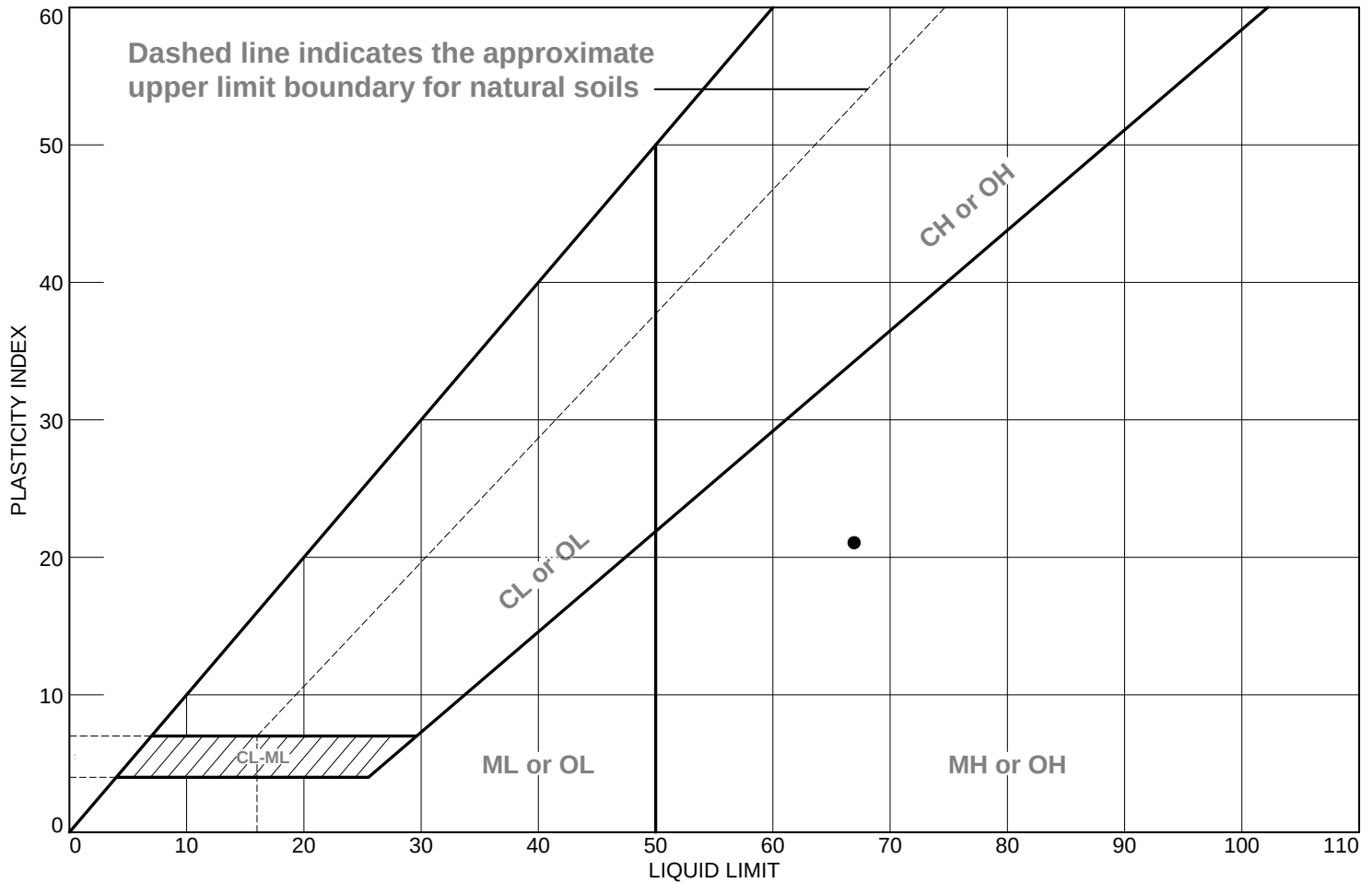
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Figure

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Test Borings	3480	B8 1-2.5'	33.8	46	67	21	MH
■	Test Borings	3481	B10 8.5-10'	6.4	NP	NV	NP	SM
▲	Test Borings	3482	B5 8.5-10'	6.5	NP	NV	NP	SM
◆	Test Borings	3483	B6 18.5-20'	6.7	NP	NV	NP	SM
▼	Test Borings	3484	B8 23.5-25'	8.7	NP	NV	NP	SM

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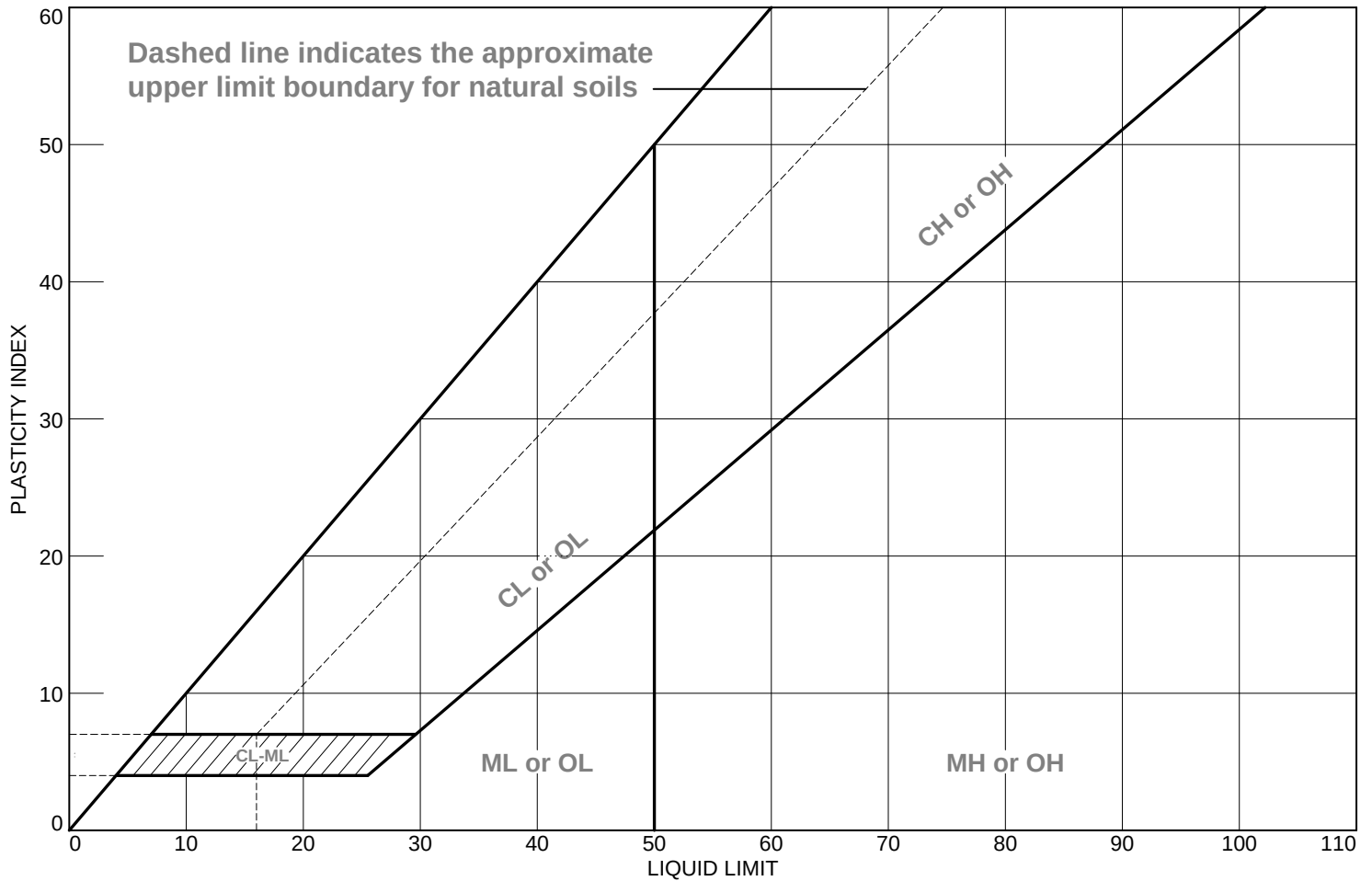
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Figure

Tested By: ○ CR □ JLT △ JLT ◇ JLT ▼ JLT **Checked By:** CR

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	Test Borings	3485	B9 1-2.5'	15.2	NP	NV	NP	SM
■	Test Borings	3486	B9 18.5-20'	9.5	NP	NV	NP	SM
▲	Test Borings	3487	B9 28.5-30'	7.4	NP	NV	NP	SM

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Figure

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