



**FROEHLING & ROBERTSON, INC.**

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October 15, 2015

**Mr. Trapp Harris, PE**  
**Geotechnical Design Engineer**  
**South Carolina Department of Transportation**  
**Design-Build Section**  
**955 Park Street**  
**Columbia, South Carolina 29202**

Reference: Addendum No. 1 - Report of Laboratory Testing  
 US Route 176 over Cannons Creek Bridge Replacement  
 Newberry County, South Carolina  
 F&R Project Number: 65T-0188

Dear Mr. Harris:

Froehling & Robertson, Inc. (F&R) has completed the requested laboratory testing for the above referenced project. Our services were performed in accordance with your verbal request for laboratory testing and your verbal authorization to proceed on October 13, 2015.

**SCOPE**

Soil test boring samples you obtained from Borings B-01 and B-02, performed by others, were provided to us on October 13, 2015 for soil laboratory testing. The scope of laboratory testing consisted of the following:

<b>Boring B-01</b>				
<b>Sample Depth (ft)</b>	<b>Sample No.</b>	<b>Test Assigned</b>		
		<b>Wash No. 200</b>	<b>Atterberg Limits Tests</b>	<b>Natural Moisture Content</b>
13.5-15	SS-6	X	X	X
18.5-23.5	SS-7	X	X	X
28.5-30.0	SS-8	X	-	X

Note: The bag sample SS-7 was marked as 18.5'-20.0' and SS-8 was marked as 23.5'-25.0'



Boring B-02				
Sample Depth	Sample No.	Test Assigned		
		Wash No. 200	Atterberg Limits Tests	Natural Moisture Content
18.5-20	SS-7	X	X	X
23.5-25	SS-8	X	-	X
28.5-30	SS-9	X	-	X
33.5-35	SS-10	X	-	X
38.5-40	SS-11	X	-	X

**LABORATORY TESTING**

The wash No. 200 and natural moisture content tests were performed in accordance with ASTM D1140 and ASTM D 2216, respectively. The Atterberg Limit tests were performed in accordance with ASTM D 4318. The laboratory testing results are presented in Appendix I.

F&R greatly appreciates the opportunity to work with you on this project. If there are any questions concerning this data report or if any additional information is required, please do not hesitate to contact us.

Sincerely,  
**FROEHLING & ROBERTSON, INC.**

  
Benedictus K. Azumah, PE  
Geotechnical Services Manager





# APENDIX I

Laboratory Test Summary Sheet  
Laboratory Test Data Sheets



**FROEHLING & ROBERTSON, INC.**

**LABORATORY TEST SUMMARY SHEET**

**F&R Project No:** 65T-0188  
**Client:** South Carolina Department of Transportation  
**Project:** US Route 176 over Cannons Creek Bridge Replacement  
**City/State:** Newberry County, SC

Boring/Sample No.	Depth (ft)	LL	PL	PI	USCS Classification	Water Content (%)	Percent Passing No. 200 Sieve
B-01	13.5 - 15.0	NP	NP	-	SM	18.9	17.1
B-01	18.5 - 20.0	44	26	18	CL	37.9	78.5
B-01	23.5 - 25.0					32.8	25.4
B-02	18.5 - 20.0	33	21	12	CL	30.0	62.0
B-02	23.5 - 25.0					23.2	13.0
B-02	28.5 - 30.0					27.4	6.2
B-02	33.5 - 35.0					21.2	9.6
B-02	38.5 - 40.0					32.0	16.5

NP: non-plastic

Date: 10/15/15