QUICK REFERENCE

MECHANICALLY STABILIZED EARTH (MSE) WALL AGGREGATE SAMPLING AND TESTING PROCEDURES

 $\underline{https://connect.ncdot.gov/resources/Materials/Materi$

If yes and sample required per table below, RE office and aggregate supplier shall contact the Materials and Tests Unit Aggregate QC/QA Engineer (Chris Whitley) as soon as the aggregate source is known. The initial acceptance sampling for each Do you have an MSE wall on your project? wall will be performed by the Materials and Tests Unit at the quarry per the sampling method described in the procedures.

Is your MSE Wall larger than 3,000 yd³

If yes and sample required per table below, project personnel, certified as NCDOT Aggregate QC/QA Sampling Technicians or as NCDOT Aggregate QC/QA Sampling and Testing Technicians, will take a project verification sample after the first 3,000 yd³ are delivered per the sampling method described in the procedures.

Note: In the rare instance where the wall contains both geosynthetic and steel in the same wall, the scenario resulting in harsher test requirements shall be followed.

		Scenarios					
		Coarse Aggregate				Fine Aggregate	
	Aggregate Source Location		Coastal Plain* Source		l Plain Source	All Sources	
Reinf	Reinforcement / Connector Type		Geosynthetic	Steel	Geosynthetic	Steel	Geosynthetic
Electrochemical	Sample required?	Yes	No	No	No	Yes	No
Electrochemical	Tested For	Table 2	N/A	N/A	N/A	Table 1	N/A
рН	Sample required?	Yes	Yes**	No	Yes**	Yes	Yes
рп	Tested For	Table 3	Table 3	N/A	Table 3	Table 3	Table 3
Physical Testing	Sample needed?	No, however sources must participate in the Department's Aggregate QC/QA Program				No, however sources must participate in the Department's Aggregate QC/QA Program	
	Gradation	57***, 57M***, 67 or 78M				1S, 2S, 2MS, 4S or Class III Type 3	

^{*} Coastal Plain as defined by Sub article 1018-2(B)(1) of the NCDOT Standard Specifications

^{**} Not Common

^{***}Not to be used with geosynthetic