QA/QC-5 (Revised) *12-19-02*

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

WORKSHEET FOR ROADWAY CORE SAMPLE DENSITY DETERMINATION & COMPARISON

PROJECT NUMBER: [1] *TYPE MIX:* [2] *MIN. % COMPACTION REQ.:* [3]

CONTRACTOR: [4] *PLANT LOCATION:* [5]

DATE PLACED	*JMF No.*	*SAMPLE No.*	*SAMPLE THICKNESS*	*DRY WT.*	*SSD WT.*	*IN WATER WT.*	*QA SP. GR.*	*QC SP. GR.*	*TARGET SP. GR.*	*QA %*	*QC %*	*LIMITS OF PRECISION (Y/N)*	** QA/QC TECHNICIAN SIGNATURE*
[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]

NOTE: QC TO FAX CURRENT FORM TO QA DAILY DURING PRODUCTION.

** BY PROVIDING THIS DATA UNDER MY SIGNATURE AND/OR HiCAMS CERTIFICATION NUMBER, I ATTEST TO THE ACCURACY AND VALIDITY OF THE DATA CONTAINED ON THIS FORM AND CERTIFY THAT NO DELIBERATE MISREPRESENTATION OF TEST RESULTS, IN ANY MANNER, HAS OCCURRED.*

QA/QC-5

ROADWAY CORE SAMPLE DENSITY DETERMINATION AND COMPARISON WORKSHEET

GENERAL NOTE: This worksheet is to be completed and maintained on a daily basis by QA/QC personnel when checking percent compaction of density core samples. This worksheet is to be kept on file in the appropriate QC Lab files for minimum of three (3) years after completion. The QA Lab shall maintain its QA/QC-5 forms indefinitely unless permission is given otherwise. Required data is to be transferred to Form QC-5 or QA-5, whichever is applicable. The QC worksheet is to be sent to the appropriate QA Lab daily. When QA personnel are checking percent compaction on comparison cores, verification cores, or retest of QC cores, a copy will be sent to the appropriate QC Lab upon completion.

Note: Report only one type mix per QA/QC-5 Form.

1. Prime project number from which core samples were taken.
2. Type mix being tested for compaction.
3. Minimum % compaction required by the Specifications.
4. Name of Contractor placing mix.
5. Actual location of plant site producing mix.
6. Actual date that mix was placed and compacted.
7. Appropriate JMF number for mix type being placed.
8. Core sample number: Assigned by QC roadway technician if a QC core sample.
   Assigned by QA roadway technician if either a comparison or verification sample.
   (See Section 10 for numbering procedures.)
9. Actual thickness of core sample. (measured to the nearest 1/16")
10. Dry specimen weight to the nearest 0.1 gram.
11. Specimen saturated surface dry weight to the nearest 0.1 gram.
12. Specimen weight suspended in 77 degree water for 3-5 minutes to the nearest 0.1 gram.
13. Actual specific gravity of core sample when tested by QA personnel.
14. Actual specific of core sample when tested by QC personnel.
15. Use the appropriate average density control specific gravity at the end of each day's production until a moving average of four specific gravities is attained. Once a moving average density control specific gravity is attained, the last moving average at end of the day will be used thereafter.
16. Actual QA percent compaction to the nearest 0.1%.
17. Actual QC percent compaction to the nearest 0.1%.
18. Mark "Y" for Yes or "N" for No according to whether or not results are within acceptable limits of precision.
19. Signature of QA or QC Technician performing tests certifying that all data entered on this form is true and correct.