

Colorado Procedure 12A-09

Standard Practice for

Contractor's Hot Mix Asphalt Quality Control Notebook

1. SCOPE

1.1 This Standard describes the best practice to be used when developing appropriate worksheets and forms in a QC notebook.

1.2 The requirements such as, but not limited to: the sample size, specimen size, number of specimens, interpretation of results, reporting significant digits, and precision statements are in the specific test method.

2. GENERAL QC NOTEBOOK REQUIREMENTS

2.1 The following information shall be included on each page of a worksheet or form:

- (1) Project number, code, and location
- (2) Item number and grading
- (3) Supplier's name and address
- (4) Name of the laboratory performing the test
- (5) CDOT Form #43 HMA mix design number
- (6) Date, location, and time the sample was taken or the beginning of the test
- (7) Name of the person taking the sample and performing the test
- (8) Test number
- (9) Quantity of material placed to date at the time of taking the sample
- (10) Type of test performed
- (11) Specification limits
- (12) Remarks area

3. SAMPLE LOCATION WORKSHEET

3.1 The following shall be included on the sample location worksheet:

- (1) Temperature of the mix at the time sampled
- (2) Sampling method (plant, windrow, etc.)

4. PERCENT ASPHALT CEMENT CONTENT WORKSHEET

4.1 When using the asphalt cement content gauge to determine percent asphalt cement in the specimen, the following shall be included on the worksheet:

- (1) Base weight
- (2) HMA sample location or lift
- (3) Test temperature (if applicable)
- (4) Background count
- (5) Measured count
- (6) Gauge measured percent AC
- (7) Percent moisture as determined from Subsection 5.1
- (8) Corrected percent AC
- (9) Dry aggregate count (if applicable)

4.2 When using the ignition oven to determine percent asphalt cement in the specimen, the following shall be included on the worksheet:

- (1) Weight of the baskets
- (2) Weight of each basket and HMA before ignition from both the external and internal scales
- (3) Weight of each basket and HMA after ignition
- (4) Weight of HMA before ignition
- (5) Weight of HMA after ignition
- (6) Lost HMA weight due to ignition
- (7) Percent uncorrected AC in HMA
- (8) Asphalt correction factor
- (9) Corrected percent AC

5. PERCENT MOISTURE WORKSHEET

5.1 When determining the percent moisture in a HMA specimen, the following shall be included on the worksheet:

- (1) Weight of the tare (if applicable)
- (2) Wet and dry weights of the specimen
- (3) Weight of lost moisture
- (4) Percent moisture