

**OHD L-5
METHODS OF
SAMPLING BITUMINOUS MATERIAL**

- I. **SCOPE.** These methods apply to the sampling of liquid bituminous materials at the receiving point, project site, or mixing plant.
- II. **PURPOSE.** Random samples of materials that have been approved at source to check uniformity of production and possible contamination by handling and/or storage.
- III. **TIME AND PLACE.**
 - A. **Truck Transports.** At time of unloading.
 - B. **Storage Tanks.** Preferably during circulation at or near working temperature.
 - C. **Mixing Plant.** During circulation at working temperature.
- IV. **SIZE OF SAMPLE.** Approximately $\frac{2}{3}$ quart (650 ml).
- V. **CONTAINERS.** Approximately one quart friction lid cans.
- VI. **PROTECTION AND PRESERVATION OF SAMPLES.**
 - A. Care shall be taken that the samples are not contaminated with dirt, cleaning solvents, or other extraneous matter and that the sample containers are perfectly clean and dry before filling.
 - B. Immediately after filling, the sample containers shall be tightly closed and properly marked for identification (include SiteManager Sample ID) on the container itself or on a shipping tag attached to the container. When necessary to clean outside of container after filling, use only a clean dry rag.
 - C. Create sample record in SiteManager for proper documentation, prior to delivering sample to Materials Division Laboratory.
 - D. Samples of emulsions will not be taken during freezing temperatures and shall be packaged to protect from freezing during shipment.
NOTE: These samples shall be taken in one quart (1 Liter) plastic containers.
 - D. Samples shall be shipped or delivered promptly to the Materials Division laboratory. (Any delay in shipment defeats the purpose of the sample.)
- VII. **SAMPLING.**
 - A. **Truck Transports.** Sample to be taken by means of a sampling valve ($\frac{3}{8}$ inch to $\frac{1}{2}$ inch) located in the discharge or unloading line during the unloading of the approximate middle one-third of the load. The first flow through the sampling valve of one or two gallons shall be wasted after which the sample shall be drawn directly into the sample containers.
 - B. **Mixing Plant.** Sample to be taken from a sampling tap, complying with the requirements of ASTM D 140, located in the bituminous feed lines connecting

the storage tanks to the bituminous control unit. The first flow from the sampling valve of one or two gallons to be wasted after which the sample shall be drawn directly into the sample container.

- C. **Storage Tank.** Sample taken during the circulation of tank contents. Sampling procedure is the same as Section VII. B.
- D. **Storage Tank.** If circulation is not in operation at the time of sampling, obtain sample by means of weighted bottle or other suitable sample thief. Quickly lower sample thief to near bottom of tank and withdraw at a rate of speed so that the sample thief is not completely filled when removed. Sample thief should be cleaned each time it is used and dipped two or three times in the material being sampled before taking the sample. Immediately after taking, pour sample from sample thief directly into sample containers.

Revision Date	Revision Description
5/9/11	Changed Section VII. B. wording to be similar to that in AASHTO M 156 Section 4.2.4. Added new Section VI. C. about sample documentation requirement in SiteManager. Added SiteManager sample ID reference to Section VI. B.