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SECTION 1 – INTRODUCTION

1.1 Check the Quality Monitoring (QM) lab number to make sure it's current (not expired), using SiteManager or LIMS Flyover.

**Note 1**—A QM lab number is an MTD lab number for certifying a certain material grade from a certain supplier for a specific period (a calendar month for an example.) The lab number format is CXX37YYYY, where XX is the current calendar year and YYYY is the numerical number of the sample. The QM lab number SM ID follows the following format QM301CXX37YYYY. Example: MTD lab number C20375555, SM ID will be QM301C20375555.

1.2 Take samples once per day or lot. Select proper sample containers (Section 4.1) and label the containers with proper information. At least one sample, per project, is sent to MTD while additional daily storage samples are stored.

1.2.1 The Department should maintain the custody of the samples at all times.

1.3 Log the samples, sent to MTD, in SiteManager and be sure to include all required information. Bar code and ship the samples to MTD.

1.4 Associate stored samples to the project and send in stored samples when needed.

1.5 Contact MTD- Asphalt Binder Branch Personnel for any questions regarding this guide or binder testing in general.

- Branch Manager: Pravat Karki, P.E ([Pravat.Karki@txdot.gov](mailto:Pravat.Karki@txdot.gov), 512-506-5242)
- Lab Engineer: Mohammad Ilias, P.E ([Mohammad.Ilias@txdot.gov](mailto:Mohammad.Ilias@txdot.gov), 512-705-1911)
- Lab Engineer: Sandeep Pandey, P.E ([Sandeep.Pandey@txdot.gov](mailto:Sandeep.Pandey@txdot.gov), 512-506-5931)
- Lab Engineering Assistant: Zahra Sotoodeh Nia, E.I.T. ([Zahra.Sotoodehnia@txdot.gov](mailto:Zahra.Sotoodehnia@txdot.gov), 512-506-5803)
- Chemist: Aruna Annepu ([Aruna.Annepu@txdot.gov](mailto:Aruna.Annepu@txdot.gov))
SECTION 2 – CHECKING THE QM LAB NUMBER

2.1. Verify the lab number, assigned by MTD on the ticket from the transport, is current by comparing the lab number on the ticket with the lab number listed in SiteManager (Section 2.4) or LIMS Flyover (Section 2.5).

2.2. If the lab number from MTD is not current (has expired), an advanced lab number has not been issued, or if the lab number does not match (e.g. producer or grade does not match the shipping ticket), reject the load.

2.2.1. On rare occasions, MTD may issue an “Advance” lab number, which is approval for the material given in advance of MTD’s complete testing. In this case, the lab number on the shipping ticket may not yet be in SiteManager, but will be in LIMS Flyover.

2.2.2. Once the lab number has been found in LIMS Flyover, double click on it.

2.2.3. On the screen showing the sample details, look for the “Advance Lab#” check box. A check here indicates that this is an advanced lab number.

2.2.4. If necessary, contact MTD regarding the status and estimated completion time for the sample.

2.3. Record the lab number, producer, grade, and effective dates for future quick reference.

Note 2—The lab numbers are usually valid for a calendar month, so it will likely be used repeatedly on a given project. Having a list on hand of previously verified numbers makes it easy to verify more loads when they arrive with the same number.
2.4. Verifying the lab number using SiteManager.

2.4.1. Log in to SiteManager and double click on “Materials Management,” then “XiteManager.”

2.4.2. Double click on “Assistant.”

2.4.3. Select the following information:
- the type of asphalt used on the project (Example: “ASPH CEMENT”) under “Material Category,”
- the grade of asphalt (Example: “AC-20-5TR”) under “Material Name,” and
- the producer name (Example: “WRIGHT ASPHALT—BROWNWOOD, TX”) under “Producer Name.”
2.4.4. If you have trouble finding the lab number through this method, or you do not know some of the information, type in the SiteManager ID under “Sample ID.” The SiteManager ID will be “QM301” followed by the lab number from the shipping ticket. (Example: QM301C19370863)

2.4.5. Find the SiteManager ID that matches the lab number from the shipping ticket (the SiteManager ID will start with “QM301” followed by the lab number) and check to make sure the date of the shipment is within the valid dates for the SiteManager ID. (Example: QM301C19370863 with valid dates from April 1, 2019 to April 30, 2019)

2.5. Verifying the QM lab number using LIMS Flyover.

2.5.1. Use Citrix or SiteManager Terminal Server to access:
- Log in to Terminal Server and select “Additional Apps” from the Launch pad. Then double click “LIMS Flyover Database,” or
- Log in to MyCitrix (mycitrix.txdot.gov) and select “Apps” at the top of the screen. Then double click “LIMS Flyover.”
2.5.2. In the Flyover Application, select “Lab Number” as the filter column and type in the lab number. (No “QM301” for this application; just the “C” number). Make sure that the upper right drop down menu is set to Statewide not your District.
SECTION 3 – SAMPLING FREQUENCIES

3.1. Collect, or witness collection of, one sample, per day or per lot from the project, in accordance with Tex-500-C. Additional instructions for sampling and labelling are in the next section.

3.2. Submit at least one sample of each grade and source, per project to MTD for testing, in accordance with the DBB Guide Schedule. Instructions for creating the sample in SiteManager and preparing it for shipping are in Section 5.

3.3. Log and label the rest of the samples for storage. Instructions for this process are in Section 6.

Note 3—Samples should be collected after the first load is shot through the distributor to obtain a representative sample.
SECTION 4 – SAMPLING PROCESS

4.1. Use a new, clean unlined 1-quart can for hot applied asphalt and cutbacks, or a wide mouth plastic jar for emulsions. The Department will furnish all sampling containers, unless otherwise specified in the Contract.

In case of A-R binders, a sample consists of 2 quart cans; i.e., 2 quart cans of A-R binder should be sent to MTD for testing and 2 quart cans of A-R binder need to be stored, for each storage sample, in the District.

4.2. Collect samples at the frequency in accordance with the Specification and as outlined in Tex-500-C with witness by the Engineer.

4.3. Mark the samples with the producer, producer facility location, grade, District, date sampled, and project information including highway and CSJ.
4.4. Allow sample to cool before placing lid on the sample. After cooling, seal the container with the lid.

4.5. If sample is to be sent in to MTD for testing, proceed to Section 5.

4.6. If sample is not being sent to MTD, proceed to Section 6.
SECTION 5 – LOGGING AND LABELING SAMPLES FOR SUBMISSION TO MTD

5.1. Log in to SiteManager and double click on “Materials Management,” then “Sampling and Testing,” and finally “Sample Information.”

5.2. Enter the following required information, as a minimum, on the “Basic Sample Data” tab:
- sample type (should almost always be “Project Test” for project samples),
- material code,
- sampler,
- producer or supplier,
- Bill of Lading (BOL) number in the “Intd Use” field,
- sample date, and
- the “Smpl ID” field should be automatically populated.
Then save the sample and proceed to the “Addtl Sample Data” tab.

5.3. Enter the QM sample number (the “C” number from the asphalt lab) into the “Seal Number” field. Enter the location of sampling into the “Sampled From” field (Transport Sampling Port, Storage Tank Sampling Port, Distributor Sampling Port, Plant Load Rack, etc.)

Then save the data and go to the “Contract” tab.

5.4. Click on the “New” icon in the button bar and then type in the CCSJ to find the Contract information. Select OK.
5.5. The Contract information should now be shown in the “Contract” tab.

Save and proceed to the “Other” tab if the sample is diluted, otherwise proceed to “Tests” tab, and skip Section 5.6.

5.6. If the sample is diluted, select “DILUTED” from the Type dropdown menu.

Save and proceed to the “Tests” tab.

5.7. Enter the following information:
- “TXTRASPH” as the test method,
- “46810001” as the Lab ID,
- any short descriptor or a number in the “Test Nbr” field, and
- the sample date in the “Started” field.

Then save.
Note 4—The information entered in steps 5.2-5.7 should not be changed after the material is shipped to MTD. Asphalt LIMS will capture SM fields when the sample is entered into LIMS and will not automatically update afterward.

Note 5—The date in the “Started” field cannot precede the sample date in the “Basic Sample Data” tab. Furthermore, the sample date should match the date on the BOL which will allow for picking the supplier for the material grade based on available QM lab number.

5.8. Generate and print out Form 202 by selecting “Services” ⇒ “Lab Report” ⇒ “Print Form 202” from the menu. Print a hard copy of the Form 202.

Note 6—If a grade dump was utilized for a PG sample, the 202 must clearly identify the grade dump/substitution. For example, if PG64-22 was used in lieu of PG70-22 a comment in the REMARKS/COMMENTS/SPECIAL INSTRUCTIONS section of the 202 should be added as shown below.

![REMARKS / COMMENTS / SPECIAL INSTRUCTIONS](image)

Please test supplied can of PG 64-22 for Item 300 conformance.

This project utilized binder substitution for PG 70-22.

5.9. Print out 4 barcode labels for each sample. Affix two of them to the sample containers and one to the printed 202 form. Instructions for generating and printing the barcodes are in Section 7.

5.10. Place the samples in the shipping box along with a copy of the Form 202. Attach a bar code label for each sample to the outside of the box.

Note 7—Do not include any other materials (e.g. aggregates, HMA, etc.) in the same box used for shipping asphalt samples.

Note 8—Use crumpled newspaper as packing material in the box. Avoid packing materials such as packing peanuts, shredded paper, etc.

5.11. **If the district chooses to document the shipping tracking number in SiteManager, obtain the FedEx, or other shipping tracking number, and add it to the “Intd Use” field. Do not delete the BOL number. If the District uses the “Intd Use” field for other project related information, and**
there is not enough space to add the tracking number, the tracking number can be typed in the Remarks “bubble”.

NOTE 9 — Information listed in the “Intd Use” field is transferred to LIMS and becomes part of the test report generated by MTD and shared with the Districts and Suppliers as appropriate. Including the BOL number in this field is required for all project samples.

5.12. Ship the sample, within three days of collection, to the following address:
Texas Department of Transportation
Materials and Tests Division/Asphalt Binder Lab
Cedar Park Campus, Building 51
9500 N Lake Creek Parkway
Austin, TX 78717

5.13. MTD will email test reports to the District and the asphalt supplier. The District should forward all test reports to the Contractor and material suppliers. Failing test reports should be shared with the Contractor and material suppliers immediately after becoming aware of the report.

5.14. A justification is required for acceptance of failing project samples, and should be documented in SiteManager within 30 days of the binder being used on the project in accordance with the Material Inspection Guide (https://ftp.txdot.gov/pub/txdot/mtd/mig.pdf). The justification can be added by accessing the Remarks bubble in the “Basic Sample Data” tab (Section 5.2). If more time is needed to authorize the sample, the District should add the justification for the additional time and an anticipated timeframe for authorizing the sample in the Remarks bubble of the “Basic Sample Data” tab.
maintain sample information
SECTION 6 – LOGGING SAMPLES FOR STORAGE

6.1. Transport the samples to the designated storage area in the District laboratory, area office, or other Department location approved by the District laboratory.

6.2. In SiteManager, associate the sample with the QM sample and project and document the number of transports received for each day. Follow the instructions in Section 8 to associate the sample. In case of A-R binder:
   • associate the sample to the base binder used to produce the A-R binder; and
   • in the Remarks section, indicate this is an A-R binder.

6.3. Write the new SiteManager ID on the side of the sample.

6.4. Optional: Print out 2 bar codes of the new SiteManager ID, provided by the Assistant, for the sample. To do this, follow the instructions in Section 7.

6.5. Store the samples in a designated area as discussed in Section 6.1 for one year of hot-applied binders or for 2 months for emulsified asphalts. Organize the samples by sample date and project.

Note 10—MTD may request these samples for additional testing later (Section 9).

Note 11—Disposal and recycling options of asphalt samples:
Asphalt binder: solid at room temperature. Based on industry and academic studies, asphaltic highway pavements do not leach hazardous materials into the environment at levels that would be of environmental concern; therefore, solid samples of asphalt binder may be disposed as non-hazardous municipal solid waste. Disposal of the samples in relatively small quantities at a time, along with other dumpster waste from the facility, would be appropriate. Alternately, if MTD or the District deems the material suitable, any opportunities for reuse of the samples as recycled asphalt should be considered.

Emulsions: liquid. While asphalt emulsions are generally considered a non-hazardous waste, many landfills are prohibited from receiving liquid wastes in any significant quantity; therefore, these wastes will need to be accumulated and disposed separately. The liquid waste should be characterized based on the Safety Data Sheet information or testing and disposed appropriately. A waste recycling or disposal company (such as Safety-Kleen or similar provider) should be able to collect the material under a recycling program. Contact ENV Division for assistance with waste characterization and disposal options, as needed.

Emulsions: solid if the material “broke.” Disposal as non-hazardous municipal waste is appropriate for small quantities of solidified asphalt materials. See “Asphalt binder” above for disposal guidance.

Cutbacks. Contact MTD for disposal of cutbacks.
SECTION 7 – LABELING THE CONTAINERS WITH BARCODES

7.1. Open the P-touch software and select “New Layout.”

7.2. Select the “Barcode” Option.

7.3. Copy and paste the SiteManager ID into the “Data” box and ensure bar code option “Code 128” is selected. (If “Code 128” is not selected, click on the “Protocol” and select it.)

**Note 12**—It is possible to change the size of the bar code label by dragging the corners of the box where it’s shown. If any resizing is necessary, make sure the bar code itself is 3/4 in. to 1 in. high and 4 in. to 4-1/2 in. long.
7.4. Print 4 copies of the bar code.

7.5. Attach 2 bar codes to the sides of the container in the vertical orientation.
7.6. Attach a barcode to the sample 202 printed form.
7.7. Save the last bar code label for the outside of the shipping container.
SECTION 8 – ASSOCIATING SAMPLES TO PROJECTS

8.1. Follow the process described in Section 2.4 to find the QM sample using SiteManager.

8.2. Double click on the QM sample to select it.

8.3. On the sample detail screen, click “Copy.”

8.4. In the window that comes up, do one of the following:
   - Select the “CCSJ” button and type in the CCSJ number (the dropdown list may begin to populate once you get part of the CCSJ in) or
   - Select the “District” button and pick your District or area from the dropdown.

Then click on “Get Contract” or “Find Contract.”
8.5. Select the correct project from the upper window, and the material line item from the lower window.

8.6. Check the “Add Remarks” box.

8.7. Click on “Build Sample.”

8.8. A box will pop up for you to enter remarks. For stored samples, enter the sample date in the following format MM-DD-YYYY, followed by “Daily Sample for Storage,” and a minimal description. Then click “OK.” For example:
For associating QM number to a project, enter the sample date in the following format MM-DD-YYYY, followed by "Associating QM number with the project." Then click "OK." For example:

8.9. Write down the new SiteManager ID provided.
SECTION 9 – REACTIVATING STORED SAMPLES AND SUBMITTING TO MTD

9.1. Find the SiteManager ID of the sample to be submitted. This is easily done by reading it from the side of the sample.

9.2. Log in to SiteManager and double click on “Materials Management,” then “Sampling and Testing,” and finally “Sample Information.”

9.3. Enter the SiteManager ID in the “Smpl ID” field and press ENTER or TAB. This should bring up the sample information.

9.4. Select “Services” ⇒ “Copy Sample” ⇒ “Without Test Results” from the menu.

9.5. Copy or write down the new SiteManager ID.

9.6. Click on the “Tests” tab and follow the instructions for logging and shipping a sample, beginning with Section 5.7. through 5.12.

9.6.1. Make sure to place the new barcode labels, so that they cover the old ones completely.

9.6.2. Mark out the old SiteManager ID and write the new one on the sample.
SECTION 10 – ADDRESSING FAILING PROJECT SAMPLES

10.1. The following resources are available for Districts to utilize if a project sample fails. Districts are encouraged to explore all available resources as necessary when making a decision to accept or reject materials.

- **Dashboard:** Asphalt binder test results summary dashboard (https://www.txdot.gov/inside-txdot/division/materials-and-tests/asphalt-binder.html) provides an overall summary of all samples tested organized by supplier, material grade, date sampled, date tested, batch, reference sample, and a pass/fail indicator. This dashboard is ideally used to look at a specific supplier performance of a material grade over a specific period of time for project and/or monthly samples.

  Test Results Summary

<table>
<thead>
<tr>
<th>Mat Grade</th>
<th>Date Sampled</th>
<th>F</th>
<th>Date Tested</th>
<th>Batch</th>
<th>Ref Sample</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-20-STR</td>
<td>September 25, 2020</td>
<td>Project</td>
<td>C20374052</td>
<td>Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>September 23, 2020</td>
<td>Project</td>
<td>C20374053</td>
<td>Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>August 21, 2020</td>
<td>Project</td>
<td>C20374112</td>
<td>Fail</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>August 18, 2020</td>
<td>Project</td>
<td>C20374113</td>
<td>Fail</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>August 7, 2020</td>
<td>Project</td>
<td>C20373832</td>
<td>Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>August 6, 2020</td>
<td>Project</td>
<td>C20374149</td>
<td>Pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>August 5, 2020</td>
<td>Project</td>
<td>C20374055</td>
<td>Pass</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **LIMS Flyover:** Using the “Ref Sample” number from the asphalt binder results summary dashboard, Districts can access the testing results for other project or monthly samples to compare to failing sample results.

- **Storage samples:** Districts can reactivate storage samples (Section 9) from same project or other projects in the district that used the same binder grade and supplier (Section 6) and send these samples to MTD for testing. This process can help the district identify if the issue is an isolated issue or if its spread across the project and the district.

- **QM Sample Number:** Following the steps for checking QM sample number (Section 2.4.1-5), locate the QM number associated with the failing sample. Double click on the QM number and navigate to the Linked Samples sheet. The tab will show all storage samples linked to the QM number from all TxDOT projects. Districts can request samples from other districts to be reactivated and shipped to MTD for testing.
• **SM Query**: Finally, a detailed SM query is available to locate all samples with Item 300 Material Code (https://tntoday.dot.state.tx.us/cst/cmsd/Documents/Reports/ASPHALT%20SAMPLES.xlsm). This query will list all MTD tested samples and District stored samples and includes several details such as District information, Area Office, SM ID, CCSJ, Material Grade, Supplier, Seal Number, Stamp Code, among many others. The “Seal Number – Column T” can be filtered to find all tested samples associated with a specific QM lab number.

stored samples can be located by filtering “Intended Use – Column S” to “ASSISTANT COPIED QM SAMPLE” only, and filtering to a certain producer and material grade. The Remarks column can then be examined for the specific project dates.

10.2. Districts are encouraged to reach out to MTD Asphalt Binder Branch (Section 1.5.) for any questions or support needed in utilizing any of the resources discussed in this section.
SECTION 11 – TRIAL OF NEW MATERIALS IN PROJECTS

11.1. Trying new materials (i.e., materials that are not included in any Material Product List or under current specifications including but not limited to Item 300, “Asphalts, Oils, and Emulsions”) in any project should be coordinated with MTD. This coordination will include:

- sharing of specification and safety data sheet (SDS) of the new material proposed by the supplier to MTD by or through the District;
- review and revision of the specification by MTD; and
- approval of the use of the material in trial sections by the District.

11.2. Before the use of the new material in trial sections, a sample of the new material should be submitted to MTD and meet the requirements proposed by the producer.

11.3. Collect, or witness collection of, one sample, per day or per lot from the project, in accordance with Tex-500-C.

11.4. Since the SiteManager would not have a material code of such materials, District will manually fill out the Form 202, “Identification of Material Samples” and, as a minimum, include the following information:

- contact name and telephone number of the sampler;
- location and highway of the project;
- CSJ number for the project, if available;
- sample date;
- product name (i.e., the name proposed by the supplier and approved by MTD);
- the name of the supplier or producer including their location;
- material type in the Remark section: indicate “Trial of New Product for Project;”
- BOL, if available, in the Remark section; and
- the FedEx, or other shipping tracking number in the Remarks section (optional).

11.5. Submit at least one sample of each grade and source, per project to MTD for testing, in accordance with the DBB Guide Schedule.

11.6. Prepare the sample for shipping according to Section 5.

11.7. MTD will test the material and stamp them as passing or failing based on test reports. MTD will email the test reports to the District and the material suppliers. The District should forward all test reports to the Contractor and material suppliers. Failing test reports should be shared with the Contractor and material suppliers immediately after becoming aware of the report.

11.8. Log and label the rest of the samples for storage. Instructions for this process are in Section 6.
**Note 13**—Samples should be collected after the first load is shot through the distributor to obtain a representative sample.

11.9. District should provide MTD the information related to the construction and performance of the new material in a timely manner and as requested by MTD.
SECTION 12 – FREQUENTLY ASKED QUESTIONS

12.1. Q: Does a sample need to be taken and logged into Site Manager for Exempt mix?

A: If the mix is tested, then yes one sample per day, per source, per grade, per project will need to be collected. If less than 100 tons are produced, then a sample will not need to be taken since no testing is required.

12.2. Q: Does a sample need to be taken and logged into Site Manager for Item 340?

A: Yes, as long as testing is required, and it is required for Items 341, 342, 344, 346, 347, and 348 and for SS3076 and SS3077. All seal coat projects as well.

12.3. Q: Do we need to take one sample per individual project if the same asphalt is coming from the same producer on the same day? For example, we may have 5 different projects (CSJs) that are using the same mix/oil from the same producer/manufacturer on a given day.

A: Yes, since its one sample per day, per source, per grade, and per project.

12.4. Q: What guidance can you provide to us on where we are supposed to store and dispose of all these samples?

A: The room needs to be climate controlled, all Department offices and labs are climate control and suitable for storage purposes. Refer to Section 6.5 for disposal options

12.5. Q: Who is responsible for providing sample containers?

A: Unless it’s part of the Contract that the Contractor or CEI is responsible for providing sampling containers, the District will provide the required sample containers.

12.6. Q: Do I need to sample daily for 8000 series materials?

A: No, daily storage samples are not required for 8000 series. Additionally, project testing is not required unless requested by the Engineer.

12.7. Q: Do I need to sample daily for tack coat?

A: No, daily storage samples are not required tack coat. However, a minimum on sample for project testing is required.
12.8. Q: I feel that a barcode on the sample is good enough; do I still need to attach a 202 and label the can?

A: A barcode by itself is not enough. The sample should be labeled with all relevant details as discussed in this guidance document, in addition to being labeled with a barcode. Below is an example of a stick-on label that can be printed with a label marker. Email MTD_Ashphalt@txdot.gov for a copy of the editable PDF file.

Brownwood District - Asphalt Sample

Producer: ____________________________
Producer Location: ______________________
Producer Cert. #: ______________________
CSJ: ________________________________
Highway: ______________________________
Station: ______________________________
Asphalt Type: __________________________
Date Sampled: __________________________
Sampled by: ____________________________
Stitemanager ID: ________________________

12.9. Q: Can a Department representative, CEI for example, collect and store the daily storage samples?

A: It’s recommended that the Department has direct oversight of the samples at all times. This includes the District storing the samples at designated Department facilities or in field labs secured by the Department. However, the District could choose to use an external entity representing the Department to augment its operations. If a District decides to have a CEI firm store samples, it is the District’s responsibility to ensure the scope of these services are well defined in terms of location, quality, security, environment, and documentation. The District should also have an established procedure to track these samples.

12.10. Q: Can I use a Contract to test project samples?

A: No, all project samples should be mailed to MTD for testing.
12.11. Q: What questions should I expect from asphalt binder suppliers regarding project samples?

A: The following is list of questions/information typically asked/requested by the suppliers:
1. Where was the sample pulled from?
2. Was the sampling witnessed by the Department?
3. Was the Department personnel witnessing the sample certified?
4. What was the chain of custody?
5. Where and how was the sample stored?
6. Contractor’s name and location.
7. Shipment BOL information.
8. Was the correct sample container used?
9. For sealcoat: was the sample collected after the first load completely shot?

12.12. Q: What should I expect when a diluted emulsion is called for in the Contract, or Nanotac is used in TRAIL applications?

A: Diluting an emulsion will impact Saybolt viscosity and the distillation residue. The Saybolt viscosity will typically be lower than the minimum limit, while the distillation residue will depend on the dilution rate. For example, current Nanotac manufacturer recommendation calls for diluting the emulsion 1:1, in this case the distillation residue should be half the specification distillation residue for the specific emulsion grade. A CSS-1H distillation residue specification is minimum 60%, when diluted at 1:1 ratio the distillation residue should be at least 30%. Diluting the emulsion should not impact testing on the distillation residue itself (penetration, absolute viscosity, etc.)

12.13. Q: What is the certification requirement for sampling asphalt binder at the plant or on the roadway?

A: All inspectors witnessing the sampling of asphalt, emulsion, and cutback samples are required to be certified in Tex-500-C, “Sampling Bituminous Materials, Pre-Molded Joint Fillers, and Joint Sealers.” This certification is covered in TxAPA’s Level 1A and Level 1B certification program. If your employee or representative is not Level 1A/1B certified and witnesses the sampling of asphalt binders, please coordinate with your District laboratory supervisor for scheduling a certification exam and observation through the Department internal quality assurance certification program.

12.14. Q: Is the FedEx tracking number required to be documented in SiteManager?

A: No, although Districts may use the “Intd Use” or “Remarks” fields within the SiteManager sample to record the shipping tracking number.