STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

# SAMPLE SUBMITTAL FORM - PROGRAM

675-050-4B
MATERIALS
06/23

MAC Spec Material Id: ***1***

## *SAMPLE INFORMATION*

Sample Level: ***2*** Category /Type: ***3***

Sample Purpose: ***4***

Sample Source – Select one of the following: ☐ Mine ☐ Roadway/RAP ☐ Other

Production Facility Id: ***6*** Source Production Facility Id: ***7***

Mix Design: ***8***

Additional Mix Designs: ***9*** ***9*** ***9***

Contract /Project Id(s): ***10***

APL Product: ***11*** Sampled By: ***12***

Date Sample Taken: ***13*** Higher Class In Lieu Of Lower Class: Yes ☐ No ☐ ***14***

Lower Class: ***15***

FDOT Sample Number: ***16***

Quantity Represented: ***17*** Unit of Measure: ***18***

Batch #: ***19*** Batch No/Delivery Ticket No: ***20*** Heat/Coil No.: ***21***

LOT #: ***22*** Intended Use: ***23***

Point of Sampling – Select one of the following: ***24***

☐ Barge ☐ Belt ☐ Contractor Tank ☐ Rack Blending Line ☐ Roadway ☐ Railroad Car
☐ Silo ☐ Stockpile ☐ Tanker ☐ Terminal ☐ Transport ☐ Pavement

Sample Type – Select one of the following: ***25***

☐ Approval ☐ At Source ☐ Point-of-Use Plant ☐ Split

Bridge #: ***26*** LOTS Represented: ***27***

Testing Lab: ***28***

## *CONTACT*

Contact Name: ***29***

Contact Office Phone Number: ***30*** Contact Cell Phone Number: ***31***

Contact Email: ***32***

## *COMMENTS*

***33***

## *CONCRETE PLASTIC PROPERTIES*

All test by the Same Technician? – Select One: ☐ Yes ☐ No (if No, provide TIN below for each test) ***34***

Tested by: ***35*** Date Tests Performed: ***36***

Slump: ***37*** (in) Tested By: ***38***

Air Meter – Select one: ☐ Pressure Meter ☐ Roll-A-Meter ***39***

Air Content: ***40*** (%) Tested By: ***41***

Temperature: ***42*** (degrees F) Tested By: ***43***

W/CM Ratio: ***44*** Tested By: ***45***

Relative Viscosity ***46*** Tested By: ***47***

Visual Stability Index ***48*** Tested By: ***49***

# SAMPLE SUBMITTAL FORM - PROGRAM

Not all fields apply to every sample. The instruction sheet represents the most common fields. Some fields may appear on the login screen that are not in the form. If there is information the user logging the sample into MAC needs that is not on this form, include it in the comments section. These instructions are for a program sample. For project samples, see the Project Sample Submittal form (675-050-4A).

1. Mac Spec/Material Id – The Material Id for the sample; for example, 346 – Structural Portland Cement Concrete.

2. Sample Level – This is the sample level; for example QC for a quality control sample or VT for a verification sample.
3. Category/Type – This is a combination of the MAC Spec Material Id category and Material Id type. A category is a subdivision of the MAC SPEC that describes the sample. A type is a subdivision of a category on the MAC Spec that further describes the sample. Not all MAC Specs have types. If a MAC Spec does not have types, enter just the MAC Spec category. If the MAC Spec has categories and types, enter the category and Type.
4. Sample Purpose – A sample purpose is used when the category and type do not provide enough subdivision of a MAC Spec to assign the appropriate tests on a sample. Not all MAC Specs have sample purpose.

5. Sample Source – This is the place the sample was taken.

6. Production Facility Id – This is the FDOT Facility Id where the material was produced or sample; for example, the production facility id of the structural concrete production facility where a cement sample was taken.
7. Source Production Facility Id – This is the FDOT Facility Id where the material of the sample originated; for example, the cement production facility id for the cement sampled from a structural concrete production facility.
8. Mix Design – This is the FDOT asphalt or structural concrete mix design number used to produce the sample material.
9. Additional Mix Designs – These are the FDOT structural concrete mix design numbers that also represent the sample in addition to the mix design of the sample. This applies to chloride samples from structural concrete production facilities.
10. Contract/Project Id(s) – This is the FDOT Contract Number or Financial Project Ids. A program sample can represent more than one contract.
11. This is the specific APL product of the material the sample represents. Some APL products have more than one number. Select the combination of product and APL number that represents the application.
12. Sampled By – This field is formatted for an FDOT Technician Identification Number (TIN) if the sample requires a qualified sampler. The technician's name or TIN can be supplied as MAC allows for searching by either method. If the field is for a sample that does not require a qualified sampler, only the name of the sampler needs to be given.
13. Date Sample Taken – This is the date the sample was taken.
14. Higher Class In Lieu Of Lower Class Yes/No – For structural concrete samples, if a higher class was used in lieu of a lower class of concrete select yes. Otherwise, select no.
15. Lower Class – This is the lower class of concrete that the higher class was used in lieu of; for example, if Class IV/Conventional concrete was used in lieu of Class II/Conventional, enter Class II/Conventional.
16. FDOT Sample Number – This is the designated FDOT Sample Number if the material has a sample numbering system, such as asphalt or structural concrete. For materials not requiring a sample numbering system, the FDOT Sample Number can be any number that assists the project personnel in tracking individual samples. This field is not a unique identifier. Duplicate FDOT Sample Numbers are permitted by the system. Use caution when designating the FDOT Sample Number if the material's sample numbering system does not allow duplicate entries.
17. Quantity Represented – This is the amount of material that the sample represents. It is designated along with the Unit of Measure field. For example, if a sample represents 500 tons of material, designate the Quantity Represented as 500 and designate tons the Unit of Measure field (#18).
18. Unit of Measure – See #17.
19. Batch # – for manufactured products, enter the manufacturer's batch number.
20. Batch/ Delivery Ticket # – This is the delivery ticket number for a batch (load) of structural concrete.
21. Heat/Coil No. – This is the heat number for metal items such as reinforcing steel, pretensioning and post-tensing cable or weld wire reinforcement. In addition wire strand has a coil number for further identification. In cases where both numbers are identified on the material, both should be indicated on the sample.
22. LOT # – This is the FDOT LOT number as defined by the Specification definition of a lot.
23. Intended Use – Designate the use of the material represented by the sample; for example, bridge superstructure.

24. Point of Sampling – Some samples have a designated specific point of sampling. In some cases, this information triggers other functionality in MAC. Select the appropriate option.
25. Sample Type – this is the type of sample based on the designations in the Aggregate Control Program; for example, At Source for a sample that is not an approval sample and was taken at the aggregate production facility.
26. Bridge # – This is to designate if the sample was used in an FDOT bridge.
27. LOTs Represented – If the sample represents multiple lots, indicate the lots represented by the sample: for example if a sample represents lots 1 through 8, designate this field as 1-8.
28. Testing Lab – this is FDOT laboratory identifier of the lab that will be receiving the sample and performing the testing.

## ***CONTACT INFORMATION***

29. Contact Name – This is the name of the person the laboratory receiving the sample can contact if there are questions about the sample. This may or may not be the same person that took the sample. It should be someone with knowledge of the sample and testing requirements who can respond to the laboratory.
30. Office Phone # – This is the office phone number of the contact person.
31. Cell Phone # – This is the cell phone number of the contact person.
***NOTE***: Only one of these needs to be provided.
32. Contact Email – This is an email address of the contact person in case the laboratory needs to email the contact.

## ***COMMENTS***

33. Comments – This section is used to provide additional information on the sample that the sampler deems necessary.

## ***CONCRETE PLASTIC PROPERTIES RESULTS***

***NOTE***: Concrete samples and tests can be direct data entry in the field if the technician has MAC access, a device with internet connections and the appropriate role(s).

34. All Test Same Tech – This indicator is selected when the same technician performed all of the plastic properties tests, slump, air content, temperature, and water to cementitious ratio. When this is selected, a TIN for plastic properties tests is not needed.
35. Tested By – This is the TIN of the person who performed the tests when they are all performed by the same technician.
36. Date Tests Performed – This is the date the plastic properties tests were performed. Plastic properties tests must be performed within 15 minutes of sampling so they would all have the same Date Test Performed.
37. Slump – This is the results of the ASTM C143 Slump test.
38. Tested By – This is the TIN of the person who performed the slump test if a different technician performed the test.
39. Air Meter – Select the air meter that was used to perform the air content test.
***NOTE***: A pressure meter cannot be used with a mix design that does not have an aggregate correction factor.
40. Air Content – Enter the Air Content result.
41. Tested By – This is the TIN of the person who performed the air content test if a different technician performed the test.
42. Temperature – This is the result of the ASTM C1064 Temperature test.
43. Tested By – This is the TIN of the person who performed the temperature test if a different technician performed the test.
44. W/CM Ratio – This is the result of the FM 5-501 water to cementitious ratio test.
45. Tested By – This is the TIN of the person who performed the W/CM ratio if a different technician performed the test.
46. Relative Viscosity – This is the result of the FM 5-605 Determining the Relative Viscosity Factor of Cementitious Materials using a Dynamic Shear Rheometer test.
47. Tested By – This is the TIN of the person who performed the Relative Viscosity test if a different technician performed the test.
48.Visual Stability Index – This is the result of the ASTM C1611 Visual Stability Index (VSI) test.
49. Tested By – This is the TIN of the person who performed the Visual Stability Index test if a different technician performed the test.