

Rev 5/15/2017

Verification sampling/testing

OVERVIEW: In order to track not only the manufacturer of component materials, but also the plants where they are stockpiled and sampled from; SiteManager has been modified to include the component materials in mix plants (asphalt, ready-mix, precast & prestress) as well as the manufacturer's plant. All contracts represented by the sample will be listed on the "Other" tab of the SiteManager sample (quicker and easier than selecting contracts, project, and items on "Contract" tab of sample, plus contracts that have not been made "Active" yet will appear to be included if needed). At the end of this document is a list of material codes that are contained in mix type plants as well as manufacturing plants.

1. Reinforcing Steel/Prestress Strand/Asphalt Cement

These materials will continue to have verification samples taken at asphalt, ready mix, precast & prestress plants as detailed in SOP-1-1. The SiteManager samples will list the plant the materials are sampled from in the P/S field. The manufacturer of the component material will be listed in the Mnfctr field (see screen captures in section 2 of this document for additional details).

NOTE: Once Operations has materials active on a contract, M022 - Recap of Prestress Concrete Members will be the test used to generate a report tying component materials to concrete piles since they are designated to contracts later in the process.

2. Cement/flyash/slag

Currently each time a new contract has a design approved for a ready mix plant, a verification sample is required. Then annually another sample is required as long as the contract is active. This causes Regional M&T inspectors to submit samples from almost every active ready mix plant each month.

In order to make the verification sampling and testing easier; we now allow a new contract that has a design approved for a ready mix plant, have the verification sample tied to the previous sample if less than 45 day after the sample was taken or be listed on a new sample within two weeks of the design being approved.

Below is the procedure a Regional M&T inspector will follow for these verification samples:

Create a "Verification" sample in SiteManager. Below are screen captures of what is required for the sample:

Maintain Sample Information

Basic Sample Data | Addtl Sample Data | Contract | Other | Tests

Smpl ID: jji01563156T122420 Status: Pending

Revised By: Revising: Sample Date: 06/29/15

Link To: Link From: Log Date: 06/29/15

Smpl Type: Verification Acpt Meth: Verification

Material: 901.01.001 Domestic (Type I)

Sampler: jji01563 Evans, Bobby

1 P/S: Harrison Ready Mix - Oak Ridge 10100003

Type: Producer/Supplier City: Knoxville

2 Prod Nm: Buzzi Unicem - Greencastle

Mnfctr: Buzzi Unicem - Greencastle 89901090

Town: Geog Area: Anderson

Intd Use:

Repr Qty: .000 Ton Lab Control Number: CNjji01563156T122420

Auth By: Auth Date: 00/00/00 Lab Reference Number:

Lock Type: HQ Locked By: Lock Date:

1. Plant sample was taken from. The county the plant is located in will be selected in the “Geog. Area” field of the sample record.
2. Product name & Manufacturer of material being verified.
3. Save record before leaving tab to make sure P/S and product info is saved.

You are now ready to enter destination lab and contracts on the “Other” tab of the sample record.

Maintain Sample Information

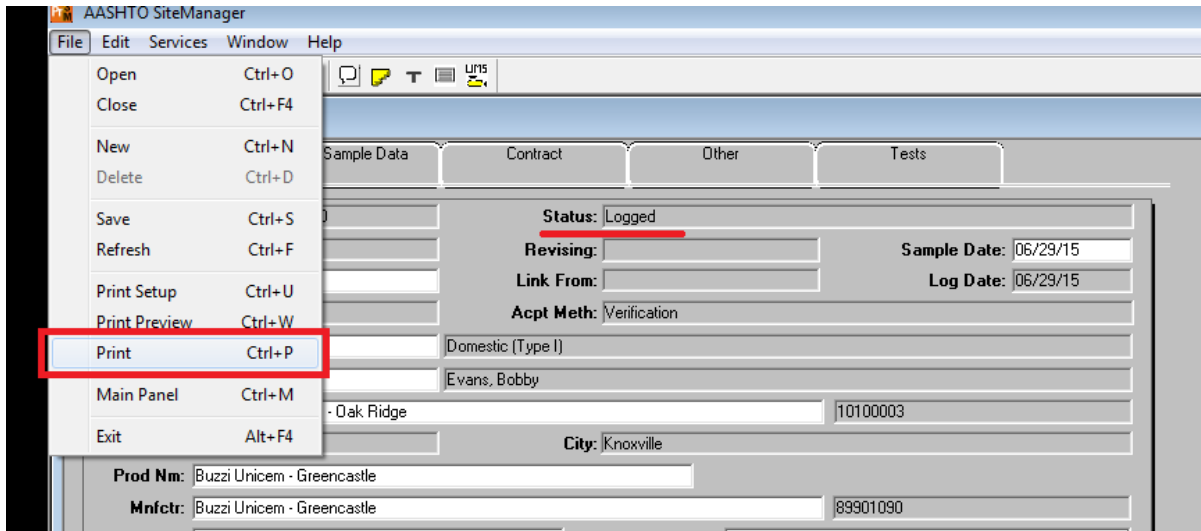
Basic Sample Data | Addtl Sample Data | Contract | **Other** | Tests

Sample: jji01563156T122420

Type	ID	Description
Destination Lab	TDOT619000	DEST - TDOT Headquarters/Receiving Dock
Contract	CNN205	Expansion of the Smartway Intelligent Transportation System
Contract	CNP033	The grading, drainage, construction of a concrete box bridge
Contract	CNK287	BRIDGE CONSTRUCTION ON TOM FITZGERALD ROAD OVER S

1. Enter destination lab
2. Create a line for each contract this sample will represent.
3. Save and accept “Default Tests”

After assigning tests, you will need to print the sample record:

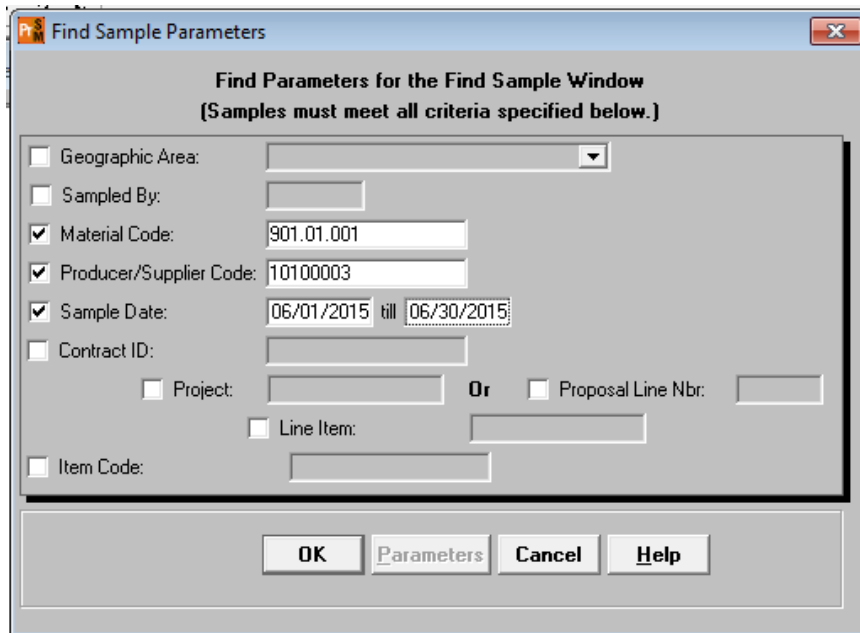
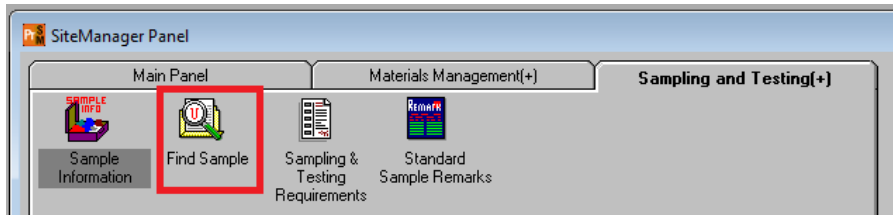


List all contracts sample represents on printed copy; eventually this will replace the T2 you are currently creating and filing in each contract file after testing is done. This will also save time distributing paperwork as well as reducing the risk of lost paperwork.

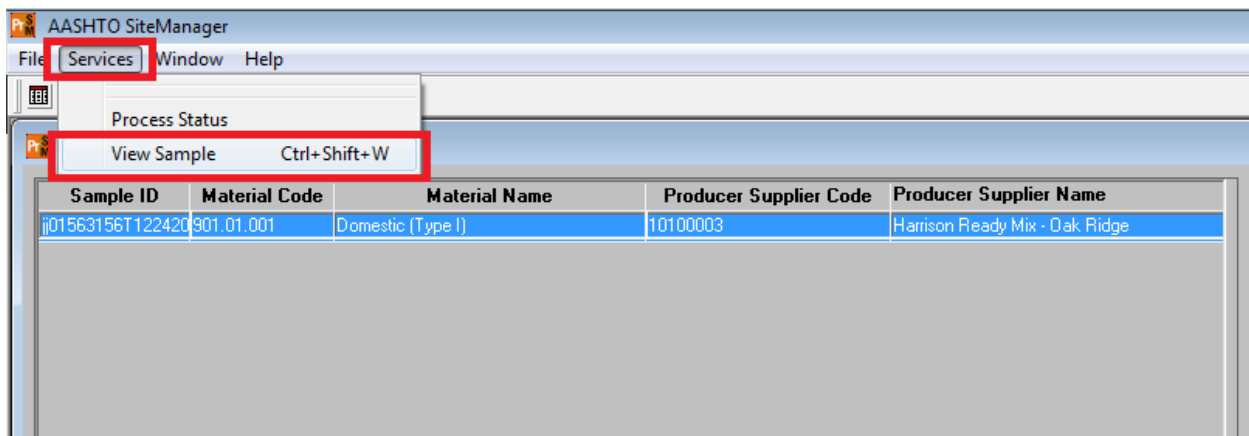
Smpl ID: JJ01563156T122420 Status: Logged
 Revised By: Revising: Sample Date: 06/29/15
 Link To: Link From: Log Date: 06/29/15
 Smpl Type: Verification Acpt Meth: Verification
 Material: 801.01.001 Domestic (Type I)
 Sampler: JJ01563 Evans, Bobby
 P/S: Harrison Ready Mix - Oak Ridge 10100003
 Type: Producer/Supplier City: Knoxville
 Prod Nm: Buzzi Unicem - Greencastle
 Mnfrct: Buzzi Unicem - Greencastle 89901090
 Town: Geog Area: Region 1 - Anderson
 Intd Use: Repr Qty: .000 Tcn Lab Control Number: CNJJ01563156T122420
 Auth By: Auth Date: 00/00/00 Lab Reference Number: Lock Date: 6/29/2015 12:30:45
 Lock Type: Locked By: JJ01563
 HQ:

CNN205
 CNP033
 CNK287

After we have created verification samples using SM for a year, we will need to perform an additional step when creating verification samples. We will need to find out if there are any contracts that were listed on the previous year's sample that are still active. We can do this by navigating to the "Find Sample" window and entering material code P/S and month from previous year, then select OK:

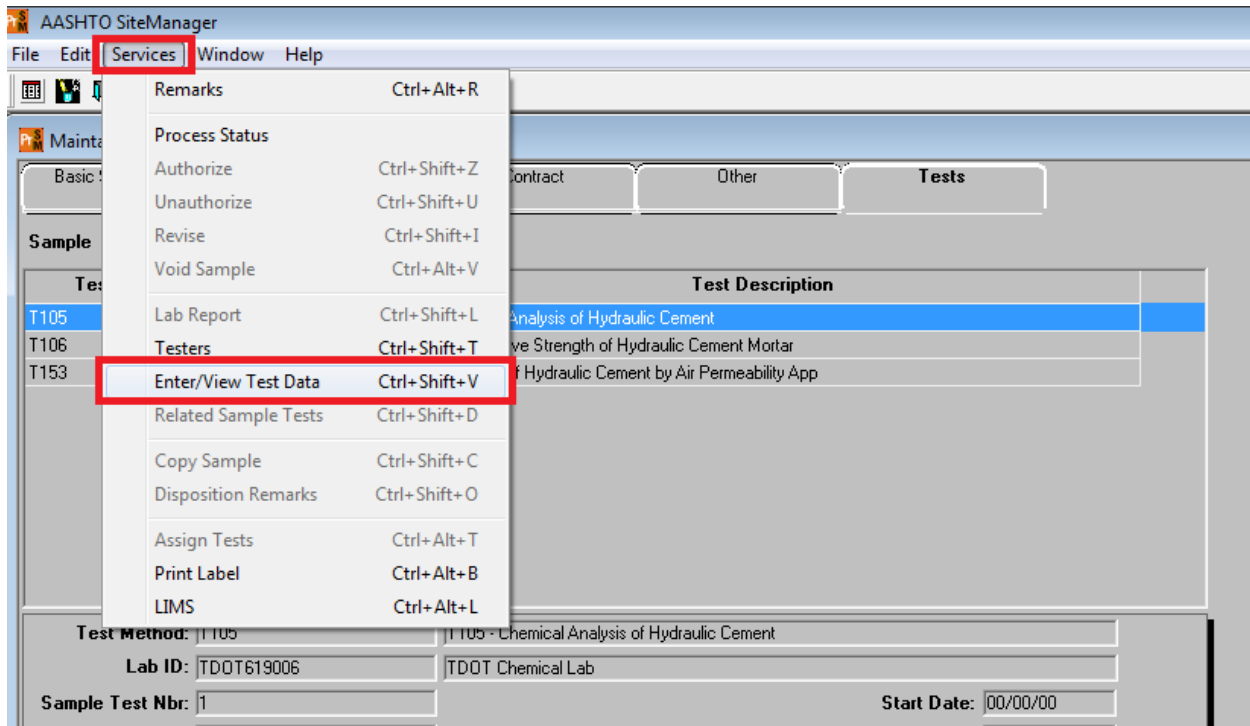


The sample you need will be displayed, select view sample from the services menu.



When the sample record opens; navigate to the "Other" tab to see contracts that were linked to the sample. If any of the contracts are still active, add them to your current sample.

This "Find Sample" window can be used by anyone to see samples and contracts that verification samples represent. Once a sample is open they can also navigate to the "Tests" tab to see test results



Component Materials added to Concrete mix and precast/prestress plants

901.01.001	Domestic (Type I)
901.01.001w/LS	Domestic (Type I) w/Limestone
901.01.002	Foreign (Type I)
901.01.002w/LS	Cement Foreign (Type I) w/Limestone
901.01.003	Domestic (Type III)
901.01.003w/LS	Cement Domestic (Type III) w/Limestone
901.01.004	Blended Hydraulic Domestic (Type 1S)
901.01.005	Blended Hydraulic Domestic (Type 1L)
901.01.006	Blended Hydraulic Domestic (Type 1P)
903.01.003	Manufactured Sand (Ready Mix Plants)
903.01.004	Natural Sand (Ready Mix Plants)
903.03.006	Coarse Agg Concrete Crush Stone (#1)
903.03.007	Coarse Agg Concrete Crush Stone (#2)
903.03.008	Coarse Agg Concrete Crush Stone (#24)
903.03.009	Coarse Agg Concrete Crush Stone (#3)
903.03.010	Coarse Agg Concrete Crush Stone (#357)
903.03.011	Coarse Agg Concrete Crush Stone (#4)
903.03.012	Coarse Agg Concrete Crush Stone (#467)
903.03.013	Coarse Agg Concrete Crush Stone (#5)
903.03.014	Coarse Agg Concrete Crush Stone (#56)
903.03.015	Coarse Agg Concrete Crush Stone (#57)

903.03.016	Coarse Agg Concrete Crush Stone (#6)
903.03.017	Coarse Agg Concrete Crush Stone (#67)
903.03.018	Coarse Agg Concrete Crush Stone (#68)
903.03.019	Coarse Agg Concrete Crush Stone (#7)
903.03.020	Coarse Agg Concrete Crush Stone (#78)
903.03.021	Coarse Agg Concrete Crush Stone (#8)
903.03.022	Coarse Agg Concrete Crush Stone (#89)
903.03.023	Coarse Agg Concrete Crush Stone (#9)
903.03.024	Coarse Agg Concrete Crush Stone (#10)
903.03.025	Coarse Agg Concrete Crush Slag (#1)
903.03.026	Coarse Agg Concrete Crush Slag (#2)
903.03.027	Coarse Agg Concrete Crush Slag (#24)
903.03.028	Coarse Agg Concrete Crush Slag (#3)
903.03.029	Coarse Agg Concrete Crush Slag (#357)
903.03.030	Coarse Agg Concrete Crush Slag (#4)
903.03.031	Coarse Agg Concrete Crush Slag (#457)
903.03.032	Coarse Agg Concrete Crush Slag (#5)
903.03.033	Coarse Agg Concrete Crush Slag (#56)
903.03.034	Coarse Agg Concrete Crush Slag (#57)
903.03.035	Coarse Agg Concrete Crush Slag (#6)
903.03.036	Coarse Agg Concrete Crush Slag (#67)
903.03.037	Coarse Agg Concrete Crush Slag (#68)
903.03.038	Coarse Agg Concrete Crush Slag (#7)
903.03.039	Coarse Agg Concrete Crush Slag (#78)
903.03.040	Coarse Agg Concrete Crush Slag (#8)
903.03.041	Coarse Agg Concrete Crush Slag (#89)
903.03.042	Coarse Agg Concrete Crush Slag (#9)
903.03.043	Coarse Agg Concrete Crush Slag (#10)
903.03.044	Coarse Agg Concrete Gravel (#1)
903.03.045	Coarse Agg Concrete Gravel (#2)
903.03.046	Coarse Agg Concrete Gravel (#24)
903.03.047	Coarse Agg Concrete Gravel (#3)
903.03.048	Coarse Agg Concrete Gravel (#357)
903.03.049	Coarse Agg Concrete Gravel (#4)
903.03.050	Coarse Agg Concrete Gravel (#467)
903.03.051	Coarse Agg Concrete Gravel (#5)
903.03.052	Coarse Agg Concrete Gravel (#56)
903.03.053	Coarse Agg Concrete Gravel (#57)
903.03.054	Coarse Agg Concrete Gravel (#6)
903.03.055	Coarse Agg Concrete Gravel (#67)
903.03.056	Coarse Agg Concrete Gravel (#68)
903.03.057	Coarse Agg Concrete Gravel (#7)
903.03.058	Coarse Agg Concrete Gravel (#78)

903.03.059	Coarse Agg Concrete Gravel (#8)
903.03.060	Coarse Agg Concrete Gravel (#89)
903.03.061	Coarse Agg Concrete Gravel (#9)
903.03.062	Coarse Agg Concrete Gravel (#10)
918.31.051	Pozzolans (Flyash, Class C)
918.31.052	Pozzolans (Flyash, Class F)
918.31.053	Ground Granulated Blast Furnace Slag
918.31.054	Slag (Grade 100)
918.31.055	Slag (Grade 120)
918.31.056	Silica Fume

(additional component materials that have been added to precast/prestress plants)

907.01.003	Steel (Reinforcing)
907.01.004	Epoxy Coated Rs
907.02.005	Dowel Bars
907.02.006	Coated Dowel Bars
907.03.007	Wire Mesh (Steel)
907.03.008	Wire Mesh (D-Steel)
907.04.008	Wire 0.085 (7-Wire Strand)
907.04.009	Wire 0.115 (7-Wire Strand)
907.04.010	Wire 0.153 (7-Wire Strand)
907.04.011	Wire 0.167 (7-Wire Strand)
907.04.012	Wire 0.192 (7-Wire Strand)
907.04.013	Wire 0.217 (7-Wire Strand)
907.04.014	Wire 0.231 (7-Wire Strand)
907.04.015	Wire 0.294 (7-Wire Strand)

Component materials added to Asphalt mix plants

904.01.001	PG 64 22 Asphalt Cem Hot Mix Asphalt
904.01.002	PG 70 22 Asphalt Cem Hot Mix Asphalt
904.01.003	PG 76 22 Asphalt Cem Hot Mix Asphalt
904.01.004	PG 82 22 Asphalt Cem Hot Mix Asphalt
904.01.005	PG 67 22 Asphalt Cem Hot Mix Asphalt