WSDOT

# SAM User Manual for Contractors

2010

State Materials Lab 11/30/2010

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# **New Specifications**

In 2010, the Washington State DOT Standard Specifications were changed. The change deleted the time requirements for the DOT to give the contractor test results and the Composite Pay Factor, CPF. The Contractors can now go the WSDOT website to view the test data and CPF.

Another change that was made is the size of the lot has been redefined to be 15-sublots except for the last lot may be up to 25-sublots. With changes to the SAM program used by WSDOT to calculate CPF's it is no longer necessary to start a new lot when a JMF has been changed so the requirement that a new JMF will trigger a new lot has been deleted.

SAM 2010 application now has the ability for a Contractor to view the test data and the CPF reports.

# **Getting Started**

If you need an account to access the testing data and CPF reports for your WSDOT contracts in SAM, the following steps will guide you through the process:

Go to the WSDOT website home page, and open the Business page. Then open the Materials Laboratory home page. On this page you will find links to all of the Materials Laboratory programs.

Go to the SAM Home Page https://business.wsdot.wa.gov/Materials/Analysis/SAMui/samlogin.aspx

There are two different types of access:

The "Standalone Access" is the permission level where you can use the program for other work. This will allow you to establish your own requirements and enter your own testing data into the SAM program. SAM will perform calculations and retrieve reports. Your data will not be connected to WSDOT projects and associated with any WSDOT data.

The "WSDOT Contractor Access" is the permission level where a WSDOT Contractor doing WSDOT work will be able to view the testing data and the CPF for a project that you are working on. You can also enter your quality control testing data if you wish, however it will not be used for acceptance.

Note, if you previously had permissions to SAM, it is possible that you had access to the standalone application and do not have the correct permissions to view the WSDOT project data. Contact the Materials Laboratory Help Desk if you are not sure what type of permissions you have. There will only be one account given per company. So, it is not necessary to have individual accounts within the company. The Materials Laboratory will let you know if your company already has an account.

🖉 SAM User Login - Windows Internet Expl	orer provided by V	SDOT			
💮 🗸 🖉 https://business.wsdot.wa.gov/M	aterials/Analysis/SAMui/	/samlogin.as	рх		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp					
😭 🍄 🔠 👻 🎉 ContractInfo	🏉 SAM User Login		x		
Washington State		News	Search	Contact WSDOT	WSDOT
Department of Transportation	TRAFFIC & ROADS P	ROJECTS	BUSINESS	ENVIRONMENTAL	MAPS
Statistical Ana	alysis of Mat	erials			
Statistical Analysis of Mater	ials.				
The Statistical Analysis of Materials (SAM) Laboratory computer program that statisti materials according to the requirements o Specifications. The program will generate verification reports with the capability of s electronically to both the WSDOT and to o required.	cally evaluates f WSDOT Standard acceptance and ending them		User ID Password	Login	
There are two versions of the programs the access to. Each will require separate log-in					
For the WSDOT Contractors who are work projects using the 2010 specifications, you the <u>WSDOT Contractor Access Request Form</u> ar There will be only one log in authorization The WSDOT project office will be giving you projects. You will be able to enter your test project, and see the WSDOT testing data a	will need to fill out nd return it by email given per company ou access to specific sting data for that				
For Contractors who wish to use the progr will give you a standalone access which al program and establish your requirements, data. It will not be tied to any WSDOT pro need to fill out the <u>Stand Alone User Access F</u> it by email.	lows you to go into t , and enter your own ject work. You will	the n			

The first step is to click on "WSDOT Contractor Access Request Form"

## **Contractor Request Form**

This link opens an email message to be sent to the Materials Laboratory Help Desk. Fill out the information in the body of the email and send the message. The Materials Laboratory will process this request and sent you a confirmation email with a userid and password. Share these logon credentials with others in your company who will be using SAM. We will usually have your request processed within one business day or less.

Once you have received your logon information, contact the Project Office that is administrating your project for permissions to the contract or contracts that you will be working on.

# Important: The Materials Laboratory Help Desk will give you permissions to the system, but the Project Engineers office will give you permissions to the contracts.

# Login to SAM

To login to SAM, type in your userid and password you were given from the Materials Laboratory.

SAM User Login - Windows Internet Explorer provided by WSD	0T
AW OSET Login - Windows internet Explorer provided by WSD	
File Edit View Favorites Tools Help	
Washington State	Iews Search Contact WSDOT WSDOT Home JECTS BUSINESS ENVIRONMENTAL MAPS & DATA
Statistical Analysis of Mater	
<ul> <li>Statistical Analysis of Materials (SAM) is a Materials Laboratory computer program that statistically evaluates materials according to the requirements of WSDOT Standard Specifications. The program will generate acceptance and verification reports with the capability of sending them electronically to both the WSDOT and to outside entities as required.</li> <li>There are two versions of the programs that you can have access to. Each will require separate log-in authorization.</li> <li>For the WSDOT Contractors who are working on WSDOT projects using the 2010 specifications, you will need to fill out the <u>WSDOT Contractor Access Request Form</u> and return it by email. There will be only one log-in authorization given per company. The WSDOT project office will be giving you access to specific projects. You will be able to enter your testing data for that project, and see the WSDOT testing data and the CPF.</li> <li>For Contractors who wish to use the program for other work, we will give you a standalone access which allows you to go into the</li> </ul>	* User ID test6 * Password ••••• Login
program and establish your requirements, and enter your own data. It will not be tied to any WSDOT project work. You will need to fill out the <u>Stand Alone User Access Request Form</u> and return it by email.	
For problems or questions please call the Mats Lab Help Desk : 360-709-5454 Email : <u>MLOHelp@WSDOT.WA.GOV</u>	Forgot Password? Please type in your email Email Send Password

Click on SAM 2010, you will not have access to old SAM.



# **Contract Information Page**

The Contract Info tab displays what work orders are available to you. You will also see the materials that have been setup. You cannot access and view any data from this page.

If there are no contracts in the drop down list box, you haven't been granted access to any contracts yet. Please contact the appropriate Project Office to get access. If the contract or contracts are there, select from the drop down. You will see all the material that has been associated with that contract. The material criteria have been entered by the Project office. If there are no materials listed, then there is no data in SAM yet.

Washington Sta Department of		ortation	TRAFFIC & RO	DADS PROJE		Contact WSDOT		
	Sta	tistical	Analysis of	f Materi	als			
Contract Info								
CONTRACT INFO	мате	RIAL ACCEP	PTANCE CRITERIA	TEST DATA	ANALYSIS		Search	HELP
*Work- <del>Order Num</del> be	r	*Section						
807885	*	I-85 GRAN	GER TO GRANDVI	EW CONCRET	E REHAB			
-select work order- 007885		Project Eng	ineer		Test Labs Ass	ign Lab <u>War</u>	rm Mix Typ	<u>be</u>
454306		Davari, Mo	e		Field Lab Acc	eptance		
*Measurement Syste	m	*Contractor	r Name		HQ Lab Acce	ptance		
ENGLISH	*	test			Region Lab A	cceptance		
Award Date		SR Number	,		Contractor QC L	ab Quality Contro		
3/1/2010		520						
Material ID	Origi	nal Material	Material Type			Material		
MD100009			5-04 Hot Mix Asph	alt H	MA Class 1/2" -	9-03.8 - 2010		
MD100009-TS1	MD10	0009	5-04 Hot Mix Asph	alt H	MA Class 1/2" -	9-03.8 - 2010		
MD100009-1	MD10	0009	5-04 Hot Mix Asph	alt H	MA Class 1/2" -	9-03.8 - 2010		
				I				

Save	Cancel	Add New Contract	Add New Material	View Deleted Lots
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# **Report and Worksheets**

There are two ways to view the reports, one from the test data page, and the other from the acceptance page. To access just the reports from the test data page, go to the test data tab.

You will have to select the material that you are looking for by selecting the material Original Material ID (Mix ID). The table will list all of the lots for the material, including compaction for HMA. You will see the date tested for the lot that you selected. In the parentheses, it shows the number of sublots that are included in the lot.

The composite pay factor, CPF column on the table will display the current CPF for the lot.

The report will display all of the information relating to the Material including the bonus and Composite Pay Factor. The worksheet will displays the calculations involved in arriving at the pay factors for each test property. The reports and worksheets are in Adobe PDF.

Washington State			News	Search	Contact WSDOT	WSDOT	Home
Department of Transp	ortation	TRAFFIC & ROADS	PROJECT	S BUSINESS	ENVIRONMENTA	L MAPS &	DATA
Sta	tistical	Analysis of M	aterial	S			
Test Results List Vork Order Number 007885	Section I-85 GRAN	IGER TO GRANDVIEW C	ONCRETE	REHAB			
CONTRACT INFO		PTANCE CRITERIA	ST DATA	ANALYSIS		Search	▶ HEL
Jpload MATS Data	ot List						
Material HMA Class 1/2" - 9-03.8 - 2	010	~	* Original MD10000	Material ID (I 9	Mix ID)		
Lab Catego	v Lot #	Date Tes	ted	CPF		~	
Edit QA	1	10/06/2010 - 10/06/2		0.83		orksheet	
Compaction Lots							
Lab Category	Lot #	Date T	ested		CPF		
Edit QA	1	10/06/2010 - 10/06/20	10 (15)	1	.04 <u>Report</u>	$\mathcal{T}$	
Edit QA	2	10/06/2010 - 10/06/20	10 (13)	1	.05 <u>Report</u>		
Add New Sublot	Add Ne	w Compaction Sublot					

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To access the reports and worksheets from the acceptance page, go to the acceptance tab and select the Material ID for the material that you are looking for.

Washington St	ate			News Sear	ch Contact V	VSDOT WSDOT Home
Washington Sta Department of	Transpor	tation	TRAFFIC & ROADS	PROJECTS BUSI	NESS ENVIRON	IMENTAL MAPS & DATA
	Stati	istical Ana	alysis of M	aterials		
atistical Accep	otance					
rk Order Number		ection				
7885	✓ I	-85 GRANGER T	O GRANDVIEW C	ONCRETE REHAB		
CONTRACT INFO	MATER	IAL ACCEPTANC	E CRITERIA DE	ST DATA ANAL	YSIS ACCEPT	TANCE Search HELP
aterial Type		*Material			*	Material ID (Mix ID)
04 Hot Mix Asphal	t	MMA Clas	ss 1/2" - 9-03.8 -	2010	× N	1D100009 🔽
		*Lab Cate				
		Acceptan	nce		*	
ontract Detail Rep	ort					
Lab Category		CPF	Sample Size	No. of SubLots	Unit Cost	Bonus
QA	1	0.83	12000.00	15	51.50	-63036.00 Report Work Sheet
mpaction						
Lab Category	Lot #	Pay Factor	Sample Size	No. Of SubLots	Unit Cost	Bonus
	1	1.04	1200.00	15	51.50	988.80 <u>Report</u>
QA			1040.00	13	51.50	1071.20 Report
QA QA	2	1.05	1040.00			
-	2	1.05	1040.00	1		
-	2	1.05	1040.00			
-	2	1.05	1040.00		1	
-	2	1.05	1040.00		1	
-	2	1.05	1040.00		1	

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ds | Site Index | Contact WS DTIWS OT Business | Priv асу olicy There are two parts of the report. The first part will display all of the information relating to the Material including the item pay factors, the bonus, and the Composite Pay Factor.

Washington State Department of Transportation	Test Results Report	Date: 12/8/2010
Contract Number : 007885, I-85 GRANGER	TO GRANDVIEW CONCRETE REHAB	Lab Category : Acceptance
Orgcode: 454306		Unit Cost: 51.50
Project Engineer : Davari, Moe		Total Tons : 12000.00
Lot No : 1		CPF: 0.83
Original Material Id : MD100009 HMA Clas	ss 1/2" - 9-03.8 - 2010	Bonus : -63036.00
Bid Item:025.1		
Comment :		

#### **Test Property**

Test Property Description	Price adjustment factor	Standard deviation	Pay Factor
3/4 in	2	0	1.05
1/2 in	2	1.03	1.05
3/8 in	2	0	0
No. 4	2	0	1.05
No. 8	15	0	1.05
No. 16		0	
No. 30		0	
No. 50		0	
No. 100		0	
No. 200	20	0	1.05
Pct Binder	40	0.03	1.05
Pct Air Voids (Va)	20	2.67	0
Voids in Mineral Aggregate (VMA)		0.45	
Voids Filled with Asphalt (VFA)		0	0
Dust to Asphalt Ratio (D/A)		0	0
Fracture			
Uncompacted Voids			
Sand Equivalent (SE)			
Pbe		0	
Gmb		0.0134	
Gmm		0.0612	

SAM

Date Printed 12/8/2010

The second part of the report shows the test data based on the JMF for each sublot. It displays the JMF, the upper and lower acceptance criteria, the standard deviation for that population of sublots, and the average.



#### Test Results Report

Date: 12/8/2010

Test Property Description	Price adjustment factor	Standard deviation	Pay Factor
Gsb		0	
Gb		0	

#### Material Id: MD100009

			3/4 in	1/2 in	3/8 in	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200	Pct Bind	Va	VMA	VFA	D/A	% Frac	FAA	SE	Pbe	Gmb	Gmm	Gsb	Gb
	JMF	Percent	100	97	81	48	34	24	16	11	8	5.9	5.1	4	14.4	73	1.3	99	48	77	4.5	2.382	2.482	2.64	1.032
	Upper Acc	ceptance	100	100	87	53	38					7	5.6	6.3		80	1.6								
	Lower Acc	ceptance	99	91	75	43	30					3.9	4.6	0.7		68	0.6	90		45					
	Std [	Deviation	0	1	0	0	0	0	0	0	0	0	0	2.7	0.5	0	0				0	0.013	0.061	0	0
		Mean	100	94.7	74	51	32	22	16	12	8	6.1	5.2	13	15.8	0	0				0	2.346	2.697	2.64	1.032
Test	Data for M	/D100	009																						
Sub Lot	Date Tested	Tons	3/4 in	1/2 in	3/8 in	No. 4	No. 8	No. 16	No. 30	No. 50		No. 200	Pct Bind	Va	VMA	VFA	D/A	% Frac	FAA	SE	Pbe	Gmb	Gmm	Gsb	Gb
001	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.3	3.7	14.2	0	0				0	2.392	2.484	2.64	1.032
002	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
003	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
004	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
005	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
006	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
007	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
008	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
009	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
010	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
011	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
012	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
013	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032
014	10/06/2010	800.00	100	95	74	51	32	22	16	12	8	6.1	5.2	13.7	15.9	0	0				0	2.342	2.713	2.64	1.032



#### **Test Results Report**

Date: 12/8/2010

#### Material Id: MD100009-1

	3/4 in	1/2 in	3/8 in	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200	Pct Bind	Va	VMA	VFA	D/A	% Frac	FAA	SE	Pbe	Gmb	Gmm	Gsb	Gb
JMF Percent	100	97	81	48	34	24	16	11	8	5.9	5.1	4	14.4	73	1.3	99	48	77	4.5	2.382	2.482	2.64	1.032
Upper Acceptance	100	100	87	53	38					7	5.6	6.3		80	1.6								
Lower Acceptance	99	91	75	43	30					3.9	4.6	0.7		68	0.6	90		45					
Std Deviation	0	1	0	0	0	0	0	0	0	0	0	2.7	0.5	0	0				0	0.013	0.061	0	0
Mean	100	94.7	74	51	32	22	16	12	8	6.1	5.2	13	15.8	0	0				0	2.346	2.697	2.64	1.032
Fest Data for MD100	009-1																						

Sub Lot	Date Tested	Tons	3/4 in	1/2 in	3/8 in	No. 4	No. 8	No. 16	No. 30	No. 50		Pct Bind	Va	VMA	VFA	D/A	% Frac	FAA	SE	Pbe	Gmb	Gmm	Gsb	Gb
016	10/06/2010	800.00	100	91																				

The worksheet displays the calculations involved in arriving at the pay factors for each test property.

Gradation Bonus :-63036.00

					-						
Test property Description	*Mean	Upper Limit	Lower Limit	*Standard Deviation	QU	QL	PU	PL	Quality level	pay factor	price adjustmen factor
3/4 in	100	100	99		100.00	100.00	100	100	100	1.05	
1/2 in	-2.3	3	-6	1.03	5.15	3.59	100	100	100	1.05	
3/8 in	-7	6	-6	0						0	
No. 4	3	5	-5	0	100.00	100.00	100	100	100	1.05	
No. 8	-2	4	-4	0	100.00	100.00	100	100	100	1.05	1
No. 16	22			0							
No. 30	16			0							
No. 50	12			0							
No. 100	8			0							
No. 200	0.2	1.1	-2	0	100.00	100.00	100	100	100	1.05	:
Pct Bind	0.1	0.5	-0.5	0.03	13.33	20.00	100	100	100	1.05	
Va	13	6.3	0.7	2.67	-2.51	4.61	0	100	0	0	:
VMA	15.8			0.45							
VFA	0	80	68	0						0	
D/A	0	1.6	0.6	0						0	
% Frac			90								
FAA											
SE			45								
Pbe	0			0							
Gmb	2.346			0.0134							
Gmm	2.697			0.0612							
Gsb	2.64			0							

### Pay Factor Calculations For Test Property

SAM

Date Printed 12/8/2010

# **Test Data**

To view test data or to enter in your own QC data, click on the "Test Data" tab. You will have to select the material that you are looking for by selecting the material Original Material ID (Mix ID).

The table displays all of the lots for the material that you selected. When you click on edit, it shows all of the sublots that are part of the lot that you selected.

		_							
	aching	gton State			News	Search	Contact WSDO	r wsdot	Home
	partr	nent of Transpo	ortation	TRAFFIC & ROA	DS PROJECTS	BUSINESS	ENVIRONMENT	AL MAPS &	DATA
		Stat	istical	Analysis of	Materials	3			
Test Re Work Ord 007885	· · · ·	imber	Section I-85 GRAN	GER TO GRANDVIE	CONCRETE R	EHAB			
	ACT		RIAL ACCE	PTANCE CRITERIA	TEST DATA	ANALYSIS		Search	HELP
Upload N	IATS	Data L	ot List		$\overline{}$				
*Material HMA Clas	ss 1/2	2" - 9-03.8 - 2	010	~	* Original M MD100009	aterial ID (N	1ix ID) ∕		
Lots									
		Lab Category	/ Lot #	Date 1	Tested	CPF		$\frown$	
Edit	)	QA	1	10/06/2010 - 10/0	6/2010 (15)	0.83	(Report) W	orksheet	
							$\smile$		
Compact	tion l	ots							
		Lab Category	Lot #	Date	e Tested		CPF		
Edit		QA	1	10/06/2010 - 10/06/	2010 (15)	1	.04 <u>Report</u>	$\sum$	
Edit		QA	2	10/06/2010 - 10/06/	2010 (13)	1	.05 <u>Report</u>	Д —	

Add	New	Suble	ot

Add New Compaction Sublot

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The table displays all of the sublots for the material that you selected. When you click on edit, it shows the test data for the sublot that you selected.

If you see a "-R" this means that you have requested a retest of this sublot and the new test data has been entered.

				News	s Sea	arch	Contact WSDOT	WSDOT	Home
$\nabla D$	Washington State Department of Transp	portation	TRAFFIC & ROAD	S PROJEC	TS BUS	SINESS	ENVIRONMENTA	L MAPS 8	& DATA
	Sta	tistical An	alysis of N	lateria	ls /				
Lot Si	ummary								
	rder Number	Section							
007885	5 💌	I-85 GRANGER 1	TO GRANDVIEW	CONCRETE	REHAB				
	TRACT INFO MAT	ERIAL ACCEPTAN	CE CRITERIA 🕨	EST DATA		LYSIS		Search	HEL
Upload	MATS Data	ot List							
-	al Material ID (Mix I	·		Number	of Sub	lots			
MD100	009 💌	1 (QA)	*	15					
Sublots	-								
	Date Tested	Mix Design No.	Test Lab	Sub Lo	t No.	SortOr			urce
Edit	10/06/2010	MD100009	Field Lab	001		1	000001009	во ма	TS
Edit	10/06/2010	MD100009	Field Lab	002		2	000001009	961 МА	TS
Edit	10/06/2010	MD100009	Field Lab	003		3		SA	м
Edit	10/06/2010	MD100009	Field Lab	004		4		SA	м
Edit	10/06/2010	MD100009	Field Lab	005		5		SA	м
Edit	10/06/2010	MD100009	Field Lab	006		6		SA	м
Edit	10/06/2010	MD100009	Field Lab	007		7		SA	м
Edit	10/06/2010	MD100009	Field Lab	008		8		SA	м
Edit	10/06/2010	MD100009	Field Lab	009		9		SA	м
Edit	10/06/2010	MD100009	Field Lab	010		10		SA	м
Edit	10/06/2010	MD100009	Field Lab	011		11		SA	м
Edit	10/06/2010	MD100009	Field Lab	012		12		SA	м
Edit	10/06/2010	MD100009	Field Lab	013		13		SA	м
Edit	10/06/2010	MD100009	Field Lab	014		14		SA	м
Edit	10/06/2010	MD100009-1	Field Lab	016		15		SA	м

Add New Sublot

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You can access and see the DOT sublot test data, but you will not be able to change any of the data.

Washington State Department of Tran	sportation	TRAFFIC	ROADS PROJECTS	Search Contact WSDO	
			of Materials		
Field Test Data: HN Nork Order Number 007885	IA Class 1/2" Section I-85 GRANGE	- 9-03.8 - 2	2010 Non-Statisti		Search HELP
*Material HMA Class 1/2" - 9-03.8 *Test Lab Field Lab Acceptance *Date tested 10/06/2010	- 2010 * Tons 800	>	*Original Material ID MD100009 *Sub lot ID 001 Sample ID 000001009b0	MD100009 Lot Number 1 Accpt. Sample# 13	< Prev Next >>
Location	Tester Name test		*Warm Mix Asphalt	*Warm Mix Type Please Select	Sample Source: MATS
	Test Properties		Test Result Value	Lower Acceptance Limit	Upper Acceptance Limit
3/4 in	rest properties		100	99	
1/2 in			95	91	100
3/8 in			74	75	87
No. 4			51	43	53
No. 8			32	30	38
No. 16			22		
			16		

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You can also add your own QC test data for your own laboratory by clicking on add new sublot or compaction sublot, it will take you to a data entry screen and default to "Contractor QC Lab—Quality Control".

Statistical Analysi eld Test Data: HMA Class 1/2" - 9-03.8 Section 7885 T-85 GRANGER TO GRAN CONTRACT INFO MATERIAL ACCEPTANCE CRITI Load MATS Data Lot List Sub Lot List At Class 1/2" - 9-03.8 - 2010 Section Section Tops	- 2010 Non-Statisti	AB	Search HELP
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3/8 in		75	87
No. 4		43	53
No. 8		30	38
No. 16			
No. 30			<u> </u>

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# Help

If you have any problems are questions with the new SAM program. Please contact the MATS Lab Help Desk at <u>mlohelp@wsdot.wa.gov</u> or 360-709-5454.