

The logo of the Indiana Department of Transportation (INDOT) is a circular seal. It features a central shield with a yellow airplane, a yellow train, and a yellow car. The shield is set against a blue background. The words "INDIANA" and "DEPARTMENT OF TRANSPORTATION" are written in a circular path around the shield. The letters "I", "N", "D", "O", and "T" are stacked vertically on the right side of the shield.

# Life of an HMA Sample

## INDOT Office of Materials Management

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# Why are you here?

- All of you are involved in the delivery of quality asphalt pavements to the taxpayers of Indiana
- INDOT spends hundreds of millions of dollars each year on asphalt alone

# Why are you here?

- Very important to validate the quality of the asphalt materials INDOT is buying
- Best way to do this:
  - Roadway plate samples
  - Cores
  - Suite of tests performed at a lab

# Why are we doing this webinar?

- Many changes in the past few years
  - How INDOT accepts asphalt mix designs
  - What labs are running tests
  - How the test data gets to the Producers
  - How the Producers appeal
- Important to get the samples from the job, to the lab, tested, and results back to Producers in the shortest time possible

# The Tools We Use

- DMF Entry
- Field Assistant
  - SiteManager
- Lab Testing
- HMA Pay Wizard



# Who is Using What

- DMF Entry
  - Producers
  - District Testing
- Field Assistant & SM
  - District Construction
- Lab Testing
  - Three test labs
- HMA Pay Wizard
  - Producers, INDOT





# DMF Entry

- The New DMF Acceptance Process
  - Digital acceptance of DMFs by Use Case instead of per Contract CLN
    - Course, ESAL Categories, 402 Mix types
  - DMF is submitted to DTE w/ attachments & DTE accepts it for the requested Cases or modifies what the mix may be accepted for.
- Accepted DMFs are assigned to the appropriate Contract Items by the P/S



# DMF Entry

- Direct Producer/Supplier Access & Submittal

Mix Design Summary

	Created Date	Internal Mix Id	INDOT DMF	Plant #	Mix Type	District	Status	Status Date
	02/07/2019				HMA,2,64-22,Base,Inter ,19.0 mm,Superpave 4	GREENFIELD	Approved	02/22/2019
	02/19/2019				HMA,2,3,4,76-22,Inter ,19.0 mm,Open Grade	LAPORTE	Under Review	03/01/2019
	02/19/2019				HMA,2,64-22,Base,Inter ,19.0 mm,Superpave 4	GREENFIELD	Draft	02/28/2019
	02/20/2019				HMA,3,4,70-22,Surf ,4.75 mm,Superpave 4	CRAWFORDSVILLE	Under Review	02/25/2019
	02/20/2019				HMA,3,4,64-22,Base,Inter ,25.0 mm,Superpave 4	CRAWFORDSVILLE	Approved	03/01/2019

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- Displays all mixes for each District, with Acceptance Status

- Enter mix design, attach supporting documentation, and submit for acceptance

Mix Design Overview

MDS Overview

HMA Producer:  Certified Plant #:  Plant Location:  Approved Design Lab:

	Aggregate Size	Source	Source #	Q-Number	Ledges	Design Lab GSB	Design Lab ABS %	INDOT List GSB	INDOT List ABS %	DMF %
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	PG Binder	Source	Source #	Additive	Source	Source #
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PG Grade, Design TSR:

Mixture Designation:

Maximum Particle Size:

Mixture Course:  Base  Inter  Surf

Ignition Oven Test Temp.:

Binder Actual %:

Binder calculated effective %:

Gyrations Nini/Ndex/Nmax:

Mass gyratory pill @Ndes.g:

	Fine RAP	Coarse RAP	RAS
Binder % RAS			
Binder Repl. %			
Virgin Binder %			
% in mixture	<input type="text"/>	<input type="text"/>	<input type="text"/>
Binder % extracted	<input type="text"/>	<input type="text"/>	<input type="text"/>

Design No:



# DMF Entry

- District Testing reviews submitted mix and communicates in-app with Producer/Supplier
- Acceptable use cases can be revised
- If accepted, a DMF number is assigned, and P/S is notified

Mix Design Overview

MDS Overview

HMA Producer:  Certified Plant #:  Plant Location:  Approved Design Lab:

Aggregate Size	Source	Source #	Q-Number	Ledges	Design Lab GSB	Design Lab ABS %	INDOT List GSB	INDOT List ABS %	DMF %
3/8" Maximum	North Star	1016	1000000	0.14	2.80	1.20	2.80	1.20	10.0
3/4"	North Star	1016	1000000	0.14	2.80	1.20	2.80	1.20	10.0
1.5" Maximum	North Star	1016	1000000	0.14	2.80	1.20	2.80	1.20	10.0
2.0"	North Star	1016	1000000	0.14	2.80	1.20	2.80	1.20	10.0
3.0"	North Star	1016	1000000	0.14	2.80	1.20	2.80	1.20	10.0

PG Binder	Source	Source #
64-22	North Star	1016
70-22	North Star	1016
76-22	North Star	1016

Additive	Source	Source #
----------	--------	----------

PG Grade, Design TSR:

Ignition Oven Test Temp.:

Mixture Course:  Base  Inter  Surf

401 ESAL Cat(s):  2  3  4

402 Mix Type(s):  B  C  D

	Fine RAP	Coarse RAP	RAS
Binder % RAS			10.0
Binder Repl. %			10.0
Virgin Binder %			10.0
% in mixture	10.0	10.0	10.0
Binder % extracted	10.0	10.0	10.0

Design No:

Internal Mix ID #:



# DMF Entry

- Upon District Acceptance, mix can be applied to applicable CLNs & Item Codes on their contracts
- Typing in the Contract # displays list of applicable items, simply check the box to assign.

**Add DMF to CLN**

Contract #: 26727  
District: CRAWFORDSVILLE  
Description: ON US 231 OVER BRANCH OF OFFIELD CREEK, 4.57 MILES NORTH OF SR 234

CLN	Description	Item Code	PG Grade	
0034	QC/QA-HMA, 3, 64, BASE, 25.0 mm	401-07408	64-22	<input type="checkbox"/>

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Mix Design Overview

MDS Overview **Contracts**

DMF Description: HMA,3,4,64-22.Base,Inter ,25.0 mm,Superpave 4

Contract	CLN	Item Description	DMF#
R-31175	0046	QC/QA-HMA, 3, 64, BASE, 25.0 mm	XXXXXXXX
IR-30161	0056	QC/QA-HMA, 4, 64, BASE, 25.0 mm	XXXXXXXX
IR-30161	0195	QC/QA-HMA, 4, 64, BASE, 25.0 mm	XXXXXXXX

Page 1 of 1 | 10 items per page | 1 - 3 of 3 items

- Contract Items added are listed on the Contracts tab for P/S, DTE, & PE/S use

# Field Assistant / SiteManager



- **Field Assistant HMA Tracker** is now available for use by request on Contracts that have not already started HMA paving
  - Test locations are determined programmatically
  - Payments are made on tons delivered, MAF-adjusted
  - 530s are auto-submitted, complete with DMF
- 530s can be used in Field Assistant even without HMA Tracker, and are submitted with DMF
- SiteManager 530s cannot include DMF, but will be amended upon request





# Field Assistant

- DWRs are created on a web application (no internet connection required)

Contractor Information

Crew Equipment Remarks

(\*) Denotes required fields

\*Contractor:

\*Crew No.:

Show 10 entries

Contractor	Crew	Personnel Type	Qty	Action
26-1745760 : K & S MARKERS INC	1	prsn : Laborer	3	
35-1139301 : E & B PAVING INC	1	prsn : Carpenter	2	
35-1630972 : ABC CUTTING CONTRACTORS	1	prsn : Laborer	2	
35-1630972 : ABC CUTTING CONTRACTORS	2	supr : Foreman	1	
35-1630972 : ABC CUTTING CONTRACTORS	2	prsn : Laborer	1	
35-1917625 : MILESTONE CONTRACTORS LP **PRIME**	1	supr : Foreman	1	
35-1917625 : MILESTONE CONTRACTORS LP **PRIME**	1	prsn : Laborer	4	
35-1917625 : MILESTONE CONTRACTORS LP **PRIME**	1	prsn : Equipment Operator	3	
35-1917625 : MILESTONE CONTRACTORS LP **PRIME**	1	prsn : Q/C Q/A H.M.A. Tech	1	
35-1917625 : MILESTONE CONTRACTORS LP **PRIME**	1	supr : Superintendent	1	

No data

Showing 0 to 0 of 0 entries

Project

Pay Items

Show 10 entries

Select a Remark Type:

Remark Type	Text	Action
BCOP : DWR Work Operations	ABC Cutting on site cutting through sidewalks and curbing. One crew marking, one cutting. Started around 8am.	
HITE : PE/S High Temp	92	
LOTE : PE/S Low Temp	72	
WEAT : PE/S Weather	Clear	

Showing 1 to 10 of 11 entries

Showing 1 to 4 of 4 entries

Previous Next

Milestone on site for paving, resurface. John is QC/QA for Milestone, Ph# 812-555-0132  
Paving commenced at 9am, starting at Sta 123+25 Lt 32'. Bill is Paving Foreman on site. Looking to do around 800 tons today, two bridges if hitting daily planned qty. Down from 10:30 to 11:30 due to plant issues.  
K&S Markers running ahead of Milestone, removing RPMs from tomorrows planned mill work.



# Field Assistant

- HMA Tracker randomly determines upcoming testing locations, while allowing overrides for exceptions, etc.
- Tickets are entered sequentially and daily tons are tallied

HMA (Contract: TST34001, CLN: 0060, Material Code: 401M34518, Producer: HMA3317, DMF: 18TS04)

HMA Accumulated Tons: 2189.99    Daily Tons: 0.00    Lot / Sublot: 1 / 3

Sampled Lot/Sublot: Project 1006581 Tickets

Show 15 entries    Search:

Lot	Sublot	Sample Desc	Start Ton	Random Ton	Sampled Lot Ton	Daily Tons To Sample	Offset Loc	Sample Station	Override
1	3	Plate	2000	631	2631	441	8.99	Add Stationing	Override
					2758	568	6.85	Add Stationing	Override
					2896	706	3.05	Add Stationing	Override
					3025	835	8.41	Add Stationing	Override

**Add Ticket**

(\*) Denotes required fields

Lot: 1    Sublot: 1    Date: 06/05/2020    Ticket Count: 2

\*Ticket Type:     \*Lift:     \*Tons:

End:

Route / Direction / Lane / Location:



# Field Assistant

- Field Assistant notifies Technician of upcoming test by highlighting delivery tickets when near
- Associated samples are also highlighted on the Sampling tab

Show 10 entries Search:

Date	Lift	Type	Start Station	Paving Width Start	Ton	Accum. Ton	End Station	Paving Width End	Location Info
06/05/2020	1	Delivery			21.23	295.82			
06/05/2020	1	Delivery			21.15	274.59			
06/05/2020	1	Delivery			21.22	253.44			
06/05/2020	1	Delivery			21.34	232.22			
06/05/2020	1	Delivery			21.55	210.88			
06/05/2020	1	Delivery			22.73	189.33			
					20.86	166.60			
					19.99	145.74			
					20.88	125.75			
					21.02	104.87			

Previous 1 2 Next

Show 15 entries Search:

Lot	Sublot	Sample Desc	Start Ton	Random Ton	Sampled Lot Ton	Daily Tons To Sample	Offset Loc	Sample Station	Override
1	1	Plate	0	364	364	364	7.53	Add Stationing	Override
1	1	Core B	0	418	418	418	6.71	Add Stationing	Override
1	1	Core A	0	506	506	506	5.06	Add Stationing	Override
1	2	Core B	600	83	683	683	3.99	Add Stationing	Override



# Field Assistant

- When samples have been taken, a 530 can be generated to include all station data, DMF, etc.
- 530 is uploaded and payment is made when Daily is synced

Show 15 entries

Search:

Lot	Sublot	Sample Desc	Start Ton	Random Ton	Sampled Lot Ton	Daily Tons To Sample	Offset Loc	Sample Station	Override
1	1	Plate	0	364	364	364	7.53	116 + 58.000 CL 26.000 A	<button>Override</button>
1	1	Core B	0	418	418	418	6.71	<button>Add Stationing</button>	<button>Override</button>
1	1	Core A	0	506	506	506	5.06	<button>Add Stationing</button>	<button>Override</button>

530

Basic Sample Data

(\*) Denotes required fields

Sample ID: R11 1 1111 1111 Contract: IR-34001  
YEAR DISTRICT SUBMITTER SEQUENCE

Material Code: 401M34512 Sampled By: d30kgoot

Total Rep Qty: 0 Sample Unit: TON Effective Date: 20150901

\*Sample Date: 05/16/2018 \*Sample Size: Select Unit... \*Mix ID:

\*Acceptance Method: CTR : Test Results

Sampled At:

Requested By:

\*Offset:  \*Reference:

Project Items:

\*Line Item: Select Line Item...  
\*Rep Qty:

Project	Line Item	Quantity	Remove
No Project Items			

# SiteManager

- SiteManager 530s are entered when an Internet connection is established but are incomplete
- If you plan to use SiteManager to enter 530s, Contract Item & Represented quantity are required, and you *must* contact District Testing staff with the Sample # and intended DMF

**Maintain Sample Information**

Basic Sample Data    Addtl Sample Data    Contract    Other    Tests

Sample ID: R123405500275    Status: Complete

Revised By:    Revising:    Sample Date: 01/31/12

Link To:    Link From:    Log Date: 02/10/12

Sample Type: Acceptance Testing    Acpt Meth: Test Results

Material: 904M02710    CA, Class D, CS, 53

INDOT Sampler/ Witness: xcourt    Courtney, Kurt

P/S-Mnct: Irving Materials Inc - McCordsville, IN    Q982113

Type: Aggregate, CAPP    City: Fortville

Prod Nm:    Geog Area: Greenfield District

Lot/Sublot:

Represented Qty: 21.530    TON (English)

Auth By:    Auth Date: 00/00/00

INDOT

# From Field to Hub

- Plate samples & core samples are taken by the HMA Tech on site, marked with Sample ID
- When all samples have been taken for a Sublot, Construction contacts District Testing to notify of pending pick-ups
- QC sample data may be entered into the **HMA Pay Wizard** at this point if **Field Assistant** was used to enter Sample Data

# At the Hub

- Samples arrive at District HMA hub
- Testing personnel check:
  - Is the sample complete?
  - Is sample (R#) in SiteManager?
  - Is DMF (Mix ID) in SiteManager?
- Sample is entered into shipment log
- Box/cylinder labels are printed

# At the Hub

Des # 1700610  
Fort Wayne - Blue Grass

## Vendor Sample Shipment Log

Pick-up Date: \_\_\_\_\_

Sender Signature: \_\_\_\_\_

Receiver Signature: \_\_\_\_\_

Sublot Ref. #	Invoice Ref. #	Notification (mm/dd/yyyy)	Start Date (mm/dd/yyyy)	Sample ID	Sample Type	Contract	CLN	Lot	Sub	DMF	Mix Size (mm)	Comments	
F297	IF301	6/23/2020	6/24/2020	R202525526012	Plate(s), NC	R-37704	260	1	2	203372028	12.5mm Inter		Print Labels
F298	IF302	6/23/2020	6/24/2020	R202525524614	Plate(s), NC	R-37704	246	1	4	203372016	OG 9.5mm		Print Labels
F299	IF303	6/24/2020	6/25/2020	R202525524615	Plate(s), NC	R-37704	246	1	5	203372016	OG 9.5mm		Print Labels
F300	IF304	6/24/2020	6/25/2020	R202519500050	Plates+A3, C	RS-41907	20	1	5	203303017	9.5mm Surf		Print Labels
F301	IF305	6/24/2020	6/25/2020	R202519500060	Plate(s), C	RS-41907	20	2	1	203303017	9.5mm Surf		Print Labels
F302	IF306	6/24/2020	6/25/2020	R202519500070	Plate(s), C	RS-41907	20	2	2	203303017	9.5mm Surf		Print Labels
F303	IF307	6/24/2020	6/25/2020	R202519500080	Plate(s), C	RS-41907	20	2	3	203303017	9.5mm Surf		Print Labels
F304	IF308	6/24/2020	6/25/2020	R202519500090	Plate(s), C	RS-41907	20	2	4	203303017	9.5mm Surf		Print Labels
F305	IF309	6/24/2020	6/25/2020	R202519500100	Plate(s), C	RS-41907	20	2	5	203303017	9.5mm Surf	B Core Only	Print Labels
F306	IF310	6/24/2020	6/25/2020	R202519500110	Plate(s), C	RS-41907	20	2	6	203303017	9.5mm Surf		Print Labels
F307	IF311	6/24/2020	6/25/2020	R202519500120	Plate(s), C	RS-41907	20	2	7	203303017	9.5mm Surf		Print Labels
F308	IF312	6/24/2020	6/25/2020	R202519500130	Plate(s), C	RS-41907	20	2	8	203303017	9.5mm Surf		Print Labels
	IF313												Print Labels
	IF314												Print Labels
	IF315												Print Labels

# At the Hub

- Testing labs are notified
- Labs come and pick up samples
- Backup samples are retained at the hub

# Lab Testing



- Samples arrive at the Lab
  - Must be checked in *immediately* with date received
  - Verify DMF in the System matches what's on label
- Testing is conducted
  - DMF selection at check-in shows users some expected features of the mix, dry-back, etc
- Samples are Approved for Pay Wizard
  - Once all tests are complete, samples are approved



# Lab Testing

- Checking in samples allows us to verify the correct DMF was entered and allows a real-time analysis of our Labs' workload
- The sample will pull in data from the verified DMF to allow accurate testing conditions

Sample Check-In Summary

Refresh Check-in

Show 10 entries Search:

Sample ID	District	Sample Taken Date	System DMF	HMA DMF	Check-in Date	Check-in
R179122400001	Unknown	05/15/2018		Could not match to a DMF	03/29/2019	Check-in
R183403540111	Greenfield	05/03/2018	193323001	193323001	03/29/2019	Check-in
R183403541011	Greenfield	05/03/2018		Match DMF from Sample box	03/29/2019	Check-in
R193123400005	Greenfield	05/24/2018	193317001	193317001	03/29/2019	Check-in

Showing 1 to 4 of 4 entries Previous 1 Next

Sample Lab Results

Sample ID: R193123400005 DMF: 193317001 Gyration, Nini/Ndex/Nmax: 2.505

Material: QC/QA HMA 19.0mm (3/4 in) Inter, Cat 3 Mass @ Ndes: 2.405

Lot/Sublot: 1 / 2 Sample Date: 05/24/2018 Log Date: 12/19/2018

General Comment

T166 T209 ITM571 and ITM590 T30 T331 T84 T85

(\*) Denotes required fields



# Lab Testing

- Summary grid contains unsynced test result data for a user

(\*) Denotes required fields

\*Test Type: 571, 590-1, 590-2

Extraction Data	
*Weight of Sample (A)	Gram
*Dried Aggregate (B)	Gram
Cup Fines (C)	Gram
Filter Fines (D)	Gram
Total Aggregate & Fines (E)	Gram
% Bituminous (F)	%
*Testing Technician Id	lbgootee
*Test Completion Date	03/29/2019

Fines Recovery	
*Cup & Fines C <sub>f</sub>	Gram
*Cup c	Gram
Cup Fines [C <sub>f</sub> - c] (C)	Gram

Filter Fines	
*Dried Filter & Fines D <sub>f</sub>	Gram
*Filter f	Gram
Filter Fines [D <sub>f</sub> - f] (D)	Gram

Add Test Method

Test Methods:

Type	A	B	C <sub>f</sub>	c	C	D <sub>f</sub>	f	D	E	F	Tester	Test Date	Remove
No Tests found													

Summary Grid

Upload Selected Upload All

Show 10 entries Search:

Date	Contract ID	Type	Description	Status	Action
05/03/2018	IR-34001	Lab	R183403540111 [ No Tests ]	Ready	<a href="#">✎</a> <a href="#">🗑</a>
05/24/2018	IR-34001	Lab	R193123400005 [ T166-4; IT571-1; ]	Ready	<a href="#">✎</a> <a href="#">🗑</a>

Showing 1 to 2 of 2 entries Previous 1 Next

- Each test form is designed to follow testing procedure, with intent being direct data entry by Technicians



# Lab Testing

- When full battery of tests are complete, sample must be Approved for Pay Wizard
- Approval screen summarizes test results & relates them to expected results per DMF

▼ Approve for Pay Wizard

Refresh Approval

Show 10 entries Search:

Sample ID	Test Info	Accepted Date	Accept
R193123400005	Tests: Mix % Binder - 6.3   Mix Gmm -   Pill Avg Gmb - 2.408 DMF: Mix % Binder - 4.8   Mix Gmm - 2.505   Pill Avg Gmb - 2.405 T166Pill 2/2   T166Core 2/2   T209 0/1   T30 1/3   T331Pill 0/0   T331Core 1/0 ITM571 1/1   ITM590-1 0/1   ITM590-2 0/1   T84 0/1   T85 0/1	<input type="text"/>	Approve for Pay Wizard

Showing 1 to 1 of 1 entries

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# HMA Pay Wizard



- QC data is entered by P/S when DMF is available
  - Immediately on sync if using HMA Tracker or FA 530 Form
  - After District Support ticket is requested otherwise
- In “Add Sample” screen, verify DMF and Rep. Qty
- When corresponding INDOT QA samples are Approved for Pay Wizard, notify P/S of results
- Samples appealed or accepted directly in app by P/S
- Final results are available after Appeals are finalized



# HMA Pay Wizard

- P/S will not see a Contract until they have added an associated sample via the “Add Sample” screen
- Available Contracts will be listed in Summary as they are added by P/S

The 'Add Sample' form contains the following fields:

- Contract: [text input]
- CLN: [text input]
- DMF: [text input]
- Sample Id: [text input]
- Lot/Sublot: [text input]
- Sample Date: [text input, value: 04/15/2019]
- Lot: [dropdown menu]
- Sublot: [dropdown menu]
- Mix % Binder: [dropdown menu]
- Mix Gmm: [dropdown menu]
- GMB: [dropdown menu]
- Gmb: [dropdown menu]

Buttons: Add Sample (orange), SAVE (blue)

Summary table with columns: CLN, Lot, SLs, Acceptance By, DMF, Last Updated.

CLN	Lot	SLs	Acceptance By	DMF	Last Updated
0030	1	5	PWL		03/17/2020

Page 1 of 1 items



# HMA Pay Wizard

- QC data is available as P/S enters it
- Quantity of sublots and whether Lot is complete is noted by P/S in “Add Sample” screen

QC											
QC	QA	Appeal Results	Pay Adjustments								Return To Summary
Contract: 00000 CLN: 0030 DMF: 00000000 Lot: 1 Acceptance: PWL Appeal window is open and closes the end of day 03/24/2020											
QC Results	Sample Date	Related Sample Id	Rep. Qty (Tons)	Mix % Binder	Mix Gmm	Pill 1 Gmb	Pill 2 Gmb	Pill Avg. Gmb	Core A Gmb	Core B Gmb	
Sublot 1	06/10/2019	00000000	600.00	5.90	2.495	2.368	2.357	2.363	2.410	2.410	
Sublot 2	06/10/2019	00000000	600.00	6.30	2.493	2.382	2.376	2.379	2.394	2.428	
Sublot 3	06/10/2019	00000000	600.00	6.30	2.500	2.388	2.389	2.388	2.373	2.374	
Sublot 4	06/11/2019	00000000	600.00	6.07	2.491	2.389	2.389	2.389	2.355	2.378	
Sublot 5	06/11/2019	00000000	600.00	5.90	2.485	2.395	2.394	2.395	2.343	2.374	



# HMA Pay Wizard

- When appeal window is opened, P/S can request a test to be re-run using backup plates or cores
- Pre-final adjustments are available to aide in decision making

Appeal Confirmation

Contract: [redacted] CLN:0018  
DMF: [redacted] Lot:1 Sublot: 2  
 Appeal Core A  Appeal Core B

Are you sure you want to appeal Sample [redacted] and Lot 1 / Sublot 2? An appeal authorization from this screen is final and any appeal results are final.

GO BACK CONFIRM

QA/QC Return To Summary

QC QAA Appeal Results Pay Adjustments

Contract: [redacted] CLN: 0018 DMF: [redacted] Lot: 1 Acceptance: Volumetric

QA Results	Sample Date	Related Sample Id	Rep. Qty (Tons)	Mix % Binder	Mix Gmm	Pill 1 Gmb	Pill 2 Gmb	Pill Avg. Gmb	Core A Gmb	Core B Gmb
Sublot 1	06/18/2019	[redacted]	1000.00	4.72	2.480	2.395	2.385	2.390	2.292	2.277
Sublot 2	06/18/2019	[redacted]	1000.00	4.57	2.486	2.397	2.399	2.398	2.299	2.371

  

QA/QC Δ	Mix % Binder	Mix Gmm	Pill Avg. Gmb	Core A Gmb	Core B Gmb	Appeal	Accept Results	Status
Sublot 1	0.42	0.008	0.002	0.006	0.001	Appealed	Accept	
Sublot 2	0.40	0.001	0.000	0.068	0.073	Appeal	Accept	

- Appeal requests and appeal results are final

# HMA Pay Wizard



- Final adjustment amounts are available on the Pay Adjustment tab once appeal testing is done

Volumetric Pay Adjustments										
<a href="#">QC</a> <a href="#">QAA</a> <a href="#">Appeal Results</a> <a href="#">Pay Adjustments</a>										<a href="#">Return To Summary</a>
<a href="#">Print</a>										
Contract: <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span> CLN: 0029              DMF: <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span> Lot: 1              Acceptance: Volumetric										
QA/Appeal Unified	Sample Date	Related Sample Id	Rep. Qty (Tons)	Mix % Binder	Mix Gmm	Pill 1 Gmb	Pill 2 Gmb	Pill Avg. Gmb	Core A Gmb	Core B Gmb
Sublot 1	06/17/2020	<span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	600.00	5.48	2.524	2.420	2.416	2.418	2.440	2.368
Sublot 2	06/17/2020	<span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	600.00	5.44	2.531	2.394	2.398	2.396	2.372	2.390
Sublot 3	06/17/2020	<span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	600.00	5.51	2.529	2.400	2.403	2.402	2.350	2.397
Sublot 4	06/17/2020	<span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	600.00	5.41	2.534	2.396	2.401	2.399	2.377	2.389
INDOT T30 Detail										
Mix Properties for Acceptance										
Acceptance Results and Pay Factors, Final										
	% Air Voids Dev from DMF	Air Voids Pay Factor	% Vbe Dev from Spec	Vbe Pay Factor	% Density Core Average	Density Pay Factor	SCPF	Adj. Amt		
Sublot 1	-0.8	1.00	0.8	1.05	95.2	1.05	1.04	\$1,464.00		
Sublot 2	0.3	1.05	0.4	1.04	94.1	1.01	1.03	\$1,098.00		
Sublot 3	0.0	1.05	0.5	1.05	93.9	1.00	1.03	\$1,098.00		
Sublot 4	0.3	1.05	0.3	1.03	94.0	1.00	1.03	\$1,098.00		



# Frequently Asked Questions

- A list of common issues and solutions, and how to avoid them
  - Producer
    - Contact is District Testing
  - District Testing
    - Contact is cmsupport
  - INDOT Testing Labs
    - Contact is District Testing



# Producer/Supplier FAQs

- Sample ID is not working for QC data entry
  - Ensure correct ID, and that it matches sample box
  - Data may be incomplete:
    - DMF may be missing
      - District Hubs or Testing Lab will verify DMF on check-in
    - Contract association may be missing
- QC data was entered incorrectly
  - Contact District Testing with Sample ID & data points to be corrected



# Producer/Supplier FAQs

- Trying to extend a Lot or mark a Lot complete
  - Fix released June 20th
  - Producer needs to mark “Yes” or “No” when prompted “Will this Sublot finish the Lot?”
  - If a Lot is not marked complete but should have been, or if Sublots need rolled into a previous Lot, contact District Testing



# District Testing FAQs

- Test data in SiteManager but not Pay Wizard
  - QC data must exist or QA data will not display
  - If QC data does exist:
    - Most likely the sample was not Approved for Pay Wizard in Lab Testing, or for some reason cannot be
    - A sample cannot be Approved for Pay Wizard if it has been Authorized and/or marked Complete in SiteManager
    - Ensure it is in Pending status and see if the testing lab can Approve for Pay Wizard



# District Testing FAQs

- Incorrect QA data displays in Pay Wizard
  - District can correct test data in SiteManager and it will be immediately available in Pay Wizard
- Incorrect Appeal Windows
  - Will be adjustable with upcoming Admin role
    - Until available, contact [cmsupport@indot.in.gov](mailto:cmsupport@indot.in.gov)
    - Any time data is changed, emails that may have been automated will not be. Notify PE/S and P/S manually that updates exist and to review



# District Testing FAQs

- Extended Lot or Sublot error, Lot needs to be marked complete
  - Will be adjustable with upcoming Admin role
    - Until role is available, contact [cmsupport@indot.in.gov](mailto:cmsupport@indot.in.gov) & notify PE/S and Producer/Supplier
- Calculation errors, rounding errors, incorrect appeal tolerances, programming errors
  - Contact Nathan Awwad



# District Testing FAQs

- Updating Rep. Qty. / tonnage for a subplot
  - Ensure the PE/S changes the 'Rep Qty' in the 'Contract' tab of the material record and on Basic Sample Data tab in SiteManager
    - If done prior to QC entry, will be correct in Pay Wizard
    - If QC data has already been entered:
      - Ensure Material Record in SiteManager is updated
      - Will be adjustable with upcoming Admin role
        - Until role is available, contact [cmsupport@indot.in.gov](mailto:cmsupport@indot.in.gov) & notify PE/S and Producer/Supplier



# INDOT Testing Labs FAQs

- Sample does not show in Check-in screen
  - The “Copy sample” function has likely been used in SM
    - A system-wide fix for this is forthcoming
  - Contact District Testing
    - Delete “Check-in Date” and “Lab ID” from “Other” tab
  - Lab can then check the sample in
- Sample was Approved for Pay Wizard with only partial testing complete, or a test did not sync to SiteManager
  - Contact [cmsupport@indot.in.gov](mailto:cmsupport@indot.in.gov)



# Further Resources

- Recording and Presentation will be made available upon request if you aren't signed up for INDOT Construction or Materials email distribution list
- All manuals are available at <https://erms12c.indot.in.gov/sitemanagermanuals/>  
(Hint: select key word filters!)
- Our systems are frequently being enhanced and improved; feel free to send feedback, suggestions and requests to [cmsupport@indot.in.gov](mailto:cmsupport@indot.in.gov)