

# PAPA Regional Technical Meeting

**March 20, 2025**  
**8:00 AM to 3:00 PM**  
**District 5**

Leonard Walutes  
District Materials Manager  
(610) 871-4424  
[LWALUTES@pa.gov](mailto:LWALUTES@pa.gov)



# Agenda

1. 2024 Asphalt Mix Testing Results
2. 2024 Longitudinal Joint Density Performance
3. 2025 Planned Construction Projects
4. 2025 – 2026 District Rehabilitation/Reconstruction Projects
5. 2025 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District EPD Status
8. District 6.3 mm & SMA Projects
9. District RAP Mix Percentages
10. District BMD HWTT/IDEAL-CT Implementation
11. District Innovations & Best Practices
12. 2024 District Issues – Problems
13. 2024 District Changes - Direction

# 2024 Asphalt Mix Testing

## Testing:

- 127 Lots- Mixture Acceptance by box sample
- 112 Lots – Density Acceptance by pavement core

## Failure:

- 1- AC Content failures
- 2- Gradation failures
  - #2 200 Sieve -
  - #0 Primary Control Sieve -
- 0 - Density failures

## Retests Requested:

- # Requested = 4
- Retest Results -
  - # passed = 2
  - # failed = 2

# 2024 Asphalt Mix Testing

## Percent Pay:

- AC Content
  - >100%: #61
  - 100%: #43
  - <100%: #23
- Gradation: No. 200 Sieve
  - >100%: #63
  - 100%: #44
  - <100%: #20

## Percent Pay:

- Gradation: PCS
  - >100%: #56
  - 100%: #0
  - <100%: #25
- Density
  - >100%: #57
  - 100%: #42
  - <100%: #13

# 2024 Longitudinal Joint Density Performance

	Longitudinal Joint Density Summary						
Year	2024	2023	2022	2021	2020	2019	2018
Lots Tested	<b>28</b>	<b>8</b>	<b>14</b>	<b>8</b>	<b>10</b>	<b>1</b>	<b>3</b>
% Density Range	<b>87.0– 98.5</b>	<b>85.7- 94.3</b>	<b>88.9- 97.5</b>	<b>90.4- 96.8</b>	<b>89.6- 97.3</b>	<b>91.4- 95.1</b>	<b>87.4- 92.9</b>
% Average Density	<b>93.0</b>	<b>90.5</b>	<b>93.1</b>	<b>93.5</b>	<b>92.2</b>	<b>93.9</b>	<b>91.0</b>
Incentive Lots	<b>18</b>						
100% Payment Lots	<b>8</b>						
Disincentive Lots	<b>1</b>						
Total \$ for Incentive Lots	<b>103,725</b>	<b>10,250</b>	<b>114,000</b>	<b>36,500</b>	<b>0</b>	<b>4,150</b>	<b>40,250</b>
Total \$ for Disincentive Lots	<b>-10,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Delta (Incentive – Disincentive)	<b>93,725</b>	<b>10,250</b>	<b>114,000</b>	<b>36,500</b>	<b>0</b>	<b>4,150</b>	<b>40,250</b>

REF: Section 405 Evaluation of Bituminous Pavement Longitudinal Joint Density and Payment of Incentive/Disincentive

# ▶ 2024 Longitudinal Joint Density Performance

- Longitudinal Joint Type
  - Which joint type is being utilized most?
    - Vertical (Butt)
    - Tapered (Wedge) is most used.
  - Are you having any longitudinal joint issues?
    - If so, please explain. Focus on keeping a straight line and away from paint lines.
  - Did you or are you planning to use J-Band (**Void Reduction Asphalt Membrane VRAM**) instead of PUB 408 Section 405? If you specified/utilized, what are your observations?
    - Completed 10 projects with 4 in 2024 and 1+ coming in 2025. So far material is performing well.
  - Do contractors or staff in your District need any training on how to construct a quality longitudinal pavement joint?
    - no

# ▶ 2025 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**
  - ECMS #110860, Let Date 4/28/25, SR 3055, Berks County, 7,152 Tons
  - ECMS #110183, Let Date 7/10/25, SR 29, Lehigh County, 12,562 Tons
  - ECMS #101869, Let Date 5/08/25, SR 1015, Lehigh County, 6,425 Tons
  - ECMS #118911, Let Date 5/22/25, SR 54, Schuylkill County, 7,345 tons
  - ECMS #115236, Let date 4/17/25, SR 611, Northampton County, 7,295 tons
  - ECMS #102312, Let Date 8/21/25, SR 309, Lehigh County, 31,608 tons

# ▶ 2025 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**
  - ECMS #109993, Let Date 8/21/25, SR 309, Schuylkill County, 8,788 Tons
  - ECMS #101715, Let Date 4/17/25, SR 625, Berks County, 3,674 Tons
  - ECMS #95398, Let Date 12/11/25, SR 209, Monroe County, 4,814 Tons
  - ECMS #101607, Let Date 5/22/25, SR 1006, Schuylkill County, 3,380 tons
  - ECMS #117250, Let Date 4/10/25, SR 209, Monroe County, 11,978 tons
  - ECMS 101673, Let Date 4/10/25, SR 715, Monroe County, 9,396 tons



# District Rehabilitation Projects

- Have you bid and/or completed any crack & seat, break & seat, or rubblization projects with asphalt structural overlay in the past few years?
  - If so, please briefly discuss project and any take-aways?
    - SR 33/209 Monroe County completed in 2011, SR 80 in Carbon County completed in 2019.
    - SR 33 visibly is holding up much better than any other section of SR 33 paved around the same time.
    - SR 80 was able to pave 156,00 tons in one paving season and received a \$106,000 IRI bonus
- Do you have any projects programmed for 2025 or 2026 or in future construction seasons? If so, where and what is the ECMS#?  
No

# District Reconstruction Projects

- Do you have any highway reconstruction projects programmed to be let for 2025, 2026 or 2027 construction seasons? If so, when (anticipated let date), where (County, SR - Segment – Offsets) and what is the ECMS# (if known)?
  - 2026 – ECMS 10867 SR 61-15M Let 3/26 Berks County.
  - 2026 – ECMS 61972 SR 222-28M Let 7/26 Berks County
    - 2026 – ECMS 102160 SR 309-19M Let 4/26 Lehigh County
    - 2026 - ECMS 74979 SR 611-11M Let 2/26 Monroe County.
    - 2027 - ECMS 114439 SR 422-PH1 Let 7/27 Berks County

# ▶ 2025 Maintenance Asphalt Tons (Estimated)

County	9.5 mm	9.5 mm LVR	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	25.0 mm LVR
5-1		33,335					
5-2					8400		
5-3		2993			10,737		
5-4		5480			600		
5-5					6050		
5-6		6300			10,365		
<b>TOTAL TONS</b>		<b>48,108</b>			<b>36,152</b>		

LVR = Low Volume Roads

## District EPD Status

- Please discuss your experience with the implementation of the Asphalt EPD Policy & SSP.
  - Pluses
  - Minuses Slight Delay on Design submittals.
  - Recommendations
- Are contractors in your District having any issues complying?

No Issues so far.

## District 6.3 mm & SMA Projects

- List 2025 6.3 mm Thin Lift projects
  1. None
- List 2025 SMA Projects & Note those with 10% RAP
  1. ECMS # 72823 SR 80-23M (No Rap)
- List any 2025 or 2026 HiMOD SMA Pilot Projects?
  1. ECMS #72807 SR 78-22M (Pilot)
- What did you learn from any 2024 HiMOD Projects?
  - No Project completed.

# District 2024 RAP Mix Percentages

- Please provide average RAP % for the following mixes:
  - Wearing - 17% and total tons 182,791
  - Binder - 17% and total tons 77,857
  - Base – 21 % and total tons 64,327
  - Average RAP % of all mixes – 18% and total tons 324,975
- How do we overcome the impediments to increasing RAP% in the mixes?
  - ??
  - ??
  - ??

## DISTRICT STATUS BMD HWTT/IDEAL-CT TESTING

- Please discuss District opinion of BMD status & next steps.
- All suppliers are current with required testing.
- 2025 designs maybe slightly delayed due to additional wearing SRLs being required.
- Please discuss any issues, problems, opportunities, successes, etc. you would care to share.
- Some producers have acquired their own equipment. 3<sup>rd</sup> party testing can be a slow turn around.

# District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
  - Fiber Modified Wearing Course (Aramid) completed in 2024.
  - Continued success with our district informational coring program to assist Pave Design Unit with pavement history accuracy.



## 2024 District Issues - Problems

- Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?
  - Completing CS-9000 form and submitting through PPCC to activate e-ticketing.
  - Bring up in Pre-Construction meetings.

## 2025 District Changes - Direction

- Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.
  - ✓ QC techs now have the ability to create aggregate CS-4171 certification through eCAMMS similar to asphalt.
- Any staff changes since last year?
  - ✓ 2 new TCIs recently hired covering the northern part of the district.

# Audience Questions/Comments???



Leonard Walutes  
District Material Manager  
610-871-4424  
lwalutes@pa.gov