

 Manitoba Infrastructure MATERIALS ENGINEERING BRANCH	Standard No.: MEB-P053
	<u>Effective Date</u> Current: March 2020 Previous: None
	Page 1 of 16
Standard Practice for: Rating Segregated areas on Bituminous Pavement	

1.0 SCOPE

This Standard Practice outlines the process to rate segregated areas on bituminous pavement.

2.0 REFERENCE STANDARDS

NCHRP Report

441 Segregation in Hot-Mix Asphalt Pavements

Alberta Ministry of Transportation

Segregation Rating Manual

3.0 DEFINITIONS

Segregation: A condition of an asphalt pavement characterized by areas with comparatively coarser or finer texture than that of the surrounding pavement.

Slight Segregation: The matrix, asphalt cement and fine aggregate is in place between the coarse aggregate. However, there is more stone in comparison to the surrounding acceptable mix.

Moderate Segregation: Significantly more stone than the surrounding mix; moderately segregated areas usually exhibit a lack of surrounding matrix.

Severe Segregation: Appears as an area of very stony mix, stone against stone, with very little or no matrix.

Paver Streak: Appears as a continuous or semi-continuous longitudinal "streak" located within the paver "mat".

4.0 GENERAL

The Standard is intended to promote uniform interpretation leading to fair and consistent rating of segregated areas.

Reference photos are provided to help classify the severity of pavement segregation and identify paver streak.

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5.0 PROCEDURE

The bituminous pavement shall be marked with brackets on both sides of the segregated area, labeled in the centre with a level of severity and recorded in the Inspector's field book. The labeling for types of segregations are as follows:

Label	Level of Severity in Segregation
S	Slight
M	Moderate
SV	Severe
CP	Paver Streak

6.0 REFERENCE PHOTOGRAPHS

The photographs can be used as a reference for rating segregation on bituminous pavements.



6.1 Slight Segregation



Figure 1- Slight Segregation



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Figure 2 - Slight Segregation



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Figure 3 - Slight Segregation



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Figure 4 - Slight Segregation



6.2 Moderate Segregation



Figure 5 - Moderate Segregation



Standard Practice for: **Rating Segregated areas on Bituminous Pavement**



Figure 6 - Moderate Segregation



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Figure 7 - Moderate Segregation



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Figure 8 - Moderate (bordering on severe) Segregation



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Figure 9 - Moderate (bordering on severe) Segregation



6.3 Severe Segregation



Figure 10 - Severe Segregation



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Figure 11 - Severe Segregation



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Figure 12 - Severe Segregation



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Figure 13 - Paver Streak



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Figure 14 - Paver Streak