



MISSOURI HOUSE OF REPRESENTATIVES
WITNESS APPEARANCE FORM

BILL NUMBER: HB 2447		DATE: 2/28/2022	
COMMITTEE: Conservation and Natural Resources			
TESTIFYING: <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
WITNESS NAME			
BUSINESS/ORGANIZATION:			
WITNESS NAME: CHAD HANSEN		PHONE NUMBER: 636-379-1830	
BUSINESS/ORGANIZATION NAME: HANSEN RAS		TITLE: MEMBER	
ADDRESS: 104 HANSEN COURT			
CITY: O'FALLON		STATE: MO	ZIP: 63366
EMAIL:	ATTENDANCE:	SUBMIT DATE: 2/28/2022 12:00 AM	

THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.



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WITNESS NAME			
INDIVIDUAL:			
WITNESS NAME: KENNY CHIARELLI, JR.		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: 2/28/2022 12:00 AM
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WITNESS NAME			
INDIVIDUAL:			
WITNESS NAME: VICTOR L GALLIVAN		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: lee@gallivanconsultinginc.com	ATTENDANCE: Written		SUBMIT DATE: 2/28/2022 11:16 AM
THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.			

Asphalt Shingles is a composite product that consists of fiber backing, coarse and fine granules mixed together with hard asphalt binder to provide the needed durability for varying environmental conditions across the country. The use of Recycled Asphalt Shingles (RAS) has been used for years across the country and has shown to be beneficial to both the environment and industry by reducing the consumption of virgin materials without detrimental results. The origin of RAS materials includes both manufactured waste scrap shingles and post-consumer tear off scrap shingles. Recycled Asphalt Shingles (RAS) which is processed has been placed successfully on existing gravel roadways, new or existing driveways and other low volume roadway applications. RAS application on gravel roadways needs to be monitored and applied in the 20-40 % range depending on the gradation of the gravel materials. Typical installation of RAS on gravel roads consists of the direct dump and spread or the use of a spreader system to ensure a uniform distribution of the RAS materials across the roadway. Either installation method needs to control of the release of airborne particles (dust) from the roadway onto adjacent properties. The RAS is then blended with the existing gravel materials, rolled to provide a uniform/smooth roadway surface and then followed by an application of an emulsion seal coat to seal the final mixture together. The emulsion seal coat material is typical in all states and has been demonstrated to not be detrimental to the environment. The State of Washington includes a list of interesting applications geared to their specific area "... on gravel roads and as an additive to cold patch asphalt, horse arenas, unpaved home driveways, landscaping, animal bedding, trail construction and other purposes". Regarding specifically the use of RAS in gravel roadways, successful applications can be found in multiple published reports from Illinois (Toll Road), Iowa DOT, Minnesota DOT, Vermont (AOT), and Washington DOT. Only a few references are provided: [1] Grodinsky, C., Plunkett, N., and Surwilo, J., Performance of Recycled Asphalt Shingles for Road Applications, Final-Report, State of Vermont Agency of Natural Resources, 2012. <https://p2infohouse.org/ref/23/22746.pdf> [2] Wood, Thomas J., Eddie N. Johnson, and Melissa K. Cole. Research Using Waste Shingles for Stabilization or Dust Control for Gravel Roads and Shoulders. No. MN/RC 2014-06. Department of Transportation, Research Services & Library, 2014. <https://www.dot.state.mn.us/research/TS/2014/201406.pdf> [3] Marks, V.J. and G. Petermeier. Let me shingle your roadway, Interim Report for Iowa DOT Research Project HR2079, Iowa Department of Transportation, 1997. http://publications.iowa.gov/19901/1/IADOT_hr_2079interim_Let_Me_Shingle_Your_Roadway_1997.pdf [4] Policy on Recycling Asphalt Roofing Shingles in Vermont. State of Vermont Agency of Natural Resources, 2015. <https://dec.vermont.gov/sites/dec/files/wmp/SolidWaste/Documents/FINALShingleMgtPolicy4.pdf> [5] Anderson, Ian. Recycled Asphalt Shingles (RAS) in Town Gravel Roads, Initial Report, State of Vermont Agency of Transportation, 2019.

https://vtrans.vermont.gov/sites/aot/files/planning/documents/research/publishedreports/2019-06_RASGravel.pdf

In addition, it needs to be noted that Reclaimed Asphalt Pavement (RAP) which is the most recycled product in the country is used extensively in asphalt pavements and is also used on gravel roads without restrictions. It should be noted that Recycled Asphalt Shingles (RAS) is also used in asphalt pavements and the same consideration should be extended to gravel roads.

Victor L. Gallivan, P.E., President
Gallivan Consulting Inc.



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WITNESS NAME			
INDIVIDUAL:			
WITNESS NAME: ARNIE C. AC DIENOFF-STATE PUBLIC ADVOCATE		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: arniedienoff@yahoo.com		ATTENDANCE: Written	SUBMIT DATE: 2/28/2022 11:36 PM

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I am in Opposition To This Bill. We Need some Way of Tracking and Knowing Where These Recycled Shingle Materials Are Being Used.



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WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: DAVE OVERFELT		PHONE NUMBER: 573-230-6006	
REPRESENTING: NATIONAL WASTE AND RECYCLING ASSOCIATION		TITLE: CHAPTER ADVISOR	
ADDRESS: 1917 COLE			
CITY: JEFFERSON CITY		STATE: MO	ZIP: 65109
EMAIL: dsoverfelt@gmail.com	ATTENDANCE: Written		SUBMIT DATE: 2/28/2022 1:49 PM

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We do not want a situation like Illinois where massive piles of abandoned asphalt shingles have been created because policy makers were assured that they would be recovered and used in asphalt etc. Illinois made the mistake of listening to shingle collectors and banned them from landfills. For years tire collectors told local policy makers that they had markets for waste tires. These same collectors accumulated over 15 million tires that the state had to pay to clean up through consumer tire taxes. My industry does not want to witness a repeat. Shingle collectors should have to follow the same regulations that waste tire collectors and processors had to follow in Missouri to assure that abandoned piles do not grow. Bonding and amount of product that can be accumulated are possible protections among others. We do not need asphalt shingle fires like the multiple number of tire fires that occurred in Missouri. The leachate from these fires is harmful to the waterways. Processors and collectors need to be accountable.



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WITNESS NAME			
REGISTERED LOBBYIST:			
WITNESS NAME: MICHAEL BERG		PHONE NUMBER: 314-456-1954	
REPRESENTING: SIERRA CLUB MISSOURI CHAPTER		TITLE: SIERRA CLUB MISSOURI CHAPTER POLITICAL DIRECTOR	
ADDRESS: 2818 SUTTON BLVD			
CITY: SAINT LOUIS		STATE: MO	ZIP: 63143
EMAIL: Michael.Berg@sierraclub.org	ATTENDANCE: Written	SUBMIT DATE: 2/28/2022 5:14 PM	
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Recycled asphalt shingles should be regulated as solid waste in order to protect the soil and groundwater from tar, petrochemicals and other potentially toxic material. Shingles should not be considered clean fill.



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WITNESS NAME			
INDIVIDUAL:			
WITNESS NAME: SUSAN GIBSON		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: Onesuegibson@protonmail.com	ATTENDANCE: Written		SUBMIT DATE: 2/26/2022 4:05 PM
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This would contaminate the soil. Please oppose.			