

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

INTEROFFICE COMMUNICATION

TO: Daniel Eichinger, Acting Director

THROUGH: Aaron B. Keatley, Chief Deputy Director

FROM: Elizabeth M. Browne, Director *EMB*
Materials Management Division

DATE: February 23, 2023

SUBJECT: Approval of Scrap Tire Market Development Grant Recommendations for Fiscal Year 2023

The Materials Management Division (MMD), Solid Waste Section (SWS), Sustainable Materials Management Unit (SMMU), Scrap Tire Program (Program) has completed the review of the applications received for the fiscal year (FY) 2023 Scrap Tire Market Development Grant Funding under Part 169, Scrap Tires, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and is requesting approval to fund the recommended projects.

Sixteen eligible Market Development Grant applications were received requesting \$6,303,406.74 in funding. Based on the remaining appropriated funds of \$2,054,860, we are recommending the funding of seven Market Development Grant projects; these will utilize a total of \$2,037,771 from the Scrap Tire Regulatory Fund for FY 2023.

The spreadsheet showing the eligible projects, ineligible projects, unfunded projects, and recommended funding amounts is attached. The recommended projects are:

- **Michigan Technological University (MTU) – Dixie Road: \$418,814**
MTU will work with the Saginaw County Road Commission (CRC) to rehabilitate 2.3 miles of Dixie Highway with a dry process rubber modified asphalt overlay, which includes the use of a rubberized Stress Absorbing Membrane Interlayer. The existing concrete pavement surface is 80 years old. An additional six miles of the project will be used as a control comparison section. Project partners also include the Michigan Department of Transportation (MDOT) and the Asphalt Pavement Association of Michigan (APAM). The Federal Highway Administration (FHA) will be the project manager of the 6-mile control segment and will be familiarized with the grant project during its installation.
- **MTU – Midland Road: \$482,549**
MTU will work with Bay CRC to pave a one-mile section of Midland Road in Bay County, utilizing dry process rubber technology. Midland Road is being upgraded in preparation for upcoming US-10 repaving. Project partners will be the MDOT, FHA, Midland Area Transportation Study, the Metropolitan Planning Organization, APAM, and the Michigan Soybean Committee. The MDOT will work with the team on the rubber asphalt mix design and construction evaluation throughout the entire process.

- **Bay County Road Commission: \$208,947**
Rubber modified chip seal (RMCS) will be installed on 8 miles (16 lane miles) of crushed and shaped surface roadways in Bay County. This project includes a partnerships with Entech, Inc., MTU, Bit-Mat, Inc., and Bunting Stone and Gravel. Roads will be Pavement Surface Evaluation and Rating (PASER) rated prior to the project, and those roads rating between 3 and 6 will be chip sealed. Bay County considers this project the “final step” in establishing use of RMCS as a permanent preventative maintenance technique in Bay County without EGLE grant funding. Grantee requested funding for 34 lane miles, but due to limited grant funding, only 16 lane miles are being funded.
- **St. Joseph County Road Commission: \$256,000**
RMCS will be installed on 8 miles (16 lane miles) of crushed and shaped surface roadways in St. Joseph County. This project includes a partnership with Entech, Inc. Roads will be PASER rated following project completion and monitored annually thereafter to determine the longevity of the product. Grantee requested funding for 25.38 lane miles, but due to limited grant funding, only 16 lane miles are being funded.
- **Cobalt Holdings, LLC: \$573,530**
Installation of equipment for processing oversized tires/off-the-road tires (OTR), including a tire chopper, Eriez drives and tables, a larger forklift, trailers, shaker box, punch cutter, conveyors, mixer, presses, and molds. Installation of equipment for making finished products, including agricultural mats. The equipment to be installed includes hydraulic presses, mixing equipment, conveyors, and a larger air compressor. This equipment will allow Cobalt to process OTR, which is rare in Michigan, and make a product with the resulting crumb rubber. The addition of agricultural mat production in the Midwest is also beneficial due to current shipping costs.
- **Porous Pave: \$60,000**
Funding 50% of the cost of installation of a rock washing system (50% = \$30,000). Additional funding of \$30,000 for Porous Pave/HydroBlox installation development and testing. HydroBlox and Goodwill Industries of West Michigan, Inc. (Goodwill), are working in partnership. Goodwill locations in Michigan will provide recyclable plastic materials and HydroBlox will be produced in west Michigan. Porous Pave and HydroBlox used in combination may solve many site drainage issues.
- **Ingham County Road Department (ICRD): \$37,931**
ICRD road rehabilitation project on Fitchburg Road (Parman Road to 4,000 feet west) including installation of approximately 5,510 cubic yards of tire derived aggregate (TDA) in a 750-foot span of the project. Use of the TDA as lightweight fill over deficient subgrade soils will utilize approximately 250,000 passenger tire equivalents. The project will provide design parameters for the Michigan Department of Transportation and Federal Highway Administration for evaluation to determine eligibility for future federal funding for use of recycled tire material as lightweight TDA. The project will be funded \$37,931 from the FY 2023 market development grant funds and a scope change for an ICRD MD grant project funded in 2021 that could not be completed due to supply chain issues (FY 2021 grant funding of \$450,000). Total amount granted for completion of the project is \$487,931.

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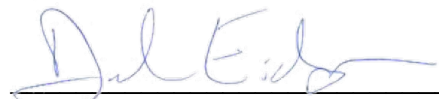
If you have any questions, please contact Jeff Spencer, Supervisor, SMMU, SWS, MMD, at 517-281-4411; SpencerJ3@Michigan.gov; or you may contact me at 517-242-2746 or BrowneE@Michigan.gov.

Approved:



Aaron B. Keatley, Chief Deputy Director

2/27/2023
Date



Daniel Eichinger, Acting Director

3/3/2023
Date

Attachments

cc: Tracy Kecskemeti, EGLE
Rhonda S. Oyer, EGLE
Kathy Tetzlaff, EGLE
Jeff Spencer, EGLE
Kirsten Clemens, EGLE