

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: Dan Wyant, Director

THROUGH: Jim Sygo, Deputy Director

FROM: Bryce Feighner, P. E., Chief  
Office of Waste Management and Radiological Protection

DATE: May 6, 2014

SUBJECT: Approval of Scrap Tire Market Development Grant Recommendations for Fiscal Year 2014 (FY14)

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The Sustainable Materials Management Unit (SMMU), Office of Waste Management and Radiological Protection (OWMRP), has completed the review of the applications received for the FY14 Scrap Tire Market Development Grant Program funding under Part 169, Scrap Tires, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and is requesting your approval of the recommended projects and funding.

Twenty four (24) full grant applications were received requesting more than \$5.5 million in funding. After considering the benefits from each project, we are recommending funding nine (9) projects which will utilize \$2,503,674 from the Scrap Tire Regulatory Fund for FY14. Adequate fund balance is available to support this request.

Development of a scrap tire commodity market other than Tire Derived Fuel (TDF) is essential to the continuing success of the Scrap Tire Regulatory Program. It is anticipated that TDF use will be restricted in the near future due to more stringent air regulations. That, coupled with some of the logistical issues with transportation inherent to Michigan, could potentially leave millions of tires without an end-use market. Further development of these markets is essential to assure the continued success of the Scrap Tire Regulatory Program.

The recommendations are outlined below:

1. Michigan Technological University-Hand-assessment of air emission of rubber modified asphalt in lab and field (Grant amount requested \$336,214).

Michigan Technological University-You-low emission asphalt pavements with crumb rubber-lab and field pavement performance (Grant amount requested \$855,860).

These two projects are listed together because they rely on one another. MTU was approached by DEQ and asked to submit a proposal regarding completion of an air emission analysis for asphalt mix plants both with virgin polymer binders and rubber modified binders. This analysis would require a partnering with the other MTU application that would utilize the generated asphalt to provide enough material for a valid stack test. The stack emission issue has been one of the largest hurdles RMA has had in breaking into Michigan market use, and quite possibly the most difficult hurdle to conquer.

2. Michigan State University-Kutay-research and development of dry process for rubber modified asphalt (Grant amount requested \$500,000).

Dr. Kutay and MSU have been working on the RMA process, with DEQ, since 2011. Much of Dr. Kutay's work is known nationally and he has utilized the grant money to promote and work toward RMA establishment in Michigan. This partnership has created a useful resource and provides technical assistance upon request for many aspects involving paving and the use of rubber in the process. Students involved in this research have assisted the Scrap Tire Regulatory Program in presentations, meetings, and staff education.

3. Lapeer County-RMA paving project \$232,712 in grant funds requested.

This is the first time Lapeer county has applied. The paving would expand the public awareness of RMA as well as improve the surface of the roadways.

4. City of St. Johns-mill and resurface a local street (grant amount requested \$75,000).

This is the first time the City of St. Johns has applied. The paving in a new location would expand the public awareness of RMA as well as improve the surface of the roadways.

5. City of Vassar-mill and resurface, joint repair, overlay and repair patches on local streets (two projects totaling \$35,125).

This is the first time the City of Vassar has applied. This project demonstrates the use of Asphalt Rubber to repair traditional asphalt with RMA.

6. Saginaw County-increase percentage of rubber in RMA used to crush, shape local streets (two projects totaling \$128,063 grant funding requested).

Saginaw has paved numerous roads utilizing previous grants monies. The increase in the number of streets paved would expand the public awareness of RMA as well as improve the surface of the roadways.

7. City of Clio-mill and resurface and crush and shape local streets; parking lot (grant funding recommended for two requests, totaling \$103,800).

The City of Clio has paved numerous roads utilizing previous grants monies. The increase in the number of streets paved would expand the public awareness of RMA as well as improve the surface of the roadways.

8. Village of Birch Run-mill and resurface, and overlay on local streets (two projects totaling \$123,900).

This is similar to the previous two projects the Village of Birch Run has paved before with RMA using grant funding. The increase in the number of streets paved would expand the public awareness of RMA as well as improve the surface of the roadways.

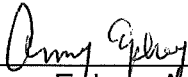
9. City of St. Clair- mill and resurface local streets, install parking lot for community park (project total \$113,000).

This is the first application from the City of St. Clair. The project is typical of others submitted this year with the exception that it includes paving of a parking lot for a community park. The park will provide more public awareness of RMA than many other street paving projects.

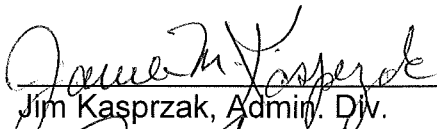
If you have any questions, please contact Michael Marshall, Program Coordinator, SMMU, Solid Waste Section, OWMRP, at 284-6586 or marshallm7@michigan.gov; or you may contact me at 284-6552.

cc: Kathy Tetzlaff, Resource Management Group  
Steve Sliver, OWMRP  
Rhonda S. Oyer, OWMRP  
Michael Marshall, OWMRP

APPROVED:

  
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Amy Epkey, Admin. Div

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Jim Kasprzak, Admin. Div.

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