

QUARTERLY PROGRESS REPORT

September 1, 2015 to November 30, 2015

PROJECT TITLE: Use of Solid Waste in Asphalt and Concrete in Florida.

PRINCIPAL INVESTIGATOR(S): Timothy G. Townsend

AFFILIATION: Professor, University of Florida
Department of Environmental Engineering Sciences

CO-PRINCIPAL INVESTIGATOR(S): Chris Ferraro

AFFILIATION: Research Assistant Professor, University of Florida
Department of Civil and Costal Engineering Sciences

COMPLETION DATE: August 31, 2016

PHONE NUMBER: 352-392-0846

PROJECT WEB SITE: <http://pages.ees.ufl.edu/townsend/research/hc15/>

Work accomplished during this reporting period:

The research team performed a literature review on the use of MSW incineration ash as a component in the manufacture of Portland cement concrete and asphalt pavement. The review included a brief examination of the use on other types of waste materials in the same application. As well as, different methods to determine structural durability and metal leaching were reviewed to better determine the best experimental approach for the project.

Finally, the group started developing a sampling plan describing the facilities to be included in the project, types of samples to be collected, sampling methodology, tests to be performed, and data analysis procedures.

Work planned for the next reporting period:

Schedule sampling trips to the facilities selected and collection of samples. Characterize samples collected. Plan future TAG meetings regarding this project.

Metrics:

Graduate Students

Name	Rank	Department	Professor	Institution
Justin Roessler	PhD student	Environmental Engineering	Timothy Townsend	University of Florida
Linda Monroy Sarmiento	PhD student	Environmental Engineering	Timothy Townsend	University of Florida
Michael Hofmeister	Master's student	Environmental Engineering	Timothy Townsend	University of Florida

Undergraduate Students

Name	Rank	Department	Professor	Institution
Ryan Hundersmark	Undergraduate Research Assistant	Environmental Engineering	Timothy Townsend	University of Florida
Kyle Clavier	Undergraduate Research Assistant	Environmental Engineering	Timothy Townsend	University of Florida

TAG Meeting: No TAG meetings were held during this period