

Indiana DOT



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EPD Benchmark Project for Indiana Pavement

Project Goals:

To create a benchmark for Indiana asphalt and concrete mixtures and their environmental impact using EPD reports. To quantify and compare the quality of asphalt and concrete mixtures with performance testing between current standard specifications for QC/QA HMA, warm mix technology, and high Reclaimed Asphalt Pavement (RAP) asphalt mixtures with a recycling agent, continuously reinforced concrete pavements (CRCP), Jointed Concrete Pavement (JCP) and PCCP Overlays.

Project Tasks:

- Develop guidance for the use of EPDs on asphalt and concrete pavement.
- Evaluate high RAP sections of asphalt pavement with a rejuvenator.
- Identify strategies to lower embodied GHGs in focal project. Provide estimates of embodied emissions, use phase emissions, end-of-service emissions and use phase excess fuel use and costs.
- Implement a sustainable asset management plan.
- Implement an entire life cycle of the pavement evaluation for GHG emissions and opportunities for reductions.

