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Project Topic: Recyclable Fine Aggregates in Concrete

Abstract

As time passes Countries are turning toward sustainable innovations and technology to promote a “green” way of living. The reason for this push for sustainable ideas is an attempt to conserve the Earth and all that inhabit it. The goal of my project was to incorporate green ideas and in hopes to contribute to the movement. The United States does not recycle materials as much as it should. My project objective is to promote the possibilities if materials were recycled more. The project basis is to take these recycled materials from a recycling plant and incorporate them into a concrete mix design. The recycled materials will replace a portion of the fine aggregates in the mix. This way a larger percentage of materials will be recycled and thus reduce the amount of waste that gets placed into landfills. As a result of this would assist in reducing carbon dioxide emissions which are a greenhouse gas that causes climate change. The end goal of the project and research which I hope to continue is for the concrete mix with recyclable materials to equal the compressive strength of a normal concrete mix.