



MSU Chemistry – Addition 1 Construction Waste Management - Outline

1. LEED Goal - Materials & Resources Credit 2.1 & 2.2 – Construction Waste Management
 - a. Goal: Salvage or recycle **75%** of weight of total waste generated during to construction of new Addition
 - b. Demolition waste recycled or salvaged:
 - i. Concrete (Recycled)
 - ii. Steel (Recycled)
 - iii. Limestone (Salvaged to MSU salvage facility)
 - iv. Bike loops (Salvaged and re-used elsewhere on campus)
 - v. Office Mailboxes (Salvaged for re-use)
 - c. Construction waste to be recycled, where resources exist:
 - i. Clean wood (pallets & dimensional lumber free of particle board, painted, or treated lumber)
 - ii. Cardboard, scrap metals, beverage containers, concrete (including wash-out)
 - iii. Block/brick scrap
 - iv. Drywall scraps (No collection point identified to date).
 - v. Acoustic ceiling scrap (No collection point identified to date).
 - vi. Carpet Scrap (No collection point identified to date).
 - d. Construction or demolition waste to be land-filled:
 - i. Floor sweepings, un-identifiable debris (Lunch wrappings, food, etc.)
 - ii. Plastics, films, and Styrofoam packing.
 - iii. Window glass
 - iv. Roofing membranes, felts, and insulation.
 - v. Building insulation scraps (batts, board, etc.)
 - vi. Caulk and adhesive waste and their respective tubes, buckets, etc.
2. Strategies for Implementation
 - a. Creation of a unit cost bid category for the implementation of the waste management program. Successful bidder was Granger Container Service.
 - b. Penalty for “Contaminated Dumpster” is **\$100 per incident**; assessed to the violating employee’s company.
 - c. Communication of the “waste diversion” effort through regular reporting at meetings and with signs on the work-site.
3. Challenges and Solutions:
 - a. There are limited resources in the Lansing area for comprehensive recycling efforts. Work on campus affords resources that are not readily available in the private market.
 - b. The Chemistry project has limited site available for separation. Frequent hauling of smaller containers relieves some of the space constraints.
 - c. Training of individual workers for compliance is difficult with changing workforce. LEED training video was developed specifically for our project.