

**01 7400 – Non-Hazardous Construction & Demolition Waste**

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Last Update: July 1, 2009

A. Description:

1. This University standard covers the requirements for the management of non-hazardous construction and demolition waste materials. University campuses have been encouraged to redirect at least 50% of their non-hazardous solid wastes (including waste from construction and demolition operations) from the waste stream. This campus standard should be used, when appropriate, to divert construction and demolition debris from disposal in landfill or incineration facilities. The intent is to redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites. Materials Resources (MR) Leadership in Energy and Environmental Design (LEED) credits are desired
2. University policy is to apply sound environmental principles in the design, construction and use of facilities. As part of the implementation of that policy the Contractor shall:
  - a. Practice efficient waste management when sizing, cutting, and installing products and materials
  - b. Use all reasonable means to divert construction and demolition waste from landfills and incinerators and to facilitate their recycling or reuse.

B. Management:

1. The project AE & Contractor shall take a pro-active, responsible role in the management of construction and demolition waste and require all subcontractors, vendors, and suppliers to participate in the effort. Construction and demolition waste includes products of demolition or removal, excess or unusable construction materials, packaging materials for construction products, and other materials generated during the construction process but not incorporated into the work. In the management of waste consideration shall be given to the availability of viable markets, the condition of the material, the ability to provide the material in suitable condition and in a quantity acceptable to available markets, and time constraints imposed by internal project completion mandates.

C. Disposal:

1. Unless otherwise specified, disposal shall be in accordance with the following:
  - a. Reuse: First consideration shall be given to salvage for reuse since little or no re-processing is necessary for this method, and less pollution is created when items are reused in their original form. Sale or donation of waste suitable for reuse shall be considered. Salvaged materials, other than those specified in other sections to be salvaged and reinstalled, shall not be used in this project.
  - b. Recycle: Waste materials not suitable for reuse, but having value as being recyclable, shall be made available for recycling whenever economically feasible.
2. Materials with no practical use or economic benefit shall be legally disposed at a landfill or incinerator

D. University Recycled Material Programs:

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1. The Purdue Gravel Pit coordinator manages the construction material program for Purdue. Projects needing clean granular fill, or solid fill disposal areas should notify the Gravel Pit Coordinator in advance.
  2. Gravel Pit Coordinator contacts:
    - a. Ron Mundell: 494-4892, rtmundell@purdue.edu
    - b. Dean Jones: 496-1711
  3. Material quantities and timing of construction demolition, excavation, and backfill should be provided to the Gravel Pit Coordinator. The project budget should include a line item for Purdue Grounds personnel to keep gravel pit areas accessible, and haul roads maintained. Granular fill materials may be available for projects. A scale house procedure is used to track quantities utilized on each project.
- E. Concrete Recycling Program:
1. Clean concrete construction debris can be disposed of at the concrete fill site located approximately 2000 lin. ft. southwest of the Airport Runway intersection. Project cost of disposal is approximately \$35/truck load. Recycled Concrete #1, #2, and #53 material is generally available for Purdue projects at \$7.75/ton (as of May, 2009).
- F. Granular Fill:
1. Clean granular fill from projects will be stockpiled as directed. Projects needing clean granular fill need to notify the Gravel Pit Coordinator
- G. Topsoil:
1. Topsoil is available from local vendors who "manufacture" topsoil. The closest private vendor supplying topsoil is 'Soilermaker'. Cost is approximately \$22/cy (as of May, 2009).
- H. Solid Fill:
1. The Contractor may use the Owner's Solid Fill Area for disposal of uncontaminated concrete, brick, stone, blacktop, soil, gravel, and similar types of road demolition material. The Contractor may also use the Owner's designated area for disposal of uncontaminated, untreated trees and shrubbery. Coordinate project needs w/ the Gravel Pit Coordinator prior to bidding.
- I. Construction Demolition Debris:
1. Building materials including scrap lumber, glass, wallboard, roofing, plumbing fixtures, wiring, insulation, steel, ductile iron or cast iron piping cannot be deposited in the solid disposal area. Such material is classified as Construction Demolition Debris and to be hauled off the premises by the contractor and disposed of in a legal and proper manner.
- J. Local Resources:
1. Soilermaker: (765) 743-9861 Provides compost, topsoil, mulch products from recycled materials.

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2. Kreager Brothers: (765) 742-7086 Recycles concrete construction material and provides #1, #2, and #53 granular material
3. Environmental Recycling Inc: (765) 429-6374 recycles building materials