

**PART 1 - GENERAL****1.1 OBJECTIVES FOR WASTE MANAGEMENT**

- .1 PWGSC's objectives in terms of waste management is to reduce by 90 % the total flux of construction/renovation/demolition (CRD) directed to a landfill. Provide Departmental Representative with documents certifying that extensive waste management (CRD) measures and procedures have been applied (recycling, reuse, recyclables and reuse).

**1.2 REFERENCE STANDARDS**

- .1 American Society for Testing and Materials (ASTM):
  - .1 ASTM E 1609 01, Standard Guide for Development and Implementation of a Pollution Prevention Program
- .2 Recycling Certification Institute (RCI):
  - .1 RCI Certification Construction and Demolition Materials Recycling

**1.3 DEFINITIONS**

- .1 Clean Waste: Untreated and unpainted; not contaminated with oils, solvents, sealants or similar materials.
  - .2 Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, repair and demolition operations.
  - .3 Hazardous: Exhibiting the characteristics of hazardous substances including properties such as ignitability, corrosiveness, toxicity or reactivity.
  - .4 Non-hazardous: Exhibiting none of the characteristics of hazardous substances, including properties such as ignitability, corrosiveness, toxicity, or reactivity.
  - .5 Non-toxic: Not poisonous to humans either immediately or after a long period of exposure.
  - .6 Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
  - .7 Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.
  - .8 Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form; recycling does not include burning, incinerating, or thermally destroying waste.
  - .9 Return: To give back reusable items or unused products to vendors for credit.
  - .10 Reuse: To reuse a construction waste material in some manner on the project site.
  - .11 Salvage: To remove a waste material from the project site to another site for resale or reuse by others.
  - .12 Sediment: Soil and other debris that has been eroded and transported by storm or well production run off water.
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- .13 Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- .14 Toxic: Poisonous to humans either immediately or after a long period of exposure.
- .15 Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- .16 Volatile Organic Compounds (VOC's): Chemical compounds common in and emitted by many building products over time through outgassing:
  - .1 Solvents in paints and other coatings;
  - .2 Wood preservatives; strippers and household cleaners;
  - .3 Adhesives in particleboard, fiberboard, and some plywood; and foam insulation.
  - .4 When released, VOC's can contribute to the formation of smog and can cause respiratory tract problems, headaches, eye irritations, nausea, damage to the liver, kidneys, and central nervous system, and possibly cancer.
- .17 Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.
- .18 Construction Waste Management Plan: A project related plan for the collection, transportation, and disposal of the waste generated at the construction site; the purpose of the plan is to ultimately reduce the amount of material being landfilled.

#### **1.4 ADMINISTRATIVE REQUIREMENTS**

- .1 Coordination: Coordinate waste management requirements with all Divisions of the Work for the project, and ensure that requirements of the Construction Waste Management Plan are followed.
- .2 Preconstruction Meeting: Arrange a pre-construction meeting before starting any Work of the Contract attended by the Owner, Contractor, affected Subcontractor's discuss the Contractor's Construction Waste Management Plan and to develop mutual understanding of the requirements for a consistent policy towards waste reduction and recycling.

#### **1.5 STORAGE, HANDLING AND MATERIAL PROTECTION**

- .1 Store where indicated by Departmental Representative, recovered material waste for recycling/reuse.
  - .2 Unless otherwise indicated, waste material to be evacuated becomes the Contractor's property.
  - .3 Store waste in container as indicated in Section 01 52 00 – Construction Facilities.
  - .4 Sort waste from recoverable items. Transport and deliver waste to authorized facility specialized in waste sorting.
  - .5 Non demolished framing components left in place, must be protected against displacement and damage.
  - .6 Support any elements affected by the Work. If building security is at risk of being compromised, cease Work and immediately inform Departmental Representative.
  - .7 Protect surface water drainage structures, to prevent from damage or clogging; protect mechanical and electrical installations.
  - .8 Sort and store material waste generated by dismantling of structures in designated areas.
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- .9 Prevent waste material contamination to be recovered or recycled, in accordance with designated facilities acceptance conditions.
  - .1 Evacuate material waste collected all together to an off-site sorting facility.
  - .2 Provide a transport letter for sorted material waste.

## **1.6 WASTE ELIMINATION**

- .1 It is forbidden to send waste to the landfill.
- .2 Recover waste progressively as project advances for deconstruction/disassembling.
- .3 **For the duration of the Work, transport containers to waste sorting site. Provide a minimum of one (1) transport per month. Provide a report each month.**

## **1.7 USE OF PREMISES AND INSTALLATIONS**

- .1 Perform Work without hindering too much on normal use of premises.
- .2 Maintain safety measures established by the existing facility.

## **1.8 WORK SCHEDULE**

- .1 Coordinate waste management with other activities, to ensure orderly process of Work.

## **PART 2 - PRODUCTS**

### **2.1 NOT USED**

- .1 Not Used.

## **PART 3 - EXECUTION**

### **3.1 CLEANING**

- .2 Sort residue for reuse or recycling and place them in specified locations.
- .3 Clean Work areas progressively.
- .4 Upon completion of work, remove surplus materials, rubbish, tools and equipment. Leave area clean and in order.

### **3.2 CONSTRUCTION WASTE MANAGEMENT REPORT FORM**

- .1 Complete form « CONSTRUCTION WASTE MANAGEMENT REPORT FORM for construction, renovation and demolition projects » and submit to Departmental Representative.
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**3.3 CONSTRUCTION WASTE MANAGEMENT REPORT FORM for construction, renovation and demolition projects.**

PART 4 Material	Real weight diverted (tons)		Destination and final use for diverted materials	Total Weight buried (tons)	TOTAL WEIGHT (tons)	Diverted Rate (%)
	Reused	Recycled				
Masonry and pavement						
Walls and ceilings						
Metals						
Mechanical						
HVAC						
Plumbing						
Sanitary equipment						
Other						
Doors and windows						
Wood						
Carpentry and woodwork						
Floor finishes						
Electrical						
Wiring						
Lighting						
Other						
Roofing						
Specialties and various components						
Cardboard						
Other wrapping						
Mixed Recycling						
General waste						
Other						
TOTALS						

END OF SECTION