

## **6. SOLID WASTE**

### **6.1 INTRODUCTION**

This section of the application provides the estimates of solid waste generation, considers the reductions of the waste through the use of recycling, provides information on waste projections during construction of the development, and outlines the planned procedures for the transport and disposal of solid wastes that will be generated by the operation of the proposed commercial development.

The following volumes of solid waste associated with the construction and operation of the development have been estimated:

- 200 cubic yards of stumps and grubblings from the construction of the proposed development, associated site work improvements, access drive, and landscaping.
- 167 cubic yards of construction debris related to the new building construction activities (excluding volume of recycled materials).
- 200 pounds per week of solid waste will be generated by the operations of the development. After the recyclable material has been removed, it is estimated that the project will generate 2-3 tons of recyclable waste and 2-3 tons of non-recyclable waste per year.

### **6.2 SOLID WASTES GENERATED DURING CONSTRUCTION OF THE SITE**

The solid wastes generated during the development site work will include minor packaging materials and minor amounts of solid waste that can be processed with the waste stream of the General Contractor for the building.

The applicant will retain a General Contractor to perform earthwork and land clearing on site. Land clearing will include minor building demolition, site cleanup, vegetation clearing, grubbing and topsoil removal. Removed topsoil may be screened and may be reused for onsite landscaping purposes if acceptable based on environmental conditions.

The Contractor will be permitted to dispose of trees and limbs by removing to an offsite location.

### **6.3 SOLID WASTE GENERATED DURING THE CONSTRUCTION OF THE PROPOSED BUILDING**

The contract provisions and the wastes generation estimates for the proposed buildings will be as follows:

- The construction contract will provide a goal for recycling of solid waste of 80%.

- The construction contract will require a plan for recycling and the location of recycling facilities to be identified prior to any solid wastes removal from the site.
- Construction Debris and Waste – 33 c.y. after recycling.

Unless otherwise directed by the City, the waste stream will be transported and disposed of at the following locations:

Hazardous Materials:	WMI Crossroads Facility in Norridgewock, Maine
Mixed Construction Material:	Riverside Recycling Facility in Portland, Maine; WMI Crossroads Facility in Norridgewock, Maine or Juniper Ridge in Old Town, Maine (Contractor option)
Separated Wood Construction Debris:	KTI Biofuels in Lewiston, Maine
Separated Metal/Ferrous Material:	One Steel Recycling Inc. in Arundel or Oakland, Maine

The collection, transfer, disposal, and payment of all fees for solid wastes shall be the responsibility of the Contractor, with all waste transferred by a licensed non-hazardous waste transporter.

#### **6.4 SOLID WASTE GENERATED FROM THE OPERATION OF THE DEVELOPMENT**

The waste from development operations will be picked up through a contract with a licensed solid waste transporter.

#### **6.5 FLUORESCENT LIGHTS AND FIXTURES**

The development will use fluorescent light bulbs that do not have PCB ballasts. The electrical switches for the project will be specified to not contain mercury. Fluorescent bulbs and other universal wastes will be taken to Riverside Recycling Facility in Portland.

#### **6.6 HAZARDOUS AND SPECIAL WASTES**

The developer anticipates use of cleaners, solvents, etc. will be within normal household thresholds thus requiring no special measures for storage or use.

#### **6.7 GRIT/SEDIMENT REMOVAL**

The applicant will be responsible for the maintenance of the minor storm drain systems within the site. They will be responsible for the long-term maintenance of the stormwater management collection systems and the associated infrastructure including the removal of sand and sediment. Potential disposal facilities which accept this type of material include Commercial Recycling in Scarborough, Maine and Dragon Cement in

Thomaston, Maine. It is anticipated that the material from the project site will be delivered to Commercial Recycling where it will be kiln dried and used as a suitable mixing material for asphalt-based products. Given the limited amount of drainage infrastructure on the site, these volumes are considered to be insignificant.

## **6.8 ATTACHMENTS**

Attachment J – Computations of Types and Volumes of Solid Wastes for Construction Project

**ATTACHMENT J**

**Computations of Types of Volumes of Solid Wastes  
for Construction Project**

## SOLID WASTES COMPUTATIONS AND DISPOSAL

### A. SITE CONSTRUCTION:

- Type: Wood Waste from Clearing Operations
- Basis of Quality Computations: By Inspection
- Site Construction: Miscellaneous Areas Onsite

Location	Area to be Cleared	Rate per Acre	Yield
Developed yard area	2.0 acres	100 cubic yards per acre	= 200 c.y.
<b>Total</b>			<b>= 200 c.y.</b>

#### Disposition:

Trees: Cut above stump line. Chip and haul to approved offsite location or use on-site as mulch.

Stumps: Provide the Contractor the option in the construction documents to chip on site and use for erosion control mix, or haul to an approved disposal area.

#### Other Wastes Associated with Other Site Construction:

Cardboard from packaging etc.: Quantity should be limited. Construction documents will require a recycling program. Specify a goal of 80% recycling. All other to be placed in a separate dumpster on the site paid for and designated for Contractor. Contractor to haul to the Riverside Recycling Facility, or to the WMI Crossroads facility in Norridgewock, Maine.

### B. NEW BUILDING CONSTRUCTION:

Basis of Estimate: 10 c.y./1,500 s.f. of finished space

Area: Approximately 25,040 square feet

Solid Waste: Approximately 167 c.y.

Set a goal in the construction documents to require segregation of cardboard and paper with a goal of 80%; segregation of metals with a goal of 85%.

Total: 167 c.y. before recycling

Net: 33 c.y. if 80% of the material is recycled

Require Contractor to: Provide one 20 c.y. dumpster. Haul to facilities identified in Section 8.2 with shipping manifest. The Contractor should identify recycling methods and sites prior to construction.

Disposition:

Assume 70 percent is wood or metal which can be transported to KTI Biofuels in Lewiston (for wood) or One Steel Recycling in Oakland, Maine for metals.

This will leave about 10 cubic yards of mixed construction debris that should be hauled to the Riverside Recycling Facility in Portland, WMI Crossroads facility in Norridgewock, Maine or the Juniper Ridge Facility in Old Town, Maine.

Require Contractor to: Provide dumpsters designated by material type. The contractor should identify recycling methods and sites prior to construction.

All haulers must have a current non-hazardous waste haul license. The Contractor shall provide the names of the haulers 10 days prior to removal of any demolition debris or construction debris from the site.