

**FOREST STEWARDSHIP PLAN**  
**For**  
**AIRPORT PAPI LIGHT REPLACEMENT**

**Prepared for:** Carroll County Commissioners  
c/o Thomas P. Robertson, Jr.  
Bureau of Facilities  
1250 Old Meadow Branch Road  
Westminster, MD 21157

**Date:** August 6, 2007

**Location:** Property associated with 200 Airport Drive  
Westminster, MD 21158

**Assessment Number #:** 07-115563  
07-007019  
07-129432  
07-040512

**Acreage:** 6 acres

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Westminster, MD 21158

# Forest Management Plan for **AIRPORT PAPI LIGHT REPLACEMENT**

## **Pre Harvest Conditions**

### **Overall Goals:**

The purpose of this woodland management plan is to define the goals of the proposed harvest in correlation with the continuing management practices necessary to both maintain this woodland as viable, functioning woodland while insuring the safety of airport travelers over and around this woodland.

The following stand description applies only to that woodland impacted by this project, not the entire Airport property.

### **Woodland Overview**

A map is attached to better define the harvest areas. On the map, the tracts covered by this management plan and future harvest are delineated as crosshatched areas. Yellow crosshatching defines the areas to be selectively thinned and the green crosshatching are the areas to be basically clearcut. On the map an area of natural regeneration is noted. This regeneration was initiated to answer the mitigation for the original airport expansion project. This area will not be entered or impacted by this harvest.

This management plant describes three (3) separate but similar stands located within the boundaries of the Jack Poage Westminster Airport. The stands are located on the former Clara Miller property, the former Byers/Shaffer property and the former Wolfe property. All of these woodlands are covered by a FCO easement drafted and initiated during the airport's first expansion phase.

As stated above, the stands are separate, but significantly similar. Therefore, the stand description and management goals will be combined to describe one stand.

<b>Stand #1</b>	<i>Late Successional</i>
	<b>Basal Area: 140 Sq. Ft.      6 Acres</b>

### **Stand Structure**

This stand is a well established mixed oak stand dominated by mature timber. Midlevel species are present and will become more prevalent once the thinning is complete. The understory is quite sparse throughout the site. A well developed duff layer is present throughout most of the stand.

### **Forest Structure**

This stand is dominated by *Tulip poplar*. The codominant species is *Red oak*. Other overstory species are *Chestnut oak*, *Hickory* and *Black gum*.

Midlevel species are *Hickory*, *Black gum*, *Black cherry* and *Red maple*. Oak regeneration is also present.

The midlevel size class is pole sized.

The understory is moderate to thin, mainly composed of *Black gum*, *Hickory* and *Red maple*, *Dogwood*, other hardwood regeneration, *Briars*, *Sumac* and herbaceous plants in the openings.

### **Retention**

All woodland acreage will be retained. This thinning will not remove any acreage from woodland status..

### **Environmental Features**

These are upland stands with various westerly aspects. No wetlands will be entered during this harvest.

### **Soils**

<b>Tract name</b>	<b>Soil types</b>	<b>Average site index</b>
Wolfe	Half MtC2 and half MtD2	60
Byers	All MtD2	60
Miller	Approximately 80% MtE, 5% MtD2 and 5% MtB2	60

### **Other Features**

No champion trees, endangered species, historic sites or other significant features were noted during the field work for this project.

## **Harvest Operations and Practices**

**Harvest area** - Approximately six acres will be harvested under this plan. Of this six acres, approximately .38 acres will be clearcut on the Wolfe tract, 1.01 acres will be clearcut on the Miller tract and .52 acres will be clearcut on the Byers tract.

**Stream crossings** – One stream crossing is necessary to cross the spring channel alongside of Pinch Valley Road to access the Miller tract. See map detail for exact location. This crossing is to consist of planking across the channel. A second crossing is potentially proposed to cross the stream in the Miller tract to be installed only if no other method of access to the upper portion of the Miller tract is available. Actual access to be gained along fenceline unless soil conditions do not allow.

**Landings** – All landings are marked on map.

Wolfe and Sterner tracts - To be located along driveway.

Byers tract - To be located along driveway.

Miller tract - To be located in field along Pinch Valley Road.

## **Post Harvest Conditions**

### **Post Harvest Basal Area Tables**

#### **Clearcut areas**

Current Basal Area	140
Post Harvest Basal Area	25
Current acceptable growing stock	60
Post harvest acceptable growing stock	95

#### **Selective harvest areas**

Current Basal Area	140
Post Harvest Basal Area	80
Current desirable growing stock	60
Post harvest desirable growing stock	95

### **Post Harvest Management Practices**

Natural regeneration will be more than sufficient to regenerate the stand. All of the harvest areas are surrounded on at least two sides with an existing mature stand of timber. As the harvest will take place before acorn drop, scarification should be sufficient to insure seed drop onto mineral soil for this fall's seed crop. As no stumps will be removed, stump sprouting will also factor significantly towards regeneration.

The new stand should be dominated by mixed oak stump sprouts/ Tulip poplar, depending primarily on the weather pattern of the years immediately following the harvest. Stump sprouts should have the advantage over seedlings if the weather pattern remains droughty.

These stands will be periodically thinned based on height criterion. This interval will be approximately every 20 to 30 years. Depending on the location of individual trees in respect to the plane of ascent, those trees penetrating this plane or within twenty feet of the plane will be harvested.

After the harvests, the tracts will still meet the criteria necessary to meet the definition of woodland as defined in the Carroll County Forest Conservation Ordinance.

### **Operations Calendar**

<b>Year</b>	<b>Operation</b>
2007	Harvest timber
2007-2008	Cut firewood
2010-2022	Inspect on a three (3) year basis