

Beltrami County NRM Timber Appraisal

| | | |
|---|---|--|
| Appraised By: Marshall Graham | Sale Type: REGULAR AUCTION SALE | Appraisal Number: Hardwood Horses |
| Appraisal Date: 01/16/2024 | Auction Date: 04/04/2024 | Permit Number: 224006 |
| | Access: Public Access | Expiration Date: 04/04/2026 |

Legal Description

| RE Code | Sec. | Twp. | Rge. | School | City/Twp | Subd | | |
|--------------------------------------|--------|-------|------------|-------------|----------------------------|--------------|-----|--|
| 480041500 | 26 | 147 | 32 | 31 | Turtle River | SW of the SW | | |
| 480054200 | 35 | 147 | 32 | 31 | Turtle River | NW of the NW | | |
| Block 1 Species | Volume | Units | Unit Price | Value | Comments | Bolt % | Bid | |
| Ash pulp | 5 | Cords | \$10.00 | \$50.00 | | | ^ | |
| Aspen pulp | 310 | Cords | \$25.00 | \$7,750.00 | | | ^ | |
| Basswood Pulp & Bolts | 150 | Cords | \$12.00 | \$1,800.00 | | | ^ | |
| Maple pulp | 130 | Cords | \$10.00 | \$1,300.00 | Includes 30 cords of birch | | ^ | |
| Red Oak Pulp & Bolts | 60 | Cords | \$10.00 | \$600.00 | | | ^ | |
| | | | | \$11,500.00 | Subtotal | | | |
| Total Cords: 655 Total MBF: 0 | | | | \$11,500.00 | Total | | | |
| | | | | \$1,725.00 | 15% Down Payment | | | |

Bid Symbols: ^ = Bid Species; # = Non-Bid Species; + = Sold Area Estimate; * = Sold Area Estimate & Non-Bid Species
All species woodsrun unless listed otherwise.

Species Scaled: Ash pulp, Aspen pulp, Basswood Pulp & Bolts, Maple pulp, Red Oak Pulp & Bolts

Species SAE:

| | |
|---|------------------------------|
| Operability: Firm or frozen | Soil Type: Sandy loam |
| Topography: flat to slightly rolling | |
| Acres: 31 | |

DRAIN

| | |
|-----------------------------------|-------------------------|
| Type: REGULAR AUCTION SALE | Acres Cut: 31.00 |
|-----------------------------------|-------------------------|

Total: 31.00

Harvest Specifications

| Access |
|--|
| • Firm or Frozen – Operations may be conducted whenever the site is frozen or when dry and firm to prevent site impacts. |
| Cutting and Skidding |
| • Skid trail out of wetland – Locate all skid trails out of wetland areas |
| • Stumps – Average stump heights below 12" and as low as possible. |
| Harvest and Reserves |
| • Boundary Blue Dot/Red Dot – Blue dot boundary interior, red dots near property lines |
| • Den Trees – Reserve trees with obvious den and cavity usage, even if not marked to leave. |
| • Leave Trees: Burr oak, white pine, red pine and all painted trees. |

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Landings, Access Roads, and Skid Trails

- Landings Approved – Landing locations must be approved in advance by the Forester. Sale plan includes 2 landings
- Roads stay open - Sale is mostly accessible via existing road system. Roads to remain open and in pre-existing or better condition with BMP drainage after use. Any temporary trail or spur will be closed.

Site, Soil, and Water Protection

- RMZ General - Wetland and lowland brush areas are either excluded from the harvest block or protected by ERZ within block. Be sure to minimize scarification in filter strip per BMP guidelines.
- Soil Protection - Soils are subject to rutting if operated on when wet, stop activity if conditions may lead to rutting, compaction or displacement of soils. Keep BMP applications current to prevent erosion.

Slash Disposal

- Slash Scattered - Lop and scatter.

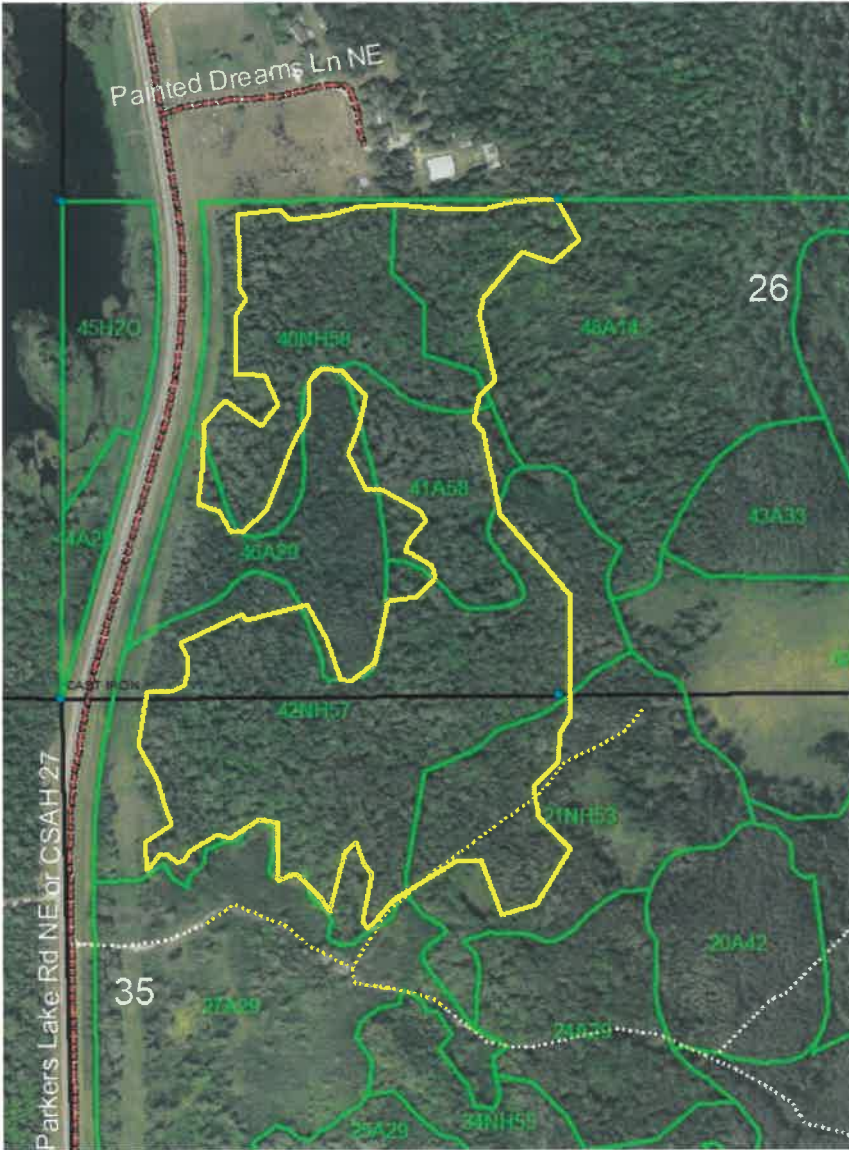
Tree Size, Marketing, and Special Conditions

- 4 inch TDIB – Utilize all material from butt to a 4" top diameter inside bark.

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Site Map:



Appraisal examined and approved by Marshall Graham 1-19-24
Forester Date

Appraisal examined and approved by Richard A. Moore 1/19/2024
Land Department Date

STAND HARVEST PRESCRIPTIONS

| | | | | | | | |
|--------------------------------|---|------------------|--------------------|-------------------|------------------|--------------|-----------------------|
| Timber Sale Name: | Hardwood Horses | | | | | | |
| Description: | | | | | | | |
| RE Code | Sec. | Twp. | Rge. | School | City/Twp | Subd | |
| 480041500 | 26 | 147 | 32 | 31 | Turtle River | SW of the SW | |
| 480054200 | 35 | 147 | 32 | 31 | Turtle River | NW of the NW | |
| Block: | 1 | | | | | | |
| Stand Details | | | | | | | |
| Section | Township | Range | Timber Type | Acres | Stand Age | NPC | Harv Meth Desc |
| 26 | 147 | 32 | 12 | 19 | 63 | MHn44 | Clear Cut w/Reserves |
| *NPC | MHn44 - Northern Wet-Mesic Boreal Hardwood-Conifer Forest | | | | | | |
| Basal Area Information | | | | | | | |
| Species Code | Species Name | | BA | Res BA | | | |
| 52 | Aspen, Trembling | | 99 | 6 | | | |
| Total BA: 99 | | Res BA: 6 | | % BA: 6.06 | | | |
| Current Site Conditions | Current CTYPE is Aspen, with SI 78, and overall BA of 99 sq.ft./ac. | | | | | | |
| Timber Objectives | Clear Cut with Reserves – Even-aged regeneration with some reserves for stand structure, habitat or natural seeding of some species. | | | | | | |
| Regeneration | Aspen regeneration will be primary, with some seeding from reserve species and some stump sprouting to add diversity | | | | | | |
| Riparian | Filter Strips from adjacent wetlands must be protected from scarification | | | | | | |
| Wetlands | Wetland and lowland brush areas are either excluded from the harvest block or protected by ERZ within block. Be sure to minimize scarification in filter strip per BMP guidelines. | | | | | | |
| Soil Types | sandy loam | | | | | | |
| Wildlife | The reserved species will serve as a mast production for wildlife. All dead and den trees and snags will be reserved unless they pose a safety hazard. | | | | | | |
| Common Animals | Harvest design favors WTD, Grouse, Woodcock and other species which use early successional forest part of the year. The bur oak is being reserved as mast production for wildlife. | | | | | | |
| Visual Sensitivity | Medium - Visual ranking is moderate on this site, Visual quality protected by a combination of buffers, landing placement, harvest design (leave trees or harvest shape), slash disposal limit near roads, etc. | | | | | | |
| Natural Heritage | Database was checked and no resources found. | | | | | | |
| Cultural Resources | Database was checked and no resources found. | | | | | | |

STAND HARVEST PRESCRIPTIONS

| | | | | | | | |
|--------------------------------|---|--------------|--------------------|---------------|--------------------|------------|-----------------------|
| Block: | 2 | | | | | | |
| Stand Details | | | | | | | |
| Section | Township | Range | Timber Type | Acres | Stand Age | NPC | Harv Meth Desc |
| 35 | 147 | 32 | 20 | 12 | 100 | MHn44 | Clear Cut w/Reserves |
| *NPC | MHn44 - Northern Wet-Mesic Boreal Hardwood-Conifer Forest | | | | | | |
| Basal Area Information | | | | | | | |
| Species Code | Species Name | | BA | Res BA | | | |
| 56 | Basswood | | 79 | 18 | | | |
| Total BA: 79 | | | Res BA: 18 | | % BA: 22.78 | | |
| Current Site Conditions | Current CTYPE is Northern Hardwoods, with SI 59, and overall BA of 79 sq.ft./ac. | | | | | | |
| Timber Objectives | Clear Cut with Reserves – Even-aged regeneration with some reserves for stand structure, habitat or natural seeding of some species. | | | | | | |
| Regeneration | Aspen regeneration will be primary, with some seeding from reserve species and some stump sprouting to add diversity | | | | | | |
| Wetlands | Wetland and lowland brush areas are either excluded from the harvest block or protected by ERZ within block. Be sure to minimize scarification in filter strip per BMP guidelines. | | | | | | |
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STAND HARVEST PRESCRIPTIONS

Harvest Methods

Clear Cut w/Reserves

retain marked or designated trees or clumps (Clear Cut)