

Timber Appraisal Report



| | | | |
|---------------------------------------|-----------------------------------|-------------------------------|--------------------------|
| Permit Holder Morrison, Douglas, E | Sale Type Intermediate Auction | RAN 161 | Permit Number X014993 |
| Permit Date 05/17/2016 | | Expiration Date 05/31/2019 | |

| | | |
|--|---|---------------------|
| | The resource management of the Minnesota DNR's state forests and wildlife management areas meets the objectives of the SFI ® program (Certificate No. 6Y921-S1) and the principles of the FSC ® certification standard (Certificate No. SCS-FM/COC-00088N). | FSC 100% |
|--|---|---------------------|

Appraisal includes one (1) cutting block:

| Block # | Legal Description | Sec-Twp-Rng | County |
|---------|------------------------|-------------|------------|
| 1 | NESW,NWSE,SE,SWNE,SWSE | 36-140-39W | 03: Becker |

Species/Products/Price (All quantities are estimates):

| Bid | SOAV | Species | Product | Quantity | UOM | Appraised Price | Appraised Value | Bid % | Bid Price | Bid Value |
|-----|------|-----------------|-------------------------|----------|-----|-----------------|-----------------|-------|-----------|-----------|
| + | | Trembling Aspen | Woodsrun Cordwood | 225.00 | Cd | 18.75 | 4,218.75 | 0 | 18.75 | 4,218.75 |
| + | | Oak Species | Bolts | 180.00 | Cd | 19.89 | 3,580.20 | 0 | 19.89 | 3,580.20 |
| + | | Basswood | Woodsrun Mixed Products | 170.00 | Cd | 10.71 | 1,820.70 | 0 | 10.71 | 1,820.70 |
| | | Oak Species | Pulpwood | 120.00 | Cd | 13.77 | 1,652.40 | | 13.77 | 1,652.40 |
| | * | Sugar Maple | Woodsrun Cordwood | 50.00 | Cd | 9.18 | 459.00 | | 9.18 | 459.00 |
| | * | Paper Birch | Woodsrun Cordwood | 35.00 | Cd | 9.18 | 321.30 | | 9.18 | 321.30 |
| | * | Ash | Woodsrun Cordwood | 10.00 | Cd | 5.36 | 53.60 | | 5.36 | 53.60 |

| | | | | | | | |
|------------|------|-----------------|----------|-----------------------|-----------|-----------------|-----------|
| Sale Acres | 49.0 | Advance Payment | 1,815.89 | Total Appraised Value | 12,105.95 | Total Bid Value | 12,105.95 |
|------------|------|-----------------|----------|-----------------------|-----------|-----------------|-----------|

Top Diameter Utilization: Unless otherwise specified, each species product must be utilized down to a minimum merchantable top diameter inside bark (dib) as follows: woodsrun cordwood and pulpwood to 4 inches, except spruce to 3 inches; bolts to 6 inches; sawtimber to 10 inches; and veneer to 14 inches.

Total Appraised Cords per Acre: 16.1

Mixed Species Description:

Oak Species Bolts includes: Bur Oak 30%; Red Oak 70%.

Oak Species Pulpwood includes: Bur Oak 30%; Red Oak 70%.

Mixed Product Description:

Basswood Woodsrun Mixed Products includes: Bolts 50%; Pulpwood 50%.

HARVEST SPECIFICATIONS

Cutting and Felling:

- Harvest red oak, bur oak, and basswood down to 80' of BA. Harvest aspen, birch, maple, and ash.
- Reserve 80 sq. ft of BA of oak and basswood. Reserve all pine.
- Reserve all non-hazardous snags.
- Reserved timber that is damaged will be assessed at a rate of \$25/tree.
- Tree damage will be defined as 10 percent of stem circumference on >10% of reserved trees.
- Crown damage will be defined as >= 30% of live crown.
- Damaged residuals will not be removed.
- Trees must be processed at the stump and cut products forwarded to the landing.

Timber Appraisal Report - Harvest Specifications (*Continued*)

HARVEST SPECIFICATIONS

Cutting and Felling (Continued):

- Reserve order is red oak>bur oak>basswood>maple>ash. Aspen and birch are to be clearcut.

Season of Operations:

- Operate during non-rutting soil conditions. Refer to DNR rutting guidelines.

Slash Disposal:

- Lop and scatter slash evenly over the harvest site to within 2 feet of the ground.
- Biomass harvest is not allowed on this permit.

Landings Roads and Trails:

- The location and construction of all roads and landings must be pre-approved by the State.

Sale Conditions:

- Access is across state land.

Marketing and Special Conditions:

Minimal road improvement to the site. Normal to dry summer conditions required. Aspen is large and overmature. Oak pulpwood may not be consumer scaled.

Price Adjustments:

Road Construction Costs: 0%
Haul Distance to Nearest Mill: 0%
Stand Density: 0%
Operational Constraints: -10%
Other Price Factor: 0%

Permits Required:

(None)

Forestry Area Office:

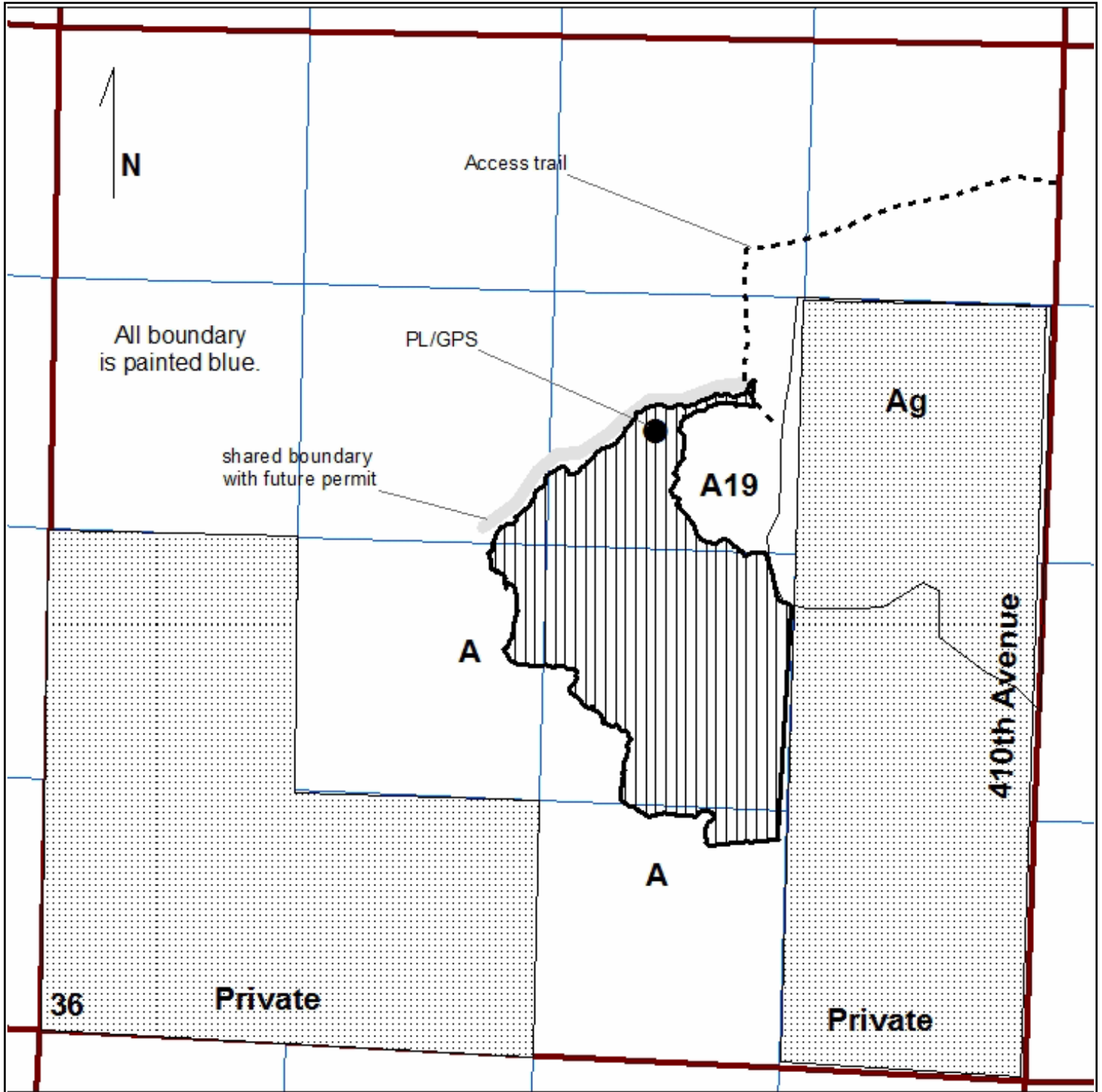
Park Rapids Area Forestry Office
607 W. First Street W.
Park Rapids, MN 56470
Telephone: 218-732-3309

| | | | |
|-----------------------|--|----------------------------|------------------------------|
| Appraiser Signature | Appraiser (Printed name) Michael T. Lichter | Appraiser ID # 01022227 | Signature Date 04/13/2016 |
| Approved By Signature | Approved By (Printed name) Kyle E. Anderson | Approver ID # 01106899 | Approval Date 04/14/2016 |



| | | | |
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GPS Location: Latitude - 46 53 58, Longitude - 95 32 56



(Cutting Block ID 13695, Snapshot Nbr 0)

Cutting Block Map (may not print to scale)

SOAV Eligible: No

Stand Management Information - Appraisal includes one (1) cutting block:

| Site t14039w1360040 | Harvest Prescription Regen Harvest-Two-Aged-Clearcut- w/Rsrv Sprouting | | | | | | |
|------------------------|---|-------------|---------|----------|-----------|----------|---------|
| Stand | Cover Type | Plan Status | Planned | Examined | Appraised | Deferred | Altered |
| t14039w1360040 | O58 | Adopted | 54.0 | 54.0 | 54.0 | 0.0 | 0.0 |
| Totals | | | 54.0 | 54.0 | 54.0 | 0.0 | 0.0 |

Forty/Lot Information - Appraisal includes one (1) cutting block:

| Twp - Range | Sec | Forty / Lot | Land Status | Acres | % Total Value |
|---------------|-----|-------------|-------------|-------|---------------|
| 140-39W | 36 | NESW | 09: School | 1.0 | 2 |
| | | NWSE | 09: School | 36.0 | 73 |
| | | SENW | 09: School | 2.0 | 4 |
| | | SWNE | 09: School | 8.0 | 16 |
| | | SWSE | 09: School | 2.0 | 5 |
| Totals | | | | 49.0 | 100 |

Specifications included in Notice Of Sale:

Cutting and Felling:

- Harvest red oak, bur oak, and basswood down to 80' of BA. Harvest aspen, birch, maple, and ash.
- Reserve 80 sq. ft of BA of oak and basswood. Reserve all pine.
- Reserved timber that is damaged will be assessed at a rate of \$25/tree.
- Trees must be processed at the stump and cut products forwarded to the landing.
- Reserve order is red oak>bur oak>basswood>maple>ash. Aspen and birch are to be clearcut.

Season of Operations:

- Operate during non-rutting soil conditions. Refer to DNR rutting guidelines.

Sale Conditions:

- Access is across state land.