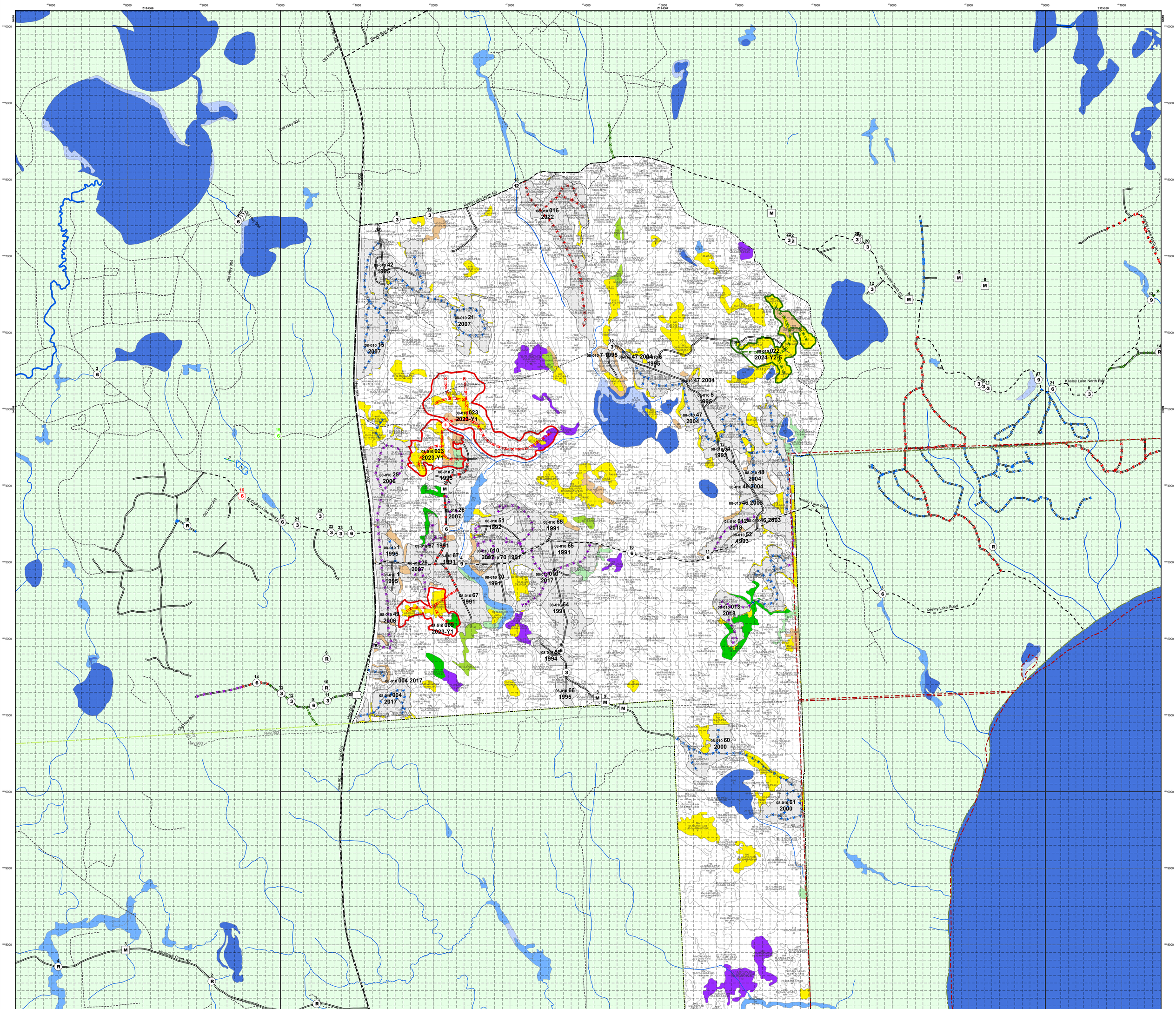


# MISTIK MANAGEMENT LTD.

## OPERATING AREA MAP

## KEELEY LAKE
## MANAGEMENT UNIT 08 - OPERATING AREA 010
## YEAR 1 (2023) - YEARS 2-5 (2024 - 2027)

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0 200 400 800 1,200
Metres

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## PLANIMETRIC LEGEND

### Symbol Reference
- Brushland
- Meadow
- Clear Rock
- OP — Open Land
- Sand
- SB — Scrub
- C. — Clearing
- Treed Muskeg
- Fen, Bog, Muskeg
- Treed Rock
- Residential Site
- Mileage

### Boundaries
- FMA
- Exclusions
- District
- MUs
- Operating Areas

### UTM Lines
- 10 Km
- 1 Km
- 100 m

### Crossings / Road Closures / POI (Existing)
- Berm / Maintenance
- Gate / Maintenance
- Other / Maintenance
- Bridge / Maintenance
- R — Reclaimed Bridge
- M — Brushmat / Maintenance
- R — Reclaimed Brushmat
- # — Culvert / Maintenance
- R — Reclaimed Culvert
- Highway Approach / Maintenance
- Icebridge / Maintenance
- RI — Reclaimed Icebridge

### Lakes / Streams
- Lake
- Flooded Land
- Aquatic Regime
- River
- Perennial
- Intermittent
- Indefinite

### Proposed Crossings / Road Closures / POI (Year 1)
- Berm / Maintenance
- Gate / Maintenance
- Other / Maintenance
- Bridge / Maintenance
- M — Brushmat / Maintenance
- # — Culvert / Maintenance
- Highway Approach / Maintenance
- Icebridge / Maintenance

### Proposed Crossings / Road Closures / POI (Years 2-5)
- Berm / Maintenance
- Gate / Maintenance
- Other / Maintenance
- Bridge / Maintenance
- M — Brushmat / Maintenance
- # — Culvert / Maintenance
- Highway Approach / Maintenance
- Icebridge / Maintenance

### Blocks
- Planned Block (Year 1)
- Planned Block (Year 2-5)
- Harvested Block

Year 1 Blocks = Y1
Years 2-5 Blocks = Y2-5

### Roads and Trails (Existing)
- Paved Highway
- Gravel Highway
- Class 1 (FRR) Maintenance
- Class 2 (IBR) Maintenance
- Class 3 (Bush Road) Maintenance
- Class 4 (Bush Road) Maintenance
- Non-Mistik (public use) Maintenance
- Oil / Gas Road Maintenance
- 3rd Party Block Road Maintenance
- Seismic Line
- Trail
- Pipeline
- Railway Line
- Transmission Line

### Stakeholder Commitment
- Stakeholder Commitment Point
- Stakeholder Commitment Line
- Stakeholder Commitment Polygon

### Proposed Roads (Year 1)
- Class 1 (FRR)
- Class 2 (IBR)
- Class 3 (Bush Road)
- Class 4 (Bush Road)

### Road Reclaim Status
- X X — Planted Road
- X X — Completed Road Reclaim
- X X — Planned Reclaim (Year 1 and Older)
- X X — Planned Reclaim Future (Year 2 to 5)

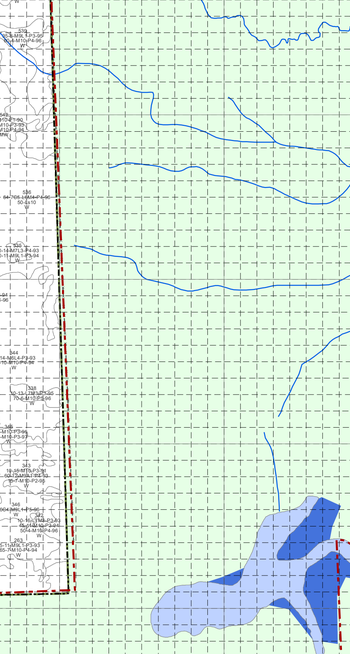
### Merchantable Stands
- H 18+
- HS 18+
- S 18+ Pine
- SH 15+ mixed Pine dom
- S 15-17 Pine
- S 18+ other softwood
- SH 15+ mixed other softwood
- S 15-17 other softwood

### Proposed Roads (Years 2+)
- Class 1 (FRR)
- Class 2 (IBR)
- Class 3 (Bush Road)
- Class 4 (Bush Road)

### Proposed Research and Other Projects

### Insect and Disease Management Areas

## INDEX MAP



## FOREST LABEL REFERENCE

### FOREST LABEL REFERENCE

Example SFVI Call:

```
                    109          Stand Number
58 - 22 - tA6wS4 - P5 - 1921a    Tree Layer 1
22 - 12 - wS10 - P1 - 1940d      Tree Layer 2
10 - 7 - bF10 - P3 - 1950d       Tree Layer 3
60 - Ts6Ls4                      Shub Layer
35 - Ht40-3Fm3                   Herb Layer
VF (CG - 1 - 1978a) (SI - 1 - 1980a)   Disturbance Modifier 2
                                 Disturbance Modifier 1
                                 Moisture Regime
```

**Crown Closure**
1 - 100%, ground-cover per layer

**Height**
Average stand height, in meters, per layer

**Tree Species Composition**
Species Code - Species Percent (in 10% classes)
Up to 6 tree species per tree layer

**Species Codes:**

| | | | | | |
|---|---|---|---|---|---|
| bF | F | Balsam Fir | gA | G | Green Ash |
| tL | L | Siberian Larch | tA | A | Trembling Aspen |
| Lt | L | Tamarack | wB | W | White Birch |
| jP | P | Jack Pine | gC | C | Plains Cottonwood |
| lP | P | Lodgepole Pine | wE | E | White Elm |
| sP | P | Scots Pine | bM | B | Black Maple |
| rP | P | Scots Pine | bO | B | Bur Oak |
| bS | M | Black Spruce | bP | B | Balsam Poplar |
| wS | S | White Spruce | | | |

**Canopy Pattern**
**Codes:**

| | |
|---|---|
| P1 | Single Stems - usually < 20% Crown Closure |
| P2 | Single Patch of Stems/Minimal Scattered Stems |
| P3 | Few (2-3) Patches of Stems |
| P4 | Several (4 or greater) Patches of Stems |
| P5 | Continuous canopy, openings common, > 60% Crown Closure |
| P6 | Continuous canopy, - 60% Crown Closure |

**Origin** or **Disturbance Year**
'YYYY' or 'Y': Sometimes the first and last number are dropped
so 1990 would appear as 99, and 2000 as 00
'a' - annum - Known to the nearest year from a source
'd' - decadal - Estimated decade of origin

**Moisture Regime**
**Codes:**

| | | | |
|---|---|---|---|
| VD | Very Dry | M | Moist |
| D | Dry | VM | Very Moist |
| MF | Moderately Fresh | MW | Moderately Wet |
| F | Fresh | W | Wet |
| VF | Very Fresh | VW | Very Wet |
| MM | Moderately Moist | A | Aquatic |

**Hydrological Features**
**Codes:**

| | | | |
|---|---|---|---|
| L | Lake | R | River |
| FL | Flooded Land | | |

**Non-Vegetated Landuse**
**Codes:**

| | | | |
|---|---|---|---|
| bopg | Built-up: Settlement | eng | Mine: Generic/unknown |
| indy | Built-up: Industrial Site | mpeg | Mine: Open Pit/Gravel |
| cmty | Cemetery | pasto | Peat Cutting |
| dmpg | Campground/Rec. Site | rarpu | Runway |
| frow | Fire Tower | sdpu | Solids Depot/Dump |
| gasf | Gas & Oil Facilities | towu | Tower: Generic/unknown |
| lmby | Lumber Yard | vegu | Vegetation: Agriculture |

**Shrub Species Composition**
Species Code / Species Percent (in 10% classes)
Up to 10 shrub species in the shrub layer

**Species Codes:**

| | | | |
|---|---|---|---|
| Ta | Tall Shrubs Category | Ma | Mountain Maple |
| Al | Alder | Pc | Pin Cherry |
| Bh | Beaked Hazel | Sa | Saskatoon Berry |
| Cr | High-bush Cranberry | Wi | Willow |
| Ls | Low Shrubs Category | Dw | Red osier Dogwood |
| Bb | Blueberry | Le | Labrador Tea |
| Be | Bearberry | Lc | Low-bush Cranberry |
| Bi | Bog Birch | Le | Leatherleaf |
| Bl | Bog Laurel | Ro | Wild Red Raspberry |
| Bu | Buffalo Berry | Ro | Prickly Rose |
| Cs | Creeping Cinquefoil | Sn | Western Snowberry |
| Cu | Currants | | |

**Herb Species Composition**
Species Code / Species Percent (in 10% classes)
Up to 10 herb species in the herb layer

**Species Codes:**

| | | | |
|---|---|---|---|
| Hu | Herb/Forb Layer | Nc | Northern Comandra |
| Ba | Bunchberry | Ns | Naked Miterwort |
| Co | Palmate-leafed Coltsfoot | Sa | Sarsaparilla |
| Fe | Ferns and Allies | St | Strawberry |
| Gr | Grasses Category | Se | Sedges, Rushes, Reeds |
| Fm | Feathermosses | Sm | Sphagnum Mosses |
| Li | Lichens | | |

**Aquatic Vegetation Composition**
Species Code / Species Percent (in 10% classes)
Up to 3 aquatic vegetation types in the aquatic layer

**Species Codes:**

| | | | |
|---|---|---|---|
| Av | Aquatic Vegetation | Af | Floating Vegetation |
| Ae | Emergent Vegetation | As | Submergent Vegetation |

**Disturbance Type**
**Codes:**

| | | | |
|---|---|---|---|
| AK | Animal Kill | HA | Hail |
| BO | Burnover | IN | Insect |
| CB | Cutbank | SB | Sand/Gravel |
| CL | Cleared | SF | Seasonal Flood |
| CO | Overview | SI | Silviculture |
| CW | Abandoned Well | SL | Slump |
| DI | Disease | SN | Snag |
| GR | Grazing | WI | Windthrow |

**Disturbance Extent**
Exterors refer to % loss of crown closure or % land area affected

**Codes:**

| Code: | Extent (% per hectare): | Snag Density (#/ha): |
|---|---|---|
| 1 | Light (1 - 25% loss) | 1 - 99 |
| 2 | Moderate (26 - 50% loss) | 100 - 299 |
| 3 | Heavy (51 - 75% loss) | 300 - 499 |
| 4 | Severe (76 - 94% loss) | 500 - 699 |
| 5 | Entire (> 95% loss) | > 700 |