

MANITOBA-MINNESOTA TRANSMISSION PROJECT

Clean Environment Commission Hearing

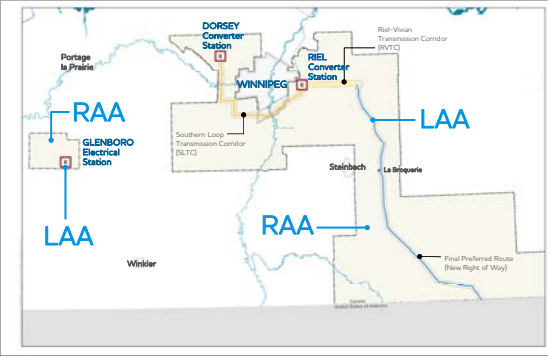


Human environment

Heritage Resources	Infrastructure & Services	Employment & Economy	Agriculture
Land & Resource Use	Visual Quality	Human Health Risk	Community Health

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Land and resource use assessment areas



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Why land and resource use?

- Importance to communities, property owners, resources users, other stakeholders
- Project will intersect residential developments, rural communities, and lands used for commercial and non commercial land use



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Why land and resource use?

Sub-components

- Private property
- Designated lands, protected areas, recreation
- Forestry, mining/aggregates, groundwater
- Commercial/recreational hunting and trapping



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Lessons learned

- Multi-stage route selection process
- Land and resource use considerations
- Effects selection



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

What we heard: concerns

- Use of unoccupied Crown land
- Proximity of transmission line to homes, communities
- Damage to property
- Disruption to land development potential
- Proximity to recreational use areas
- Disruption of forestry, mining, trapping and hunting
- Water wells/groundwater risk



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Overview What We Heard What We Assessed Key Findings Mitigation, Monitoring and Follow-up Conclusions

Routing considerations

- Areas of least preference
- New route segment alternatives identified during engagement
- Built environment – route selection criteria
- Final Preferred Route provides trade-off between potential effects on undeveloped and developed lands

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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

What we assessed

- Private property
- Development potential
- Designated parks and protected areas
- Recreation areas
- Hunting & trapping
- Mining & aggregates
- Forestry
- Groundwater



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Overview What We Heard What We Assessed Key Findings Mitigation, Monitoring and Follow-up Conclusions

Methods

Data collection & analysis


- Research/literature reviews, previous studies/ assessments
- Primary research
- GIS spatial analysis
- Forest damage appraisal and evaluation

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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Private property

- 1 dwelling in PDA, 11 residences within 100 m of ROW
- Noise and dust disturbance during construction



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Development potential

- Development potential low to low-medium in PDA based on land use zoning
- Pockets of medium/high development potential adjacent to PDA:
 - Headingley,
 - Oak Bluff,
 - Grande Pointe,
 - Monominto,
 - Ste. Genevieve,
 - Richer, and,
 - La Broquerie.



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Designated parks, protected areas, recreation

- No existing protected areas/ecological reserves/WMA's affected
- Duff Roblin Provincial Heritage Park
- No campgrounds, resort areas or cottages crossed
- FPR adjacent/near 3 golf courses



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Hunting and trapping

- One outfitting operation in proximity to ROW – short term disturbance effects
- Effects on trapping small, limited to PDA
- Commercial/recreational hunting and trapping continue during operation




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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Mining/aggregates

- PDA overlap with quarry areas
- PDA overlaps with 0.3% of area available for mining in RAA
- With some restrictions, mining resource activities will be able to occur adjacent/near the PDA.




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Overview What We Heard What We Assessed **Key Issue Review** Mitigation, Monitoring and Follow-up Findings and Conclusions

Forestry

- Small reductions during construction in
 - commercial forest area and AAC
 - woodlot plan areas
 - private/municipal productive forestland
 - shelterbelts (of higher importance at landowner level)




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Overview What We Heard What We Assessed **Key Issue Review** Mitigation, Monitoring and Follow-up Findings and Conclusions

Groundwater

- Groundwater resources throughout southern Manitoba
- No effects on groundwater during construction – no release to surface
- Tower foundations designed & installed so as no interaction with groundwater levels or flow regimes



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Overview What We Heard What We Assessed **Key Issue Review** Mitigation, Monitoring and Follow-up Findings and Conclusions

Key mitigation measures


- Avoidance of effects through routing
- Limitation of clearing
- Use existing roads and access trails
- Access Management Plan
- Project activities/equipment management
- Management measures– noise, vibration, dust, emissions
- Re-establish shelterbelts outside ROW where possible
- Groundwater management

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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Ongoing engagement

- Manitoba Hydro continues to engage with First Nations, Metis, and public
- Manitoba Hydro continues discussions with potentially affected landowners
- Manitoba Hydro will continue to share project information and be accessible to answer questions



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Land and resource use effects

Change in private property

- Low to moderate nuisance/disturbance on residences during construction (i.e. change in land or resource capacity but land and resource activities can take place at similar levels as under baseline conditions).
- Limited construction duration.
- Potential for intensification of private land development in PDA is primarily low to low/medium based on applicable land use zoning.


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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Land and resource use effects

Designated lands and protected areas

- Will not affect provincially protected lands
- Project will not effect function of Duff Roblin Heritage Provincial Park, through which it will transect



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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Land and resource use effects

Hunting and Trapping

- Small area for hunting/trapping affected overall

Forestry

- Negligible loss of commercial forest area/AAC, woodlots, shelterbelts, private/municipal forest land small effect

Mining

- Interactions with mining interests limited (time of study)

Groundwater

- Effects avoided through mitigations

Project residual effects are considered to be not significant

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Overview What We Heard What We Assessed Key Issue Review Mitigation, Monitoring and Follow-up Findings and Conclusions

Land and resource use effects

Cumulative effects

- Agriculture use accounts for approximately 46% of RAA
- Cumulative nuisance/disturbance effects
- Within RAA, the PDA overlaps with
 - 0.3% of Crown land
 - 0.4% of open zone trapping area and guide-outfitting area
 - 0.2% of total area of mining activities
 - <0.1% reduction in commercial forest lands
- Project's contribution will not appreciably affect land base available for land and resource use

Cumulative effects are considered to be not significant

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