Manitoba-Minnesota Transmission Project Clean Environment Commission Hearing Manitoba Mydro

Biophysical environment Valued Components Assessed Fish and Fish Habitat Vegetation and Wetlands Wildlife and Wildlife Habitat Wildlife Habitat Traditional Land and Resource Use

Why vegetation and wetlands?

- Important for healthy natural ecosystems
- Sustains other elements of biodiversity
- Supports valued human activities
- Valued for indigenous use and collection
- Potential for project effects

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Regulatory guidance

- Species at Risk Act (SARA)
- Manitoba's The Endangered Species and Ecosystems Act (MESEA)
- Noxious Weed Act

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Vegetation and wetlands

- Prairie and boreal ecozones
- Agricultural land and native uplands/wetlands
- 3 species at risk
- 2 provincially listed rare plants
- No plant species at risk critical habitat



Vegetation and wetland concerns

- Herbicide use
- Conservation and protected areas
- Rare plants
- Landscape fragmentation
- Habitat loss and degradation
- Traditional use plants and collecting sites

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Issues addressed through routing

- Areas of large intact vegetation, including areas of special interest largely avoided
- Private and publicly owned managed tall grass prairie avoided
- Project routed parallel to existing linear features

Vegetation and wetland assessment areas

- PDA immediate area of project footprint
- LAA 1 km buffer either side of PDA
- RAA 15 km buffer either side of PDA

Vegetation and wetlands assessment

- Change in landscape diversity
- Change in community diversity
- Change in species diversity

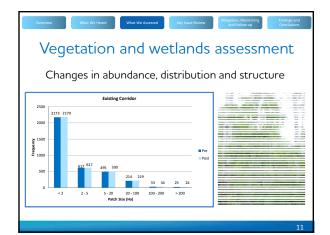


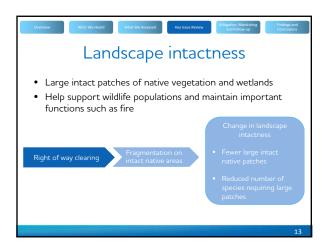
Wat We Assessed to your Review Management Assessment

- Landscape intactness
- Native upland vegetation and wetland cover
- Rare plant species
- Traditional use plant species
- Invasive plant species

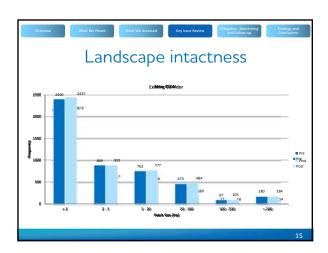


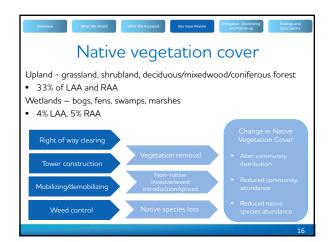
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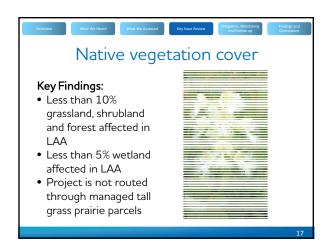


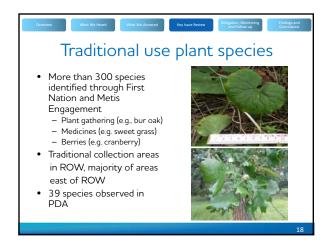


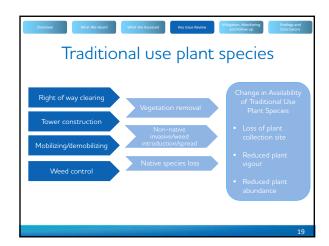














Key mitigation measures

Clearing and construction when ground is frozen or dry

Vehicle and equipment restricted to established roads and trails

Existing access routes used where possible

Equipment clean and free of debris

Disturbed areas rehabilitated where appropriate, and weed control conducted at access points

Cumulative effects • RAA altered by agriculture conversion and development - 48% agricultural land, 13% developed • Project contribution incremental, but small - Less than 1% native upland and wetland • Limited interactions with future projects • Project will not affect long-term persistence or viability of landscape, community or species diversity

Monitoring and follow-up • Further surveys (incl. rare plants and invasive

- plant species) and consultation with

 Manitoba Wildlife and Fisheries Branch
- Further wetland intersect pre-construction surveys
- Post-construction monitoring to evaluate effectiveness of construction mitigation and identify areas requiring further action

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Key findings and conclusions Number of patches will increase, but net change small, no patch size category lost Less than 10% upland and less than 5% wetland area affected (Areas of Special Interest areas largely avoided) No traditional use plant species lost from LAA or RAA due to project Project residual effects are considered to be not significant