

# Nature Conservancy of Canada

Natural Infrastructure Workshop  
November 14th, 2018

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Regional Vice President – Manitoba (Acting)



# Nature Conservancy of Canada

## VISION

-  We envision a world in which Canadians conserve nature in all its diversity, and safeguard the lands and waters that sustain life.

## MISSION

-  The Nature Conservancy of Canada leads and inspires others to join us in creating a legacy for future generations by conserving important natural areas and biological diversity across all regions of Canada.

# Landscape-based Conservation

NCC considers entire landscapes, including watersheds, to support the greatest diversity of species and ecosystems.

We produce ***Results You Can Walk On.***



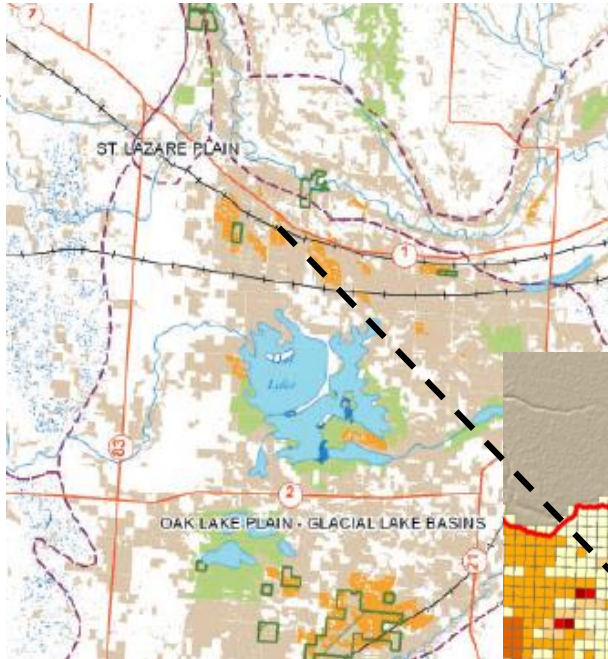
# Biodiversity Conservation and Bond Funding Natural Infrastructure?



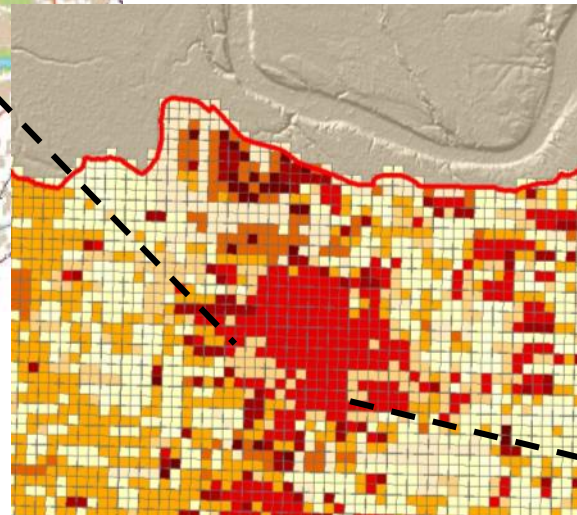


# NCC's Conservation Planning Framework

Geographic Scale

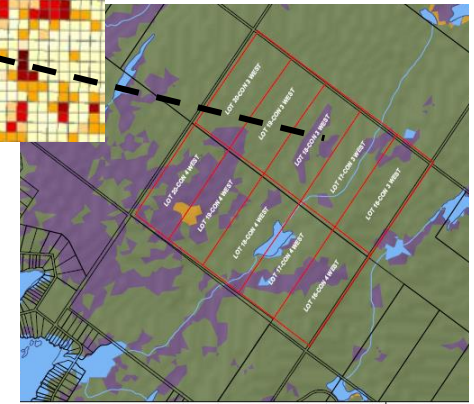


Ecoregion



Property

Natural Area  
Conservation Plan (NACP)



# NCC's Biodiversity Conservation Planning

Conducting *Open Standards for the Practice of Conservation*:

- 🍃 Targeted

- 🍃 Focused

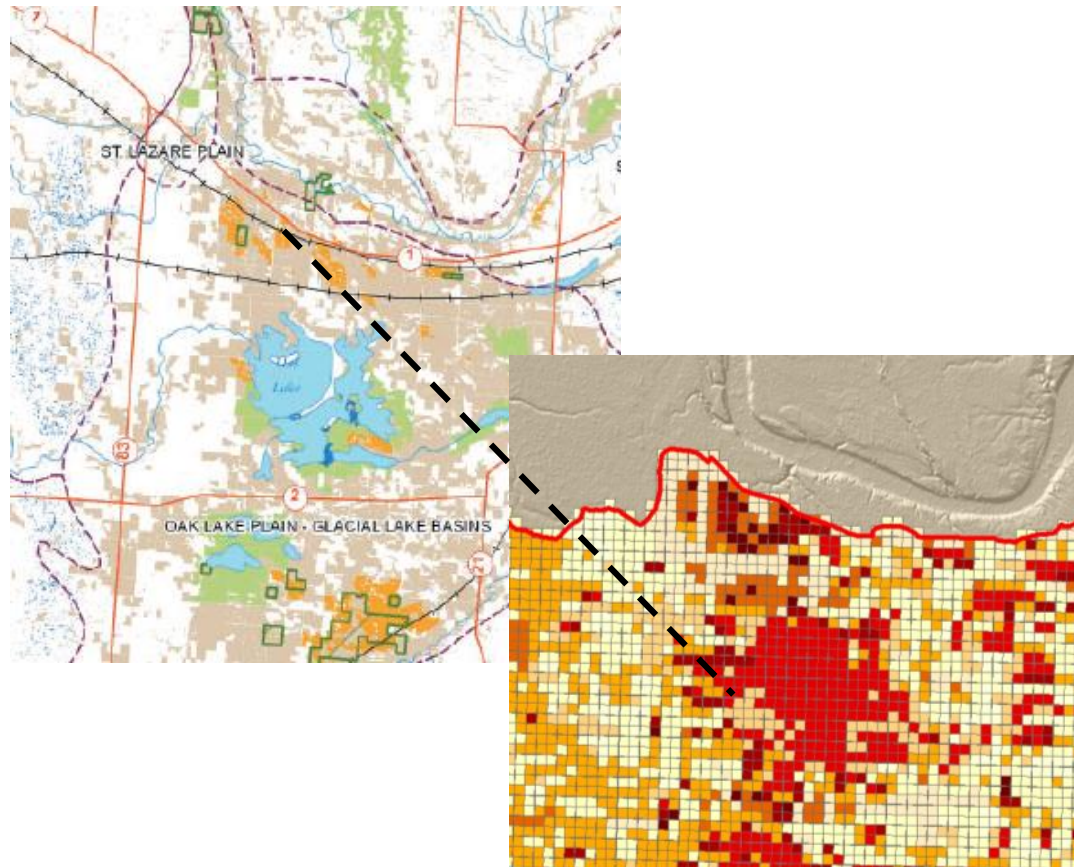
- 🍃 Actions identified to abate specified Threats

- 🍃 Objectives that are SMART

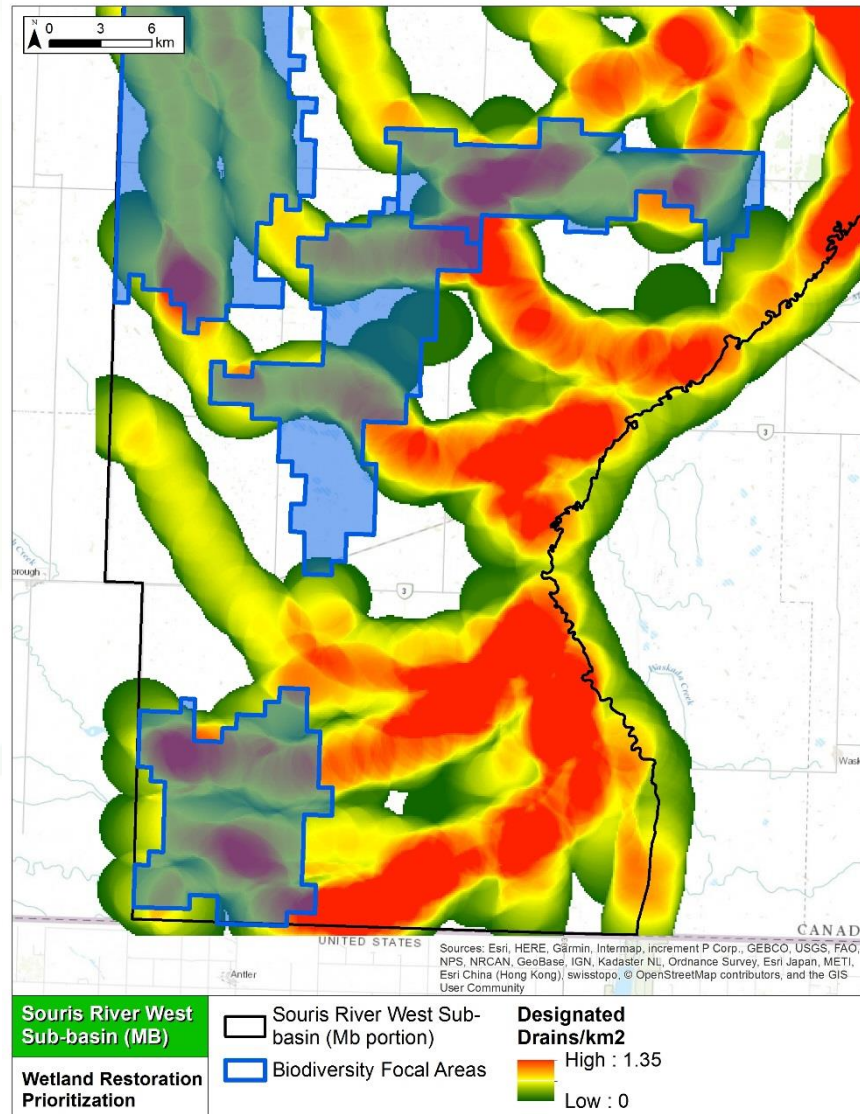
- 🍃 Effective Monitoring programs

Facilitates adaptive management and allows the measuring of success

# Prioritizing for Biodiversity/ Natural Infrastructure Need

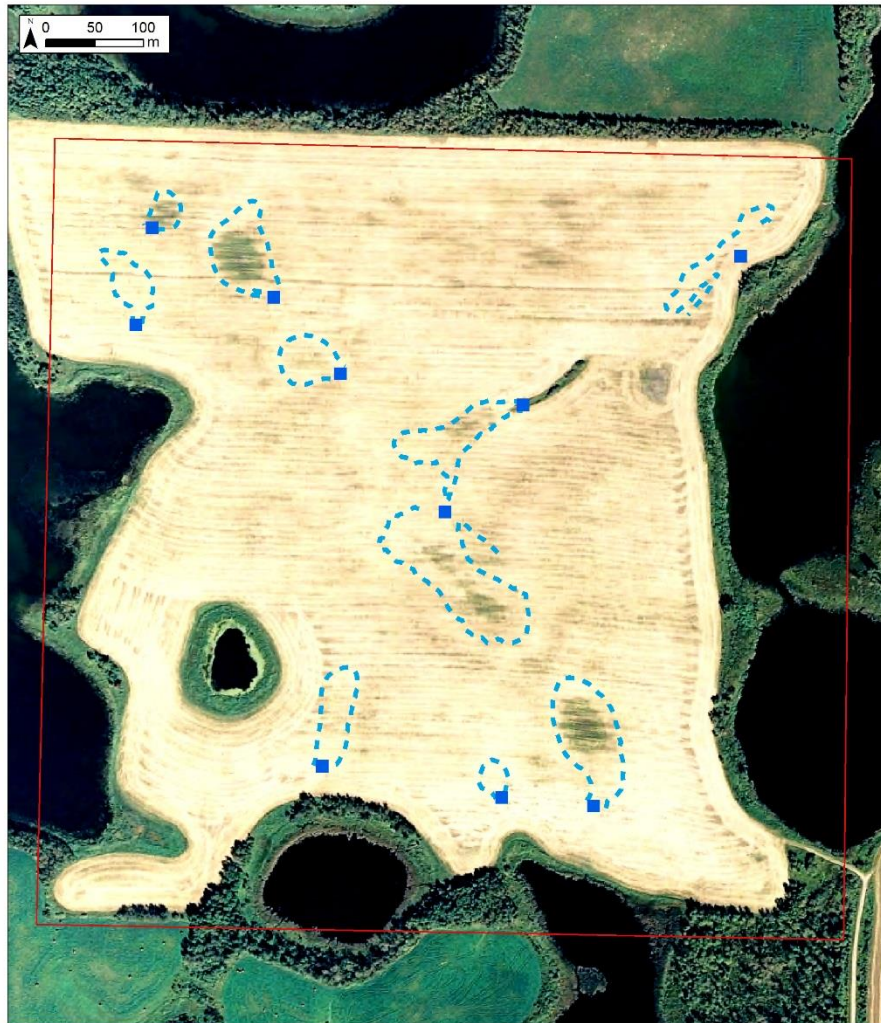


# Prioritizing for Biodiversity/ Natural Infrastructure Need





# At the Project/Parcel Level



Riding Mountain  
House Property

Wetland Restoration

Property Boundary Restoration Site Plug Location



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# At the Project/Parcel Level

## Lentic Wetland Health Assessment – Field Sheet

Property Name: Marjerson Surveyors: Jordan Becker and Monica Reed  
Date: July 29, 2015 GPS Coordinates/Site Label: Marj4  
Wetland Classification: Linked Basin Marsh  
Type of Wetland: Natural / Anthropogenic / Restored Water Level: High / Med / Low  
Photos #/Names: 2015 Marjerson Marj4 - Linked basin marsh 1 ... 3

### Conservation Context (questions do not contribute to scoring but represent important contextual information)

General Site Description (Topography, Hydrology, Landscape):  
Restored Marsh, representative of the many wetland restorations on quarter section.

General Ecological Description and species composition (Top 10 dominant species):  
Typha dominant (60% native/ 40% invasive) with some open water; birds heard. Scirpus, juncus,  
water plantain, outer edge with sloughgrass, timothy (small proportion of wetland),  
cultivated/bare/seeded directly adjacent to wetland (recommend increased buffer zone)

Identify current and former land use of the site, does adjacent land use affect the site:  
Seeded hay surrounding

Describe and site features which may require special management or consideration (i.e. Invasive species, SAR, Neighbours Land Use): Recommend buffer zone

Priority Invasive Species present? Yes ☐ No ☐

What species: Typha

Is the patch new (not previously mapped)? Yes ☐ No ☐ Don't Know ☐

If yes, was the patch mapped during the assessment? Yes ☐ No ☐ Partial ☐

(Follow the Invasive Species Monitoring Protocols and fill out the Invasive Species Reporting form or Geodatabase.  
If the entire patch was not mapped, indicate the known location(s) and indicate that the full extent is unknown.



8. Human-Caused Bare Ground:  
(If anthropogenic, only include impacts since the wetland was created)

6 4 2 0

4 / 6

9. Degree of Artificial Addition/ Removal of Water:  
(If anthropogenic, only include impacts since the wetland was created)

9 6 3 0 N/A

9 / 9

Total 40 / 48

Percentage 82%

Health Score	Condition Rating
0-24%	Poor (Imminent Loss – cannot continue in this state)
25-74%	Fair (Degradation – requires management or will degrade to Poor condition)
75-89%	Good (Acceptable range of variation, some management may be required to prevent degradation to Fair condition)
90-100%	Very Good (Optimal health – little to no management required)

Comments (include relevant details below to provide an explanation or expand on the scores given)



# At the Project/Parcel Level



Projects prioritized with Natural Capital function as objective

Project designed to maximize co-benefits

The map shows a large green rectangular area representing the restoration site, overlaid on an aerial photograph of a wetland. A red line indicates the property boundary. Blue dashed lines and squares mark specific restoration sites and plug locations. A scale bar in the top left corner shows 0, 50, and 100 meters.

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House Property

Wetland Restoration

Property Boundary Restoration Site Plug Location



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Property Boundary Restoration Site Plug Location

# Biodiversity Conservation and Green/Resilience Bonds





# Biodiversity Conservation and Green Resilience Bonds

-  Conservation Planning is done within Context of Climate Change
-  Foundation of biodiversity conservation is landscape resilience (in light of flood/drought)
-  Conservation Frameworks well suited to performing in green/resilience bond environment
-  Can prioritize, target, monitor and report on investment performance



Thank You.