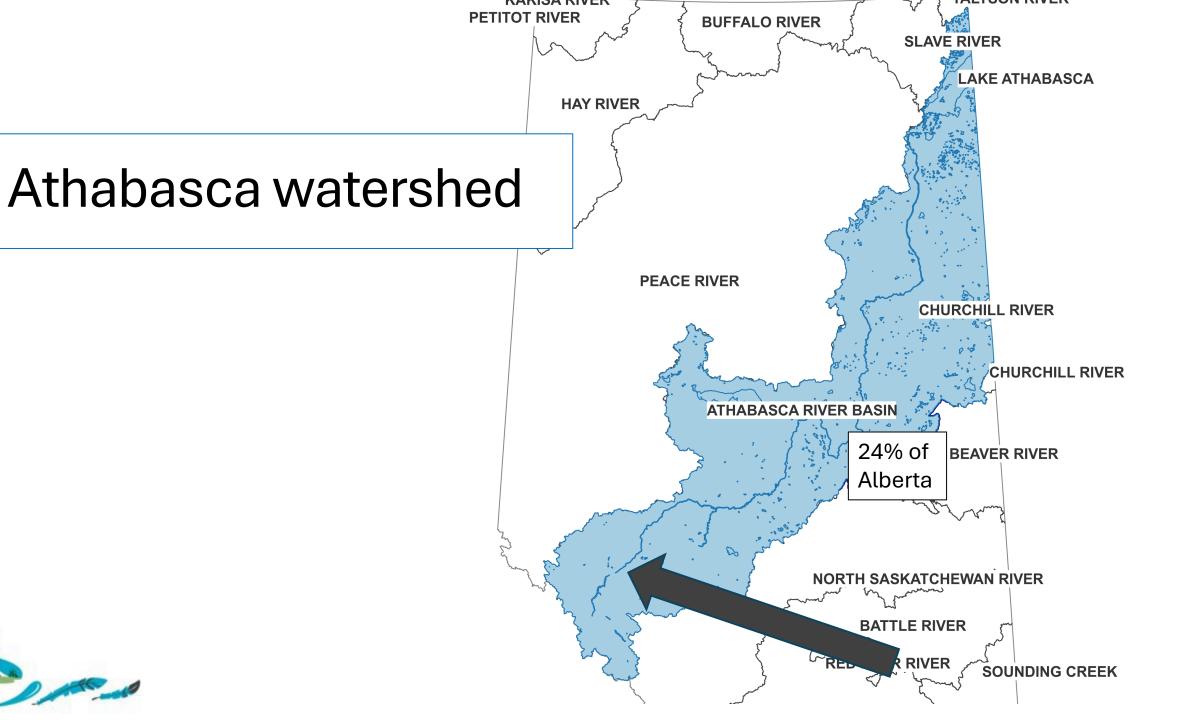


Healthy Shorelines Initiative

Sarah Shortt | Watershed Science Coordinator September 19, 2024



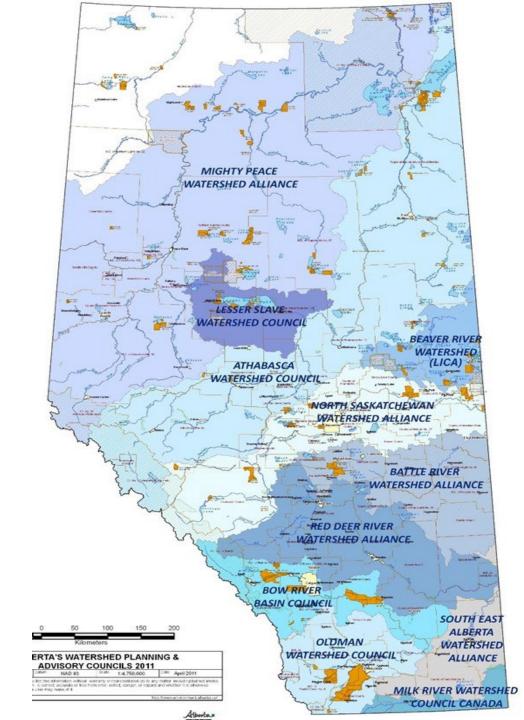


Watershed Planning and Advisory Councils

11 Watershed Planning and Advisory Councils (WPACs) based their work on the *Water for Life* strategy (2003) for their Watershed:

- 1. Safe, secure drinking water,
- 2. Healthy aquatic ecosystems,
- 3. Reliable quality water supplies for a sustainable economy.

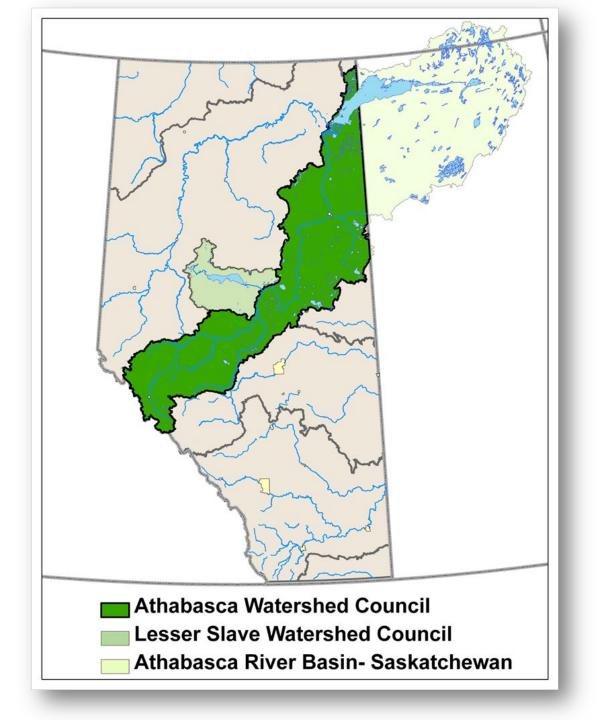


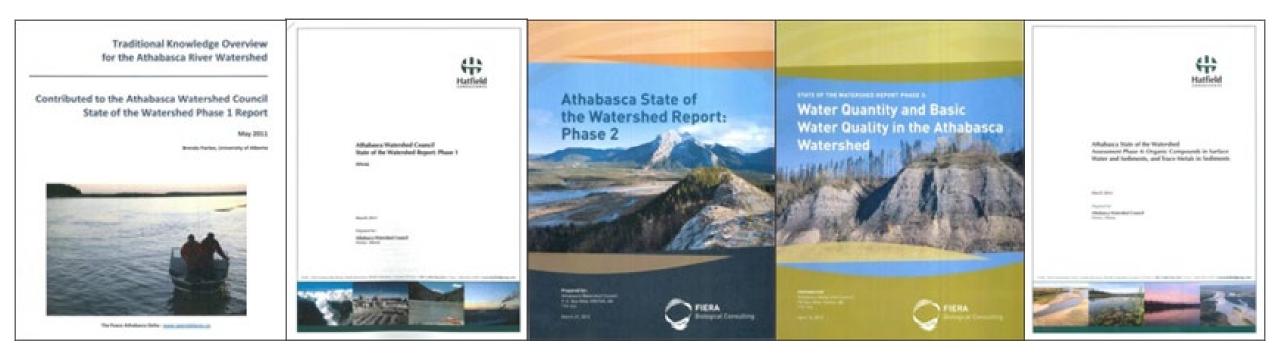


Athabasca Watershed Council

- Founded in 2009, the AWC undertakes four foundational roles in various levels under the *Water for Life* Strategy:
 - Convener and Collaborator
 - Monitoring and Reporting
 - Policy and Planning
 - Education and Literacy







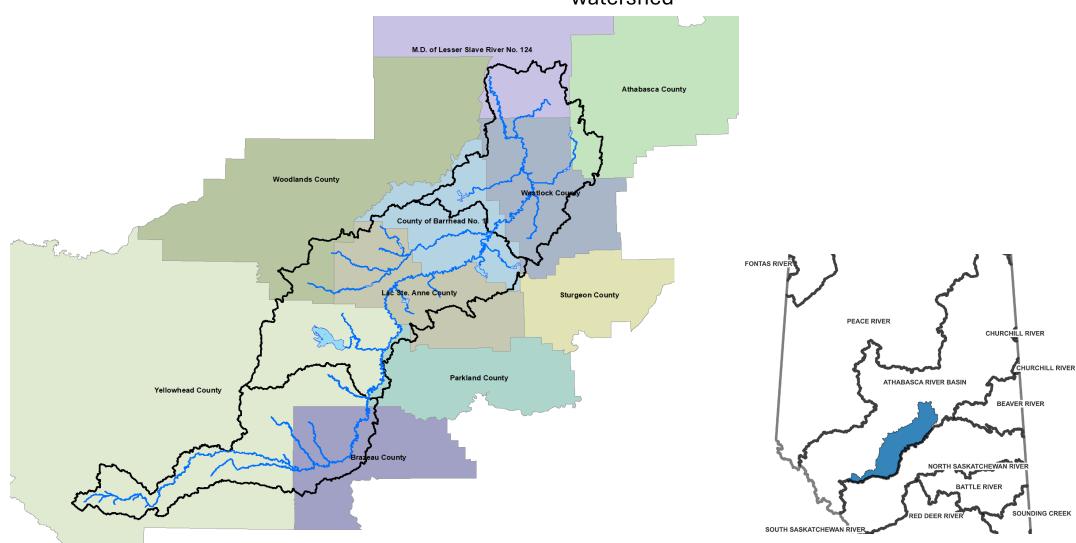
State of the Watershed Reports

State of the Watershed Reports 1-4 and a Traditional Knowledge Overview



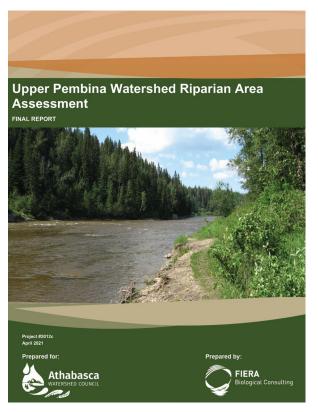
Pembina River watershed

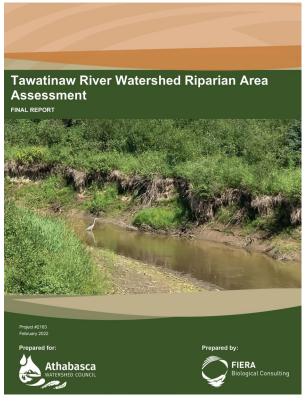
- 10% of the Athabasca watershed
- Covers an area of 14,296 km²
- 10 Counties and 3 towns within the Pembina watershed

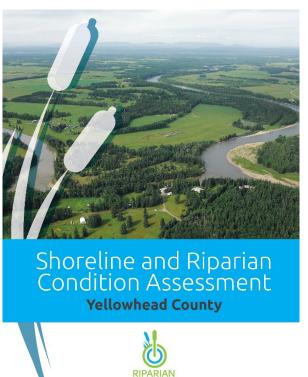




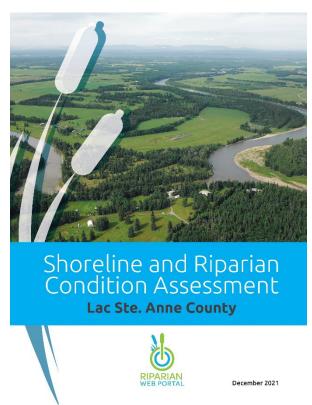
Riparian Areas Assessments





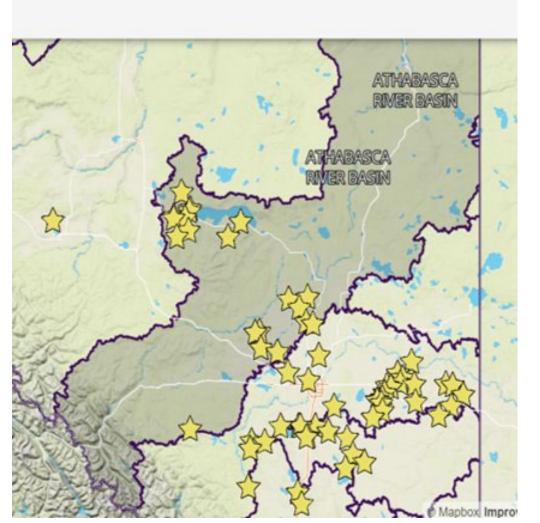








Riparian Web Portal



www.riparianresourcesab.info





Riparian Web Portal







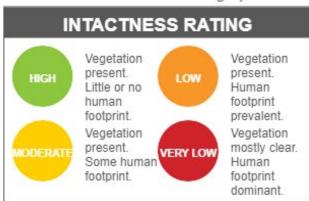


RIPARIAN ASSESSMENT

Chip Lake

Riparian areas are the biologically rich and productive shoreline areas at the edges of lakes, streams, wetlands, and rivers.

A GIS-based method and dataset was created to assess riparian intactness (or condition) at the watershed scale, including lakeshores and streams. The riparian area was assessed 50 metres back from the water line and given an intactness rating based on what is visible from satellite imagery.

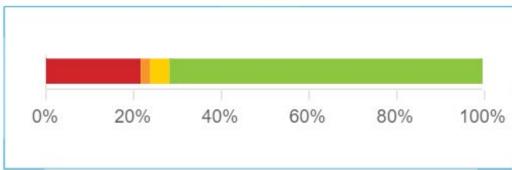


Summary of Results

Out of the 63 km of shoreline assessed. 71.7% was considered to have high intactness, 4.4% was moderate, 2.2% was low, and 21.7% was very low.









What is Riparian Intactness?

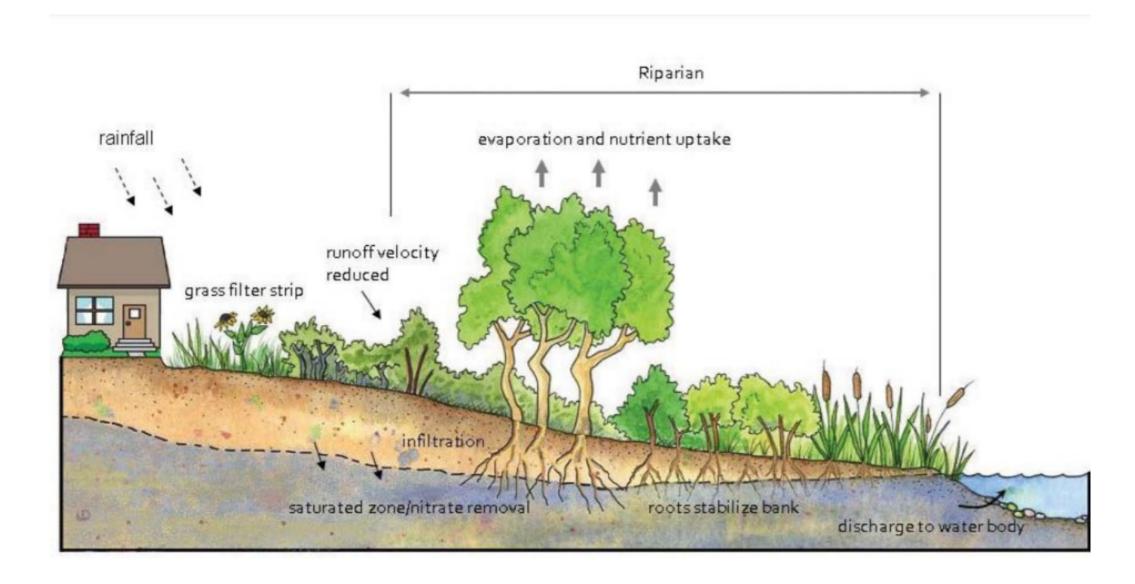


Illustration by: Terra Simieritsch



Why riparian (shoreline) areas?





Restoration Initiatives By Year







4 Restoration Initiatives



Invasive Species Pulls 9 Offsite Waterers Installed





3 sub watersheds

5334km

shoreline data available

on the



from

\$107,000

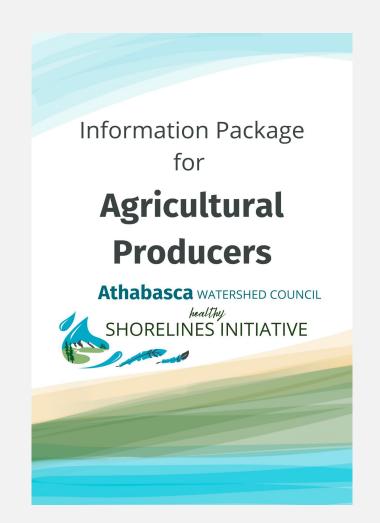
in kind hours donated by

17 partners



Shoreline Packages and Information







The Impact on Community Stewardship













Pembina River Watershed **Technical** Advisory Committee

















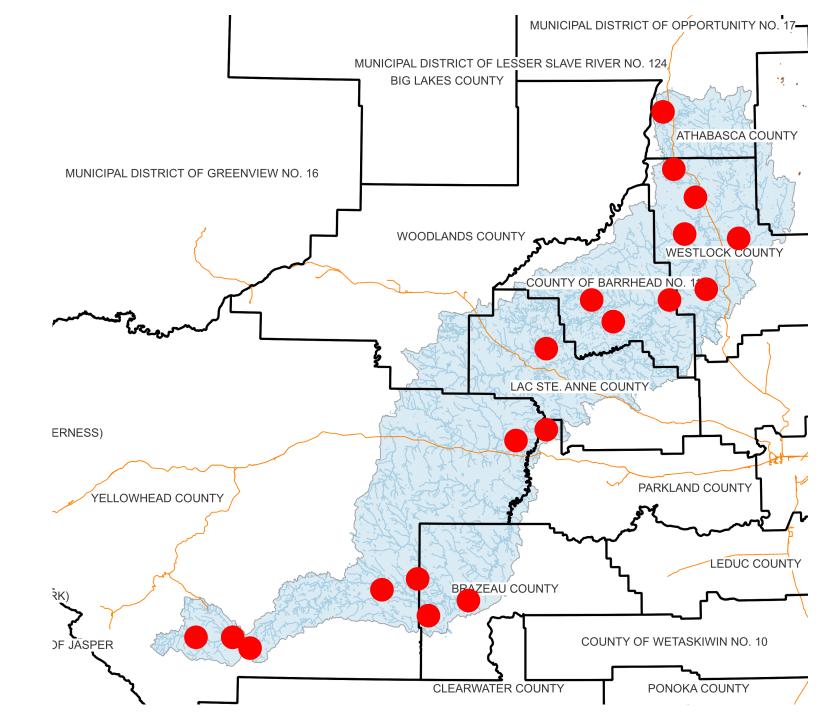




ALEXIS NAKOTA SIOUX NATION



2-Year Water
Quality
Monitoring
Program in the
Pembina River
watershed

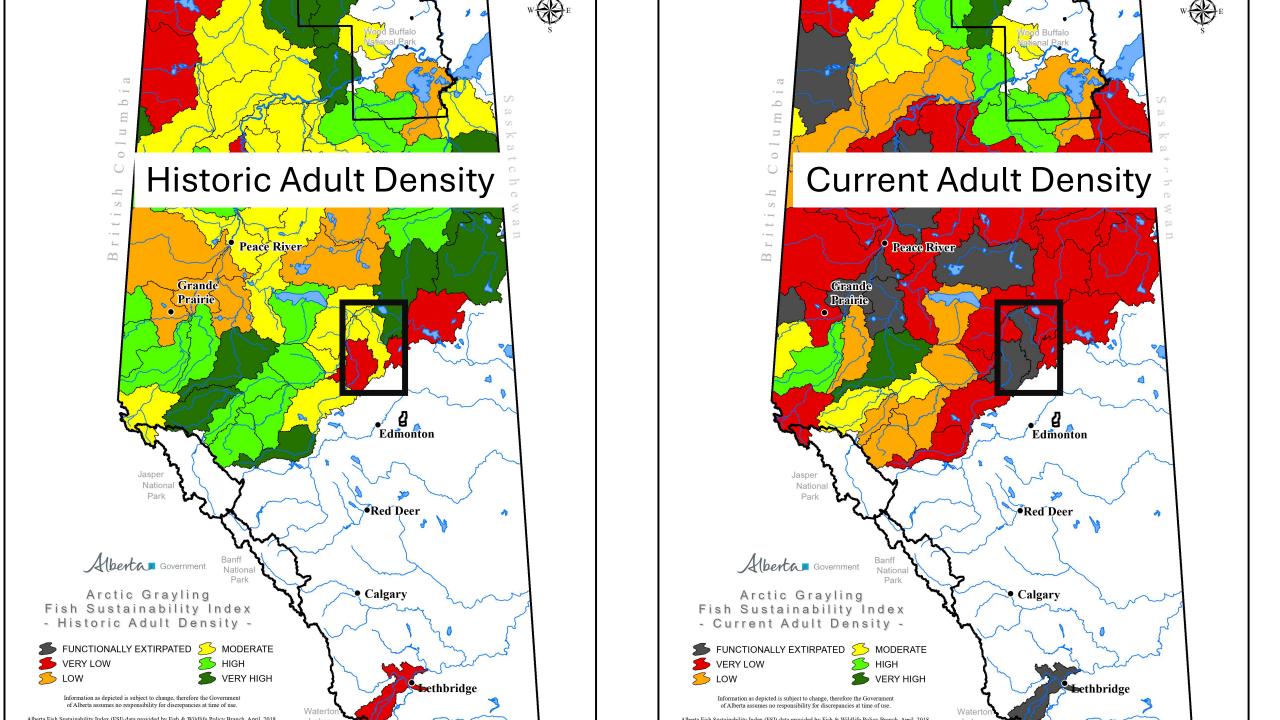








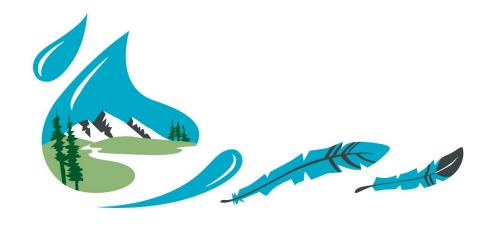




Tawatinaw Watershed Historical Video

A project from the Tawatinaw Watershed Working Group, aimed at communicating past efforts and encouraging further volunteer involvement in the Tawatinaw Watershed.





Thank you!

Contact Information:

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Athabasca Watershed Council

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