

RIPARIAN ASSESSMENT

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

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

INTACTNESS RATING



HIGH

Vegetation present.
Little or no human footprint.



LOW

Vegetation present.
Human footprint prevalent.



MODERATE

Vegetation present.
Some human footprint.



VERY LOW

Vegetation mostly clear.
Human footprint dominant.

Summary of Results

Data Year: 2018

Out of the 18 km of shoreline assessed, 61% of the shoreline was considered having high intactness. 16% was moderate, 11% is low and very low intactness. Jackfish Lake has been under significant development and recreational pressure for many decades; these factors have impacted certain components of the lake ecosystem.

Jack Fish Lake

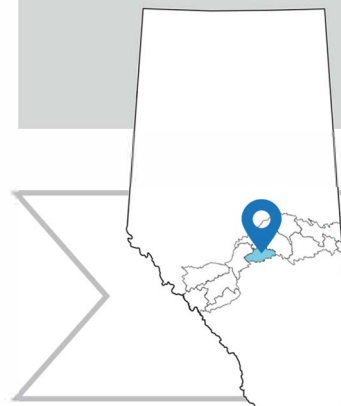
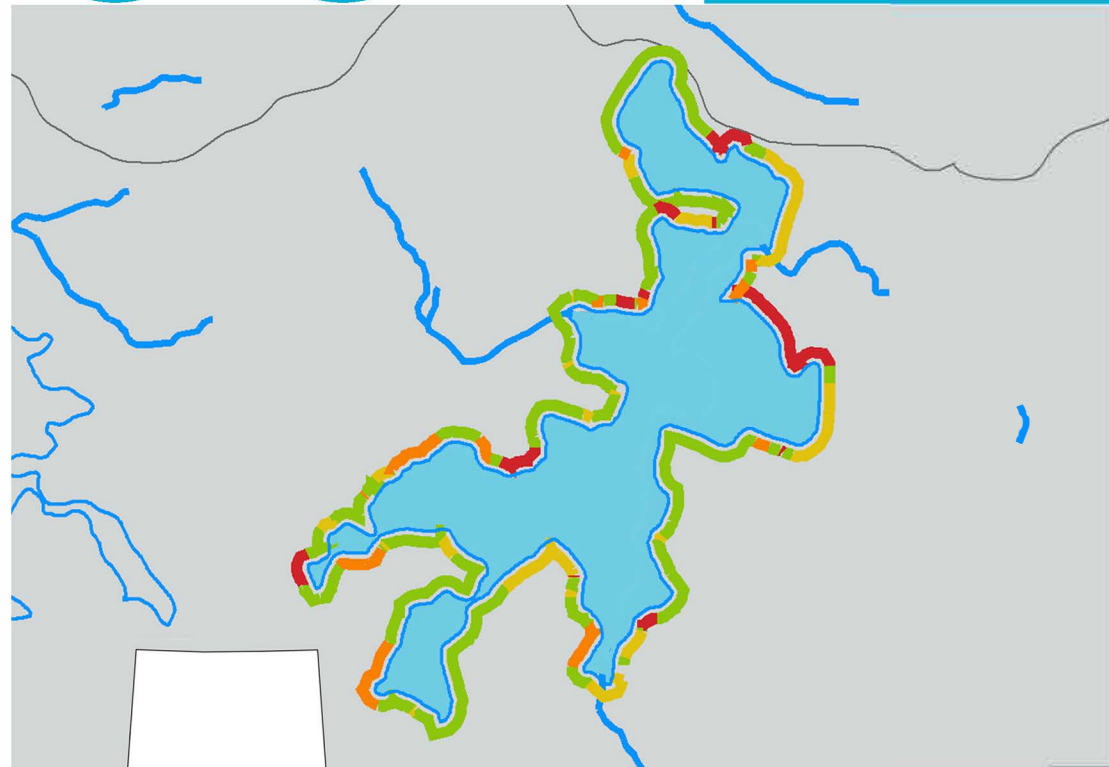
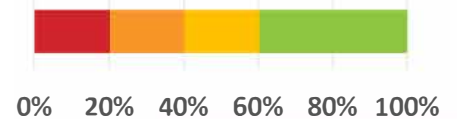
18

Kilometres
Assessed

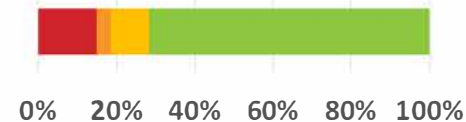
61%

Overall Stream
High Intactness

Jack Fish Lake



Modeste Sub-Watershed



LEGEND

- Lake
- Watershed
- Watershed Boundary
- Stream

Why are riparian areas important?



IMPROVE WATER QUALITY by trapping sediments, filtering nutrients and pollutants, reducing enrichment that leads to increased aquatic plant and algal growth;



MITIGATE FLOODS AND DROUGHTS by storing and slowing the release of water and reducing erosion;



IMPROVE BIODIVERSITY by providing fish and wildlife habitat and cooling water temperatures;

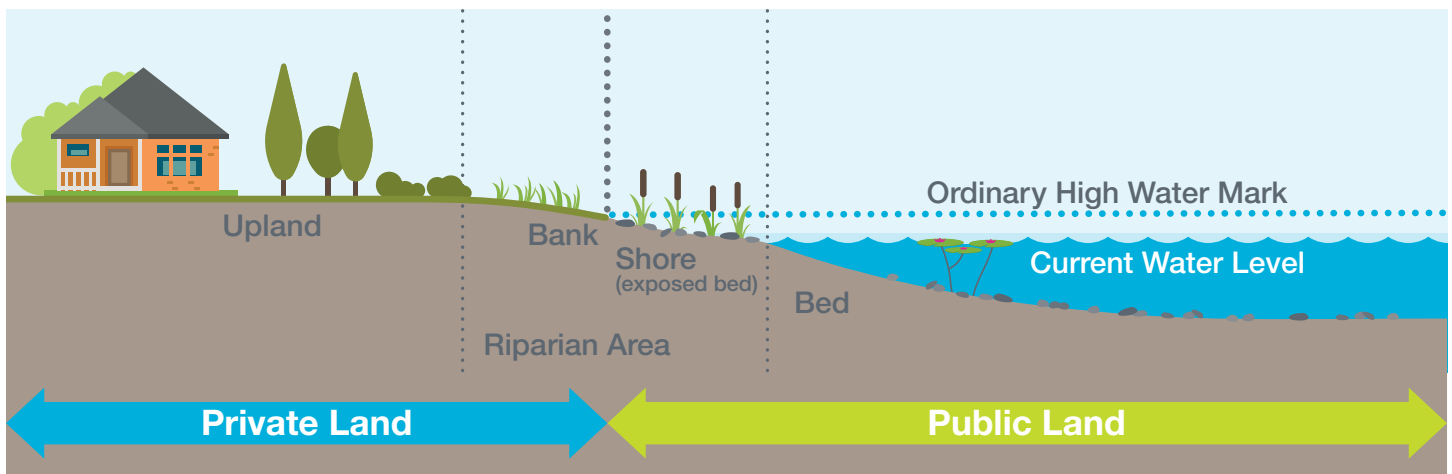


PROVIDE AESTHETICALLY PLEASING AREAS for recreation or cultural activities; and



ADD LOCAL ECONOMIC VALUE by increasing property values or providing areas for nature viewing.

Where is a riparian area?



How can you improve the health of your riparian area?

- Leave your shoreline natural—don't remove any plants, grasses or aquatic vegetation as they all play an important role in keeping your lake healthy.
- If your shoreline has been cleared of vegetation, replant with native plants as much as possible and watch for invasive species. Report as appropriate.
- Learn more about the health of your riparian area
- For larger areas, create a management plan to improve the intactness of the riparian area over time
- More resources are available at alberta.ca search "riparian"