



# The Bigger Picture

## Thinking Like a Watershed

We can do many things on our own property to fix an ailing streambank or piece of lakeshore. It's important we do what we can as individuals but maintaining or restoring a watershed has to be an integrated collection of individual efforts. Our individual efforts can sometimes be less than effective, especially in the face of the cumulative effects of all upstream activities. Riparian health on your reach of the watershed is affected by what your neighbours do, and what activities occur, sometimes far from your place in the watershed. Watershed level work seems overwhelming because of the scale. However, there are ways to make watershed scale work manageable. The first step is to recognize that we can manage cooperatively what we can't individually. That is an old, powerful concept called "community". All of us belong to some community, usually at a municipal district or county level; it could be a small watershed group on one short stream or on a small lake. At those levels, every community boundary includes a larger portion of a watershed than that of an individual property owner. Add two or three communities together and most of a watershed will be found in those boundaries.



Mapping the watershed and getting to know your neighbours is the beginning of making the task manageable. Now is the time for some riparian awareness, helping people understand what riparian areas are, how they function, their value and the options for managing and caring for them.

Riparian health evaluation can help communities appreciate the current condition of riparian areas in their care and create a pathway for management changes. These evaluations link people in a watershed together to work on a common goal of improving or maintaining riparian health. Many communities have created a map using riparian health, water quality or land use information. The map helps to answer the question "where are we today?". This step can be a way to order all of the issues and create a priority for managing them. It is a signal to others that your community wants to move forward to resolve problems and restore health; it might be a way for you to get some help.

Alberta is divided into many watersheds. At the big end of the scale there are nine distinct drainages; one flows south to the Gulf of Mexico, three flow east to Hudson's Bay and five flow north to the Arctic Ocean. Each of these drainage basins accumulate water from smaller ones. A **watershed** is the collecting basin for water received as rain or snowmelt. It can be the sum of many streams, channels, drainages, wetlands, ponds and lakes. Sometimes the pathway that water takes is on the surface, in the form of rivers, streams and lakes. The pathway can also be subsurface movement of water. That can be harder to track but still connects pieces together to form a watershed.

All of us are part of a watershed and are connected to one another.

*"Riparian health opened my eyes to stuff I hadn't thought about, like too many boat docks and beaches"*

*"This assessment helped me see what riparian health is now, gave me a feel for problems and got me thinking about what I could do"*

*"I like the idea of looking at the bigger picture. I can't do it all on my own place"*

# Thinking Like a Watershed

road construction & culverts

timber harvesting

gravel mining

cattle grazing

channelization

cultivation

Where do you live in the watershed?

Who are your watershed neighbours, both upstream and downstream?

What is the sum of all the activities that occur in your watershed?

Want to make a difference?

urban development

Try working together!



## *Working Together for Watersheds*

Cows and Fish Program



Community Health Report

When a community has the information from a riparian health inventory it is a small step to setting some goals and developing management plans useful for individual landowners and the broader watershed. A riparian health evaluation sets a benchmark so the effect of management choices can be considered. A single health evaluation provides a rating for one point in time. Like a health check-up for us, once may not be enough. To monitor trends, measure effects of management and to account for natural variation, it is useful to repeat health evaluations at periodic intervals, such as every five years. It's a way of knowing, and showing, you're on the right track.



*When a community works together, all of your individual efforts pay big dividends on a watershed scale.*

*Healthy, functioning riparian areas in an intact watershed would be something worthwhile to leave your children.*

