Technical Committee Update

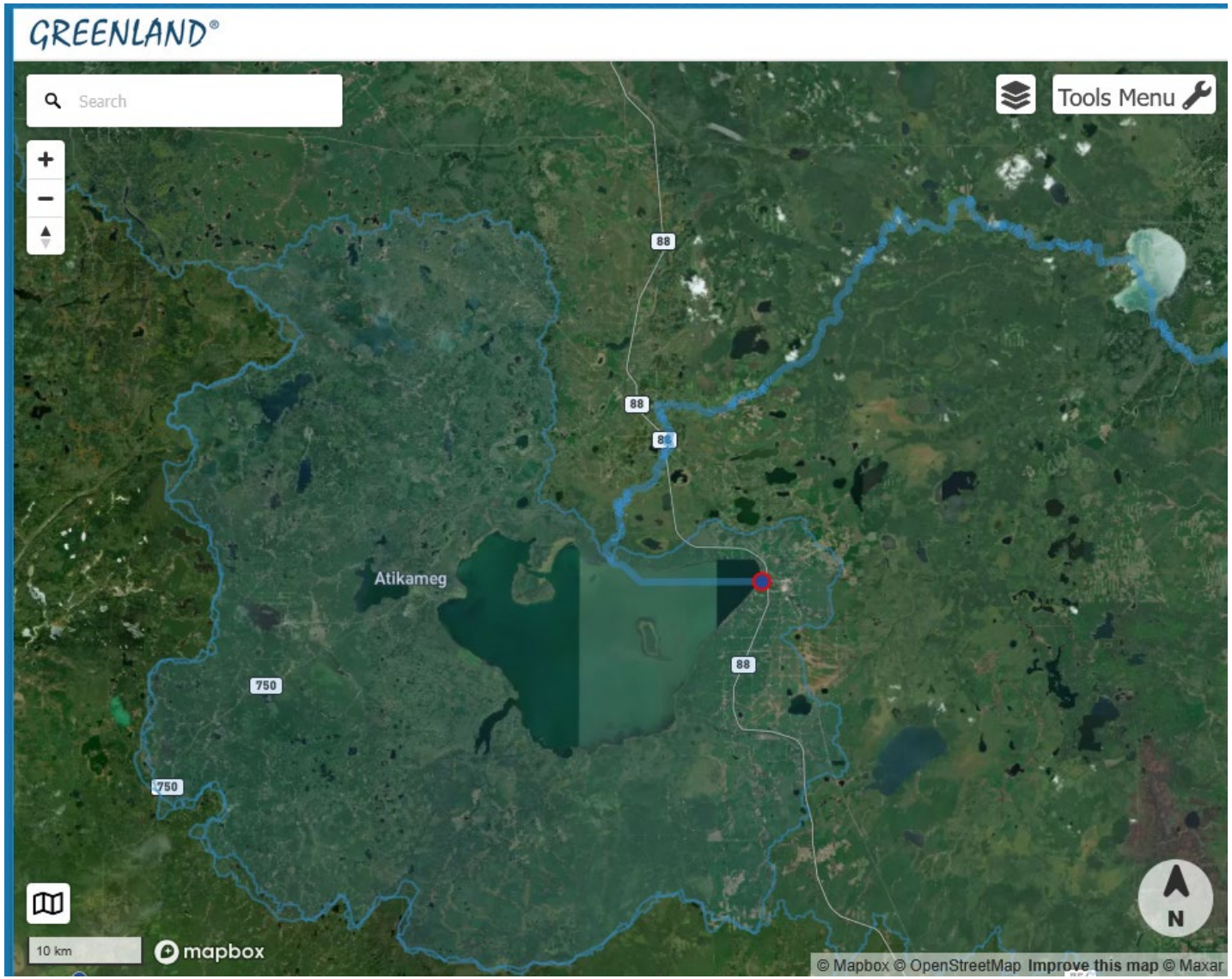
Annual General Meeting June 19, 2025

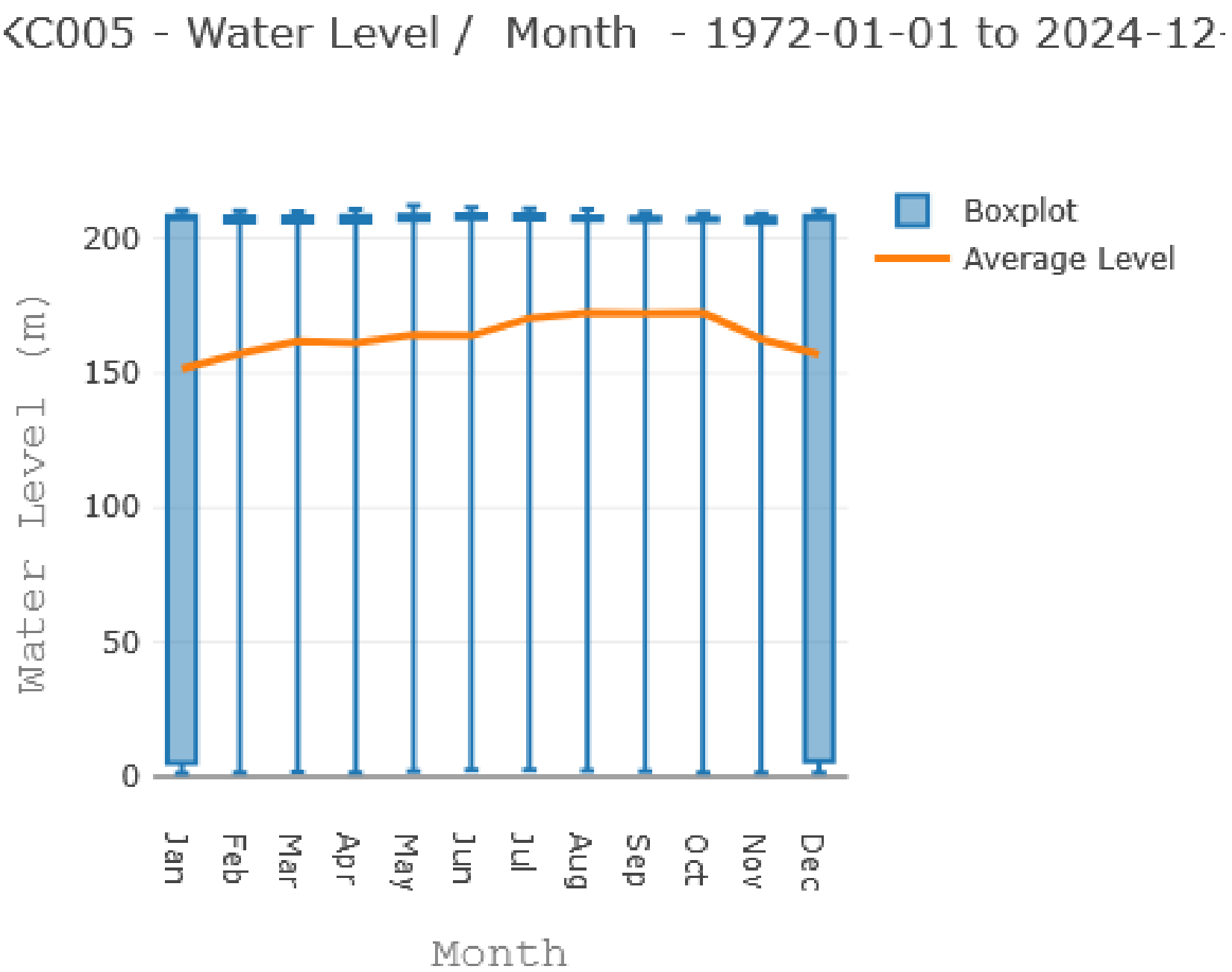
Mighty Peace Watershed Alliance
Diverse, Responsible, Connected

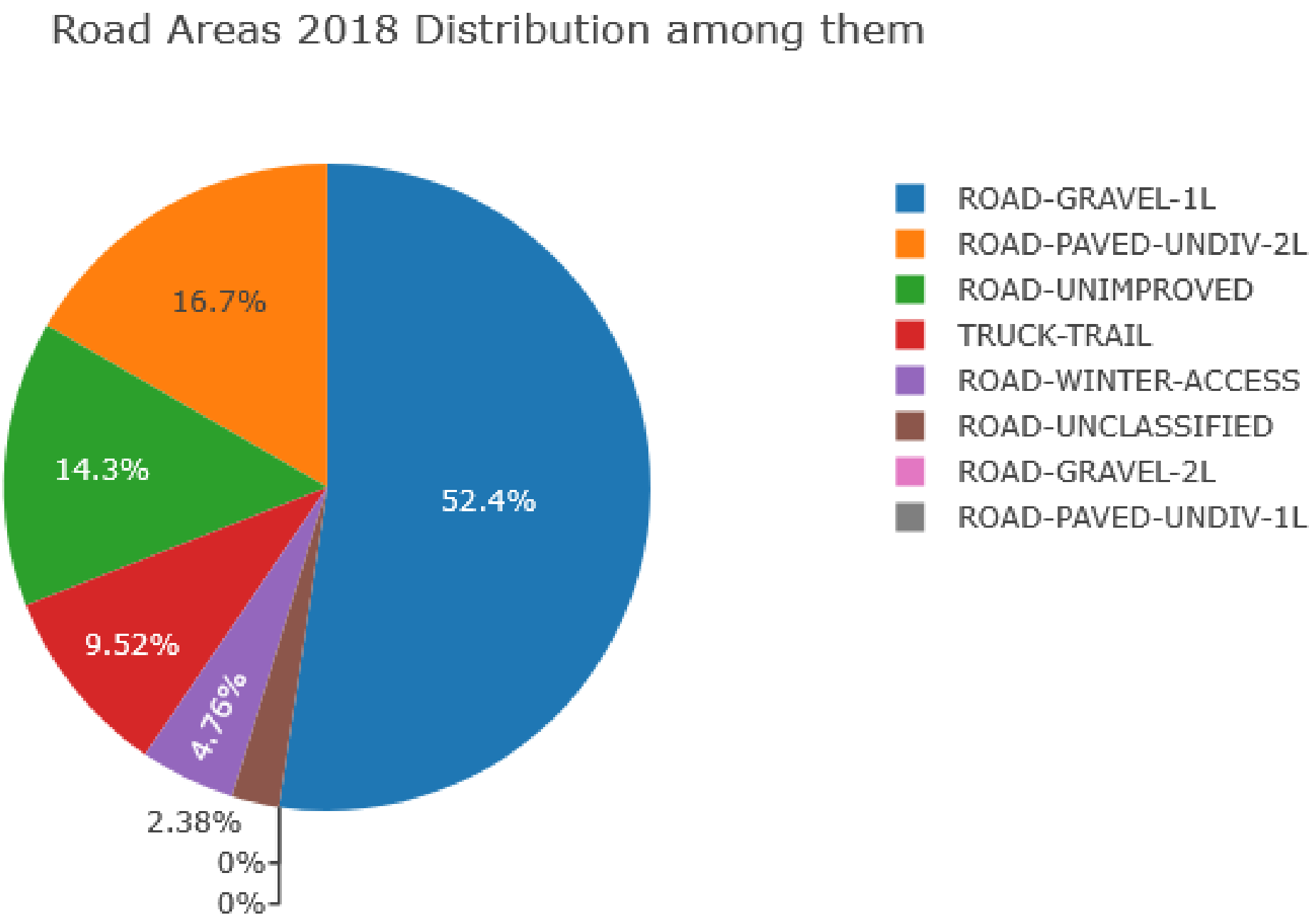
Technical Committee

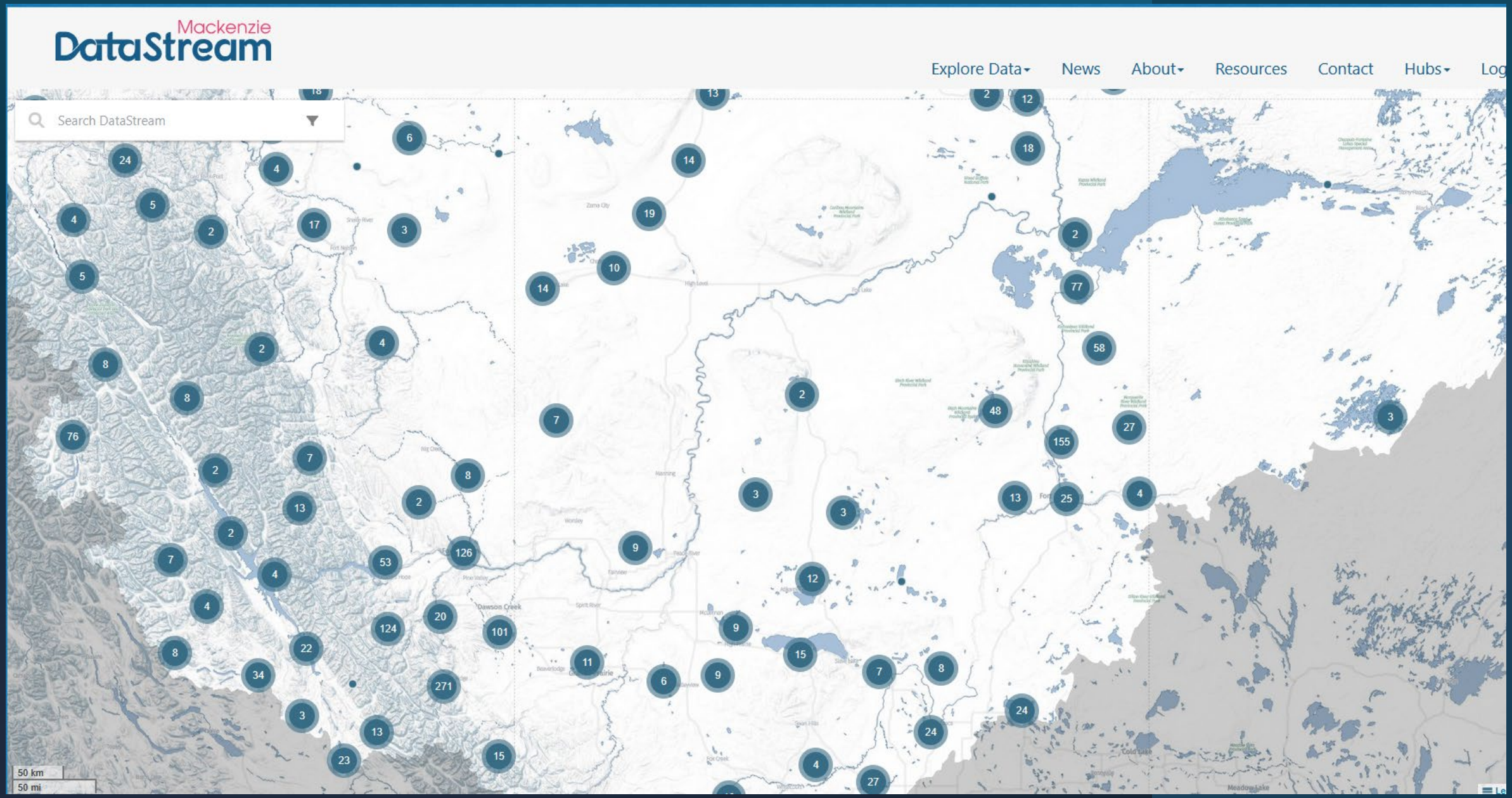
- Abdi Siad-Omar
- Ashley Rowney
- Chris Thiessen
- Dave Walty
- Jill Henry
- Rick Keillor

Alberta Water Council Web-Based Source Water Protection Tool



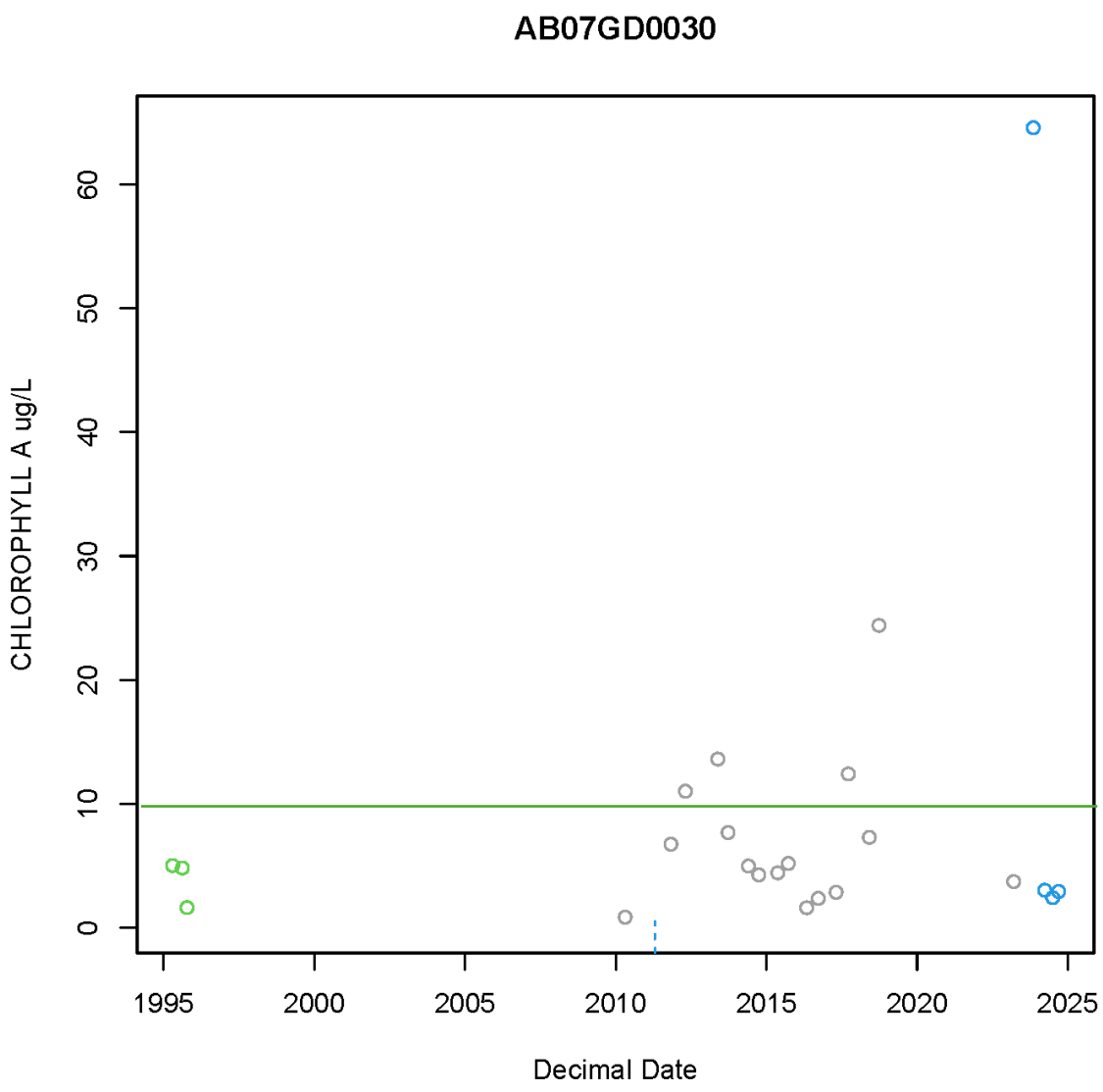

KC005 - Water Level / Month - 1972-01-01 to 2024-12-
Boxplot
Average Level
Water Level (m)
200
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month

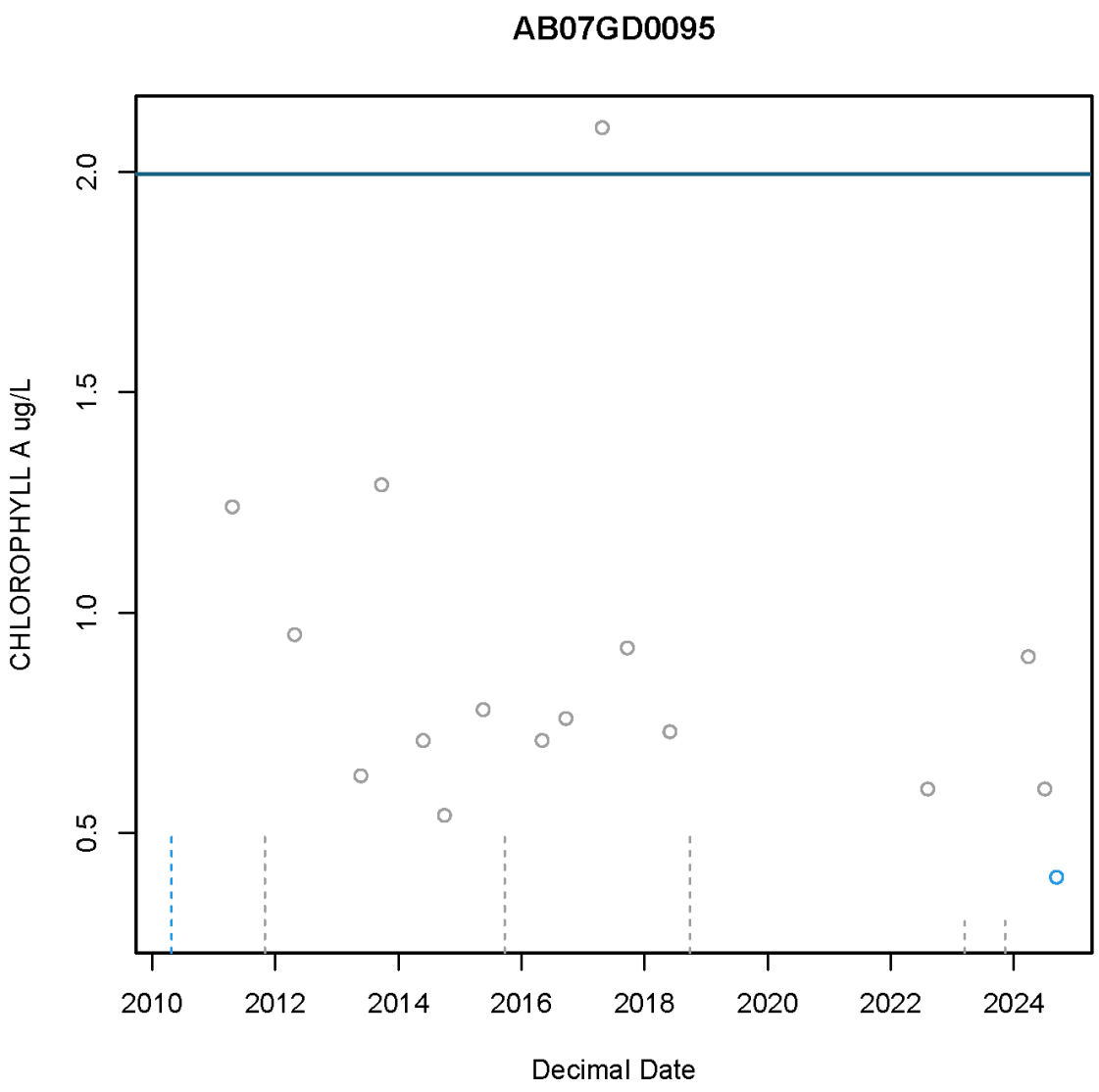

Road Areas 2018 Distribution among them
16.7%
14.3%
52.4%
9.52%
4.76%
2.38%
0%
0%
ROAD-GRAVEL-1L
ROAD-PAVED-UNDIV-2L
ROAD-UNIMPROVED
TRUCK-TRAIL
ROAD-WINTER-ACCESS
ROAD-UNCLASSIFIED
ROAD-GRAVEL-2L
ROAD-PAVED-UNDIV-1L


Mackenzie
DataStream
Explore Data
News
About
Resources
Contact
Hubs
Log
Search DataStream
Dawson Creek
Zama City
Fort Nelson
Cold Lake
Meadow Lake
50 km
50 mi

Beaverlodge Water Quality Monitoring

Alberta Government


AB07GD0030
CHLOROPHYLL A ug/L
0
10
20
30
40
50
60
1995
2000
2005
2010
2015
2020
2025
Decimal Date


AB07GD0095
CHLOROPHYLL A ug/L
0.5
1.0
1.5
2.0
2010
2012
2014
2016
2018
2020
2022
2024
Decimal Date

Alberta Conservation Association

Conserving Alberta's Wild Side

Landowners

County of Grande Prairie No. 1

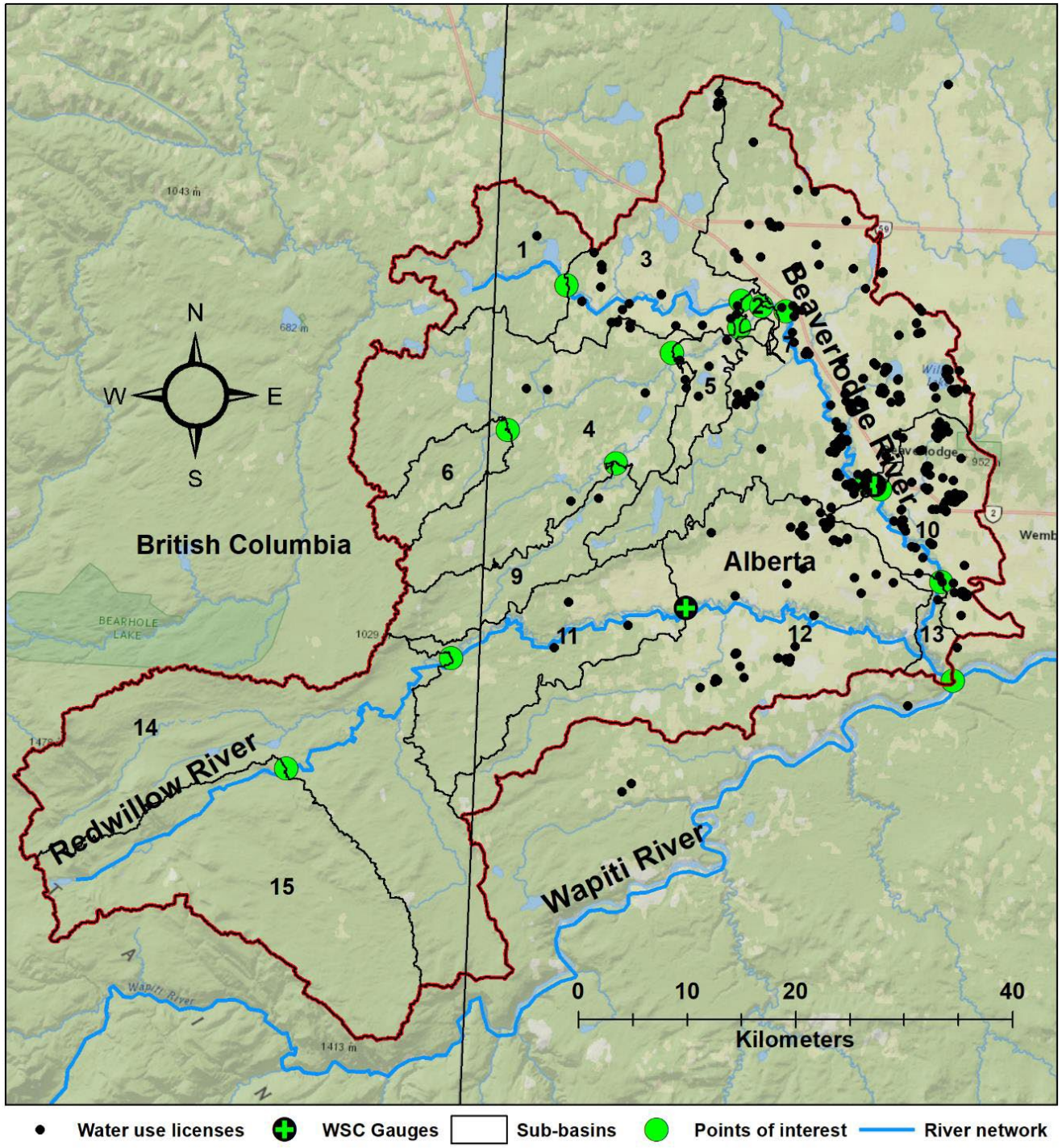
AWES Agroforestry & Woodlot Extension Society

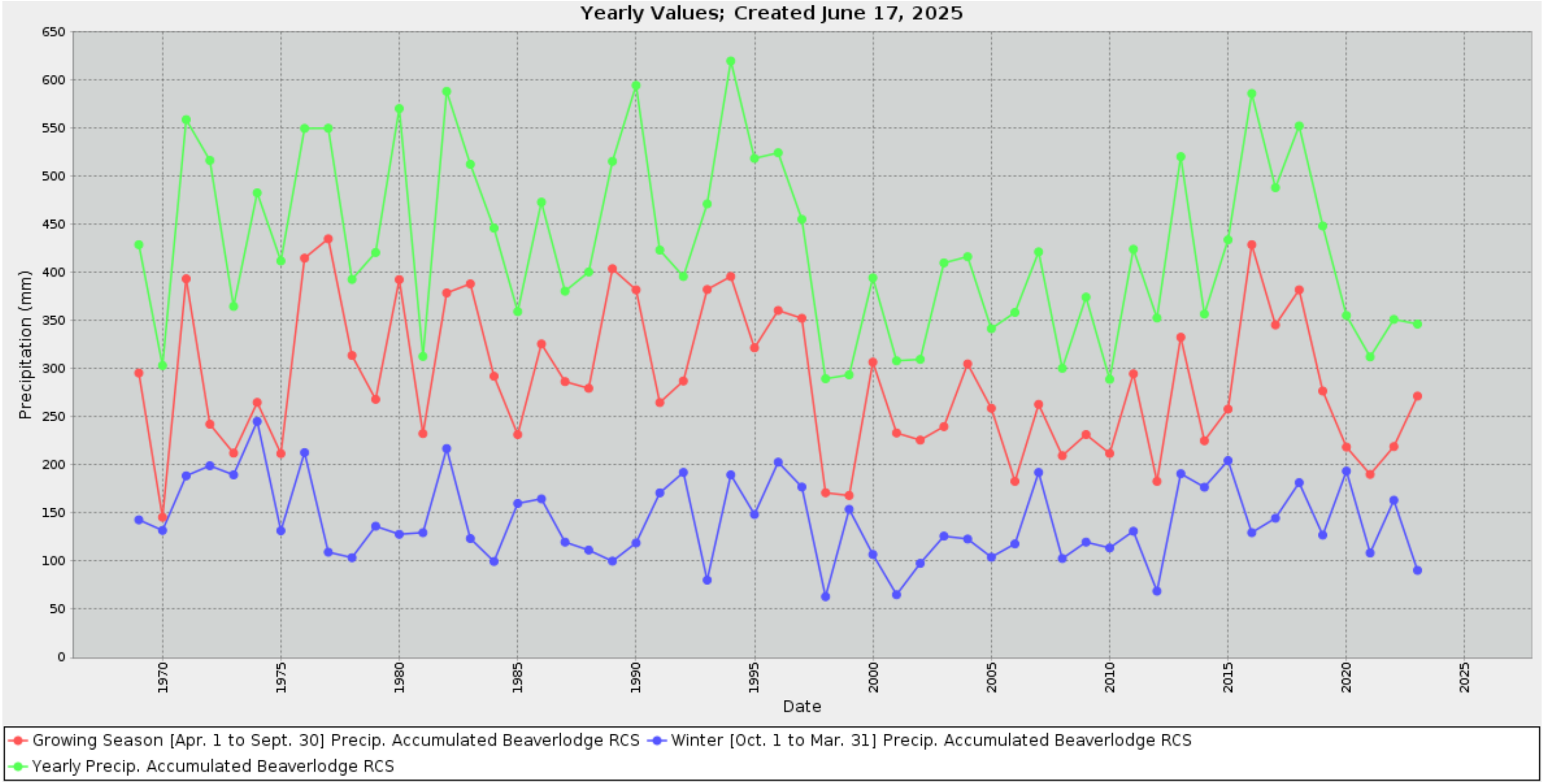
Figure 2. Sch

Figure 4. Results of combined a ssessment scores for right and left streambank reaches in ving proportion of total streambank that scored Good (gre), Fair (yellow; solid), and Poor (red; dotted).

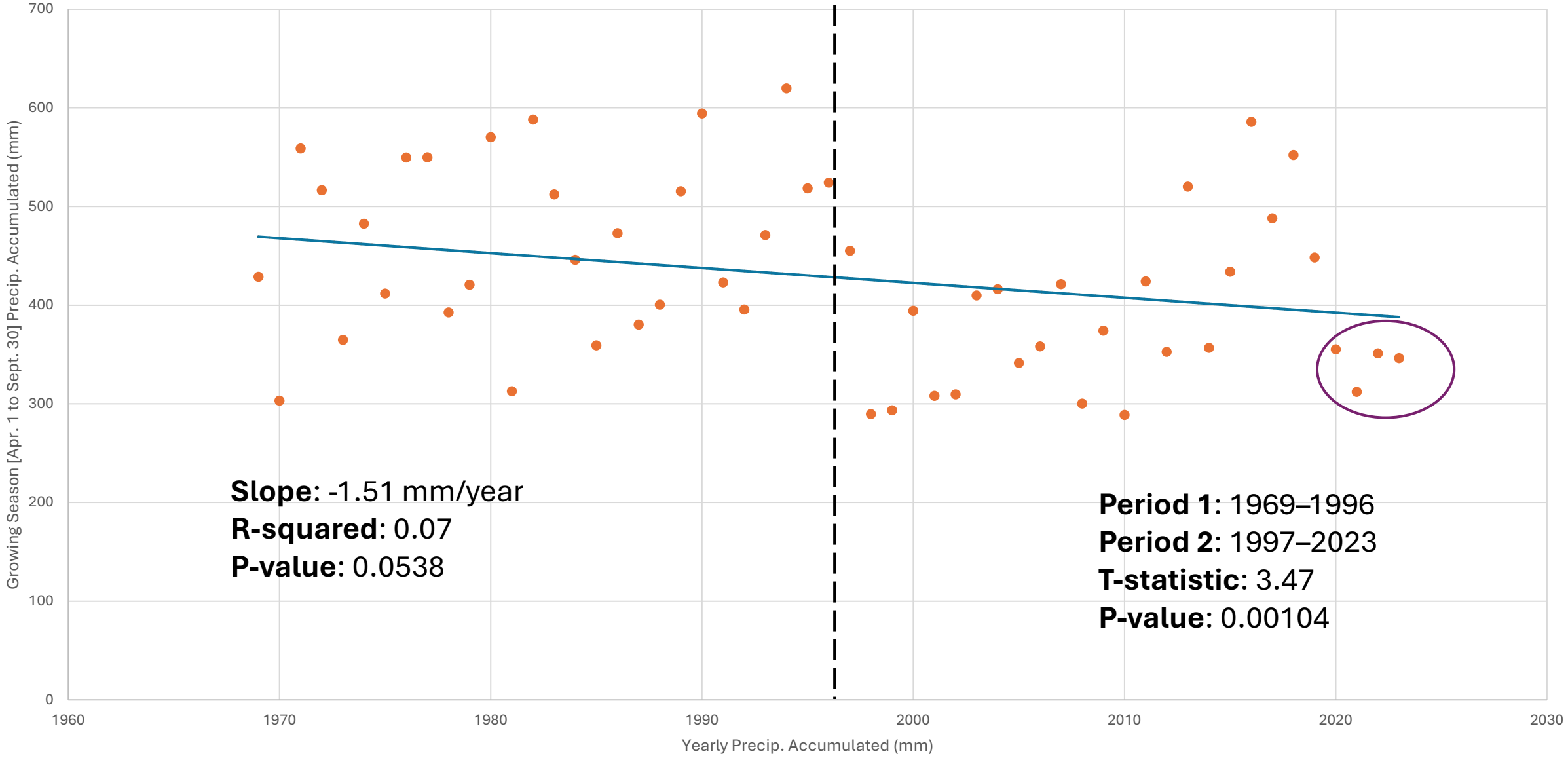
West County Watershed Society

Hydrological Model of the Redwilllow Watershed




Yearly Values; Created June 17, 2025
Precipitation (mm)
650
600
550
500
450
400
350
300
250
200
150
100
50
0
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Date
Growing Season [Apr. 1 to Sept. 30] Precip. Accumulated Beaverlodge RCS
Winter [Oct. 1 to Mar. 31] Precip. Accumulated Beaverlodge RCS
Yearly Precip. Accumulated Beaverlodge RCS

Field: Yearly Precip. Accumulated (mm) and Field: Growing Season [Apr. 1 to Sept. 30] Precip. Accumulated (mm) appear highly correlated.



Boreal Wetland Centre

Ducks Unlimited Canada

The Wetland Centre is proudly managed and coordinated by Ducks Unlimited Canada's National Boreal Program.

Grimshaw Gravels Aquifer

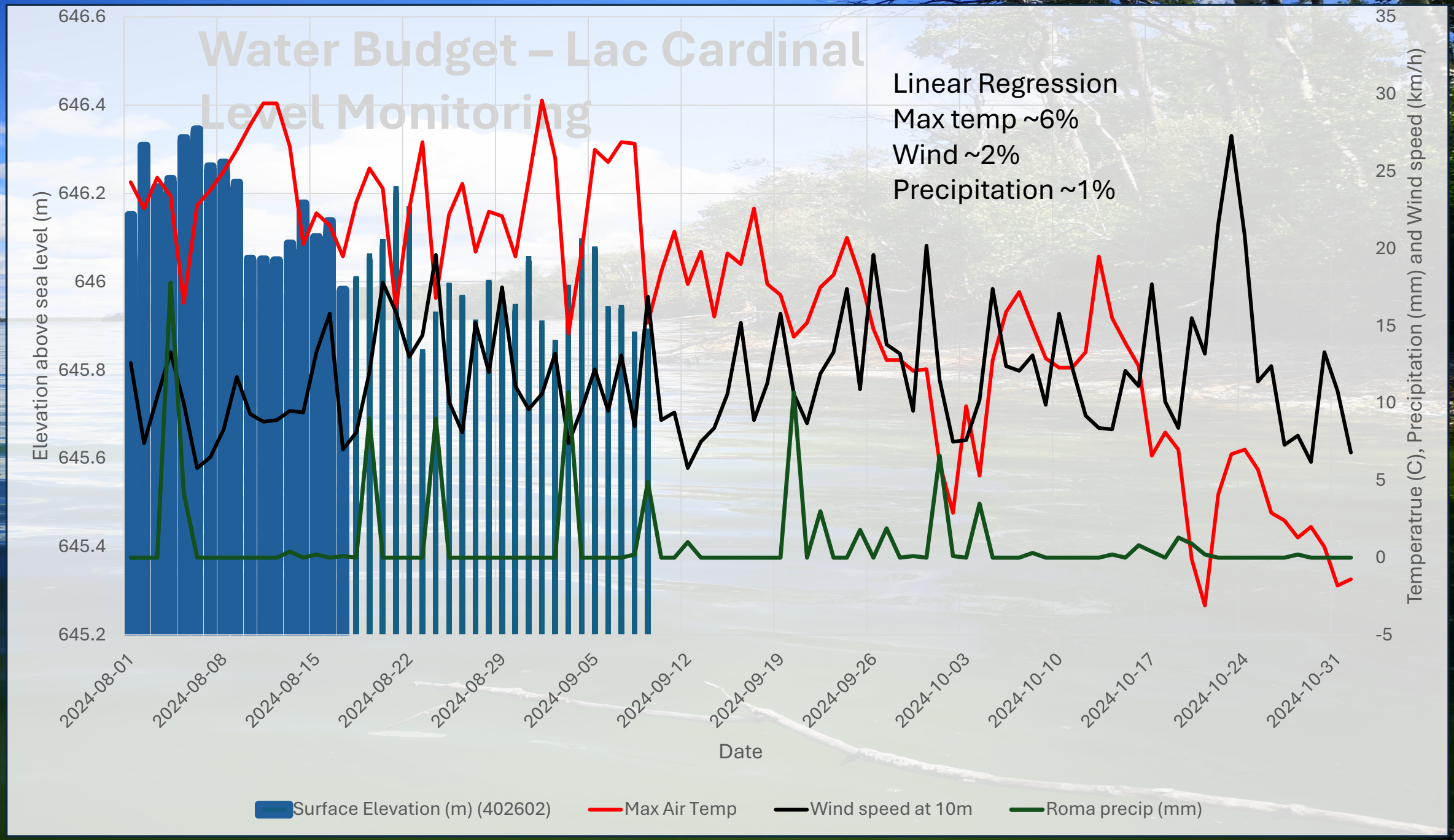
CLEAR HILLS COUNTY

MUNICIPAL DISTRICT OF FAIRVIEW No 136 INC. 1914

TO N·W·T·
YELLOWKNIFE 632
HAY RIVER 381
HIGH LEVEL 180
MANNING 52
GRIMSHAW
MILE ZERO MACKENZIE HIGHWAY

COUNTY OF NORTHERN LIGHTS

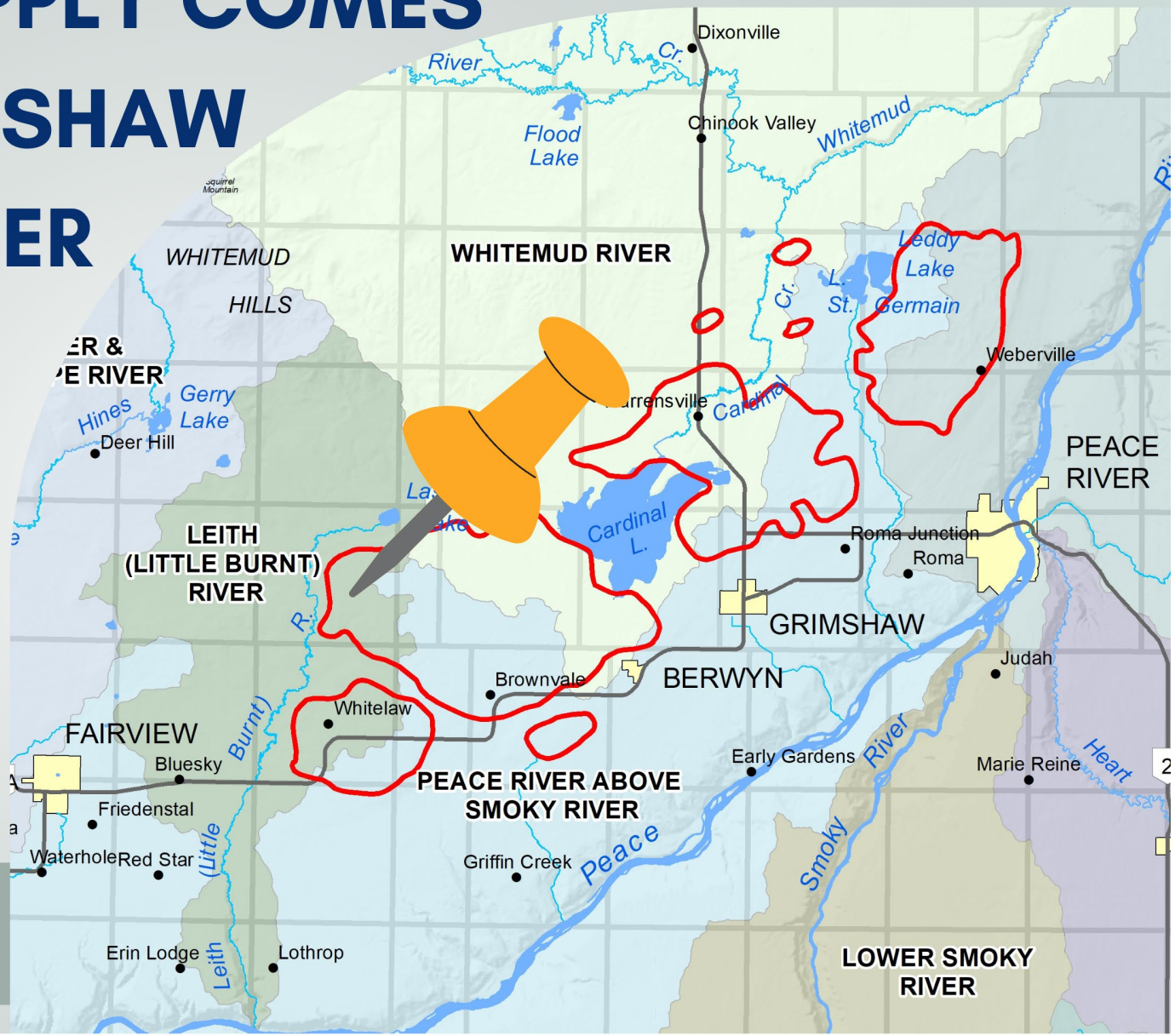
MUNICIPAL DISTRICT of Peace No. 135


Water Budget – Lac Cardinal
Level Monitoring
Linear Regression
Max temp ~6%
Wind ~2%
Precipitation ~1%
Elevation above sea level (m)
646.6
646.4
646.2
646
645.8
645.6
645.4
645.2
Temperatrue (C), Precipitation (mm) and Wind speed (km/h)
35
30
25
20
15
10
5
0
-5
2024-08-01
2024-08-08
2024-08-15
2024-08-22
2024-08-29
2024-09-05
2024-09-12
2024-09-19
2024-09-26
2024-10-03
2024-10-10
2024-10-17
2024-10-24
2024-10-31
Date
Surface Elevation (m) (402602)
Max Air Temp
Wind speed at 10m
Roma precip (mm)

THIS WATER SUPPLY COMES FROM THE GRIMSHAW GRAVELS AQUIFER

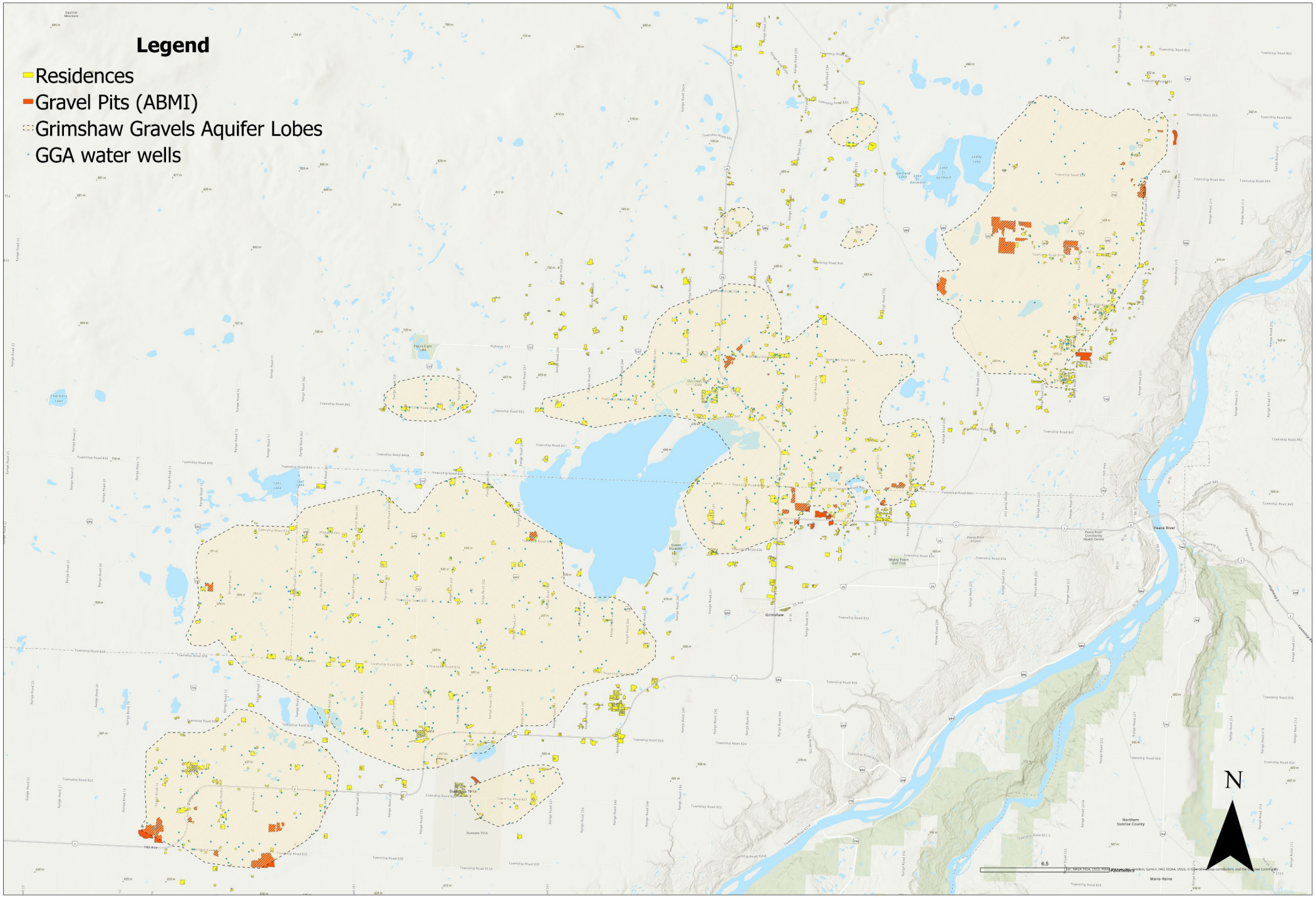
For more information, please contact your local municipality at www.mdpeace.com

MUNICIPAL DISTRICT of Peace No. 135



Marked area shows aquifer extent

Please Help Protect Our Source Water


Legend
Residences
Gravel Pits (ABMI)
Grimshaw Gravels Aquifer Lobes
GGA water wells
N
Grimshaw
Peace River
Duncans 151A
Northern Sunrise County
Marie-Reine
6.5
Kilometers

1. What kind of well is on the property

Drilled well	**Dug/Bored well**
diameter of 10-20 cm	**Diameter of 60-120 cm**
>15 m depth	**Depth of 3-15 m**

2. Is the area clear of:

Animal waste (livestock and household pets)	Yes	No
Chemical storage containers	Yes	No
Vehicles or equipment that may leak chemicals or fuel (e.g. lawn mowers and snow blowers)	Yes	No
All pens, cages, or stalls where livestock and pets are kept	Yes	No

3. Location:

Is there a minimum of 3 meters of grass	**Yes**	**No**

Lower Peace Freshwater Contamination Reduction

Mackenzie County

MARA

Cows and Fish

This project was undertaken with the financial support of:
Ce projet a été réalisé avec l'appui financier de :

Environment and Climate Change Canada
Environnement et Changement climatique Canada

Mackenzie County

Mighty Peace Watershed Alliance
Diverse, Responsible, Connected

MARA

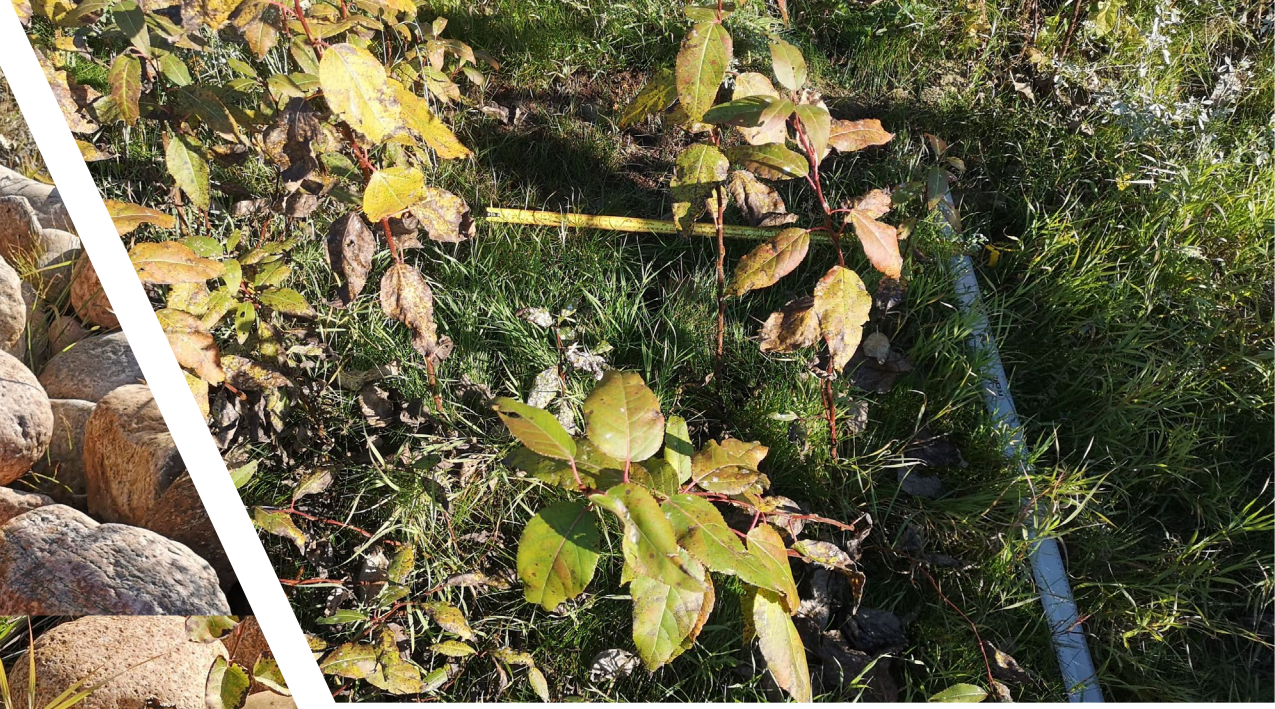
Dugout Water Quality and Equipment Crossing Tour

Tour producers' fields in La Crete area and learn about dugout water quality, farm crossings and erosion control projects

May 29th at 9am

Meet at La Crete Riding Arena Parking Lot for the bus ride

Call 780 927 3776 to register




SCHOOL BUS
70
70

Reducing Invasive Species in the Peace-Athabasca Delta

Little Red River Cree Nation

ALBERTA invasive species COUNCIL

This project was undertaken with the financial support of:
Ce projet a été réalisé avec l'appui financier de :

Environment and Climate Change Canada
Environnement et Changement climatique Canada


Caribou River
Boyer River
Gull Creek
Peace River
HIGHWAY 88
Bear River
N

AWES
Agroforestry & Woodlot Extension Society

Alberta Conservation Association
Conserving Alberta's Wild Side

County of Grande Prairie No. 1

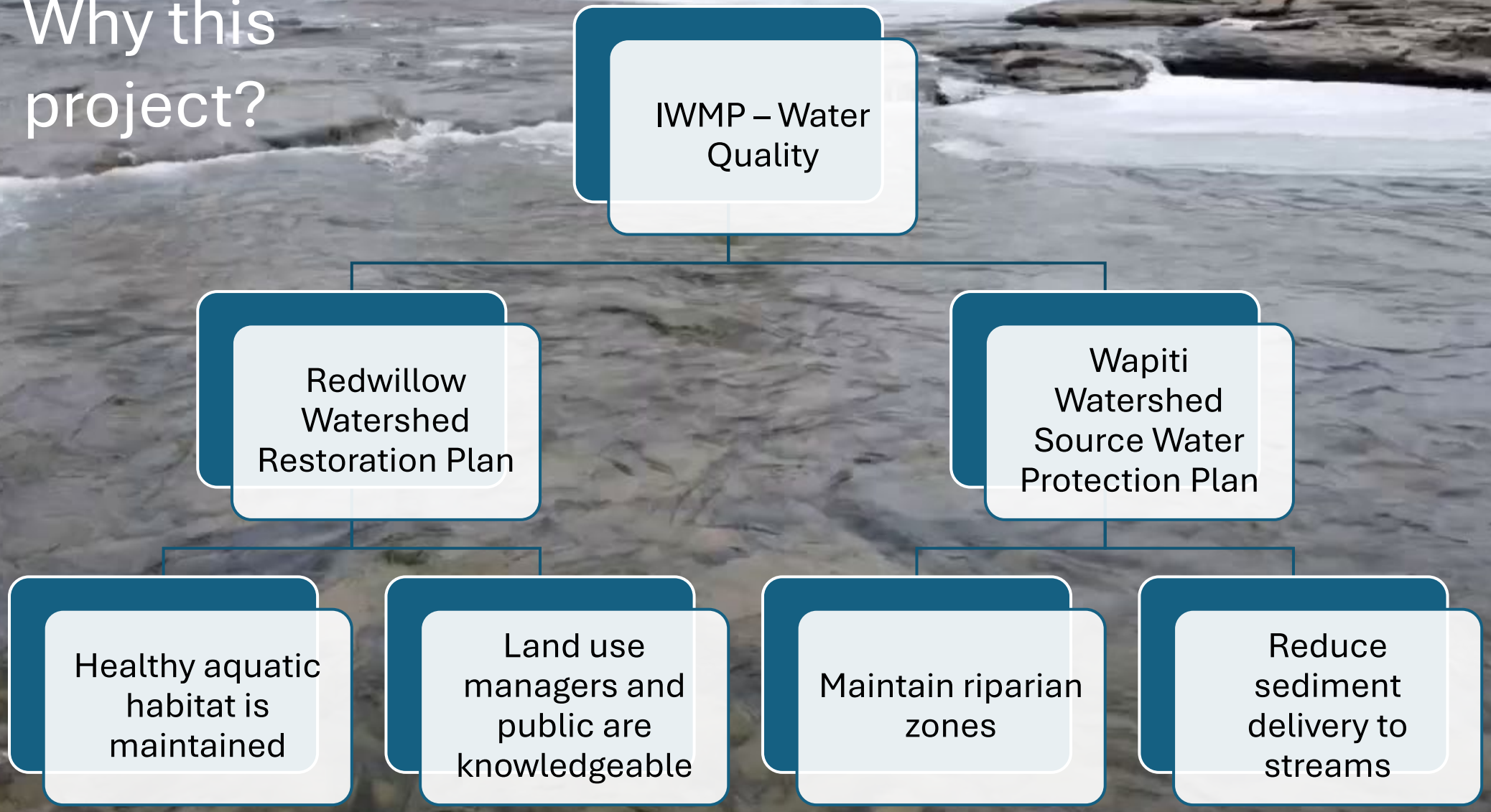
Cows and Fish

This project was undertaken with the financial support of:
Ce projet a été réalisé avec l'appui financier de :

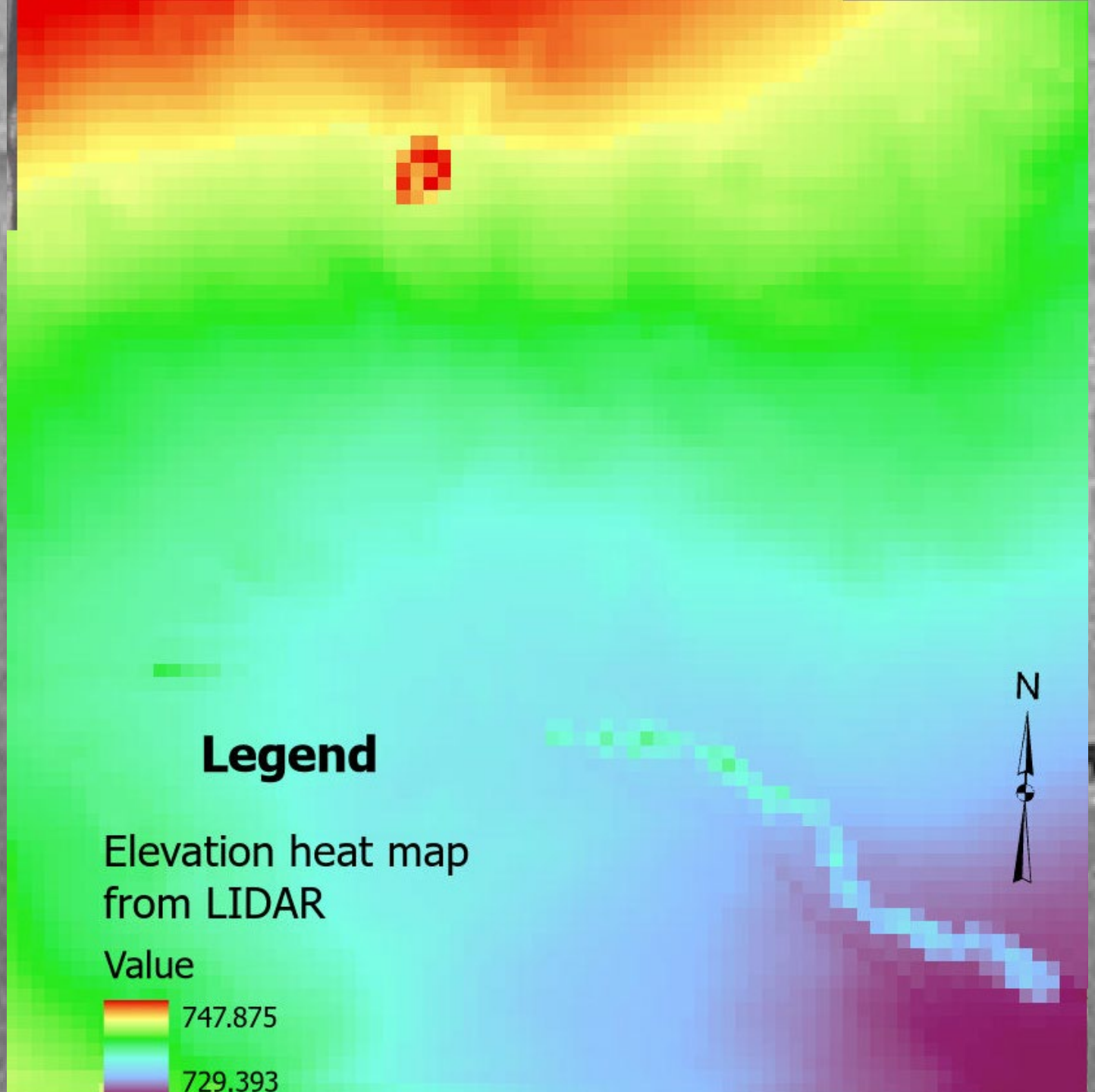
Environment and Climate Change Canada
Environnement et Changement climatique Canada

Resiliency in the Wapiti Watershed

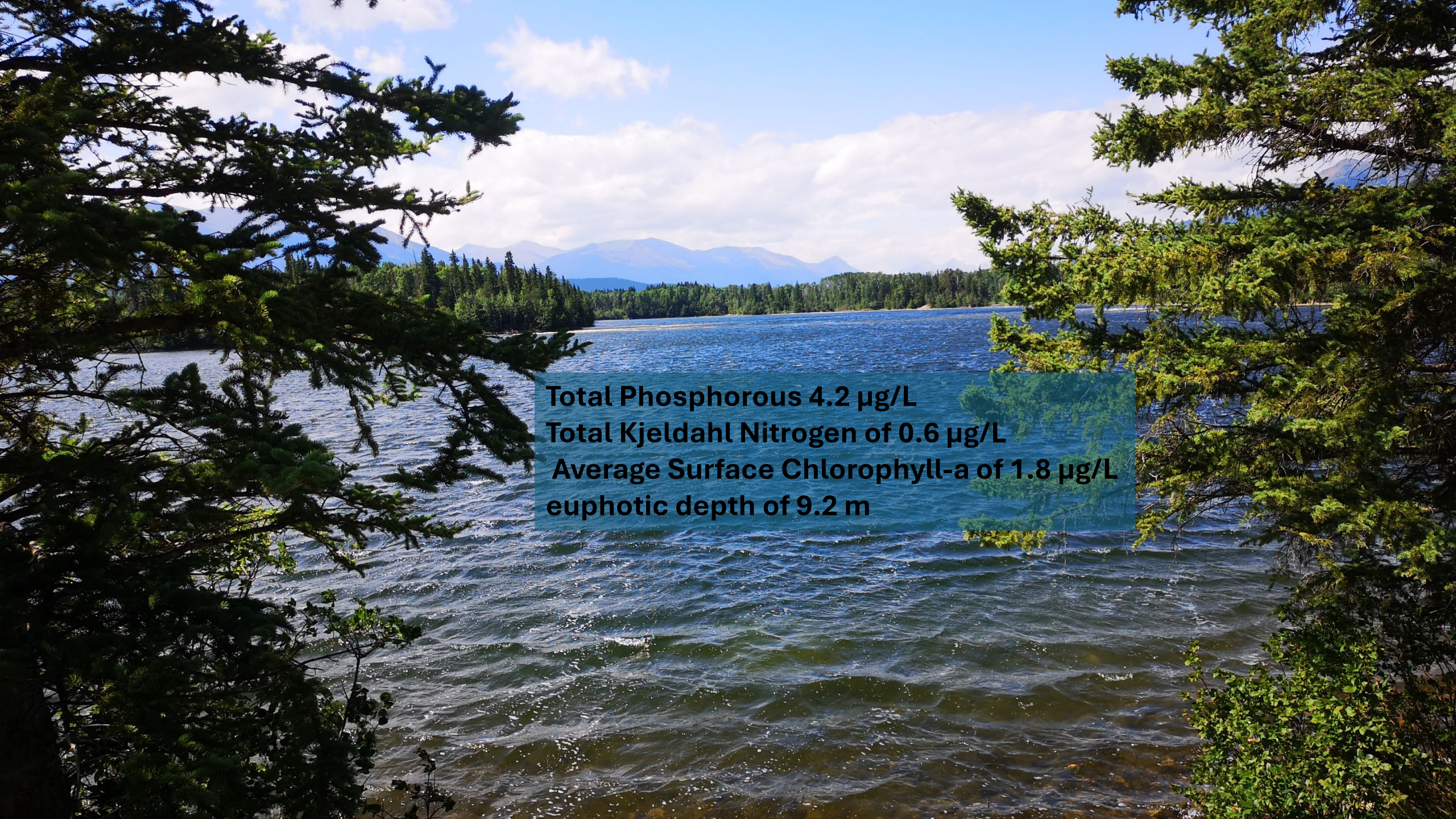
Why this project?




Coarse Woody Debris
Flow moderation
Nutrient cycle
Fish habitat
Bank stabilization


Legend
Elevation heat map
from LIDAR
Value
747.875
729.393
N

Victor Lake Assessment


Total Phosphorous 4.2 µg/L
Total Kjeldahl Nitrogen of 0.6 µg/L
Average Surface Chlorophyll-a of 1.8 µg/L
euphotic depth of 9.2 m


Thank you!