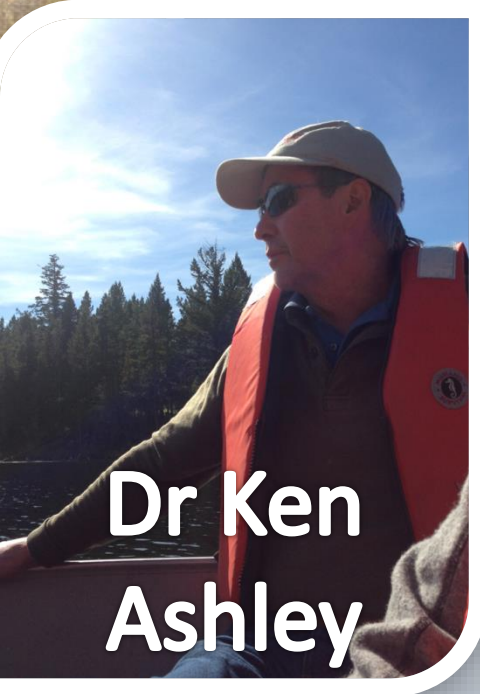


A scenic landscape photograph of Mackay Creek. The foreground shows the calm water of the creek, which reflects the surrounding environment. The middle ground features a shoreline with trees in various stages of autumn, some with bright yellow and orange leaves, and others still green. In the background, a range of large, forested mountains stretches across the horizon under a clear blue sky with a few wispy clouds. The overall atmosphere is peaceful and natural.

RESTORING MACKAY CREEK

Julia Alards-Tomalin

How it all Began





**Investigating Historic Conditions
and Mapping the Site:**

LOWER MACKAY CREEK



Mackay Creek Estuary

1949



1969



Mackay Creek Estuary

12/11/2000



FUTURE BODWELL SITE

2000

Image © 2012 GeoEye

© 2012 Google

Google earth

9/9/2009



2012

Image © 2012 GeoEye

Google earth

© 2012 Google

Imagery Date: 9/9/2009

2000

49°18'55.09" N 123°05'58.52" W elev 36 ft

Eye alt 2126 ft

Identifying the Issues in the Estuary



Weir Blocked Fish Passage



Not Enough Large Logs



Too Many Invasive Plants



Beaver Damage & Bank Erosion

Restoring the Estuary



Removing Invasive Plants



Planting Native Plants



Preventing Beaver Damage



Preventing Goose Damage



Restoration Treatments:

**WEIR REMOVAL, RE-GRADING THE
BANKS AND INSTALLING WOOD**







puver



2015

Thomas Haas

© 2015 HERE © 2015 Microsoft Corporation

A scenic landscape featuring a calm river in the foreground, reflecting the sky and surrounding environment. The middle ground is filled with trees in various stages of autumn, with some showing vibrant yellow and orange foliage. In the background, a range of dark, forested mountains stretches across the horizon under a clear, light blue sky with a few wispy clouds. The overall atmosphere is peaceful and natural.

Restoration Treatments:
INVASIVE PLANT REMOVAL







A scenic landscape featuring a calm river in the foreground, reflecting the sky and surrounding environment. The middle ground is filled with trees in various stages of autumn, with some showing vibrant yellow and orange foliage. In the background, a range of dark, forested mountains stretches across the horizon under a clear, light blue sky with a few wispy clouds. The overall atmosphere is peaceful and natural.

**Restoration Treatments:
SOIL AND NATIVE PLANT
INSTALLATION**

Soil & Planting























A scenic landscape featuring a large body of water in the foreground, reflecting the sky and surrounding environment. The middle ground is filled with trees in various shades of green and yellow, suggesting an autumn setting. In the background, a range of dark, forested mountains stretches across the horizon under a clear, light blue sky with a few wispy clouds. The overall atmosphere is calm and natural.

**Restoration Treatments:
INTERTIDAL PLANTING &
FENCING**















Sharing the Restoration Process: How you can help

- **Upcoming Volunteer Events**
- Tentatively running once to twice month from March to October
- Contact us if you are interested:
 - info@echoecological.com
 - www.echoecological.com
 - Check us out on facebook



Project Partners

