

# Ecosystem Services, Science, and Municipal Risk Management

Alberta Land Institute Land Use Conference  
May 4, 2016

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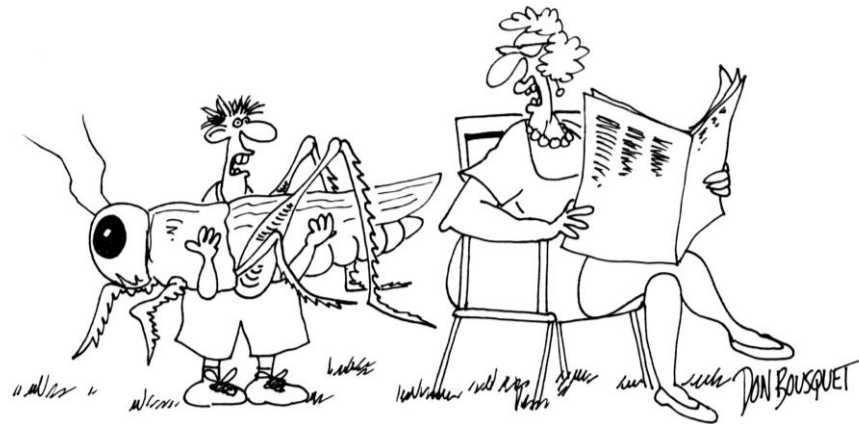


# Major Questions:

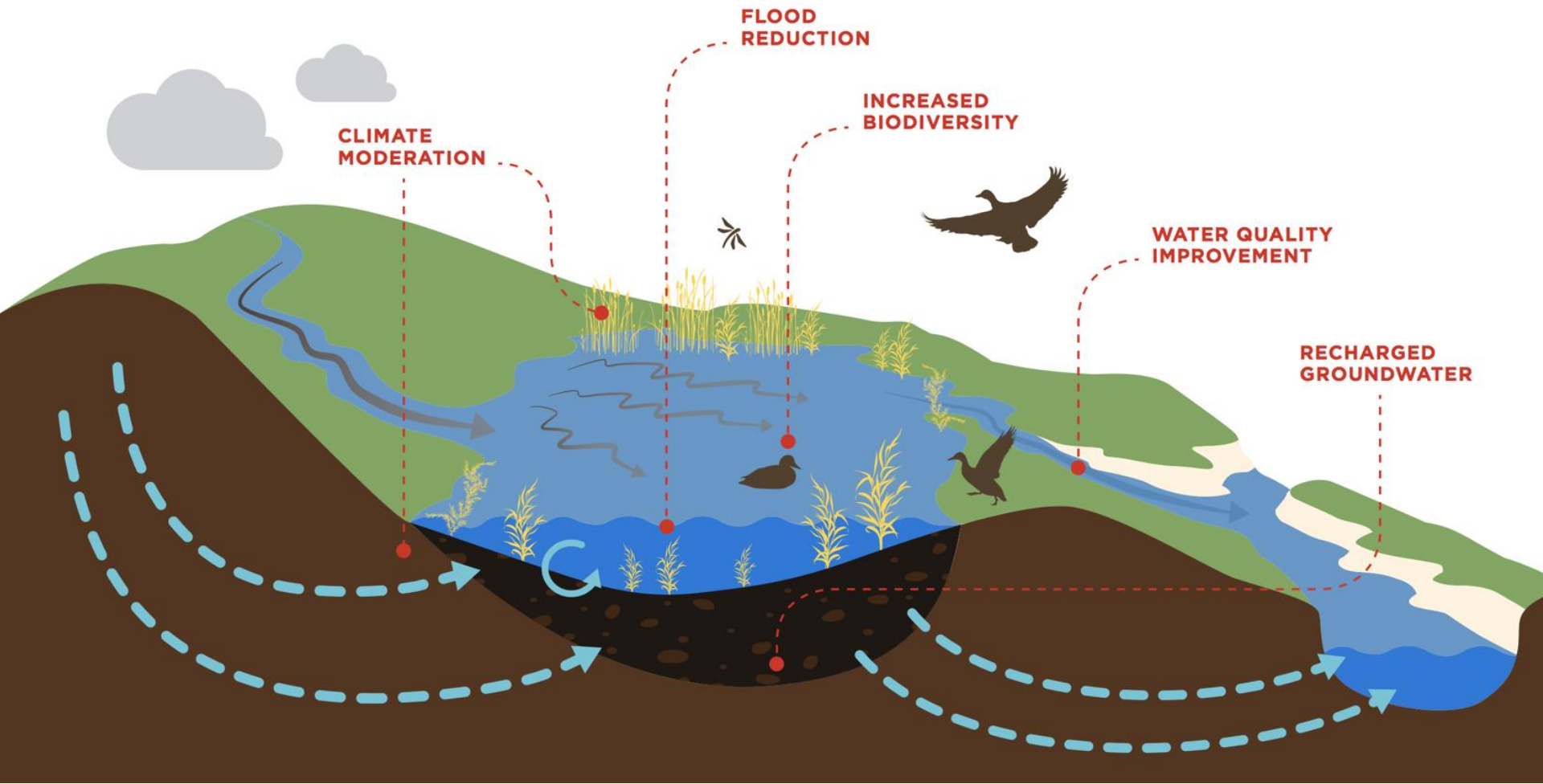
1. How can the presence of wetlands provide significant benefits for municipalities?
2. How is research contributing to our understanding of these issues?

GOLLY, MA, LOOK  
WHAT CRAWLED OUT  
OF THE STORM DRAIN!

AW, YOUR FATHER'S  
BEEN OVERSPREADING  
FERTILIZER  
AGAIN!



# Wetland Benefits:









## 'I can't stand it': Pigeon Lake residents concerned about stench coming from water



By Caley Ramsay

Web Producer Global News

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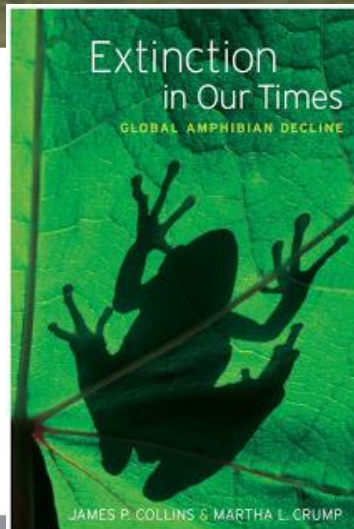
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BOW RIVER PHOSPHORUS MANAGEMENT PLAN

Taking Action to Manage Phosphorus Together

## Bow River Phosphorus Management Plan

### Flood Readiness Information Session



**Understand. Prepare. Stay Informed.**

# Wetlands Research



ALBERTA'S  
LIVING LABORATORY  
PROJECT

*Restoring our wetlands together*

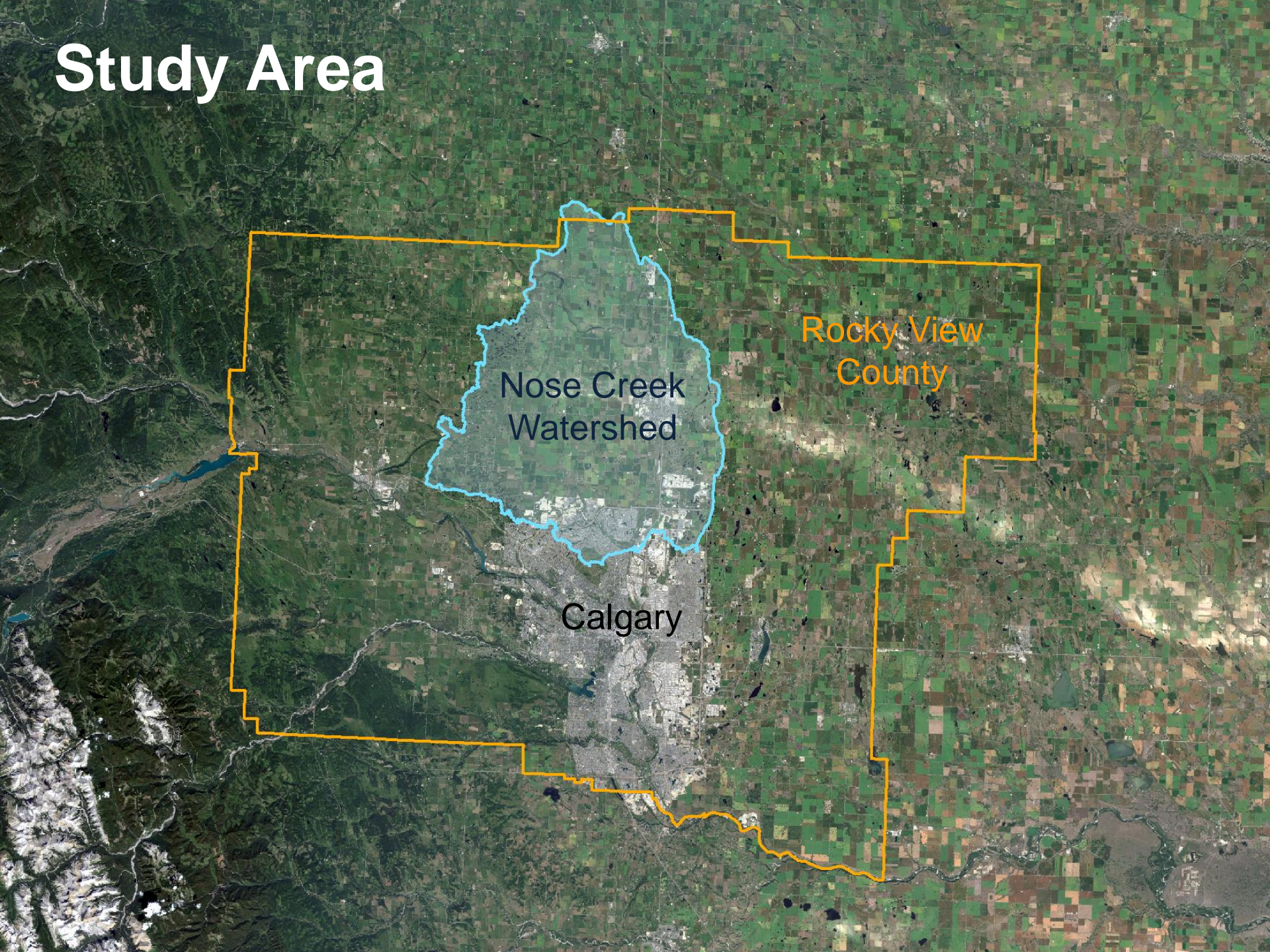
## Your Participation Pays

Rocky View County landowners have a unique opportunity to restore former wetlands—and get paid for it.

[www.restoreourwetlands.ca](http://www.restoreourwetlands.ca)



# Study Area



Nose Creek  
Watershed

Rocky View  
County

Calgary



# Research Questions

1. What is the predicted ecosystem function of drained wetlands?
2. How do you target drained wetlands for restoration?
3. Can market-based instruments create incentives for wetland restoration on private lands?
  - What are the barriers to land owner participation?
  - What are the regulatory barriers to wetland restoration?
4. What is the rate and yield of ecosystem function that is returned after a wetland is restored?

