

Proposed
McKnight
Project:

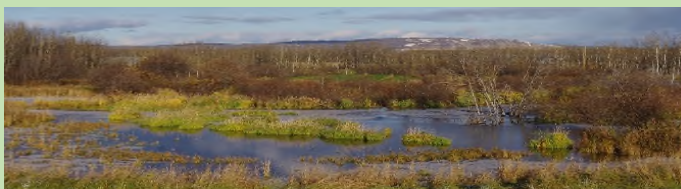
Background

Application to PRRD by Ducks Unlimited Canada (DUC) on behalf of McKnight family for **Non-Farm Use – Placement of Fill**

Site C Clean Energy Project approval included the requirement to **replace wetlands impacted by Site C**.

DUC is assisting BC Hydro (BCH) with wetland replacement.

One opportunity involves partnering with Wes and Kathy McKnight to restore historic wetlands on their property west of FSJ.



Project would involve constructing three small dams which require the placement of armouring materials (**rock and gravel**).

That triggered the requirement for this application under 20.3(5) of the ALR Act (importation of clean "fill" onto land in the ALR).



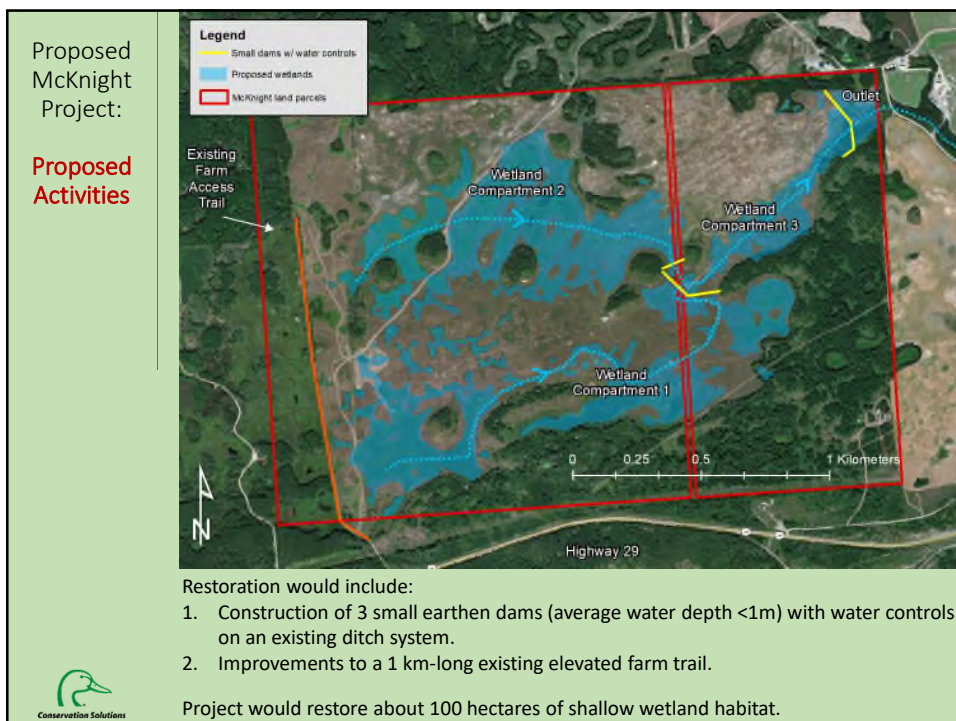
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Location



The McKnight Property is located in Upper Cache area, 30km west of Fort St. John.

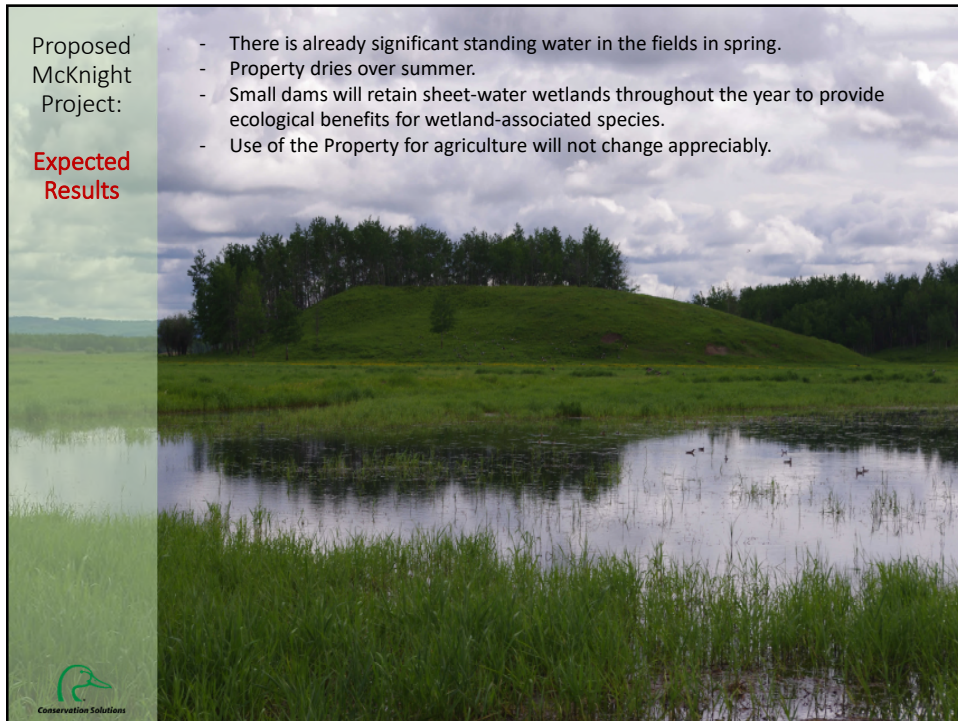




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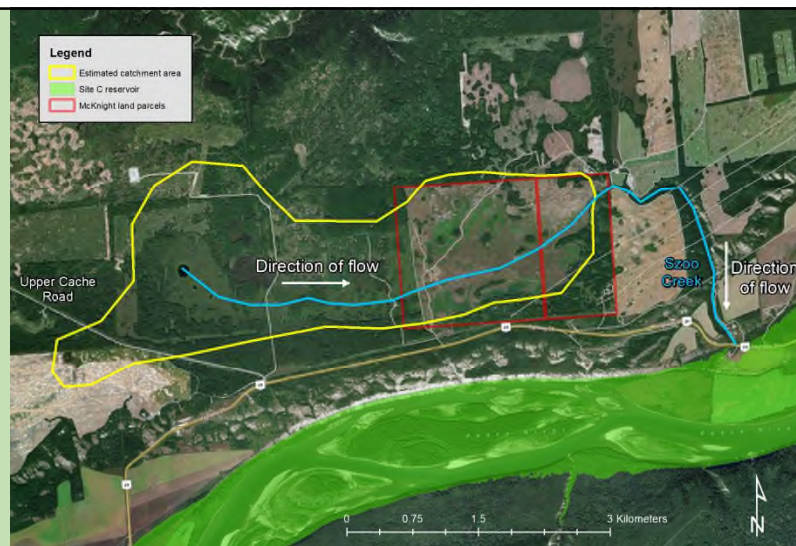
Expected Results

- There is already significant standing water in the fields in spring.
- Property dries over summer.
- Small dams will retain sheet-water wetlands throughout the year to provide ecological benefits for wetland-associated species.
- Use of the Property for agriculture will not change appreciably.



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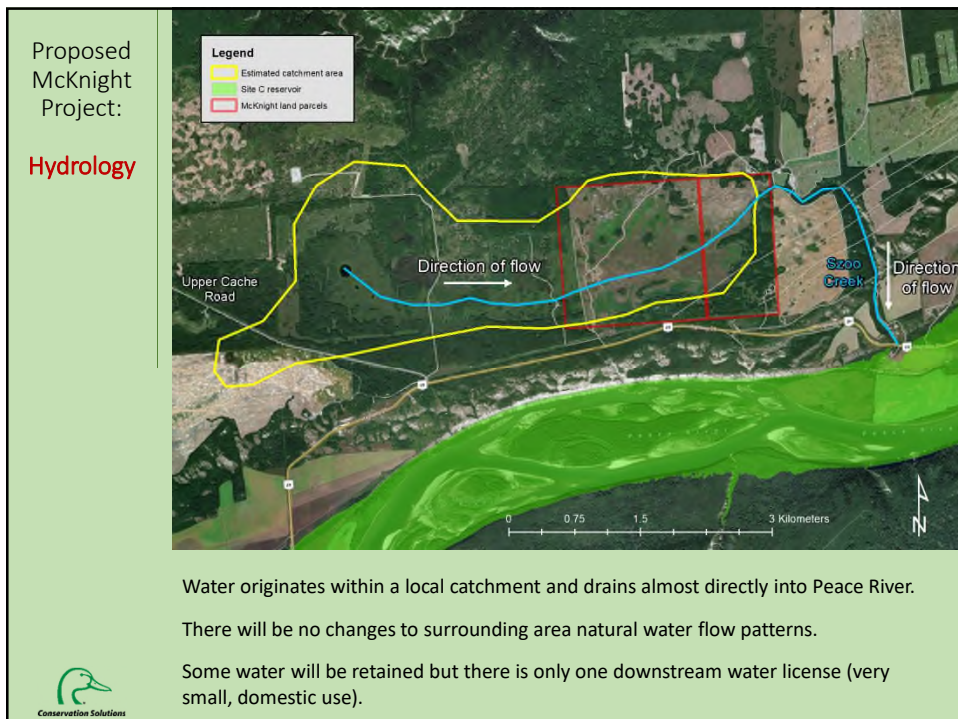
Hydrology



Water originates within a local catchment and drains almost directly into Peace River.

There will be no changes to surrounding area natural water flow patterns.

Some water will be retained but there is only one downstream water license (very small, domestic use).



Proposed McKnight Project:


Neighbouring Landowners

For approval to construct this new wetland (via a provincial water license), DUC will have to demonstrate to the Province that the wetland will not negatively affect the surrounding lands.

Neighbour concerns which have been expressed to DUC or BCH include back-flooding onto adjacent property. DUC has committed to consulting with neighbours during the design phase.

Project would only proceed through water licensing if:

1. Proposed water levels would not flood water beyond the McKnights' property line, and
2. Proposed retention would not cause flooding onto neighbouring lands beyond what would normally be experienced without this project.

 Conservation Solutions

Proposed McKnight Project:

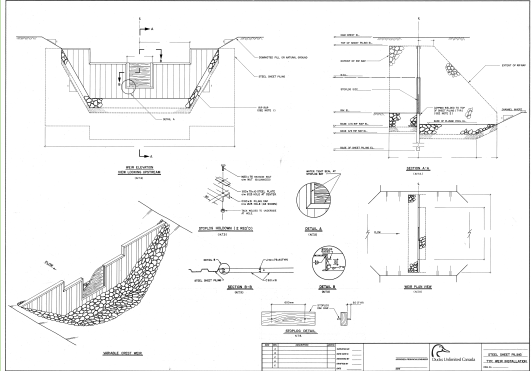
Dam Maintenance & Responsibility

One or more water licenses will be acquired as part of this project, with DUC as the agent.


Water licenses are regulated by the BC Water Management Branch under its Dam Safety Regulation.

Designs have not been completed yet, but DUC would control and maintain the water controls in accordance with the regulation.

Regulation also provides measures to protect the safety of downslope residents.



Sample engineering diagram for a typical water control structure (would be incorporated into a small dam)

 Conservation Solutions