

From: Shaun Moffatt

Sent: April-20-21 12:01 PM

To: Dagdick, Elise (CC)

Subject: RE: Information Request - Evergreen Bog Peat Harvesting Environment Act Proposal - File 628.10

Elise

I am providing this email in response to the request for a GHG Analysis. In addition to the information I provide below please see the attached email between Tim and Lee Fedorchuk discussing this analysis and verifying continued use of the Cleary method.

As previously noted KGS Group used the Cleary method which estimated the GHG contributions from each component of the life cycle of peat harvesting. While our EAP proposed that GHG emissions from decomposition are associated with the end use and should not be attributed to the producer we provide the following estimates including all components of the life cycle.

After 17 years of operation and 5 years post restoration of Sun Gro's Evergreen 1 sub-area the GHG emissions will be as follows;

- Land use change (15%); 14,686 t - CO₂ eq.
- Peat harvesting and processing (4%); 3,916 t - CO₂ eq.
- Transportation to market (10%); 9,791 t - CO₂ eq.
- Decomposition (71%); 69,515 t - CO₂ eq.

This equates to a total GHG emission of 97,908 t - CO₂ eq. over the project lifetime and equivalent to 5,759 t - CO₂ eq/yr for the 17 years of operation.

As presented in the EAP, the 2018 CO₂ emissions in Canada was a total value of 7.29 x 10⁸ t - CO₂ eq (729 Mt). Therefore, an average year of operation at the Evergreen 1 sub-area will account for approximately 0.0008% of the total annual emissions for the country.

Shaun Moffatt M.Sc.

SENIOR ENVIRONMENTAL SCIENTIST