

DEVELOPMENT OF REMOTE SENSING TECHNIQUES FOR REGIONAL RECLAMATION MONITORING OF PEATLANDS IN ALBERTA

Mark Kapfer, LooKnorth

16-ERPC-09

The scope of the proposed project is to assess remote sensing technologies for up-scaling localized field assessments as well as identification of local anomalies. For this purpose, airborne hyperspectral imaging (HSI) will be acquired and assessed to determine vegetation types as well as vegetation health and stress in reclaimed wetlands. This technology has proven value for mapping vegetation species, vegetation health and stress, water quality and invasive species in a number of studies related to forested and cultivated areas and promises to be of value for wetland reclamation monitoring.

Policy Issue

Reclamation

Knowledge Gap

Effectiveness of natural vs managed re-vegetation of seismic lines of various widths, types and habitats (i.e., when can a line come off the map?)

2016 Report

2017 Report

2018 Report