246 PX NP DM30.3
Projet d'établissement d'un lieu d'enfouissement technique à Danford Lake
Alleyn-et-Cawood 6212-03-112

Brief Concerning Bio-Physical Aspects of Proposed Landfill Site in Alleyn and Cawood

By

Raye Thomas, Ph.D., P. Eng

Contents of Brief

- Location of proposed site
- Visibility from Picanoc and Mount O'Brien
- Type of soil and views of site
- Closeness of wetlands
- Liner problems as consequence of temperature allowance and soil differences
- Aquifier quality not proven by proponent
- Rock base not studied
- There are alternatives
- Project is not justified

Location of Proposed Site



View of landfill location from Picanoc at Grove Creek



Landfill site showing sandy soil



Cleared trail on landfill site



View of wetlands from landfill site



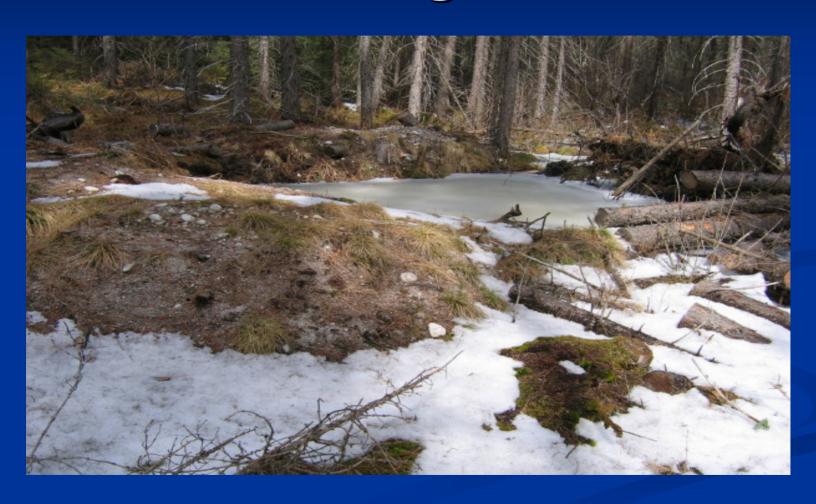
Well on site showing water level

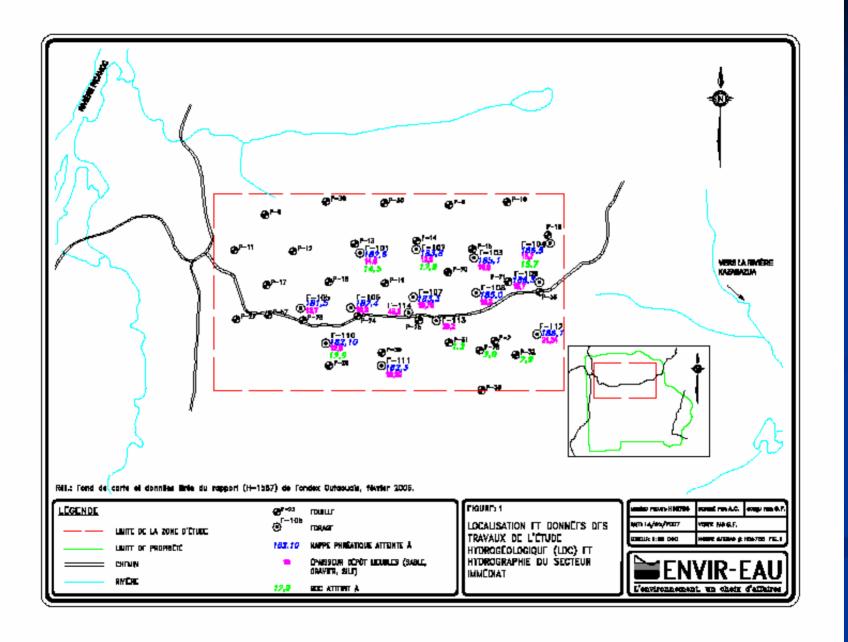


A testing point on landfill site



Shallow excavation in south-east sector showing water level





Conclusions

- Site is not suitable so should not be approved
 - Visibility from Picanoc River and Mount O'Brien
 - Soil not suitable leachate movement more rapid than stated by proponent
 - Soil profile differs across site will cause liner problems
 - Rock not studied –may have rapid water movement along fissures
 - Aquifer may be a good one possible underground link to Picanoc River or Grove Creek
- There are alternatives
 - Short-term (Lachute) and intermediate term (Plasma Gasification)
- A new landfill is not necessary so project should be turned down