

## Phyllis Corbiere

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**From:** Leo Demoissac  
**Sent:** February-04-15 9:51 AM  
**To:** Phyllis Corbiere  
**Subject:** FW: Moosehills Road Failure

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**From:** Rohr, Gabe [mailto:gabe.rohr@amecfw.com]  
**Sent:** February-03-15 12:05 PM  
**To:** Leo Demoissac  
**Cc:** Claire Mahdiuk  
**Subject:** FW: Moosehills Road Failure

Hi Leo,

Attached is the estimate for the additional Instrumentation readings and a test pit investigation along the lower part of the road embankment.

Please review and advise if we can get together with the Geotechnical Group.

Regards  
Gabe

**Gabe Rohr**  
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**From:** Treen, Curtis  
**Sent:** January-26-15 10:14 AM  
**To:** Rohr, Gabe  
**Cc:** Miranda, Erwin  
**Subject:** RE: Moosehills Road Failure

Heres an email pulled out from July 2012. Dont believe we ever heard back.

**Curtis R. Treen, M.Eng.,P.Eng.**  
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**From:** Treen, Curtis  
**Sent:** July-02-12 11:21 AM  
**To:** Rohr, Gabe  
**Subject:** Moosehills Road Failure

Gabe, further to our meeting between you, Jay, and I, a cost estimate has been prepared for additional work on the subject project.

We were requested to provide a cost estimate for additional instrumentation reading(s), and a test pit investigation along the lower part of the road embankment to confirm soil conditions and possible movement zones.

The estimated cost to complete a site trip and read instruments is \$3000, excluding GST. Based on two separate trips and measurements, \$6000 is recommended for budgeting purposes.

A field investigation program, consisting of advancing about 7-8 test pits along the lower portion of the embankment, over a distance of 250 to 300 m is recommended. A track-backhoe from Elk Point or surrounding area would be utilized. Our estimated cost for the test pit program, associated laboratory work (index testing), and summary reporting is \$14,000, excluding GST. A break-down of the cost for the test pit program is provided below.

Subcontractor .....	\$3,500
Safety Execution, Ground disturbance, and locates .....	\$1,500
AMEC Field Supervision.....	\$3,000
Laboratory Testing.....	\$1,700
Logs, Summarize data, internal meeting .....	\$4,300
TOTAL .....	\$14,000

In summary, the estimated cost to complete two additional readings of the instrumentation, and complete the test pitting program is **\$20,000, excluding GST**. If one of the instrumentation readings was completed at the same time of the test pit program, there would be approximately \$1000 reduction related to savings on the travel time and expenses. It should be recognized that the reporting cost allows for a summary of the test pit findings and update to the preliminary report and expected subsurface conditions, but it does not allow for additional detailed slope stability analyses, detailed design and preparation of construction drawings, or preparation of Special Provisions.

If you have any questions, please call me Tuesday or Wednesday. I will be out of the country starting July 5, returning to the office on July 23. Provided there is approval to proceed, I may be able to initiate the field work prior to leaving.

Regards

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