**ALBERTA TRANSPORTATION**

**GEOTECHNICAL RISK MANAGEMENT PLAN (GRMP)**

Bi-annual GRMP review meeting, 2018

Meeting Date: Wednesday, 7th March, 2018

Meeting Time: 9:00 AM – 5:00 PM

Location: 4999 – 98th Avenue NW, Edmonton, AB, T6B 2X3

Twin Atria Building, 2nd Floor, Athabasca Room

**Meeting Agenda**

9:00 Welcome and [Introduction](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/GRMP%20Intro%20March%207.pdf)

9:15 [Presentation - Athabasca District by Thurber](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/2018%20BIANNUAL%20GRMP%20REVIEW%20MEETING-%20TSA-JGP%20March%207%202017.pdf)

* *Kehiwin Lake landslides (NC24)*
* *Erosion Repair (NC04)*

9:40 Presentation - Edson and Stoney Plain Districts by Stantec

* [*Using UAV’s for geohazard monitoring*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Remote%20Data%20Collection%20for%20Unstable%20Slopes.pdf)
* [*Overview of Morinville Slide (NC82), Blue Ridge Culvert Slide (NC76), and HWY. 624 Embankment Failure (NC57)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/2018_bi-annual_presentation_Stantec_Leslie.pdf)

10:05 Presentation - Central Region by Klohn Crippen Berger

* [*Dispersive soils (various sites)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/180306%20Dispersive%20soils_KCB_Chris.pdf)

10:30 Break

10:45 Presentation - Swan Hills District by Thurber

* [*Overview on HWY. 744 Corridors (SH10-14, SH21-24 & SH28) – Ken Froese*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/13355-2017-GRMP-Swan%20Hills.pdf)

11:10 Presentation - Grande Prairie District by Thurber

* [*Overview of the Geotechnical investigation and preliminary findings for Church Camp slide (GP29) – Nicole Wilder*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/17102%20Church%20Camp%20Presentation%20NPW.pdf)
* [*Grouted riprap and use of Greywacke for riprap and other projects in Grande Cache area (GP28) – Don Proudfoot*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/PPT_RIPRAP%20Assessment%202018.pdf)

11:35 Guest Speaker – Dr. Michael Hendry from University of Alberta

* [*Overview of the Rail Ground Hazard Research Project (RGHRP) and Canadian Rail Research Laboratory (CaRRL)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Hendry%20-%20GRMP%20Review%20Meeting.pdf)

12:00 Lunch Break

1:00 Guest Speaker - Dr. Renato Macciotta Pulisci

* [*Use of Geocubes, Ground Based-LiDAR, Ground Based and Drone Photogrammetry, Ground Based and Satellite radar and ShapeAccelArrays (SAA)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Macciotta_monitoring.pdf)

1:25 Presentation - Peace / High Level Districts by Thurber

* + [*Case history on the Hwy 2 East Hill pile wall project near Dunvegan (PH70) – Shawn Russel*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/TEL%20Hwy%202%20East%20Hill%20sgr%20180302.pdf)
  + [*Case history on the erosion repair measures on Hwy 682 near Hines Creek (PH67) – Barry Meays*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Barry%20Thurber%20PPT%20Hwy%20682%20Erosion%20Repairs%202018%20Shortened.pdf)
  + [*Annual monitoring of Hwy 2 East Hill using georeferenced photos on LiDAR and Satellite image background, historic google aerial images, and annual photos from same vantage point (PH2, PH59, PH60 & PH61)– Tyler Clay*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/AT%202018%20GRMP%20Bi-Annual%20Meeting%20Presentation%20(TTC).pdf)

2:05 Presentation - Southern Region by Klohn Crippen Berger

* [*Canmore Spray Lakes Road – Coal Mine Subsidence (S12)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/180226%20TriParty%20S012.pdf) , *see also:* [*video*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Hwy742_02%20(S012)%20Movie.mp4)

2:30 Presentation – Alberta Transportation

* [*Southern Alberta Rock Slope Stabilization (S15, S17 & S18)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Rock%20Fall%20Sites%20-%20Southern%20region.pdf)
* [*HWY. 762 Slope stabilization using Cellular Concrete, Geofoam, Pile Wall and Toe Berm (S8, S10, S22, S31)*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/GRMP%20Hwy%20762%20Site%20March%207.pdf), *see also:* [*video*](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/Slope%20Stabilization%20using%20CEMATRIX%20Cellular%20Concrete.mp4)

2:55 Break

3:10 [Roundtable Discussion on issues and improvements on GRMP](http://www.transportation.alberta.ca/PlanningTools/GMS/Geotechnical%20and%20Erosion%20Control%20Resource%20Materials/round-table%20discussion.pdf)

5:00 End