

## SOUTHERN REGION GRMP SITE INSPECTION FORM



SITE NUMBER AND NAME:	HIGHWAY & KM:	PREVIOUS	INSPECTION DATE:		
S059 Siddons Slide	22:10, 27.5	INSPECTION DATE:	June 8, 2020		
		May 6, 2019			
LEGAL DESCRIPTION:	NAD 83 COORDINATES:				
01-20-017-02 W5M	UTM Northing Easting	PF: 9 CF: 4 TO	TOTAL: 36		
	11 5591352 696456				
AVERAGE ANNUAL DAILY	TRAFFIC:	CONTRACTOR MAINTENANCE AREA (CMA):			
1470 (north), 1850 (south), (I	Ref. No. 71130)	27	, ,		

SUMMARY OF SITE INSTRUMENTATION:	INSPECTED BY:
	Chris Morgan (KCB)
None	Margot Lederman
	Roger Skirrow (AT)
	Alex Frotten (AT)
LAST READING DATE: N/A	, ,

PRIMARY SITE ISSUE: Back slope failure of earth slope, with toe zone blocking the highway drainage ditch. Pavement cracking was noted on the east side of the highway. The failure has undermined a length of fence line approximately 36 m long (along the highway) and is retrogressing onto adjacent private property.

APPROXIMATE DIMENSIONS: Slope failure zone approximately 170 m long. Embankment slope approximately 12 to 14 m high.

DATE OF ANY REMEDIAL ACTION: N/A

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	Х		Cracking observed on the east side of the highway, likely unrelated to the back slope slide.		Х
Slope Movement	Х		There is an active slope failure east of the highway. The failure has retrogressed to undermine the fence line and is impacting adjacent land.	Х	
Erosion		Х	None noted.		Х
Seepage	Х		Ponded water observed mid slope.	Х	
Culvert Distress		Χ			Х

## **COMMENTS**

No obvious or significant changes to the back slope failure when compared to 2019 observations.

The failure has undermined the fence near the back scarp over a length of approximately 36 m. Back scarp is up to 1.3 m high. The failure extends approximately 6.7 m onto private land and the landowner has installed new fence around the failure zone since 2019.

Ground was saturated due to recent rainfall. Two areas of ponded water were visible midslope, consistent with 2019 locations.

Toe rolls appear to be more extensive than 2019. Three areas of toe rolls were noted, one of 21 m long and one of 19 m long (two adjacent toe rolls have coalesced together) with a gap of 19 m measured between them. The ditch was flowing at the time of the site visit and runoff was flowing around the toe rolls uninhibited.



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## Candidate repair options include:

- Backslope reprofiling to flatten the overall slope to approximately 10H:1V;
- Slope reconstruction in panels, replacing failed material with geogrid reinforced free draining gravel and with perforated pipe drains; and
- Installation of a culvert along the toe of the slope (beneath the toe roll) to reinstate highway drainage.



Time: 17:40:43 PM
Date: June 29, 2020

Photo 1 Slide zone and back scarp looking towards left flank. Photo taken facing south on June 8, 2020.



Photo 2 Approximately 36 m length of undermined fence line at crest of slope. Photo taken facing northeast on June 8, 2020.



Photo 3 Ponded water midway up the slide zone. Photo taken facing west on June 8, 2020.



Photo 4 Toe rolls partially blocking the ditch. Photo taken from east side of highway facing southeast on June 8, 2020.

