

SITE NUMBER AND NAME: C066 Ghostpine Creek Slide		HIGHWAY & KM: 27:10, 12.434	PREVIOUS INSPECTION DATE: June 13, 2018	INSPECTION DATE: May 30, 2022
LEGAL DESCRIPTION: 02-16-031-22 W4M	NAD 83 COORDINATES: UTM Northing Easting 12 5724022 357407		RISK ASSESSMENT: PF: 2 CF: 2 TOTAL: 4	
AVERAGE ANNUAL DAILY TRAFFIC (AADT): 1690 (west) & 1660 (east) (Ref No. 106260 & 105250)			CONTRACT MAINTENANCE AREA (CMA): 517	

SUMMARY OF SITE INSTRUMENTATION: There is no instrumentation at the C066 site. LAST READING DATE: N/A	INSPECTED BY: Chris Gräpel (KCB) James Lyons (KCB) Rocky Wang (AT)
PRIMARY SITE ISSUE: A slide in the highway embankment near the east abutment that was repaired in 2015. The slide was initiated by heavy rainfall in 2014 and consisted of two zones: (1) the “major slide” zone, a large deep- seated failure that impacted the pavement surface, and (2) the “minor slide” zone.	
APPROXIMATE DIMENSIONS: The site is approximately 60 long, and the highway embankment is approximately 15 m high.	
DATE OF ANY REMEDIAL ACTION: October 2015 – the major slide zone was excavated to stiff clay and backfilled with gravel to a 4H:1V slope. Eight counterfort drains, each with a 150-mm diameter perforated HDPE drain pipe at the base, were installed in the major slide zone. At the minor slide zone, the slope was flattened to 4H:1V without the installation of subsurface drainage or the replacement of the failed material.	

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	X		Existing minor pavement cracking and settlement in westbound lane		X
Slope Movement		X	No new signs of movement on recently regraded slopes		X
Erosion		X	No observed rill erosion of fill.		X
Seepage		X	No observed seepage from slope drains		X
Culvert Distress		X	Eight counterfort drains		X

COMMENTS
Between 2017 and 2018 inspections, the stockpile of fill material was removed or was used to regrade the slide zone.
A potential toe roll was observed at the toe near the eastern slope drain outlet (Photo 1) (WP 147).
Since the 2018 inspection, the slope has become well vegetated and there are no signs of erosion (i.e., rilling) on the slope (Photo 1 and 2).
The five HDPE slope drains remain exposed at the toe of the slope and were dry during the 2022 inspection (Photo 3).
Pavement cracking and settlement in then north (westbound) lane does not appear to have worsened since the 2018 inspection (Photo 4).
The repair appears to be performing well and KCB recommends the site not be visited again during the current contract period. The site could be removed from the list of active Central Region GRMP sites.

Maintenance/Repair/Monitoring Recommendations:

- Since the slide appears to be inactive, the HMC could complete pavement patch to reduce the slight dip observed above the repaired area to improve the highway smoothness.

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Chris Gräpel, M.Eng., P.Eng.
Senior Civil Engineer, Associate



Legend

- GPS Waypoint (May 30, 2022)
- GPS Track (May 30, 2022)
- Scarp
- Crack
- Drain
- Fence
- Asphalt Patch
- 2015 Gravel Fill
- 2017 Gravel Fill
- Slide Extent



NOTES:
 1. HORIZONTAL DATUM: NAD83
 2. GRID ZONE: UTM ZONE 12N
 3. IMAGE SOURCE: 2022 MICROSOFT CORPORATION, 2022 MAXAR CNES, DISTRIBUTION AIRBUS DS

CLIENT

PROJECT CENTRAL REGION GEOHAZARD RISK MANAGEMENT PROGRAM		
TITLE Site Plan C066 - Ghostpine Creek Slide Hwy 27:10, km 12.434		
SCALE 1:1,000	PROJECT No. A05116A02	FIG No. 1

Inspection Photographs

- Photo 1** The vegetation cover at the major slide zone has improved significantly since the 2018 inspection. A potential toe roll was observed near the east side of the slide repair (indicated by red circle)(WP 147). Photo taken May 30, 2022, facing south.



- Photo 2** The north highway embankment slope, where the major slide was repaired. Photo taken May 30, 2022, facing east.



Photo 3 The drains installed during construction were dry during the inspection. Photo taken May 30, 2022, facing northwest.



Photo 4 The pavement cracking and settlement above to slide area does not appear to have worsened since the 2018 inspection. Photo taken May 30, 2022, facing east.

