



PEACE REGION – SWAN HILLS GEOHAZARD RISK ASSESSMENT SITE INSPECTION FORM

SITE NUMBER	SITE NAME	HIGHWAY & KM	PREVIOUS	INSPECTION DATE		
SH 11 (-3, -4)	Little Smoky SH11-3	HWY 744:02	INSPECTION DATE	July 5, 2012		
	Little Smoky SH11-4		May 31, 2011			
LEGAL DESCRIPTION	NAD 83	PREVIOUS RISK ASSESSMENT				
LSD 02-20-76-22 W5M	COORDINATES	PF: 9	CF: 2	TOTAL: 18		
	N6161152	CURRENT RISK ASSESSMENT				
	E476601	PF: 9	CF: 2	TOTAL: 18		

SUMMARY OF SITE INSTRUMENTATION:	INSPECTED BY:		
No Instruments	(i) AMEC: John Richmond, Eric Paton(ii) AT: Ed Szmata, Roger Skirrow		
LAST READING DATE: N/A			

PRIMARY SITE ISSUE:

SH11-3

Pavement cracking and subsidence (undulations) of the highway. The site is part of a larger valley wall failure. The site is located on the southwest flank of a large valley wall block slide. A terrace (sag pond) is below the embankment and forms part of the benched valley wall.

SH11-4

Pavement cracking and subsidence (undulations) of the highway. The site is part of a larger valley wall failure. The site is located on the southwest flank of a large valley wall block slide. A terrace (sag pond) is below the embankment and forms part of the benched valley wall. The backslope ditch is wet with standing water. Movement at SH11-4 is considered to be more severe than at SH11-3.

Ongoing pavement repairs are required at both sites.

It is recommended that a lidar assessment of both sites be carried out to understand how the sites fit in with the larger valley wall failure. No remedial works are planned for the site. Re-routing the highway beyond the valley crest is considered to be one of the only approaches to prevent any further damage to the highway.

Note: Refer to previous inspection reports for further details

APPROXIMATE DIMENSIONS:

Both sites extend approximately 200 to 250m along a highway curve. At both sites, the road embankment and the backslope are slope to approximately 3H:1V.

DATE OF ANY REMEDIAL ACTION:

None

ITEM	CONDITION EXISTS			NOTICABLE CHANGE FROM LAST INSPECTION		
	YES	NO	DESCRIPTION AND ECCATION		NO	See Comment
PAVEMENT DISTRESS	x		Cracking and subsidence (undulations) in the pavement are visible.			x
SLOPE MOVEMENT	х		The site is located on the southwest of a larger valley wall block failure			х
EROSION		x			х	
SEEPAGE		x			х	
CULVERT DISTRESS		x			х	

COMMENTS:

Although pavement distress and slope movement was noted in the 2011 inspection, it could not be determined whether the extents and severity of the distress or movement were noticeably different from the last inspection.

Annual inspection of the site should be continued.

Short term repairs of the road surface including, milling, patching, and crack filling should be carried out as required when distortion/settlement and cracking of pavement occurs. Records of maintenance should be kept for review.

Long term remediation of the site may include consideration for re-routing the highway to the valley crest. A re-route may be the only way to avoid the overall valley wall failure.

