

**STONY PLAIN REGION
GEOHAZARD RISK ASSESSMENT
SITE INSPECTION FORM**

SITE NUMBER AND NAME: NC 47 – Embankment Slope Failure	HIGHWAY AND KM: Access Road 172, km 2.1	PREVIOUS INSPECTION DATE: June 17, 2008	INSPECTION DATE: June 3, 2009
LEGAL DESCRIPTION: SE 4-50-22-W4M	NAD 83 COORDINATES:	RISK ASSESSMENT: PF: 2 CF: 4 TOTAL: 8	

SUMMARY OF SITE INSTRUMENTATION: Slope Inclinator: 1	INSPECTED BY: Adam Gmeinwesser, P. Eng. (EBA) Roger Skirrow, P. Eng. (TRANS) Neil Kjelland, P. Eng. (TRANS) Rocky Wang, P. Eng. (TRANS)
LAST READING DATE: May 29, 2009	
PRIMARY SITE ISSUE: Shallow rotational failure of south embankment slope.	
APPROXIMATE DIMENSIONS: Approximately 6.1 m in height and 12.2 m in length.	
DATE OF REMEDIAL ACTION:	

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	X		Cracks along shoulder associated with embankment failure 2H:1V embankment failure stabilized with soil nails		X
Slope Movement	X			X	
Erosion		X			
Seepage		X			
Culvert Distress		X			

COMMENTS: Rotational failure centered on a culvert; failure possibly due to a high water event. Soil nailing performed in 2008 to stabilize embankment. Risk Assessment reduced from 48 to 8 after repairs.

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SITE OBSERVATIONS:

- The fill slope is steeper than what is normally constructed by TRANS being approximately 2H:1V and 6.1 m high.
- The slope failure was repaired in October 2008.
- Soil nails sticking out of ground, potentially a risk to public.

RECOMMENDATIONS:

- Monitor SI in October and remove from GRMP.
- Have MCI place topsoil over slope and have seeded to cover soil nails protruding from slope.