Alberta INFRASTRUCTURE AND TRANSPORTATION

CENTRAL REGION
GEOHAZARDS RISK ASSESMENT
SITE INSPECTION FORM

KLOHN CRIPPEN

SITE NUMBER AND NAME	HIGHWAY & KM	PREVIOUS INSPECTION DATE	INSPECTION DATE
C24 H564:10	32.29-32.47	May 18, 2004	**May 27, 2005**

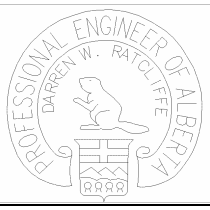
LEGAL DESCRIPTION	NAD 83 COORDINATES	RISK ASSESMENT
SW21-27-18-W4	N 5686020 E 396380	PF: 9 CF: 2 TOTAL: **18**

SUMMARY OF SITE INSTRUMENTATION:

4 slope inclinometers (unknown status)
3 standpipe piezometers (see next page)

LAST READING DATE: May 18, 2004 (KCCL)

INSPECTED BY:



PRIMARY SITE ISSUE:
Large slide below highway. Slope erosion from culvert.

APPROXIMATE DIMENSIONS:
300 m by 100 m (est)

DATE OF ANY REMEDIAL ACTION:

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	X		Dip in surface of gravel pavement is apparent		X
Slope Movement	X		Large old slide below highway. Instrumentation installed. Very slow rate of movement, but scarp is relatively close to edge of highway.		X
Erosion	X		1.2 m dia CSP culvert discharge north of slide area was causing slope erosion. Culvert is now blocked at upstream end and eroded area is now re-vegetating		X
Seepage					
Culvert Distress					

COMMENTS

Refer to previous reports and attached photos

No significant movement in slide area. Two of the three standpipes are now blocked and so groundwater data is limited. Status of inclinometers is unknown.

A 1.2 m dia culvert discharging to the north of the slide area was causing erosion to the slope. This culvert is now blocked and the ditch flow is passed along the highway for about 300 m to the next culvert (0.6 m dia) that has erosion protection below the outlet. The ditch has some eroded portions and protection is recommended (see attached report). Some minor repairs to the 45 m long half-pipe chute are required due to flow spilling over the side. Low priority repair.

Instrumentation Data

Hole ID	Location	Ground Elevation (m) (Local Datum)	Total Depth (m)	Stick Up (m)	Depth to Clayshale (m)	Current Water Depth (m)	Historic Water Depth (m)	Current Water Elevation (m)	Movement Elevation (m)
SP #1	5+263, 37 m LT	199.3	18.6	1.33	16.7	Blocked @ 11.4	16.0 (183.3)	?	182.5
SP #2	5+331, 47 m LT	200.8	11.0	1.73	5.0	Blocked @ 3.8	5.2 (195.6)	?	195.0
SP #3	5+220, 16 m LT	202.4	11.0	1.16	7.9	4.1	5.6 (196.8)	198.3	194.2