

**GEOHAZARD ASSESSMENT PROGRAM**

**PEACE RIVER / HIGH LEVEL AREA**

**2012 INSPECTION**



Site Number	Location	Name	Hwy	km
PH56	North of Manning, AB	Meikle River (South of Bridge)	35:08	26.8 Approx.
Legal Description		UTM Co-ordinates		
NW 6-94-22-5		11V N 6332271	E 467352	

	Date	PF	CF	Total
<b>Previous Inspection:</b>	June 2, 2010	13	4	52
<b>Current Inspection:</b>	June 28, 2012	5	4	20
<b>Road AADT:</b>	1080	<b>Year:</b>		2011
<b>Inspected By:</b>	(Don Proudfoot and Harjeet Panesar, Thurber Engineering) (Roger Skirrow and Ed Szmata, Alberta Transportation)			
<b>Report Attachments:</b>	<input checked="" type="checkbox"/> Photographs <input checked="" type="checkbox"/> Plans <input type="checkbox"/> Maintenance Items			

<b>Primary Site Issue:</b>	Slope failure on highway side slope noted in 2008		
<b>Dimensions:</b>	See Figure PH56-1		
<b>Date of any remediation:</b>	The slope was remediated in 2011		
<b>Maintenance:</b>	None in the last year	<b>Worsened?</b>	
<b>Observations:</b>	<b>Description</b>	Yes	No
<input checked="" type="checkbox"/> Pavement Distress	Original backscarp in 2008 reached the highway shoulder causing guardrail to hang; since then there was retrogression into the highway due to water runoff eroding the exposed scarp surface. The slope and highway were remediated in 2011.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Slope Movement	No visible slope movement was noticed during 2012 assessment.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Erosion	Erosion gullies at the east and west sides of the slope caused by water runoff from the road draining into the former slide area.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Seepage		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bridge/Culvert Distress		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other		<input type="checkbox"/>	<input type="checkbox"/>
<b>Instrumentation:</b>	None		

**Assessment** (Refer to Figure PH56-1):

The slope was remediated and re-constructed in 2011.

During our 2012 site geo-hazard assessment no signs of instability were visible. Minor erosion gullies were noticed on the east and west sides of the slope caused by rainwater runoff from the road. The grass catch was very poor. Silt sediments were accumulated near the toe of the slope, mainly from the surface runoff coming from offsite.

Overall the slope appeared to be in a stable condition.

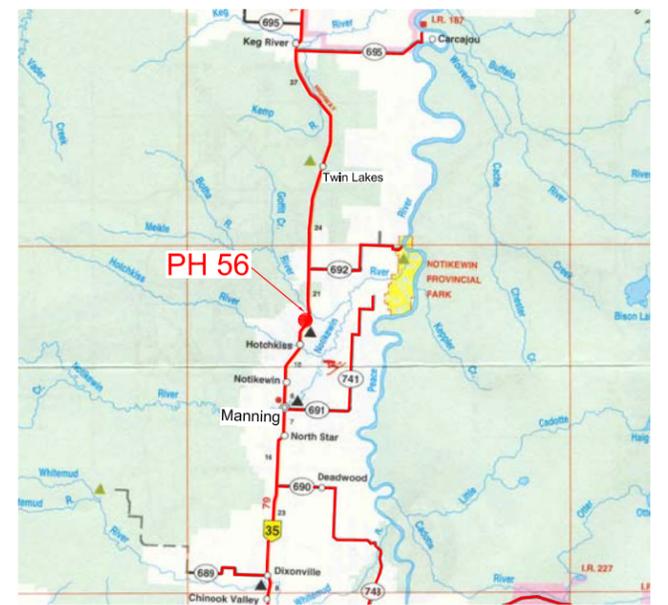
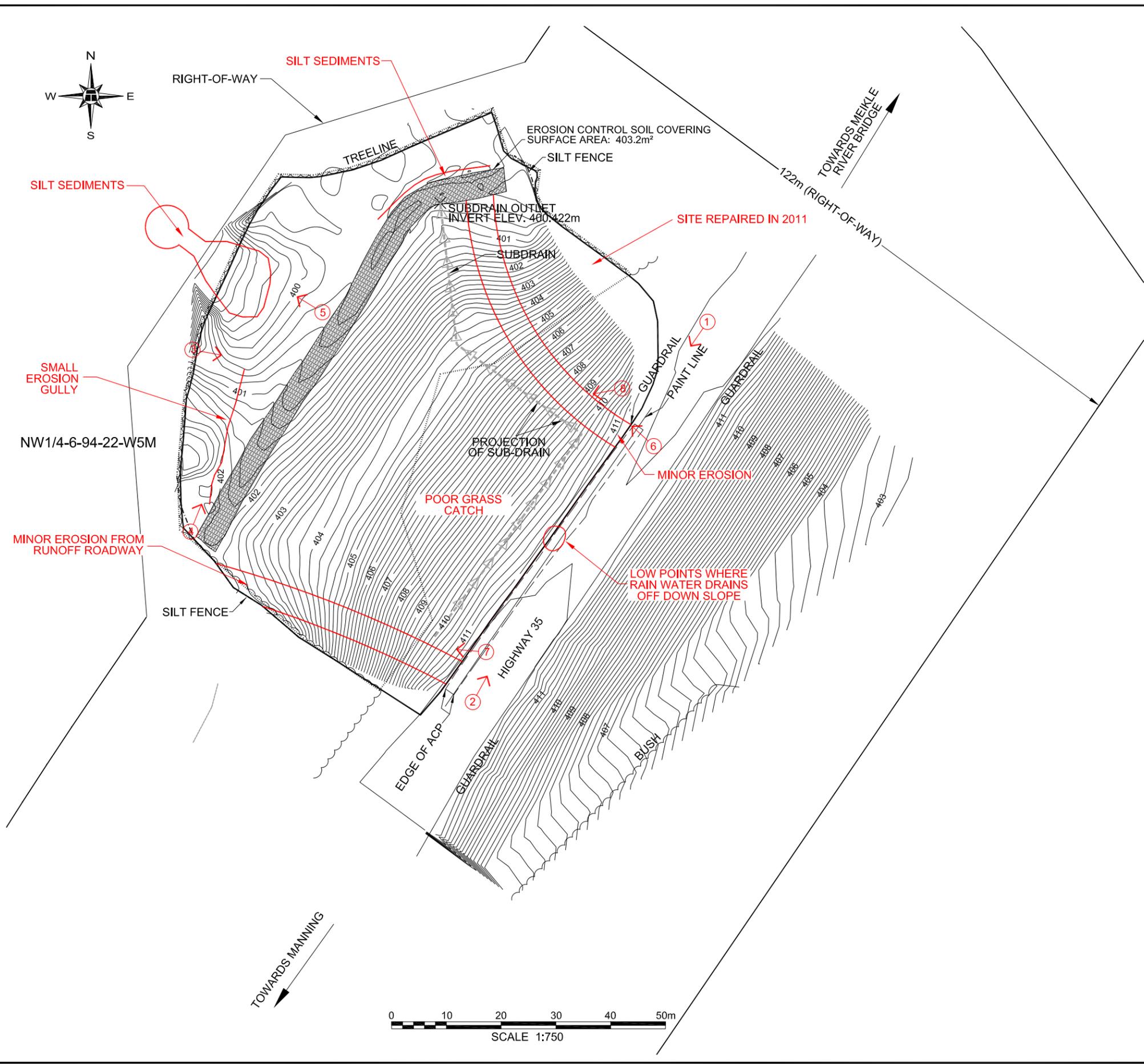
**Recommendations:**

The slope should be re-seeded to promote growth of vegetation. This will supplement the stability of the slope.

Erosion control soil coverings should be placed on the eroded gullies to prevent further erosion due to surface water runoff.

The site should be inspected again next year to confirm that the recommended remedial measures are implemented and the slope is in stable condition.

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**SITE MAP**  
NOT TO SCALE

**NOTES :**

- 1. FEATURE LOCATIONS ARE APPROXIMATE
- 2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
- 3. JUNE, 2012 OBSERVATIONS SHOWN IN RED

**LEGEND :**

① → PHOTO AND DIRECTION

<b>Government of Alberta</b>													
Transportation													
PEACE REGION (PEACE RIVER / HIGH LEVEL)													
HWY 35:08 SOUTH OF MEIKLE RIVER GEOHAZARD ASSESSMENTS													
FIGURE PH56-1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="font-size: small;">DRAWN BY</td><td style="font-size: small;">ML</td></tr> <tr><td style="font-size: small;">DESIGNED BY</td><td style="font-size: small;">HSP</td></tr> <tr><td style="font-size: small;">APPROVED BY</td><td style="font-size: small;">DWP</td></tr> <tr><td style="font-size: small;">SCALE</td><td style="font-size: small;">AS SHOWN</td></tr> <tr><td style="font-size: small;">DATE</td><td style="font-size: small;">OCTOBER 2012</td></tr> <tr><td style="font-size: small;">FILE No.</td><td style="font-size: small;">15-16-273</td></tr> </table>	DRAWN BY	ML	DESIGNED BY	HSP	APPROVED BY	DWP	SCALE	AS SHOWN	DATE	OCTOBER 2012	FILE No.	15-16-273	<p><b>THURBER ENGINEERING LTD.</b></p>
DRAWN BY	ML												
DESIGNED BY	HSP												
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SCALE	AS SHOWN												
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Photo 1 – View of side slope and highway, looking southwest



Photo 2 – Side slope and highway, looking northeast



Photo 3 – Side slope, poor grass catch, looking east



Photo 4 – Erosion control soil covering at the toe of the slope, looking northeast



Photo 5 – Silt sediments accumulated near the toe of the slope, looking northwest



Photo 6 – Erosion gully on the east side of slope, looking northwest



Photo 7 – Erosion gully on the west side, looking northwest.



Photo 8 - Downslope view of remediated slope, looking west.