

**ALBERTA TRANSPORTATION  
GEOHAZARD ASSESSMENT PROGRAM  
PEACE REGION-GRANDE PRAIRIE  
2016 INSPECTION REPORT**



Site Number	Location	Name	Hwy	km
GP039-1	Colquhoun Creek Crossing	Ditch Erosion (12 km's S. of Laglace)	724:04	13.349
Legal Description		UTM Co-ordinates		
SE¼ 04-073-08 W6M		11U E 363186	N 6129337	

	Date	PF	CF	Total
<b>Previous Inspection:</b>	28-May 2014	11	4	44
<b>Current Inspection:</b>	9-Jun-2016	12	4	48
<b>Road AADT:</b>	1080		<b>Year:</b>	2015
<b>Inspected by:</b>	Roger Skirrow, TRANS Ed Szmata, TRANS Ken Misik, TRANS		Renato Clementino, Thurber Shawn Russell, Thurber	
<b>Report Attachments:</b>	<input checked="" type="checkbox"/> Photographs <input checked="" type="checkbox"/> Plans <input type="checkbox"/> Maintenance Items			

<b>Primary Site Issue:</b>	An erosion gully has formed at the crest of the Culquhoun Creek north valley slope along the SBL ditch and is retrogressing into the limits of the privately owned land at No.730028 Hwy 724:04.		
<b>Dimensions:</b>	The erosion gully is about 30 m long, 2 m in width, and 1m to 2m in depth.		
<b>Maintenance:</b>	Some sand appears to have been dumped into the backscarp in attempt to backfill the erosion gully.		
<b>Observations:</b>	<b>Description</b>	<b>Worsened?</b>	
<input type="checkbox"/> Pavement Distress		<input type="checkbox"/>	
<input type="checkbox"/> Slope Movement		<input type="checkbox"/>	
<input checked="" type="checkbox"/> Erosion	Erosion gully has formed at the interface between the Hwy 724:04 SBL ditch and the crest of the Culquhoun Creek north valley slope.	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Seepage		<input type="checkbox"/>	
<input type="checkbox"/> Bridge/Culvert Distress		<input type="checkbox"/>	
<input type="checkbox"/> Other		<input type="checkbox"/>	
<b>Instrumentation:</b> (None at this site)			

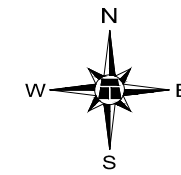
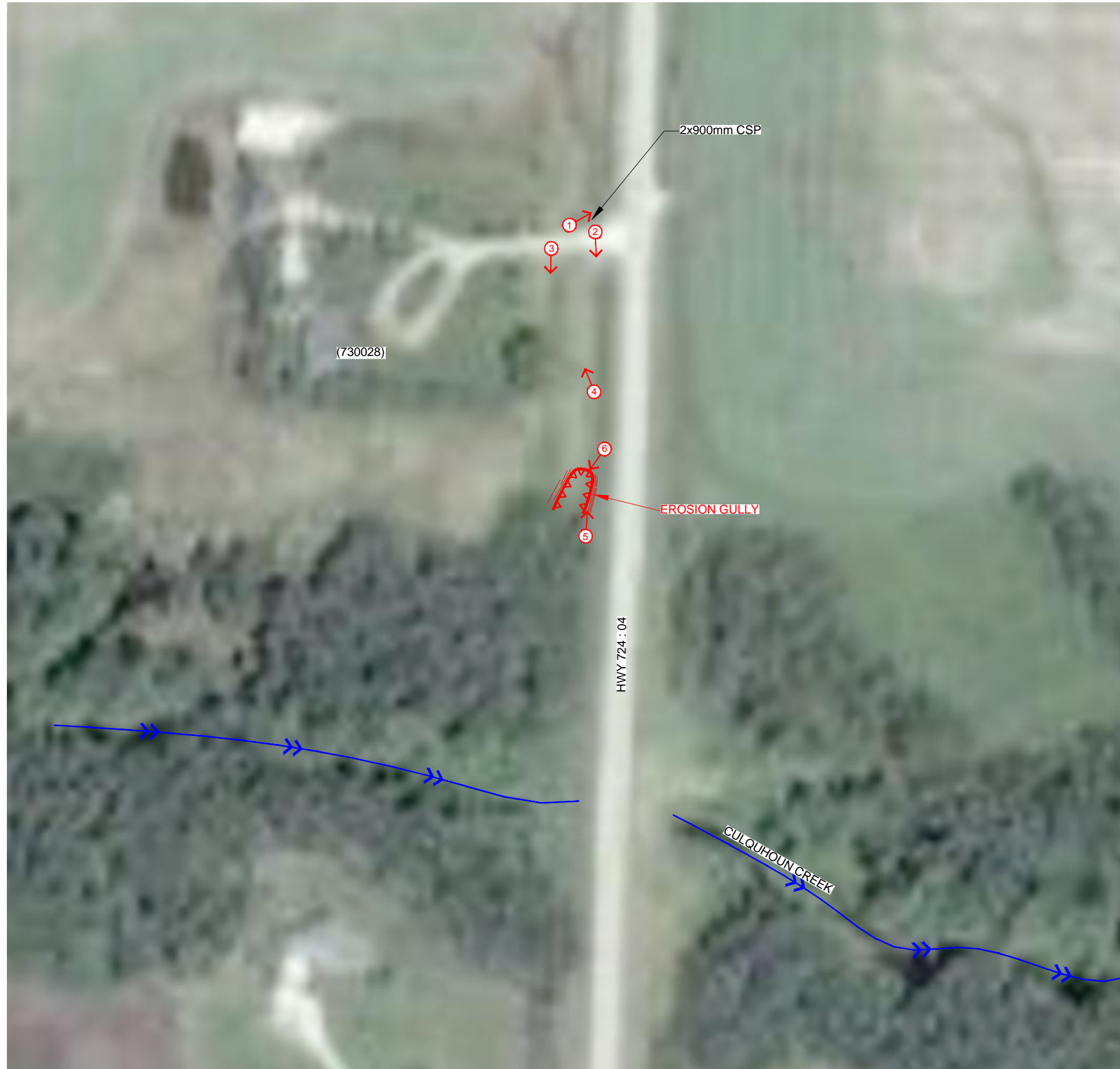
**Assessment:**

The erosion gully did not appear to have adverse impact on the highway embankment at the time of this Call-out. However, the backscarp of the erosion gully is retrogressing to privately owned land adjacent the SBL of the roadway.




The weak and soft material should be excavated from the erosion gully and an armoured channel lined with permanent erosion control measures, such as gabion mattresses, should be constructed as soon as practical in order to avoid conflict with the land owner.

**Recommendations:****Ballpark Cost**

Excavate erosion gully and rebuild channel with permanent erosion control measures.	\$20,000 to \$30,000
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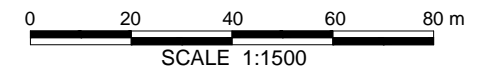


**LEGEND**

-  SCARP CRACK
-  DIRECTION AND NUMBER OF PHOTO
-  WATER FLOW DIRECTION

**NOTES :**

1. FEATURE LOCATIONS ARE APPROXIMATE
2. PREVIOUS OBSERVATIONS SHOWN IN BLACK
3. JUNE 8, 2016 FEATURES SHOWN IN RED



**PEACE REGION (GRANDE PRAIRIE) 2016  
GP39-1: HWY 724:04 km 13.349 DITCH EROSION  
(12 km SOUTH OF LA GLACE)**

**2016 INSPECTION FIGURE**

**DWG No. 13353-GP39-1-1**

DRAWN BY	ML
DESIGNED BY	SGR
APPROVED BY	XW
SCALE	1:1500
DATE	JUNE 2016
FILE No.	13353





**Photo 1.**  
Looking northeast from the private driveway at 130028 Hwy 724 to the inlet of double barreled 900 mm CSP culverts in the SBL ditch.



**Photo 2.**  
Looking south from the private driveway at 130028 Hwy 724 above the outlet of the culverts along the SBL ditch.



**Photo 3.**  
Looking south from private driveway at 130028 Hwy 724 along the berm west of SBL ditch.



**Photo 4.**  
Looking north from the the tree line in te SBL ditch towards the culverts under the private driveway at 130028 Hwy 724.



**Photo 5.**  
Looking northwest from the sideslope of the SBL of Hwy 724:04 at erosion gully that has formed at the crest of the Culquhoun Creek north valley slope.



**Photo 6.**  
Looking southwest from the crest of the Culquhoun Creek north valley slope along the erosion gully. Some additional erosion and retrogression has occurred since 2014.