

Bridge Culvert Inspection			
Bridge File Number	13401 -2 Bridge Culvert	Form Type	CUL1
Year Built	2005	Lot No.	3
Bridge or Town Name	LINDBROOK	Inspector Name	Dave Lam
Located Over	KATCHEMUT CREEK, 6.62.13, WATERCRS-ST	Inspector Class	BR CLS A
Located On	833:04 C1 17.189	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-Jul-2011
Legal Land Location	NW SEC 25 TWP 50 RGE 20 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:48:22, 53:20:49	Data Entry Date	16-Aug-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA16	Review Date	27-Jul-2011
Clear Roadway/Skew	12 / 10 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	980 / 2010 (A)	Dept. Review Date	29-Aug-2011
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3000	MP	47	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	W r/w.	Gas		
Power	20m E of c/l, 1 wire.	Municipal		
Others		Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		8	Farm entrance both directions.
Vertical Alignment		7	
Roadway Width (m)	11.900		
Embankment		8	
Sideslope (__:1)	4.0		W measured.
(Height of Cover(m) : 2.6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall		8	
Collar		8	
Wingwalls		X	
(Shape :)			
Cutoff Wall		N	Buried in fill.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End			9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	780			
Scour Protection			9	CL 1.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			9	Silt fence fallen down.
Beavers (Y/N)	No			
Upstream End General Rating			8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Barrel Last Accessible Date	14-Feb-2005			1.7m of water on 11Jul2011.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall			N	(2913 span at u/s end (5m in). 2933 span at c/l. 2918 span at d/s end (5m in). 14Feb2005).
Measured Span (mm)	2913			
Measured At Ring No.				
Deflection (mm)	87			2.9% inwards.
Percent Deflection	3			
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	(14Feb2005).
Separation (mm)	10			
Longitudinal Seams			N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating			8	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Fish Passage Adequacy			8	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			(14Feb2005).
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			N	GR was N from 05Jun2007.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	730			
Scour Protection			9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			9	
Beavers (Y/N)	No			
Downstream End General Rating			9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			5	Meandering stream.
Bank Stability			6	
HWM (m below Top of Culvert)	1.0			(05Jun2007).
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2011	Remove silt fence at both ends.					
OTHER ACTION	2013	Perform Lvl 2 barrel inspection if unable to access at next regular inspection.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/55.6	Sufficiency Rating (Last/Now) (%)	/71.0	Est. Repl. Yr	2060	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name			Previous Assistant's Name				
Next Inspection Date	11-Oct-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	39						
Comment							