

## BRIDGE MANAGEMENT INFORMATION SYSTEM

24 Jun 2019

ASTEFANA

## Condition Inspection Report

Criteria: Structure No = 08513 - Include Inspection Condition Photos = Y  
 - Include Additional Blank Lines for Notes = N - Show Not Applicable Components = Y

Structure No: 08513 - WHITE CR CULV NO2

Status: Open/In Use

Inspection Type: Routine Condition

Region: 2 - Southern Interior Region

District: 5 - Okanagan Shuswap District

Contract Area: 13 - Okanagan Shuswap CA

RFI: 13-B-B-00001 - Rte 1 EB - TransCanada - OVER

Features Crossed: TCH #1/WHITE CREEK

<u>Component Group/Component</u>	E	G	F	P	V	X	N/A
<b>HYDROTECHNICAL :</b>							
1. Debris Risk		100					N
2. Channel				100			N
3. Erosion Protection							Y
4. Substructure Scour			100				N
5. Flow Capacity			100				N
<b>STRUCTURE :</b>							
6. Embankment		90	10				N
7. Roadway Over Culvert		100					N
8. Wing Walls		100					N
9. Head Wall		100					N
10. Cutoff Wall						100	N
11. Inlet		100					N
12. Outlet		80	20				N
13. Roof/Crown		100					N
14. Sidewalls		100					N
15. Floor						100	N
16. Foundation							Y
17. Trash Rack							Y
18. Fisheries Features							Y
19. Joints						100	N
20. Bolts							Y

Year Built: 1957 Estimated? 

Length (m): 24.400

Culvert Type: Concrete

Culvert Shape: Box (Single or Twin-Cell)

Max Inside Horizontal Width(mm): 3,040

Max Inside Vertical Height(mm): 3,040

Urgency: 2

BCI Rating: 2.12

Adjusted BCI Rating: 2.41

Inspector/Inspected By: Chad Marsh

On 2018/11/30

Amendment/Partial Inspection?

Item Notes:

- 1 . Debris Risk      2018-15: sluff and vines overgrowing at inlet  
 2014-12: sluff at inlet  
 2010-6: Sluff at inlet. inlet 2.8m clearance outlet 1.9
- 2 . Channel      2018-14: inlet on a 60 degree elow  
 sluff over grown channel
- 4 . Substructure Scour      2018: no sluff blocking inlet visible  
 2017-14: sluff at inlet 60% blocked at low and medium flow  
 - outlet <20% blocked at low and medium flow  
 2013: sluff in inlet  
 2009-6: 60% inlet blocked at low and medium flow.  
 2009: inlet 2.8m clearance outlet 1.9  
 2010:inlet 2.6m outlet 1.75m clearance
- 5 . Flow Capacity      2018-17: inlet 2.9m outlet 2.0m clearance  
  
 2016-15: inlet 2.6m outlet 1.6m clearance  
  
 2013: inlet 1.7m outlet 2.2m clearance  
 2013: inlet 1.95 outlet 1.75 clearance  
 2012: inlet 2.8m outlet 1.58 clearance  
 2011: inlet 2.8m outlet 2.0m clearance  
 2002: Mud sediment in culvert approx. 1.7m clearance at outlet.  
 2010-6: (and 2002) About 50% loss channel x-sections at inlet from sluff. 2010:c
- 6 . Embankment      2018-14: steep embankments

**BRITISH COLUMBIA MINISTRY OF TRANSPORTATION  
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**Contract Area:** 13 - Okanagan Shuswap CA

**Item Notes:**

- |      |                      |   |
|------|----------------------|---|
| 7 .  | Roadway Over Culvert | 2018-17: no issues noted<br>2016-15: roadway repaved over culvert in 2014<br>2014: some minor to moderate settlement cracking   |
| 8 .  | Wing Walls           | 2018-14: no issues noted  |
| 9 .  | Head Wall            | 2018-14: no issues noted  |
| 10 . | Cutoff Wall          | 2018-17: not visible to inspection  |
| 11 . | Inlet                | 2018: no fence in the creek<br>2017-15: Fence in the water 2m upstream of inlet<br>2014: Fence in the water 2m upstream of inlet<br>- 1.7m clearance at inlet<br>2013: inlet 1.95 outlet 1.75 clearance. <0.9m loss of clearance at inlet<br>2012-6: 60% inlet blocked at low and medium flow.  |
| 12 . | Outlet               | 2018-17: thaliwag along left bank of culvert<br>2016-15: inlet 2.6m outlet 1.6m clearance<br>2014: 2.2m clearance at outlet<br>2013-12: Mud settlement in culvert. 1.58 clearance<br>2011: Mud settlement in culvert. Can not see channel bottom dirty flow. 2011: inlet 2.8m outlet 2.0m clearance<br>prior 2000: 2.50m Inlet clearance invert to top culvert (1.5m invert to top outlet culvert). 60% inlet blocked at low and medium flow. Fence 5m upstream.<br>2010-6: Mud settlement in culvert. Can not see channel bottom dirty flow. 2010: inlet 2.6m outlet 1.75m clearance |
| 13 . | Roof/Crown           | 2018-15: no issues noted  |
| 14 . | Sidewalls            | 2018-17: no issues noted  |
| 15 . | Floor                | 2018-17: cannot see floor covered in silt<br>2016-15: cannot see floor due to turbidity   |
| 19 . | Joints               | 2018-16: no issues noted  |

**Item Condition Photos:**

- 1 Debris Risk



Filename: 2016 Inlet.JPG

- 13 Roof/Crown



Filename: 2017 roof and sidewalls.JPG

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Item Condition Photos:

14 Sidewalls



Filename: 2017 roof and  
sidewalls.JPG

Inspection Notes:**General Inspection Notes**

center line center culvert  
n 50.78710  
w 119.32964

**Drainage Area Description**

2017: inlet 2.9m outlet 2.0m clearance  
2015: inlet 2.6m outlet 1.6m clearance  
2014: inlet 1.7m outlet 2.2m clearance  
2013: inlet 1.95 outlet 1.75 clearance  
2012: inlet 2.8 outlet 1.58 clearance  
2011: inlet 2.8m outlet 2.0m clearance  
2010-6: Mud settlement in culvert. Can not see channel bottom dirty flow.  
2010:inlet 2.6m outlet 1.75m clearance  
2000: (and 1998) Fence 5 m U/S.2002: 1.7m Clearance at outlet thalweg  
300mm lower. 2009: inlet 2.8m clearance outlet 1.9  
2010 inlet 2.6m outlet 1.75m clearance

**Maintenance Work Notes**

2017-16: -Repair banks, remove sluff.

2015-6: -Repair banks, remove sluff. Patch headwall