

| Bridge Inspection      |                              |                 |      |                     |                    |                 |   |
|------------------------|------------------------------|-----------------|------|---------------------|--------------------|-----------------|---|
| Bridge File Number     | 07415 -1 Bridge              |                 |      | Form Type           | TH                 |                 |   |
| Year Built/Year Supstr | 1912/1912                    |                 |      | Lot No.             | 2                  |                 |   |
| Bridge or Town Name    | MILK RIVER                   |                 |      | Inspector Name      | Jason Rusu         |                 |   |
| Located Over           | MILK RIVER, 1, WATERCRS-ST   |                 |      | Inspector Class     | BR CLS A           |                 |   |
| Located On             | 500:04 C1 14.916             |                 |      | Assistant Name      |                    |                 |   |
| Water Body Cl./Year    |                              |                 |      | Assistant Class     |                    |                 |   |
| Navigabil. Cl./Year    |                              |                 |      | Inspection Date     | 08-Jun-2012        |                 |   |
| Legal Land Location    | SW SEC 3 TWP 2 RGE 12 W4M    |                 |      | Data Entry By       | Kelsey Roberts     |                 |   |
| Longitude, Latitude    | -111:32:13, 49:05:19         |                 |      | Data Entry Date     | 16-Jul-2012        |                 |   |
| Road Authority         | Alberta Transportation (AIT) |                 |      | Reviewer Name       | Garry Roberts      |                 |   |
| Contract Main. Area    | CMA24                        |                 |      | Review Date         | 10-Jul-2012        |                 |   |
| Clear Roadway/Skew     | 6.7 /                        |                 |      | Dept. Reviewer Name | Tim Davies         |                 |   |
| AADT/Year              | 100 / 2011 (A)               |                 |      | Dept. Review Date   | 17-Jul-2012        |                 |   |
| Road Classification    | RLU-208-100                  |                 |      | Follow-Up By        |                    |                 |   |
| Detour Length (km)     | 999                          |                 |      |                     |                    |                 |   |
| Allowable Load (t):    | Single                       | CS1 25 STRINGER | Semi | CS2 44 STRINGER     | Train              | CS3 63 STRINGER | ----> On Critical Spans<br>---->Critical Member |
| Design Loading:        | HS20                         |                 |      |                     | ----> Primary Span |                 |   |

| Posting Information                  |   |        |                   |      |                  |             |                 |    |               |     |                  |     |
|--------------------------------------|---|--------|-------------------|------|------------------|-------------|-----------------|----|---------------|-----|------------------|-----|
| Required Vert. Clearance Posting (m) |   |        |                   |      |                  |             |                 |    |               |     |                  |     |
| Posted Vertical Clearance (Y/N)      |   | Yes    |                   |      |                  |             |                 |    |               |     |                  |     |
| Posted:                              | Lane  | EB     | On Bridge (m)     | 6.0  | In Advance (Y/N) | Yes         | Lane            | WB | On Bridge (m) | 6.0 | In Advance (Y/N) | Yes |
| Remarks                              | MEASURED West 6.205, 6.184<br>East 6.185, 6.186 |        |                   |      |                  |             |                 |    |               |     |                  |     |
| Required Load Posting (t)            |   | Single | 25                | Semi | 44               | Truck Train |                 |    |               |     |                  |     |
| Posted Loading (t)                   |   | Single | 26.0              | Semi | 45.0             | Truck Train |                 |    |               |     |                  |     |
| Posted:                              | Lane  | EB     | At Junction (Y/N) | No   | In Advance (Y/N) | Yes         | At Bridge (Y/N) | No |               |     |                  |     |
| Posted:                              | Lane  | WB     | At Junction (Y/N) | No   | In Advance (Y/N) | No          | At Bridge (Y/N) | No |               |     |                  |     |
| Remarks                              | 1 tonne higher than allowable load for bridge   |        |                   |      |                  |             |                 |    |               |     |                  |     |
| Hazard Marker At Bridge (Y/N)        | Yes   |        |                   |      |                  |             |                 |    |               |     |                  |     |
| Remarks                              |   |        |                   |      |                  |             |                 |    |               |     |                  |     |
| Other Sign Types                     | NARROW BRIDGE, ONE TRUCK ON BRIDGE, River ID    |        |                   |      |                  |             |                 |    |               |     |                  |     |

| Utilities (Located at) |                                |  |                   |
|------------------------|--------------------------------|--|-------------------|
| Utility Attachments    | TELEPHONE UTILITIES-PHONE LINE |  |                   |
| Telephone              | S-conduit Along S. Bot chord   |  | Gas               |
| Power                  |                                |  | Municipal         |
| Others                 |                                |  | Problem (Y/N) Yes |
| Remarks                | Separated conduit @ WA         |  |                   |

| Approach Road                       |  |             |          |                          |
|-------------------------------------|--|-------------|----------|--------------------------|
|                                     |  | Last        | Now      | Explanation of Condition |
| Horizontal Alignment                |  | 5           | 5        | Curve at both ends.      |
| Vertical Alignment                  |  | 7           | 7        |                          |
| Roadway Width (m)                   |  | 7.600       |          |                          |
| Approach Bump                       |  | 5           | 5        |                          |
| Guardrail (Y/N)                     |  | Yes         |          |                          |
| Guardrail                           |  | 7           | 7        |                          |
| Length (m)                          |  | 15.200      |          | Not thriebeam            |
| Current Standard (Y/N)              |  | No          |          |                          |
| Termination Type                    |  | TURNED DOWN |          |                          |
| Drainage                            |  | 6           | 6        |                          |
| <b>Approach Road General Rating</b> |  | <b>5</b>    | <b>5</b> |                          |

| Superstructure   |              |       |       |       |     |  |
|--|--------------|-------|-------|-------|-----|--|
| Bridge Component   |              |       |       | Last  | Now | Explanation of Condition   |
| (Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number: A0103-07) |              |       |       |       |     |  |
| <b>Special Features</b>  |              |       |       |       |     |  |
| Special Feature  |              |       |       |       | X   |  |
| (Type : )  |              |       |       |       |     |  |
| Special Feature  |              |       |       |       | X   |  |
| (Type : )  |              |       |       |       |     |  |
| <b>Wearing Surface/Deck Top Detail Ratings</b>                         |              |       |       |       |     |  |
|  | N (%)        | 1 (%) | 2 (%) | 3 (%) |     |  |
| <b>Last</b>  | 5            | 0     | 0     | 0     |     |  |
| <b>Now</b>   | 0.0          | 0.0   | 0.0   | 0.0   |     |  |
| Wearing Surface/Deck Top   |              |       |       | 4     | 4   | Some ends split but are lag screwed<br>Approx. 6 locations req' patching   |
| (Material Type : <b>UNTREATED TIMBER</b> )                             |              |       |       |       |     |  |
| (Plank Thickness(mm) : <b>75</b> )                                     |              |       |       |       |     |  |
| (Plank Width(mm) : <b>300</b> )  |              |       |       |       |     |  |
| Deck Rideability   |              |       |       | 6     | 6   |  |
| Deck Joints  |              |       |       | X     | X   |  |
| Temperature (deg. C)   |              |       |       |       |     |  |
| (Expansion Type : )  |              |       |       |       |     |  |
| (Fixed Type : )  |              |       |       |       |     |  |
| Gap Size (mm)  | Gap Location |       |       |       |     |  |
|  |              |       |       |       |     |  |
| Curbs/Wheel Guards   |              |       |       | 4     | 4   | 1 WG block split @ Panel 5 North- Repair<br>2 WG plank split at L4S L8S  |
| (Curb Type : <b>Standard</b> )   |              |       |       |       |     |  |
| (Type : <b>TREATED TIMBER</b> )  |              |       |       |       |     |  |
| (Thickness(mm) : <b>100</b> )  |              |       |       |       |     |  |
| (Width(mm) : <b>305</b> )  |              |       |       |       |     |  |
| Bridge Rail  |              |       |       | 4     | 4   | Lattice not continuous @ Splices. Rail to post angle clip torn @ U6L6N<br>20% pitting<br>Vehicle damage at Panel 3 at South. |
| (Type : <b>STEEL LATTICE</b> )   |              |       |       |       |     |  |
| Bridge Rail Posts/Blocking   |              |       |       | 5     | 5   |  |
| (Type : <b>POST STEEL;POST STEEL</b> )                                 |              |       |       |       |     |  |
| Bridge Rail/Posts Coating  |              |       |       | 4     | 4   |  |
| (Type : <b>PAINT</b> )   |              |       |       |       |     |  |
| Sidewalk   |              |       |       | X     | X   |  |

| Superstructure  |           |           |           |           |     |  |
|---|-----------|-----------|-----------|-----------|-----|--|
| Bridge Component  |           |           |           | Last      | Now | Explanation of Condition                                     |
| <b>(Primary Span : TH, 1 Spans, Lengths(m): 61, A-Ident Number: A0103-07)</b>   |           |           |           |           |     |  |
| Wide Load Damage (Y/N)  | Yes       |           |           |           |     | Dents and Scrapes  |
| High Load Damage (Y/N)  | No        |           |           |           |     | Dent at U5L5   |
| Top Chord   |           |           | 7         | 7         |     |  |
| Batter Posts  |           |           | 7         | 7         |     |  |
| Sway Bracings   |           |           | 7         | 7         |     |  |
| Diagonals   |           |           | 7         | 7         |     | (U4L4S and U6L6N have 25-30 mm bend                          |
| Verticals   |           |           | 4         | 4         |     | U7L8S,U5L5S, U1L1N, U6L5N have poor connections. 3 per panel |
| Portals   |           |           | 7         | 7         |     | have plate ext welded on web typ all panels.) 1-June-2011    |
| Connections   |           |           | 4         | 4         |     |  |
| Floor Beams   |           |           | 7         | 7         |     | 8 bays   |
| Bottom Chord  |           |           | 7         | 7         |     |  |
| <b>(No. of Stringers : 80)</b>  |           |           |           |           |     |  |
| <b>Stringer Detail Ratings</b>  |           |           |           |           |     |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count) |     |  |
| <b>Last</b>   |           |           |           |           |     |  |
| <b>Now</b>  |           |           |           |           |     |  |
| Stringers   |           |           | 7         | 7         |     |  |
| (Type : <b>STEEL</b> )  |           |           |           |           |     |  |
| (Width(mm) : <b>380</b> )   |           |           |           |           |     |  |
| (Depth(mm) : <b>140</b> )   |           |           |           |           |     |  |
| (Spacing(mm) : <b>780</b> )   |           |           |           |           |     |  |
| Paint Condition   |           |           | 5         | 5         |     | abrasion pitting in splash zone                              |
| (Colour Description : <b>GREEN</b> )  |           |           |           |           |     |  |
| (Colour Code : <b>14090</b> )   |           |           |           |           |     |  |
| Touchup Required (Y/N)  | No        |           |           |           |     |  |
| Bearings  |           |           | 5         | N         |     | AB 1- Active rattlesnakes in Aroa!<br>AB 2- not accessible   |
| Temperature (deg. C)  | 17        |           |           |           |     |  |
| (Expansion Type : <b>REINFORCED PAD BEARING</b> )   |           |           |           |           |     |  |
| (Fixed Type : <b>PINNED BEARING</b> )   |           |           |           |           |     |  |
| Functioning (Y/N)   | No        |           |           |           |     | P.R.5  |
| Sub Deck/Deck Underside   |           |           | 6         | N         |     | P.R. 6   |
| (Material Type : <b>TREATED TIMBER</b> )  |           |           |           |           |     |  |
| (Plank Thickness(mm) : <b>100</b> )   |           |           |           |           |     |  |
| (Plank Width(mm) : <b>305</b> )   |           |           |           |           |     |  |
| Defects (Percent Area)  | 0         |           |           |           |     |  |
| <b>Span Alignment Problems</b>  |           |           |           |           |     |  |
| Vertical (Y/N)  | No        |           |           |           |     |  |
| Horizontal (Y/N)  | No        |           |           |           |     |  |
| <b>Superstructure General Rating</b>  |           |           | <b>4</b>  | <b>4</b>  |     |  |
| Substructure  |           |           |           |           |     |  |
| Bridge Component  |           |           |           | Last      | Now | Explanation of Condition                                     |
| <b>Abutments</b>  |           |           |           |           |     |  |
| (Extended Backwall Piles (Y/N) : <b>N</b> )   |           |           |           |           |     |  |
| (Extended Backwall Piles Spacing(mm) : )  |           |           |           |           |     |  |
| 28(5 - 250 HP corbels on 2 - 250 Caps @ WA, 14 total<br>3 - 250 HP COrbes on 3 - 250 HP caps @ EA, 12 total<br>1 - 300 x 300 TT BW Cap @EA) 1-June-2011 |           |           |           |           |     |  |

| Substructure                                    |           |           |           |                              |        |        |
|---|-----------|-----------|-----------|------------------------------|--------|--------|
| Bridge Component                                |           | Last      | Now       | Explanation of Condition     |        |        |
| (Total Number of Caps/Corbels : <b>12:14</b> )  |           |           |           | T.T. top cap<br>Rattlesnakes |        |        |
| Bearing Seats/Caps/Corbels Detail Ratings       |           |           |           |                              |        |        |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                    | P.R. 7 |        |
| <b>Last</b>                                     | 0         | 0         | 0         | 0                            |        |        |
| <b>Now</b>                                      | 26        | 0         | 0         | 0                            |        |        |
| Bearing Seats/Caps/Corbels                      |           |           |           | 7                            | N      |        |
| (Type : <b>TREATED TIMBER;STEEL</b> )           |           |           |           |                              |        |        |
| (Depth(mm) : <b>300</b> )                       |           |           |           |                              |        |        |
| (Width(mm) : <b>300</b> )                       |           |           |           |                              |        |        |
| Backwalls/Breastwalls                           |           |           |           | 6                            | N      | P.R. 6 |
| Greatest Height (m)                             |           | 3.80      |           |                              |        |        |
| Wingwalls                                       |           |           |           | 6                            | 6      |        |
| (Total Number of Bearing Piles : <b>12:16</b> ) |           |           |           | P.R. 6                       |        |        |
| Piles Detail Ratings                            |           |           |           |                              |        |        |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                    |        |        |
| <b>Last</b>                                     | 0         | 0         | 0         | 0                            |        |        |
| <b>Now</b>                                      | 28        | 0         | 0         | 0                            |        |        |
| Piles   |           |           |           | 6                            | N      |        |
| Paint/Coating                                   |           |           |           | 5                            | N      |        |
| Abutment Stability                              |           |           |           | 7                            | 7      |        |
| Scour/Erosion                                   |           |           |           | 8                            | 8      |        |
| <b>Piers/Bents</b>                              |           |           |           |                              |        |        |
| (Type : )                                       |           |           |           |                              |        |        |
| (Total Number of Caps/Corbels : )               |           |           |           |                              |        |        |
| Bearing Seats/Caps/Corbels Detail Ratings       |           |           |           |                              |        |        |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                    |        |        |
| <b>Last</b>                                     |           |           |           |                              |        |        |
| <b>Now</b>                                      |           |           |           |                              |        |        |
| Bearing Seats/Caps/Corbels                      |           |           |           | X                            | X      |        |
| (Type : )                                       |           |           |           |                              |        |        |
| (Total Number of Bearing Piles : )              |           |           |           |                              |        |        |
| Piles Detail Ratings                            |           |           |           |                              |        |        |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                    |        |        |
| <b>Last</b>                                     |           |           |           |                              |        |        |
| <b>Now</b>                                      |           |           |           |                              |        |        |
| Pier Shaft/Piles                                |           |           |           | X                            | X      |        |
| Greatest Height (m)                             |           |           |           |                              |        |        |
| Bracing/Struts/Sheathing                        |           |           |           | X                            | X      |        |
| Nose Plate                                      |           |           |           | X                            | X      |        |
| Paint/Coating                                   |           |           |           | X                            | X      |        |
| (Colour Description : )                         |           |           |           |                              |        |        |
| (Colour Code : )                                |           |           |           |                              |        |        |
| Pier Stability                                  |           |           |           | X                            | X      |        |
| Scour   |           |           |           | X                            | X      |        |
| Debris (Y/N)                                    |           | No        |           |                              |        |        |

| Substructure                                 |     |          |          |                                   |
|--|-----|----------|----------|-----------------------------------|
| Bridge Component                             |     | Last     | Now      | Explanation of Condition          |
| <b>Substructure General Rating</b>           |     | <b>6</b> | <b>6</b> |                                   |
| Structure Usage                              |     |          |          |                                   |
|  |     | Last     | Now      | Explanation of Condition          |
| <b>Channel</b>                               |     |          |          |                                   |
| (U/S Direction : <b>S</b> )                  |     |          |          | (6.0 m DECK TO STREAMBED. 950627) |
| (D/S Direction : <b>N</b> )                  |     |          |          |                                   |
| Alignment                                    |     | 5        | 5        |                                   |
| Bank Stability                               |     | 5        | 5        |                                   |
| HWM (m below Top of Curb)                    | 1.0 |          |          | No visible HWM                    |
| Drift (Y/N)                                  | No  |          |          |                                   |
| Slope Protection                             |     | 5        | 5        |                                   |
| (Type : <b>NATURAL; NATURAL</b> )            |     |          |          |                                   |
| Guidebank/Spurs                              |     | X        | X        |                                   |
| Adequacy of Opening                          |     | 7        | 7        |                                   |
| (Fish Compensation Measure 1 : <b>NONE</b> ) |     |          |          |                                   |
| (Fish Compensation Measure 2 : <b>NONE</b> ) |     |          |          |                                   |
| <b>Channel General Rating</b>                |     | <b>5</b> | <b>5</b> |                                   |

| Maintenance Recommendations                       |   |  |                     |               |           |                   |     |
|---|---|--|---------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations                         | Year  | Inspector Comments   | Department Comments | Target Year   | Est. Cost | Cat #             |     |
| REPAIR/REPLACE BRIDGE RAIL                        |   |  |                     |               |           |                   |     |
| RETROFIT BRIDGE RAIL                              |   |  |                     |               |           |                   |     |
| SEAL CURBS  | 2012  | Replace WG block and 2 WG planks   |                     |               |           |                   |     |
| PATCH DECK  | 2012  | 6 - 75x3000x6000mm   |                     |               |           |                   |     |
| SEAL DECK   |   |  |                     |               |           |                   |     |
| OVERLAY DECK                                      |   |  |                     |               |           |                   |     |
| REPLACE STRIP DECK                                |   |  |                     |               |           |                   |     |
| REPLACE SUB DECK                                  |   |  |                     |               |           |                   |     |
| RESET/ PAINT BEARINGS                             |   |  |                     |               |           |                   |     |
| REPAINT SUPERSTRUCTURE                            |   |  |                     |               |           |                   |     |
| STRAIGHTEN/REPLACE MEMBERS                        | 2012  | Heat Straighten U4L4S, U6L6N, & U5L5N  |                     |               |           |                   |     |
| WASHING   |   |  |                     |               |           |                   |     |
| SHOTCRETE REPAIRS                                 |   |  |                     |               |           |                   |     |
| CORE TIMBER CAPS/CORBELS                          |   |  |                     |               |           |                   |     |
| REPAIR/REPLACE TIMBER CAPS                        |   |  |                     |               |           |                   |     |
| REPAIR ABUTMENT SCOUR/EROSION                     |   |  |                     |               |           |                   |     |
| PLACE ADDITIONAL RIP RAP                          |   |  |                     |               |           |                   |     |
| REMOVE DRIFT ACCUMULATION                         |   |  |                     |               |           |                   |     |
| OTHER ACTION                                      | 2012  | Install 24 structural bolts U7L8S, U5L5S, U1L1N, U6L5N- If not already done. |                     |               |           |                   |     |
| OTHER ACTION                                      | 2012  | Notify Telus of separated conduit  |                     |               |           |                   |     |
| OTHER ACTION                                      |   |  |                     |               |           |                   |     |
| OTHER ACTION                                      | 2012  | Install loading signs to read CS1 - 25t, CS2 - 44t                           |                     |               |           |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>55.6/55.6</b>  | <b>Sufficiency Rating (Last/Now) (%)</b>                                     | <b>46.7/46.7</b>    | Est. Repl. Yr | 2040      | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              | Beware of Rattlesnakes at West abut. Confirmed- bull snake seen. Rattlesnakes at East abut. also. Behaving aggressively/protective. |  | 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                         | Owen Salava   | Previous Assistant's Name  |                     |               |           |                   |     |
| Next Inspection Date                              | 08-Sep-2015   | Previous Inspection Date   | 01-Jun-2011         |               |           |                   |     |
| Inspection Cycle (Default) (months)               | 39  |  |                     |               |           |                   |     |
| Comment   |   |  |                     |               |           |                   |     |