

| Bridge Inspection | | | | | | | | | |
|------------------------|---|--------|------|--------|---------------------|-----------------|---|--|--|
| Bridge File Number | 72343 -1 Bridge | | | | Form Type | PCS | | | |
| Year Built/Year Supstr | 1990/1990 | | | | Lot No. | 2 | | | |
| Bridge or Town Name | TIGER LILY | | | | Inspector Name | Melanie Johnson | | | |
| Located Over | TRIBUTARY TO PADDLE RIVER, 8.11.84.30.10, WATERCRS-ST | | | | Inspector Class | BR CLS B | | | |
| Located On | 763:02 C1 8.955 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 24-Aug-2011 | | | |
| Legal Land Location | SW SEC 6 TWP 60 RGE 5 W5M | | | | Data Entry By | Theresa Lacusta | | | |
| Longitude, Latitude | -114:45:07, 54:09:34 | | | | Data Entry Date | 12-Sep-2011 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Eric Carcoux | | | |
| Contract Main. Area | CMA10 | | | | Review Date | 04-Sep-2011 | | | |
| Clear Roadway/Skew | 10 / | | | | Dept. Reviewer Name | Brent Herrick | | | |
| AADT/Year | 300 / 2010 (A) | | | | Dept. Review Date | 15-Sep-2011 | | | |
| Road Classification | RCU-209-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 35 | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | MS230 | | | | | | ----> Primary Span | | |

| Posting Information | | | | | | | | | |
|-------------------------------|---------------|----|-------------------|----|------------------|----|-----------------|----|--|
| Required Load Posting (t) | | | Single | | Semi | | Truck Train | | |
| Posted Loading (t) | | | Single | | Semi | | Truck Train | | |
| Posted: | Lane | NB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | SB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Remarks | Not required. | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | | | | | | | | | |
| Other Sign Types | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | |
|------------------------|-----------------------------|--|--|--|---------------|----|--|--|--|
| Utility Attachments | | | | | | | | | |
| Telephone | 2 lines x 20m to the North. | | | | Gas | | | | |
| Power | | | | | Municipal | | | | |
| Others | | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |

| Approach Road | | | | | | | | | | | |
|-------------------------------------|-----------|--|---|----------|--|--|--|--|--|---|---|
| | | | Last | Now | Explanation of Condition | | | | | | |
| Horizontal Alignment | | | 7 | 7 | Intersection to NE No passing to North. | | | | | | |
| Vertical Alignment | | | 7 | 7 | | | | | | | |
| Roadway Width (m) | 9.100 | | | | | | | | | | |
| Approach Bump | | | 7 | 7 | | | | | | | |
| Guardrail (Y/N) | Yes | | Not long enough & not enough posts to meet std. Only 7.6m @ NE corner. SW rail/post leaning. NE corner damaged and missing turndown terminal post.-photo | | | | | | | | |
| Guardrail | | | | | | | | | | 6 | 4 |
| Length (m) | 11.400 | | | | | | | | | | |
| Current Standard (Y/N) | No | | | | | | | | | | |
| Termination Type | Turn Down | | | | | | | | | | |
| Drainage | | | 7 | 7 | | | | | | | |
| Approach Road General Rating | | | 7 | 7 | | | | | | | |

| Superstructure | | | | | |
|--|-----------|-------------|-----------|--------------------------|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : SM, 1 Spans, Lengths(m): 11, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | | | | | |
| Now | | | | | |
| Wearing Surface | | | X | X | Concrete crack/spall around some connections. |
| (Material Type :) | | | | | |
| (Thickness(mm) :) | | | | | |
| Lateral Connection Problem (Y/N) | | Yes | | | |
| Deck Top | | | 4 | 4 | Lightly scaled. Few small spalls up to 150 x 300 x 50. Longitudinal crack in some girders. Some girder tops have popouts/spalls - photo. |
| Deck Rideability | | | 6 | 6 | |
| Deck Joints | | | 4 | 4 | Buffer angles rusting & loss of section in some places where exposed. |
| Bump (Y/N) | | No | | | |
| Deck Drainage | | | 7 | 7 | No deck drains. |
| Drains Clogged (Y/N) | | | | | |
| Curbs/Median | | | 7 | 7 | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | 7 | 7 | |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | |
| Bridge Rail Posts | | | 7 | 7 | |
| (Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 7 | 7 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | 5 interior girders not accessible. |
| Last | 5 | | | | |
| Now | 5 | 0 | 0 | 0 | |
| Girders | | | 4 | 4 | See "Deck Top" comments. Rust stains from connection pockets. 50% of the girders have narrow longitudinal cracks above voids. |
| Last Complete Inspection Date | | 10-May-2008 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 0 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | | | | |
| (Number Of Girders : 9) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |
| Superstructure General Rating | | | 4 | 4 | |

| Substructure | | | | | | |
|--|-----------|-----------|-----------|-----------|-----|----------------------------------|
| Bridge Component | | | | Last | Now | Explanation of Condition |
| Abutments | | | | | | |
| (Extended Backwall Piles (Y/N) : Y) | | | | | | |
| (Extended Backwall Piles Spacing(mm) : 1900) | | | | | | |
| (Total Number of Caps/Corbels : 1:1) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 7 | 7 | |
| (Type : STEEL) | | | | | | |
| (Depth(mm) : 300) | | | | | | |
| (Width(mm) : 310) | | | | | | |
| Backwalls/Breastwalls | | | | 7 | 7 | |
| Greatest Height (m) | | 3.00 | | | | |
| Wingwalls | | | | 7 | 7 | 2 pile wingwalls. |
| (Total Number of Bearing Piles : 6:6) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Piles | | | | 7 | 7 | |
| Paint/Coating | | | | 4 | 4 | Caps piles have pitting/scaling. |
| Abutment Stability | | | | 7 | 7 | |
| Scour/Erosion | | | | 7 | 7 | |
| Piers/Bents | | | | | | |
| (Type :) | | | | | | |
| (Total Number of Caps/Corbels :) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | X | X | |
| (Type :) | | | | | | |
| (Depth(mm) :) | | | | | | |
| (Width(mm) :) | | | | | | |
| (Total Number of Bearing Piles :) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| 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 | |

| Substructure | | | | |
|--|----|----------|----------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| Scour | | X | X | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | |
| (D/S Direction : E) | | | | |
| Alignment | | 7 | 7 | HWM not visible. |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Curb) | | | | |
| Drift (Y/N) | No | | | |
| Slope Protection | | 5 | 4 | Streambed under bridge has a shallow basin scoured out. |
| (Type : NONE) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 8 | 8 | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 5 | 4 | |

| Maintenance Recommendations | | | | | | | |
|---|--|--|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| OVERLAY DECK | 2011 | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL STRUTS | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 61.1/61.1 | Sufficiency Rating (Last/Now) (%) | 64.8/60.4 | Est. Repl. Yr | 2045 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Monitor longitudinal cracking of girders and spalls. | | 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 | Dave Lam | | Previous Assistant's Name | | | | |
| Next Inspection Date | 24-Nov-2014 | | Previous Inspection Date | 10-May-2008 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |