

| Bridge Culvert Inspection | | | | |
|---------------------------|-------------------------------------|--|---------------------|---------------|
| Bridge File Number | 77218 -1 Bridge Culvert | | Form Type | CULM |
| Year Built | 1970 | | Lot No. | |
| Bridge or Town Name | EDMONTON | | Inspector Name | Eric Carcoux |
| Located Over | HORSEHILLS CREEK, 6.73, WATERCRS-ST | | Inspector Class | BR CLS A |
| Located On | 15:03 R1 4.135;15:03 L1 4.167 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 24-Jan-2013 |
| Legal Land Location | SW SEC 17 TWP 54 RGE 23 W4M | | Data Entry By | Brent Herrick |
| Longitude, Latitude | -113:21:57, 53:39:31 | | Data Entry Date | 24-Jan-2013 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | |
| Contract Main. Area | CMA09 | | Review Date | |
| Clear Roadway/Skew | 30.2 / | | Dept. Reviewer Name | |
| AADT/Year | | | Dept. Review Date | |
| Road Classification | | | Follow-Up By | |
| Detour Length (km) | 3 | | | |

| Bridge Culvert Information | | | | | | | | |
|----------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | | 2 | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 2100 | MP | 63.4 | | | ROUND |
| 2 | MAIN | - | 1500 | MP | 63.4 | | | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

| Utilities (Located at) | | | |
|------------------------|--|---------------|--|
| Utility Attachments | | | |
| Telephone | | Gas | |
| Power | | Municipal | |
| Others | | Problem (Y/N) | |
| Remarks | | | |

| Approach Road / Embankment | | | | |
|--|----------|-----|--------------------------|--|
| | Last | Now | Explanation of Condition | |
| Horizontal Alignment | 7 | | | |
| Vertical Alignment | 9 | | | |
| Roadway Width (m) | | | | |
| Embankment | 7 | | | |
| Sideslope (__:1) | | | | |
| (Height of Cover(m) :) | | | | |
| Guardrail (Y/N) | | | | |
| Approach Road / Embankment General Rating | 7 | | | |

| Upstream End | | | | |
|---|------|-----|--------------------------|--|
| Culvert Component | Last | Now | Explanation of Condition | |
| (Pipe # : 1, Span Type: Primary Span) | | | | |
| Direction | | | | |
| End Treatment (Concrete, Steel, Others, None) | | | | |
| Headwall | X | | | |
| Collar | X | | | |
| Wingwalls | X | | | |
| (Shape :) | | | | |

| Upstream End | | | | |
|--|--|----------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Span Type: Primary Span) | | | | |
| Cutoff Wall | | X | | |
| Bevel End | | 4 | | |
| Heaving (mm) | | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | 5 | | |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 5 | | |
| Beavers (Y/N) | | | | |
| Upstream End General Rating | | 4 | | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2100, Type: MP) | | | | |
| Barrel Last Accessible Date | | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 6 | | |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | | | | |
| Percent Sag | | | | |
| Sidewall | | 6 | | |
| Measured Span (mm) | | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | | | | |
| Percent Deflection | | | | |
| Floor | | N | | |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | | | | |
| Circumferential Seams | | 6 | | |
| Separation (mm) | | | | |
| Longitudinal Seams | | X | | |
| 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 | | 4 | | |
| Corrosion By Soil (Y/N) | | | | |
| Corrosion By Water (Y/N) | | | | |

| Bridge Culvert Barrel | | | | |
|--|--|----------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2100, Type: MP) | | | | |
| Camber POS/ZERO/NEG | | | | |
| Ponding (Y/N) | | | | |
| Fish Passage Adequacy | | 7 | | |
| Baffle | | X | | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | | |
| Icing (Y/N) | | | | |
| Silting (Y/N) | | | | |
| Drift (Y/N) | | | | |
| Barrel General Rating | | 6 | | |

| Downstream End | | | | |
|---|--|----------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Span Type: Primary Span) | | | | |
| Direction | | | | |
| End Treatment (Concrete, Steel, Others, None) | | | | |
| Headwall | | X | | |
| Collar | | X | | |
| Wingwalls | | X | | |
| (Shape :) | | | | |
| Cutoff Wall | | X | | |
| Bevel End | | 6 | | |
| Heaving (mm) | | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | 5 | | |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 5 | | |
| Beavers (Y/N) | | | | |
| Downstream End General Rating | | 6 | | |

| Upstream End | | | | |
|--|--|------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Span Type: Secondary Span) | | | | |
| Direction | | | | |
| End Treatment (Concrete, Steel, Others, None) | | | | |
| Headwall | | X | | |
| Collar | | X | | |
| Wingwalls | | X | | |
| (Shape :) | | | | |
| Cutoff Wall | | X | | |

| Upstream End | | | | |
|--|--|----------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Span Type: Secondary Span) | | | | |
| Bevel End | | 6 | | |
| Heaving (mm) | | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | 5 | | |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 5 | | |
| Beavers (Y/N) | | | | |
| Upstream End General Rating | | 6 | | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: MP) | | | | |
| Barrel Last Accessible Date | | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 6 | | |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | | | | |
| Percent Sag | | | | |
| Sidewall | | 6 | | |
| Measured Span (mm) | | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | | | | |
| Percent Deflection | | | | |
| Floor | | N | | |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | | | | |
| Circumferential Seams | | 6 | | |
| Separation (mm) | | | | |
| Longitudinal Seams | | X | | |
| 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 | | 4 | | |
| Corrosion By Soil (Y/N) | | | | |
| Corrosion By Water (Y/N) | | | | |
| Camber POS/ZERO/NEG | | | | |

| Bridge Culvert Barrel | | | | |
|--|--|----------|-----|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: MP) | | | | |
| Ponding (Y/N) | | | | |
| Fish Passage Adequacy | | 7 | | |
| Baffle | | X | | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | | |
| Icing (Y/N) | | | | |
| Silting (Y/N) | | | | |
| Drift (Y/N) | | | | |
| Barrel General Rating | | 6 | | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Span Type: Secondary Span) | | | | |
| Direction | | | | |
| End Treatment (Concrete, Steel, Others, None) | | | | |
| Headwall | | X | | |
| Collar | | X | | |
| Wingwalls | | X | | |
| (Shape :) | | | | |
| Cutoff Wall | | X | | |
| Bevel End | | 6 | | |
| Heaving (mm) | | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | | | | |
| Scour Protection | | 5 | | |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 5 | | |
| Beavers (Y/N) | | | | |
| Downstream End General Rating | | 6 | | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 7 | | |
| Bank Stability | | 7 | | |
| HWM (m below Top of Culvert) | | | | |
| Drift (Y/N) | | | | |
| Channel Bottom Degrading/Aggrading | | | | |
| Beavers (Y/N) | | | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 7 | | |

| 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 | | | | | | |
| OTHER ACTION | | | | | | |
| OTHER ACTION | | | | | | |
| OTHER ACTION | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 66.7/ | Sufficiency Rating (Last/Now) (%) | 67.6/ | Est. Repl. Yr | | Maint. Req. (Y/N) |
| 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 | Tom Hubbard | | Previous Assistant's Name | Andre Gosselin | | |
| Next Inspection Date | 24-Oct-2014 | | Previous Inspection Date | 27-Sep-2010 | | |
| Inspection Cycle (Default) (months) | 21 | | | | | |
| Comment | | | | | | |