

| Bridge Culvert Inspection | | | |
|---------------------------|-------------------------------------------------------|---------------------|---------------------|
| Bridge File Number | 77833 -1 Bridge Culvert | Form Type | CUL1 |
| Year Built | 1983 | Lot No. | 4 |
| Bridge or Town Name | SILVER VALLE | Inspector Name | Russel Vanderschaaf |
| Located Over | TRIBUTARY TO SNEDDON CREEK, 8.10.92.2, WATERCRS-ST | Inspector Class | BR CLS B |
| Located On | 681:02 C1 25.937 | Assistant Name | |
| Water Body Cl./Year | | Assistant Class | |
| Navigabil. Cl./Year | | Inspection Date | 06-Mar-2012 |
| Legal Land Location | SW SEC 30 TWP 81 RGE 10 W6M | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -119:33:33, 56:02:36 | Data Entry Date | 27-Mar-2012 |
| Road Authority | Alberta Transportation (AIT) | Reviewer Name | Eric Carcoux |
| Contract Main. Area | CMA05 | Review Date | 22-Mar-2012 |
| Clear Roadway/Skew | 8.7 / | Dept. Reviewer Name | David Morrison |
| AADT/Year | 320 / 2011 (A) | Dept. Review Date | 31-Oct-2012 |
| Road Classification | RCU-209-110 | Follow-Up By | |
| Detour Length (km) | 13 | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | - | 1800 | MP | 32.6 | 75X25 | 3.5 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | | |
|---------------------|---------------------------|---------------|----|--|
| Utility Attachments | | | | |
| Telephone | South r/w | Gas | | |
| Power | 3 LINE O/H 15 M S. OF C/L | Municipal | | |
| Others | | Problem (Y/N) | No | |
| Remarks | | | | |

Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|--------------------------------------------------|-------|----------|----------|---------------------------------------|
| Horizontal Alignment | | 7 | 7 | JUST EAST OF INTERSECTION, Rge Rd 110 |
| Vertical Alignment | | 7 | 7 | |
| Roadway Width (m) | 8.700 | | | |
| Embankment | | 7 | 7 | |
| Sideslope (__:1) | 3.0 | | | |
| (Height of Cover(m) : 1.5) | | | | |
| Guardrail (Y/N) | No | | | |
| Approach Road / Embankment General Rating | | 7 | 7 | |

Upstream End

| Culvert Component | | Last | Now | Explanation of Condition |
|-----------------------------------------------|-------|------|-----|--------------------------|
| Direction | | S | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |

| Upstream End | | | | |
|-----------------------------------------------------------------------------------------|-------------|----------|----------|----------------------------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 300 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | | 7 | N | Snow covered. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 7 | N | Snow covered. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP) | | | | |
| Barrel Last Accessible Date | 06-Mar-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 7 | 7 | |
| Measured Rise (mm) | 1748 | | | estimated due to ice. |
| Measured At Ring No. | | | | |
| Sag (mm) | 52 | | | |
| Percent Sag | 3 | | | |
| Sidewall | | 6 | 7 | |
| Measured Span (mm) | 1847 | | | At C/L of road, 16m from u/s end. |
| Measured At Ring No. | | | | |
| Deflection (mm) | 47 | | | |
| Percent Deflection | 3 | | | |
| Floor | | 5 | 5 | |
| Bulge (mm) | 0 | | | At C/L of road. |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 90 | | | |
| Longitudinal Seams | | X | 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 | 4 | Pitting rust on floor and minor rust on sidewalls. |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | Yes | | | 0.1 m. |

| Bridge Culvert Barrel | | | | |
|-----------------------------------------------------------------------------------------|-----|----------|----------|----------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP) | | | | |
| Fish Passage Adequacy | | 7 | 7 | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 5 | 5 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 6 | 7 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | N | | |
| End Treatment (Concrete, Steel, Others, None) | | STEEL | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 6 | 6 | MINOR DAMAGE AT E. SIDE OF BEVEL |
| Heaving (mm) | 200 | | | |
| Invert Above/Below Stream Bed | | ABOVE | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | | 5 | N | Snow covered. |
| (Type :) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | 5 | N | Snow covered. |
| Beavers (Y/N) | | No | | |
| Downstream End General Rating | | 5 | 5 | GR carried fwd from 19-Nov-2008 |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 8 | 8 | ROCK DROP STRUCTURE 25 M U/S |
| Bank Stability | | 8 | 8 | |
| HWM (m below Top of Culvert) | | | | No HWM visible. |
| Drift (Y/N) | | No | | |
| Channel Bottom Degrading/Aggrading | | | | Stable |
| Beavers (Y/N) | | No | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 8 | 8 | |

| 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) (%) | 66.7/77.8 | Sufficiency Rating (Last/Now) (%) | 64.3/69.3 | Est. Repl. Yr | 2032 | Maint. Req. (Y/N) | No |
| 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 | Laurie McCarron | | Previous Assistant's Name | Russel Vanderschaaf | | | |
| Next Inspection Date | 06-Jun-2015 | | Previous Inspection Date | 19-Nov-2008 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |