79659 -1 Bridge Culvert

| | | | | | Bridg | e Culve | rt Insp | ection | | | | | | |
|--|-----------------------------|--------------|------------------|----------|--------|-------------------|-------------------|-------------------------------------|-------------|---------------|---|--|--|--|
| Bridge File Nun | nber | 79659 - | -1 Bridge Culver | rt | | | Form T | уре | | CUL1 | | | | |
| Year Built 1987 Bridge or Town Name SUNDRE | | | | | | | Lot No | • | | 3 | | | | |
| Bridge or Town | E | | | | Inspec | tor Name | | Owen Salava | | | | | | |
| Located Over | ON CREEK, 3.96, WATERCRS-ST | | | | Inspec | tor Class | | BR CLS A | | | | | | |
| Located On 22:20 C1 7.739 | | | | '39 | | | Assista | nt Name | | | | | | |
| Water Body Cl./Year | | | | | | | | int Class | | | | | | |
| Navigabil. Cl./Year | | | | | | | Inspec | tion Date | | 19-Oct-2012 | | | | |
| | | | C 28 TWP 33 R | GE 5 W5 | M | | Data E | ntry By | | Marcia Chavez | 2 | | | |
| | | | 9:47, 51:51:52 | | | | Data E | Data Entry Date 09-Nov-2012 | | | | | | |
| | | | Transportation | (AIT) | | | Review | Reviewer Name John O'Brien | | | | | | |
| Contract Main. Area CMA29 | |) | | | | | / Date | | 30-Oct-2012 | 30-Oct-2012 | | | | |
| Clear Roadway | /Skew | 14 / 18 | deg. (RHF) | | | | Dept. F | Dept. Reviewer Name Andrew Smikles | | | | | | |
| AADT/Year | | 2,270 / | 2011 (A) | | | | Dept. Review Date | | 13-Nov-2012 | | | | | |
| | | RAU-2 | 11.8-110 | | | | Follow | Up By | | | | | | |
| Detour Length (km) 3 | | | | | | | | | | | | | | |
| Bridge Culvert | Informa | ation | | | | | | | | | | | | |
| Number of Culv | /erts | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length Corr. Profile PI./Slab Shape | | Shape | | | | |
| 1 MAIN - 2438 | | | | SP | 50 | | 152X51 | | ROUND | | | | | |
| Special Feature | es | | | | | | | | | | | | | |
| Special Feature | es Comm | nent | | | | | | | | | | | | |
| | | | | | 117 | | | - 4) | | | | | | |
| Utility Attachme | ents | | | | Uti | ilities (L | <u>-ocated</u> | at) | | | | | | |
| | T . | ·/w. | | | | | Gas | | | | | | | |
| Telephone West r/w. Power 3 wires located at West end. | | | | | Munici | oal | | | | | | | | |
| Others Others | | | | | | m (Y/N) | No | | | | | | | |
| Remarks | | | | | | | | , | | | | | | |
| | | | | A | pproac | ch Road | l / Emb | ankment | | | | | | |
| | | | | | Last | Now | Explar | ation of | Condi | tion | | | | |
| Horizontal Alignment | | | | 9 | 9 | Climbing lane SB. | | | | | | | | |
| Vertical Alignme | ent | | | | 8 | 8 | | | | | | | | |
| Roadway Width (m) | | 14.000 | | | | | | | | | | | | |
| Embankment | | | | | 7 | 7 | | | | | | | | |
| Sideslope (| _:1) | | 2.5 | | | | | | | | | | | |
| (Height of Co | ver(m): | 5.3) | | | | | | | | | | | | |
| Guardrail (Y/N) | | | Yes | | | | | | | | | | | |
| Approach Roa | d / Emb | ankme | nt General Rat | ing | 8 | 8 | | | | | | | | |
| | | | | | | Upstre | om End | | | | | | | |
| Culvert Compo | nent | | | | Last | Now | 1 | ation of | Condi | tion | | | | |
| Direction | Jiiciit | | | | W | ITOW | LAPIAI | | Conai | LIOII | | | | |
| End Treatment Others, None) | (Concre | ete, Stee | el, STEEL | | VV | | | | | | | | | |
| Headwall | | | | | Х | X | | | | | | | | |
| Collar | | | Х | X | | | | | | | | | | |
| Wingwalls | | | X | X | | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | |
| Cutoff Wall | | | | | Х | Х | | | | | | | | |

79659 -1 Bridge Culvert

| | | | Unstre | am End |
|--|--------------------|------|--------|-------------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 6 | 6 | Drift at NW corner. |
| Heaving (mm) | 250 | 0 | 0 | Dilit at two comen. |
| Invert Above/Below Stream Bed | BELOW | | | |
| | | | | |
| Above/Below (mm) | 300 | | Τ_0 | Dealer in board arings |
| Scour Protection | | N | 6 | Rocks in bevel, minor. |
| (Type: RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | 1 | |
| Scour/Erosion | | N | 6 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | 1 | 6 | 6 | |
| | | Bri | dge Cu | lvert Barrel |
| Culvert Component | | | Now | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, S | | | , Rise (mm): 2438, Type: SP) |
| Barrel Last Accessible Date | 19-Oct-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 5 | 5 | |
| | 2308 | 3 | J | |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | 6 | | | |
| Sag (mm) | 130 | | | 5.3% |
| Percent Sag | 5 | | Ι _ | |
| Sidewall | I | 5 | 5 | |
| Measured Span (mm) | 2570 | | | |
| Measured At Ring No. | 6 | | | 5.4% |
| Deflection (mm) | 132 | | | - |
| Percent Deflection | 5 | | _ | |
| Floor | | N | 5 | Ice. |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 7 | 7 | |
| Total No. of Cracked Rings | 0 | | | 1 |
| Total No. of Rings with Two Cracked Seams | - | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | Yes | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| | 163 | | 6 | Minor superficial rust no sitting |
| Coating | Vaa | 6 | 6 | Minor superficial rust, no pitting. |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |

| | | Brid | dge Cu | Ivert Barrel | | | | |
|---|----------------------|----------|--------|---|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| (Pipe #: 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm): | | , Rise (mm): 2438, Type: SP) | | | | |
| Fish Passage Adequacy | | 4 | 4 | D/S end perched. | | | | |
| Baffle | | Х | Х | | | | | |
| (Type:) | | | | | | | | |
| Waterway Adequacy | | 6 | 6 | (1800mm deep ice @ mid. Feb/25/2005). | | | | |
| Icing (Y/N) | Yes | | | | | | | |
| Silting (Y/N) | No | | | | | | | |
| Drift (Y/N) | No | | | | | | | |
| Barrel General Rating | | 5 | 5 | | | | | |
| | | D | ownstr | ream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| Direction | | E | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | |
| Headwall | | X | X | | | | | |
| Collar | | X | Х | | | | | |
| Wingwalls | | X | X | | | | | |
| (Shape:) | | | | | | | | |
| Cutoff Wall | | Х | X | | | | | |
| Bevel End | | 5 | 5 | Perched 0.3m above streambed. | | | | |
| Heaving (mm) | 50 | | | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | | | | | |
| Above/Below (mm) | 700 | | | | | | | |
| Scour Protection | | N | 4 | | | | | |
| (Type : RIP RAP) | | | | | | | | |
| (Avg. Rock Size(mm) : 400) | | | | | | | | |
| Scour/Erosion | | | 4 | Rock riprap has been rolled D/S forming a wall and ponding at basin of water 1.8m deep x 8.0m diag. | | | | |
| Beavers (Y/N) | No | | | | | | | |
| Downstream End General Ratio | ng | 4 | 4 | | | | | |
| | | s | tructu | re Usage | | | | |
| | | Last | | Explanation of Condition | | | | |
| Channel (U/S and D/S) | | | | | | | | |
| Alignment | | 7 | 7 | | | | | |
| Bank Stability | | N | 5 | U/S flow impacts NW bank causing erosion - minor. | | | | |
| HWM (m below Top of Culvert) | -3.0 | | | (05/Oct/2006) HWM not visible. Drift caught on fence and logs 2.5m higher on sideslope - photo. | | | | |
| Drift (Y/N) | No | | | | | | | |
| Channel Bottom Degrading/Aggrading DEGRADING | | | | D/S only. | | | | |
| Beavers (Y/N) | No | | | | | | | |
| (Fish Compensation Measure 1 : | · | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | I | | | | | |
| Channel General Rating | | 4 | 7 | | | | | |

| | | Maintenance Re | commendations | | | | |
|--|-------------|--|---------------------------|------------------|--------------|-----------|----------|
| Inspector Recommendations | Year | Inspector Comments | Department Comm | nents | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | 1.00. | misposie: Commente | | | raiget i eai | | - Cut II |
| PLACE ADDITIONAL RIP RAP | 2013 | Use good quality Class III rocks at D/streambed area & spread out rocks @channel, if not yet done. | S D/S | | | | |
| REMOVE DRIFT ACCUMULATION | 2013 | Remove all drift from inlet area. | | | | | |
| INSTALL CONCRETE/STEEL LINING | i | | | | | | |
| INSTALL STRUTS | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTO | OFF | | | | | | |
| REPAIR SEAMS | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/N (%) | ow) 55.6/55 | .6 Sufficiency Rating (Last/N | ow) 49.9/51.8 | Est. Repl. Yr 20 | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | I 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 | 19-Jul-2014 | | Previous Inspection Date | 03-Feb-2011 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |