|                                      |  |                     |                                   |            | <b>6</b> 1100  | e Cuive                             | ert Insp  | ection                             |         |                    |                       |       |  |  |  |  |  |  |  |  |
|--------------------------------------|--|---------------------|-----------------------------------|------------|----------------|-------------------------------------|---|------------------------------------|---------|--------------------|-----------------------|-------|--|--|--|--|--|--|--|--|
| Bridge File Nur                      | mber   | 81742 -             | 1 Bridge Culve                    |            |                |                                     | Form 7  |                                    |         | CULM               |                       |       |  |  |  |  |  |  |  |  |
| Year Built                           |  | 1991                | <u>_</u>                          |            |                |                                     | Lot No  |                                    |         | 4                  |                       |       |  |  |  |  |  |  |  |  |
| Bridge or Town                       | Name   | FAIRVI              | ΞW                                |            |                |                                     | Inspec  | tor Name                           |         | Russel Vande       | rschaaf               |       |  |  |  |  |  |  |  |  |
| Located Over                         |  |                     | IER CREEK, 8                      | .10.77, WA | TER            | CRS-                                | · ·   | tor Class                          |         | BR CLS B           |                       |       |  |  |  |  |  |  |  |  |
|                                      |  | ST                  |                                   |            |                |                                     | -   | ant Name                           |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Located On                           | Nater Body CI./Year Navigabil. CI./Year Legal Land Location SE SEC 16 TWP 81 RGE Longitude, Latitude -118:23:50, 56:00:57 Road Authority Alberta Transportation (Al' Contract Main. Area CMA04 Clear Roadway/Skew 18.6 / 15 deg. (RHF) AADT/Year 2,370 / 2010 (A) Road Classification RAU-210-110 Detour Length (km) 1 Bridge Culvert Information Number of Culverts 3 Pipe # Barrel Span Ris I MAIN - 220 B MAIN - 220 B MAIN - 220 B Special Features Special Features Comment Utility Attachments   |                     |                                   |            |                |                                     | Assista   | ant Class                          |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Water Body Cl.                       | dater Body CI./Year avigabil. CI |                     |                                   |            |                |                                     |   | tion Date                          |         | 10-Nov-2011        |                       |       |  |  |  |  |  |  |  |  |
| Navigabil. Cl./Y                     | avigabil. CI./Year egal Land Location SE SEC 16 TWP 81 RGE 3 ongitude, Latitude -118:23:50, 56:00:57 oad Authority Alberta Transportation (AIT ontract Main. Area CMA04 lear Roadway/Skew 18.6 / 15 deg. (RHF) ADT/Year 2,370 / 2010 (A) oad Classification RAU-210-110 etour Length (km) 1 ridge Culvert Information umber of Culverts 3 ipe # Barrel Span Rise MAIN - 220 MAIN - 220 pecial Features   |                     |                                   |            |                |                                     |   | ntry By                            |         | Theresa Lacus      | sta                   |       |  |  |  |  |  |  |  |  |
| Legal Land Loc                       | avigabil. CI./Year egal Land Location SE SEC 16 TWP 81 RGE 3 congitude, Latitude -118:23:50, 56:00:57 coad Authority Alberta Transportation (AIT) contract Main. Area CMA04 lear Roadway/Skew 18.6 / 15 deg. (RHF) ADT/Year 2,370 / 2010 (A) coad Classification RAU-210-110 etour Length (km) 1 ridge Culvert Information umber of Culverts 3 ipe # Barrel Span Rise MAIN - 2200 MAIN - 2000 pecial Features  |                     |                                   | GE 3 W6N   | 1              |                                     |   | ntry Date                          |         | 14-Dec-2011        |                       |       |  |  |  |  |  |  |  |  |
|                                      |  |                     |                                   |            |                |                                     |   | ver Name                           |         | Eric Carcoux       |                       |       |  |  |  |  |  |  |  |  |
| Road Authority                       |  | Alberta             | Transportation                    | (AIT)      |                |                                     | Review Date                                     |                                    |         | 12-Dec-2011        |                       |       |  |  |  |  |  |  |  |  |
| Contract Main.                       | Area   | CMA04               |                                   |            |                |                                     | Dept. Reviewer Name                             |                                    |         | Steve Pasqua       | n                     |       |  |  |  |  |  |  |  |  |
| Clear Roadway                        | //Skew   | 18.6 / 1            | 5 deg. (RHF)                      |            |                |                                     |   | Review Dat                         |         | 09-Jan-2012        |                       |       |  |  |  |  |  |  |  |  |
| AADT/Year                            |  |                     |                                   |            |                |                                     | Follow  |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Road Classifica                      |  |                     |                                   |            |                |                                     |   | -1 7                               |         |                    |                       |       |  |  |  |  |  |  |  |  |
|                                      |  | -                   |                                   |            |                |                                     |   |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
|                                      |  |                     |                                   |            |                |                                     |   |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
|                                      | verts  |                     |                                   |            |                |                                     |   |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Pipe #                               | Barrel   |                     | Span                              | Rise (or D | Dia.)          | Type                                |   | Length                             |         | Corr. Profile      | Pl./Slab<br>Thickness | Shape |  |  |  |  |  |  |  |  |
| 1                                    | ΜΔΙΝ   |                     | _                                 |            |                | MP                                  |   | 44                                 |         | 125X26             | 2.8                   | ROUND |  |  |  |  |  |  |  |  |
| 2                                    |  |                     | _                                 |            |                | MP                                  |   | 44                                 |         | 125X26             | 2.8                   | ROUND |  |  |  |  |  |  |  |  |
| 3                                    |  |                     | _                                 |            |                | MP                                  |   | 42                                 |         | 125X26             | 2.8                   | ROUND |  |  |  |  |  |  |  |  |
| _                                    |  |                     |                                   | 2000       |                | 1011                                |   | 72                                 |         | 120/20             | 2.0                   | ROOND |  |  |  |  |  |  |  |  |
|                                      |  |                     |                                   |            | Uti            | lities (L                           | ocated  | at)                                |         |                    |                       |       |  |  |  |  |  |  |  |  |
|                                      |  | 1307 1              |                                   |            |                |                                     | _   |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Telephone                            | Burie  | ı west sı           | ide                               |            |                |                                     | Gas   |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Power Others                         |  |                     |                                   |            |                |                                     | Municipal Problem (Y/N) No                      |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
|                                      |  |                     |                                   |            |                |                                     | Floble  | III ( 171 <b>N</b> )   1           | NO      |                    |                       |       |  |  |  |  |  |  |  |  |
| Remarks                              |  |                     |                                   | ۸۵         |                | h Dans                              |   |                                    |         |                    |                       |       |  |  |  |  |  |  |  |  |
|                                      |  |                     | _                                 |            |                |                                     | l / Emb   | ankmont                            |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Horizontal Align                     |  | L                   |                                   |            |                |                                     |   | ankment<br>nation of C             | Condi   | rion               |                       |       |  |  |  |  |  |  |  |  |
| Tronizontan / mg.                    | nment  |                     |                                   |            | Last           | Now                                 | Explar  | nation of C                        |         |                    |                       |       |  |  |  |  |  |  |  |  |
| Vertical Alignm                      |  |                     |                                   |            | Last<br>6      |                                     | <b>Explar</b> Curves                            | nation of C                        | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
| Vertical Alignm<br>Roadway Width     | ent  |                     | 11.000                            |            | Last           | Now<br>6                            | <b>Explar</b> Curves                            | nation of C<br>north & so          | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
|                                      | ent  |                     | 11.000                            |            | Last<br>6      | Now<br>6                            | <b>Explar</b> Curves                            | nation of C<br>north & so          | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width                        | ent<br>h (m)   |                     | 11.000                            |            | 6<br>8         | <b>Now</b> 6 7                      | <b>Explar</b> Curves                            | nation of C<br>north & so          | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment             | ent<br>h (m)<br>_:1)   | 2.5)                |                                   |            | 6<br>8         | <b>Now</b> 6 7                      | <b>Explar</b> Curves                            | nation of C<br>north & so          | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent<br>h (m)<br>_:1)<br>over(m)  | 2.5)                |                                   |            | 6<br>8         | <b>Now</b> 6 7                      | <b>Explar</b> Curves                            | nation of C                        | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent h (m) _:1) over(m)   |                     | 4.0<br>No                         |            | 6<br>8         | <b>Now</b> 6 7                      | <b>Explar</b> Curves                            | nation of C                        | outh. I | ntersection        |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent h (m)  _:1)  over(m) h ad / Eml  |                     | 4.0<br>No                         |            | 6<br>8         | Now   6   7     7     6     Upstree | Explar<br>Curves<br>just so                     | nation of C                        | outh. I | ntersection<br>es. |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent h (m) _:1) ever(m) ad / Eml  | bankmer             | 4.0 No nt General Rat             | ing        | 6<br>8         | Now   6   7     7     6     Upstree | Explar<br>Curves<br>just so                     | nation of C                        | outh. I | ntersection<br>es. |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent h (m) _:1) ever(m) ad / Eml  | bankmer             | 4.0 No nt General Rat             | ing        | 6<br>8<br>Last | Now   6   7     7     6     Upstree | Explar<br>Curves<br>just so                     | nation of C                        | outh. I | ntersection<br>es. |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent h (m)  _:1)  over(m)  onent an Type  | oankmer<br>e: Prima | 4.0  No  nt General Rat  ry Span) | ing        | 6<br>6         | Now   6   7     7     6     Upstree | Explar<br>Curves<br>just so                     | nation of Cosmonth & south. Turnir | outh. I | ntersection<br>es. |                       |       |  |  |  |  |  |  |  |  |
| Roadway Width Embankment Sideslope ( | ent h (m)  _:1)  over(m)  onent an Type  | oankmer<br>e: Prima | 4.0  No  nt General Rat  ry Span) | ing        | 6<br>8<br>Last | Now   6   7     7     6     Upstree | Explar<br>Curves<br>just so<br>am Enc<br>Explar | nation of Cosmonth & south. Turnir | outh. I | ntersection<br>es. |                       |       |  |  |  |  |  |  |  |  |

81742 -1 Bridge Culvert

|   | Upstream End         |      |        |   |  |  |  |  |  |  |
|---|----------------------|------|--------|---|--|--|--|--|--|--|
| Culvert Component                           |                      | Last | Now    | Explanation of Condition                |  |  |  |  |  |  |
| (Pipe #: 1, Span Type: Primary              | y Span)              |      |        |   |  |  |  |  |  |  |
| Wingwalls                                   |                      | Х    | X      |   |  |  |  |  |  |  |
| (Shape: )                                   |                      |      |        |   |  |  |  |  |  |  |
| Cutoff Wall                                 |                      | Х    | Х      |   |  |  |  |  |  |  |
| Bevel End                                   |                      | 7    | 6      |   |  |  |  |  |  |  |
| Heaving (mm)                                | 50                   |      |        |   |  |  |  |  |  |  |
| Invert Above/Below Stream Bed               | BELOW                |      |        |   |  |  |  |  |  |  |
| Above/Below (mm)                            | 150                  |      |        |   |  |  |  |  |  |  |
| Scour Protection                            |                      | 6    | 6      | Overgrown with grass/reeds.             |  |  |  |  |  |  |
| (Type : RIP RAP)                            |                      |      |        |   |  |  |  |  |  |  |
| (Avg. Rock Size(mm) : <b>200</b> )          |                      |      |        |   |  |  |  |  |  |  |
| Scour/Erosion                               |                      | 7    | 6      | No evident problems.                    |  |  |  |  |  |  |
| Beavers (Y/N)                               | No                   |      |        |   |  |  |  |  |  |  |
| Upstream End General Rating                 |                      | 6    | 6      |   |  |  |  |  |  |  |
|   |                      | Bri. | dae Cu | lvert Barrel                            |  |  |  |  |  |  |
| Culvert Component                           |                      |      | Now    | Explanation of Condition                |  |  |  |  |  |  |
| (Pipe # : 1, Primary Span, Loca             | tion Code: MAIN. Spa |      |        | , Rise (mm): 2200, Type: MP)            |  |  |  |  |  |  |
| Barrel Last Accessible Date                 | 24-Feb-2010          |      | ,      | South pipe. Weak ice, viewed from ends. |  |  |  |  |  |  |
| Special Features                            |                      |      |        |   |  |  |  |  |  |  |
| Special Feature                             |                      |      |        |   |  |  |  |  |  |  |
| (Type:)                                     |                      |      |        |   |  |  |  |  |  |  |
| Special Feature                             |                      |      |        |   |  |  |  |  |  |  |
| (Type:)                                     |                      |      |        |   |  |  |  |  |  |  |
| Roof  |                      | 7    | 7      | Sag est.                                |  |  |  |  |  |  |
| Measured Rise (mm)                          |                      |      |        |   |  |  |  |  |  |  |
| Measured At Ring No.                        |                      |      |        |   |  |  |  |  |  |  |
| Sag (mm)                                    | 10                   |      |        | Floor covered with ice.                 |  |  |  |  |  |  |
| Percent Sag                                 |                      |      |        |   |  |  |  |  |  |  |
| Sidewall                                    |                      | 7    | 7      |   |  |  |  |  |  |  |
| Measured Span (mm)                          | 2223                 |      |        | AT C.L-24-Feb-2010                      |  |  |  |  |  |  |
| Measured At Ring No.                        |                      |      |        |   |  |  |  |  |  |  |
| Deflection (mm)                             | 238                  |      |        |   |  |  |  |  |  |  |
| Percent Deflection                          | 19                   |      |        |   |  |  |  |  |  |  |
| Floor                                       |                      | N    | N      | Under ice.                              |  |  |  |  |  |  |
| Bulge (mm)                                  |                      |      |        |   |  |  |  |  |  |  |
| Measured At Ring No.                        |                      |      |        |   |  |  |  |  |  |  |
| Abrasion (Y/N)                              | No                   |      |        |   |  |  |  |  |  |  |
| Circumferential Seams                       |                      | 7    | 6      | End of 1st ring dented from construc-   |  |  |  |  |  |  |
| Separation (mm)                             | 40                   |      |        | tion (minor).                           |  |  |  |  |  |  |
| Longitudinal Seams                          |                      | Х    | Х      |   |  |  |  |  |  |  |
| Total No. of Cracked Rings                  |                      |      |        |   |  |  |  |  |  |  |
| Total No. of Rings with Two                 |                      |      |        |   |  |  |  |  |  |  |
| Cracked Seams                               |                      |      |        |   |  |  |  |  |  |  |
| Min. Remaining Steel<br>Between Cracks (mm) |                      |      |        |   |  |  |  |  |  |  |
| Proper Lap (Y/N)                            |                      |      |        |   |  |  |  |  |  |  |
| Longitudinal Stagger (Y/N)                  |                      |      |        |   |  |  |  |  |  |  |

|   |                      | Brid     | dge Cu | lvert Barrel                 |
|---|----------------------|----------|--------|------------------------------|
| Culvert Component                             |                      | Last Now |        | Explanation of Condition     |
| (Pipe # : 1, Primary Span, Locat              | tion Code: MAIN, Spa | n (mm    | ):     | , Rise (mm): 2200, Type: MP) |
| Coating                                       |                      | 7        | 6      | Rusting on lower 1/3         |
| Corrosion By Soil (Y/N)                       | No                   |          |        |                              |
| Corrosion By Water (Y/N)                      | Yes                  |          |        |                              |
| Camber POS/ZERO/NEG                           | NEG                  |          |        |                              |
| Ponding (Y/N)                                 | Yes                  |          |        |                              |
| Fish Passage Adequacy                         |                      | 8        | 8      |                              |
| Baffle  |                      | N        | Х      |                              |
| (Type:)                                       |                      |          |        |                              |
| Waterway Adequacy                             |                      | 8        | 8      |                              |
| Icing (Y/N)                                   | Yes                  |          |        |                              |
| Silting (Y/N)                                 | No                   |          |        |                              |
| Drift (Y/N)                                   | No                   |          |        |                              |
| Barrel General Rating                         |                      | 7        | 7      |                              |
|   |                      | D        | ownstr | eam End                      |
| Culvert Component                             |                      | Last     | Now    | Explanation of Condition     |
| (Pipe #: 1, Span Type: Primary                | y Span)              |          |        |                              |
| Direction                                     |                      | W        |        | (south pipe.)                |
| End Treatment (Concrete, Steel, Others, None) | STEEL                |          |        |                              |
| Headwall                                      |                      | Х        | X      |                              |
| Collar  |                      | Х        | X      |                              |
| Wingwalls                                     |                      | Х        | Х      |                              |
| (Shape: )                                     |                      |          |        |                              |
| Cutoff Wall                                   |                      | Х        | X      |                              |
| Bevel End                                     |                      | 7        | 6      |                              |
| Heaving (mm)                                  | 50                   |          |        |                              |
| Invert Above/Below Stream Bed                 | BELOW                |          |        |                              |
| Above/Below (mm)                              | 400                  |          |        |                              |
| Scour Protection                              |                      | 6        | 6      | Overgrown with reeds/grass   |
| (Type : RIP RAP)                              |                      |          |        |                              |
| (Avg. Rock Size(mm) : <b>200</b> )            |                      |          |        |                              |
| Scour/Erosion                                 |                      | 7        | 6      | No evident problems.         |
| Beavers (Y/N)                                 | No                   |          |        |                              |
| Downstream End General Ratio                  | ng                   | 6        | 6      |                              |
|   |                      |          | Upstre | am End                       |
| Culvert Component                             |                      | Last     |        | Explanation of Condition     |
| (Pipe # : 2, Span Type: Second                | ary Span)            |          |        |                              |
| Direction                                     | <u> </u>             | E        |        | (Middle pipe)                |
| End Treatment (Concrete, Steel, Others, None) | STEEL                |          |        |                              |
| Headwall                                      |                      | Х        | Х      |                              |
| Collar  |                      | Х        | Х      |                              |

81742 -1 Bridge Culvert

|   |                      |          | Upstre | am End   |
|---|----------------------|----------|--------|--|
| Culvert Component                           |                      | Last     | Now    | Explanation of Condition   |
| (Pipe # : 2, Span Type: Second              | lary Span)           |          |        |  |
| Wingwalls                                   |                      | Х        | Х      |  |
| (Shape: )                                   |                      | <u>'</u> |        |  |
| Cutoff Wall                                 |                      | Х        | Х      |  |
| Bevel End                                   |                      | 7        | 6      |  |
| Heaving (mm)                                | 50                   |          |        |  |
| Invert Above/Below Stream Bed               | BELOW                |          |        |  |
| Above/Below (mm)                            | 150                  |          |        |  |
| Scour Protection                            |                      | 6        | 6      |  |
| (Type : RIP RAP)                            |                      |          |        |  |
| (Avg. Rock Size(mm) : 200)                  |                      |          |        |  |
| Scour/Erosion                               |                      | 6        | 6      |  |
| Beavers (Y/N)                               | No                   |          |        |  |
| Upstream End General Rating                 |                      | 6        | 6      |  |
|   |                      |          |        |  |
| Culvert Component                           |                      |          | Now    | Explanation of Condition   |
| Culvert Component                           | ecation Code: MAIN 9 |          |        | Explanation of Condition   |
| (Pipe # : 2, Secondary Span, Lo             | 24-Feb-2010          | opan (i  | 1111). | , Rise (mm): 2200, Type: MP)  Couldn't access due to ice conditions. |
|   | 24-Feb-2010          |          |        | Couldn't access due to ice conditions.                               |
| Special Features                            |                      | 1        |        |  |
| Special Feature                             |                      |          |        | Viewed from ends   |
| (Type:)                                     |                      | 1        |        |  |
| Special Feature                             |                      |          |        |  |
| (Type:)                                     |                      |          | _      |  |
| Roof  |                      | 7        | 7      | Sag est.   |
| Measured Rise (mm)                          |                      |          |        | Floor covered with ice.  |
| Measured At Ring No.                        |                      |          |        |  |
| Sag (mm)                                    | 10                   |          |        |  |
| Percent Sag                                 |                      |          |        |  |
| Sidewall                                    |                      | 7        | 7      | 0 1045 1 0040  |
| Measured Span (mm)                          | 2221                 |          |        | @ cl-24-Feb-2010   |
| Measured At Ring No.                        |                      |          |        |  |
| Deflection (mm)                             | 21                   |          |        |  |
| Percent Deflection                          | 1                    |          |        |  |
| Floor                                       |                      | N        | N      | Under ice.   |
| Bulge (mm)                                  |                      |          |        |  |
| Measured At Ring No.                        |                      |          |        |  |
| Abrasion (Y/N)                              | No                   |          |        |  |
| Circumferential Seams                       |                      | 7        | 6      | Circum. seams have minor construction dents.                         |
| Separation (mm)                             | 50                   |          |        |  |
| Longitudinal Seams                          |                      | Х        | Х      |  |
| Total No. of Cracked Rings                  |                      |          |        |  |
| Total No. of Rings with Two Cracked Seams   |                      |          |        |  |
| Min. Remaining Steel<br>Between Cracks (mm) |                      |          |        |  |
| Proper Lap (Y/N)                            |                      |          |        |  |
| Longitudinal Stagger (Y/N)                  |                      |          |        |  |
|   |                      |          |        |  |

|   |                      | Brid    | dge Cul | lvert Barrel                 |  |  |  |
|---|----------------------|---------|---------|------------------------------|--|--|--|
| Culvert Component                             |                      | Last    | Now     | Explanation of Condition     |  |  |  |
| (Pipe #: 2, Secondary Span, Lo                | cation Code: MAIN, S | Span (r | nm):    | , Rise (mm): 2200, Type: MP) |  |  |  |
| Coating                                       |                      | 7       | 6       |                              |  |  |  |
| Corrosion By Soil (Y/N)                       | No                   |         |         |                              |  |  |  |
| Corrosion By Water (Y/N)                      | Yes                  |         |         |                              |  |  |  |
| Camber POS/ZERO/NEG                           | NEG                  |         |         |                              |  |  |  |
| Ponding (Y/N)                                 | Yes                  |         |         |                              |  |  |  |
| Fish Passage Adequacy                         |                      | 8       | 8       |                              |  |  |  |
| Baffle  |                      | N       | Х       |                              |  |  |  |
| (Type:)                                       |                      |         |         |                              |  |  |  |
| Waterway Adequacy                             |                      | 8       | 8       |                              |  |  |  |
| Icing (Y/N)                                   | No                   |         |         |                              |  |  |  |
| Silting (Y/N)                                 | No                   |         |         |                              |  |  |  |
| Drift (Y/N)                                   | No                   |         |         |                              |  |  |  |
| Barrel General Rating                         |                      | 7       | 7       |                              |  |  |  |
|   |                      | D       | ownstr  | eam End                      |  |  |  |
| Culvert Component                             |                      | Last    | Now     | Explanation of Condition     |  |  |  |
| (Pipe # : 2, Span Type: Second                | ary Span)            |         |         |                              |  |  |  |
| Direction                                     |                      | W       |         | (Middle pipe)                |  |  |  |
| End Treatment (Concrete, Steel, Others, None) | STEEL                |         |         |                              |  |  |  |
| Headwall                                      |                      | Х       | X       |                              |  |  |  |
| Collar  |                      | Х       | X       |                              |  |  |  |
| Wingwalls                                     |                      | Х       | Х       |                              |  |  |  |
| (Shape: )                                     |                      |         |         |                              |  |  |  |
| Cutoff Wall                                   |                      | Х       | Х       |                              |  |  |  |
| Bevel End                                     |                      | 7       | 6       |                              |  |  |  |
| Heaving (mm)                                  | 50                   |         |         |                              |  |  |  |
| Invert Above/Below Stream Bed                 | BELOW                |         |         |                              |  |  |  |
| Above/Below (mm)                              | 300                  |         |         |                              |  |  |  |
| Scour Protection                              |                      | 6       | 6       |                              |  |  |  |
| (Type : RIP RAP)                              |                      |         |         |                              |  |  |  |
| (Avg. Rock Size(mm) : <b>200</b> )            |                      |         |         |                              |  |  |  |
| Scour/Erosion                                 |                      | 7       | 6       |                              |  |  |  |
| Beavers (Y/N)                                 | No                   |         |         |                              |  |  |  |
| Downstream End General Ratio                  | ng                   | 6       | 6       |                              |  |  |  |
|   |                      |         | Unstre  | am End                       |  |  |  |
| Culvert Component                             |                      | Last    |         | Explanation of Condition     |  |  |  |
| (Pipe # : 3, Span Type: Second                | ary Span)            |         |         |                              |  |  |  |
| Direction                                     | , ,                  | E       |         | (North pipe).                |  |  |  |
| End Treatment (Concrete, Steel, Others, None) | STEEL                | _       |         | (                            |  |  |  |
| Headwall                                      |                      | Х       | Х       |                              |  |  |  |
| Collar  |                      | Х       | X       |                              |  |  |  |

81742 -1 Bridge Culvert

|   | Upstream End        |        |        |  |  |  |  |  |  |  |  |
|---|---------------------|--------|--------|--|--|--|--|--|--|--|--|
| Culvert Component                           |                     | Last   | Now    | Explanation of Condition                           |  |  |  |  |  |  |  |
| (Pipe #: 3, Span Type: Second               | ary Span)           |        |        |  |  |  |  |  |  |  |  |
| Wingwalls                                   |                     | Х      | Х      |  |  |  |  |  |  |  |  |
| (Shape: )                                   |                     |        |        |  |  |  |  |  |  |  |  |
| Cutoff Wall                                 |                     | Х      | X      |  |  |  |  |  |  |  |  |
| Bevel End                                   |                     | 6      | 6      | Plants growing inside bevel.                       |  |  |  |  |  |  |  |
| Heaving (mm)                                | 50                  |        |        |  |  |  |  |  |  |  |  |
| Invert Above/Below Stream Bed               | BELOW               |        |        |  |  |  |  |  |  |  |  |
| Above/Below (mm)                            | 200                 |        |        |  |  |  |  |  |  |  |  |
| Scour Protection                            |                     | 6      | 6      |  |  |  |  |  |  |  |  |
| (Type : RIP RAP)                            |                     |        |        |  |  |  |  |  |  |  |  |
| (Avg. Rock Size(mm) : 200)                  |                     |        |        |  |  |  |  |  |  |  |  |
| Scour/Erosion                               |                     | 6      | 6      |  |  |  |  |  |  |  |  |
| Beavers (Y/N)                               | No                  |        |        |  |  |  |  |  |  |  |  |
| Upstream End General Rating                 |                     | 6      | 6      |  |  |  |  |  |  |  |  |
|   |                     | Deic   | dae Cu | Ivent Daniel                                       |  |  |  |  |  |  |  |
| Culvert Component                           |                     | Last   |        | Explanation of Condition                           |  |  |  |  |  |  |  |
| (Pipe # : 3, Secondary Span, Lo             | cation Code: MAIN 9 |        |        | , Rise (mm): 2000, Type: MP)                       |  |  |  |  |  |  |  |
| Barrel Last Accessible Date                 | 24-Feb-2010         | pan (i |        | North pipe-couldn't access duee, viewed from ends. |  |  |  |  |  |  |  |
|   | 24-1 60-2010        |        |        | North pipe-couldn't access duee, viewed from ends. |  |  |  |  |  |  |  |
| Special Features                            |                     |        | 1      |  |  |  |  |  |  |  |  |
| Special Feature                             |                     |        |        |  |  |  |  |  |  |  |  |
| (Type:)                                     |                     | I      | T      |  |  |  |  |  |  |  |  |
| Special Feature                             |                     |        |        |  |  |  |  |  |  |  |  |
| (Type:)                                     |                     |        | 1      |  |  |  |  |  |  |  |  |
| Roof  | ı                   | 7      | 7      |  |  |  |  |  |  |  |  |
| Measured Rise (mm)                          |                     |        |        |  |  |  |  |  |  |  |  |
| Measured At Ring No.                        |                     |        |        | Floor covered with ice.                            |  |  |  |  |  |  |  |
| Sag (mm)                                    | 30                  |        |        | Est.   |  |  |  |  |  |  |  |
| Percent Sag                                 |                     |        |        |  |  |  |  |  |  |  |  |
| Sidewall                                    |                     | 7      | 7      | @ CL-24-Feb-2010                                   |  |  |  |  |  |  |  |
| Measured Span (mm)                          | 2019                |        |        |  |  |  |  |  |  |  |  |
| Measured At Ring No.                        |                     |        |        |  |  |  |  |  |  |  |  |
| Deflection (mm)                             | 19                  |        |        |  |  |  |  |  |  |  |  |
| Percent Deflection                          | 1                   |        |        |  |  |  |  |  |  |  |  |
| Floor                                       |                     | N      | N      | Ice covered.                                       |  |  |  |  |  |  |  |
| Bulge (mm)                                  |                     |        |        |  |  |  |  |  |  |  |  |
| Measured At Ring No.                        |                     |        |        |  |  |  |  |  |  |  |  |
| Abrasion (Y/N)                              |                     |        |        |  |  |  |  |  |  |  |  |
| Circumferential Seams                       |                     | 7      | 6      |  |  |  |  |  |  |  |  |
| Separation (mm)                             | 50                  |        |        |  |  |  |  |  |  |  |  |
| Longitudinal Seams                          |                     | Х      | X      |  |  |  |  |  |  |  |  |
| Total No. of Cracked Rings                  |                     |        |        |  |  |  |  |  |  |  |  |
| Total No. of Rings with Two Cracked Seams   |                     |        |        |  |  |  |  |  |  |  |  |
| Min. Remaining Steel<br>Between Cracks (mm) |                     |        |        |  |  |  |  |  |  |  |  |
| Proper Lap (Y/N)                            |                     |        |        |  |  |  |  |  |  |  |  |
| Longitudinal Stagger (Y/N)                  |                     |        |        |  |  |  |  |  |  |  |  |

|   |                      | Brid    | dge Cu  | Ivert Barrel                      |
|---|----------------------|---------|---------|-----------------------------------|
| Culvert Component                             |                      | Last    | Now     | Explanation of Condition          |
| (Pipe #: 3, Secondary Span, Lo                | cation Code: MAIN, S | Span (r | nm):    | , Rise (mm): 2000, Type: MP)      |
| Coating                                       |                      | 7       | 6       |                                   |
| Corrosion By Soil (Y/N)                       | No                   |         |         |                                   |
| Corrosion By Water (Y/N)                      | Yes                  |         |         |                                   |
| Camber POS/ZERO/NEG                           | NEG                  |         |         |                                   |
| Ponding (Y/N)                                 | Yes                  |         |         |                                   |
| Fish Passage Adequacy                         |                      | 5       | 7       |                                   |
| Baffle  |                      | N       | Х       |                                   |
| (Type:)                                       |                      |         |         |                                   |
| Waterway Adequacy                             |                      | 8       | 8       |                                   |
| Icing (Y/N)                                   | No                   |         |         |                                   |
| Silting (Y/N)                                 | No                   |         |         |                                   |
| Drift (Y/N)                                   | No                   |         |         |                                   |
| Barrel General Rating                         |                      | 7       | 7       |                                   |
|   |                      | D       | ownstr  | ream End                          |
| Culvert Component                             |                      |         | 1       | Explanation of Condition          |
| (Pipe #: 3, Span Type: Second                 | lary Span)           |         |         |                                   |
| Direction                                     |                      | W       |         | (North pipe).                     |
| End Treatment (Concrete, Steel, Others, None) | STEEL                |         |         |                                   |
| Headwall                                      |                      | Х       | Х       |                                   |
| Collar  |                      | Х       | Х       |                                   |
| Wingwalls                                     |                      | Х       | Х       |                                   |
| (Shape: )                                     |                      |         |         |                                   |
| Cutoff Wall                                   |                      | Х       | Х       |                                   |
| Bevel End                                     |                      | 7       | 6       | minor dent on West side of bevel. |
| Heaving (mm)                                  | 50                   |         |         |                                   |
| Invert Above/Below Stream Bed                 | BELOW                |         |         |                                   |
| Above/Below (mm)                              | 300                  |         |         |                                   |
| Scour Protection                              |                      | 6       | 6       |                                   |
| (Type : RIP RAP)                              |                      |         |         |                                   |
| (Avg. Rock Size(mm) : 200)                    |                      |         |         |                                   |
| Scour/Erosion                                 |                      | 7       | 6       |                                   |
| Beavers (Y/N)                                 | No                   |         |         |                                   |
| Downstream End General Ratin                  | ng                   | 6       | 6       |                                   |
|   |                      |         | Structu | re Usage                          |
|   |                      |         | Now     | Explanation of Condition          |
| Channel (U/S and D/S)                         |                      |         |         |                                   |
| Alignment                                     |                      | 7       | 7       | Man made channel.                 |
| Bank Stability                                |                      | 7       | 7       |                                   |
| - arm oranity                                 |                      |         |         |                                   |
| HWM (m below Top of Culvert)                  |                      |         |         | HWM not visible.                  |
| Drift (Y/N)                                   | No                   |         |         |                                   |

| Structure Usage                       |           |      |     |                          |  |  |  |  |
|---------------------------------------|-----------|------|-----|--------------------------|--|--|--|--|
|                                       |           | Last | Now | Explanation of Condition |  |  |  |  |
| Channel Bottom<br>Degrading/Aggrading | DEGRADING |      |     | stable                   |  |  |  |  |
| Beavers (Y/N)                         | No        |      |     |                          |  |  |  |  |
| (Fish Compensation Measure 1 :        | NONE)     |      |     |                          |  |  |  |  |
| (Fish Compensation Measure 2 :        | NONE)     |      |     |                          |  |  |  |  |
| Channel General Rating                |           |      | 7   |                          |  |  |  |  |
|                                       |           |      |     |                          |  |  |  |  |

|  |          |           |          | Maintenance                     | e Recommend | dations                                 |               |               |                |           |       |
|--|----------|-----------|----------|---------------------------------|-------------|---|---------------|---------------|----------------|-----------|-------|
| Inspector Recommendations                  |          | Year      | Inspecto | r Comments                      |             | Department Com                          | ments         |               | Target Year    | Est. Cost | Cat # |
| SHOTCRETE REPAIRS                          |          |           |          |                                 |             |   |               |               |                |           |       |
| PLACE ADDITIONAL RIP RAP                   |          |           |          |                                 |             |   |               |               |                |           |       |
| REMOVE DRIFT ACCUMULATION                  |          |           |          |                                 |             |   |               |               |                |           |       |
| INSTALL CONCRETE/STEEL LINING              |          |           |          |                                 |             |   |               |               |                |           |       |
| INSTALL STRUTS                             |          |           |          |                                 |             |   |               |               |                |           |       |
| INSTALL CONCRETE COLLAR/CUTC               | )FF      |           |          |                                 |             |   |               |               |                |           |       |
| REPAIR SEAMS                               |          |           |          |                                 |             |   |               |               |                |           |       |
| OTHER ACTION                               |          |           |          |                                 |             |   |               |               |                |           |       |
| OTHER ACTION                               |          |           |          |                                 |             |   |               |               |                |           |       |
| OTHER ACTION                               |          |           |          |                                 |             |   |               |               |                |           |       |
| OTHER ACTION                               |          |           |          |                                 |             |   |               |               |                |           |       |
| Structural Condition Rating (Last/Now) (%) |          | 77.8/77.8 |          | Sufficiency Rating (Last/No (%) |             | 77.8/77.8                               | Est. Repl. Yr | 2041 Maint. R |                | qd. (Y/N) | No    |
| Special<br>Comments for<br>Next Inspection |          |           |          |                                 |             | Department<br>Comments                  |               |               |                |           |       |
| Maintenance Reviewed By                    |          |           |          |                                 |             | Date                                    |               | E             | Estimated Tota | I 0       |       |
| Proposed Long-Term Strategy                |          |           |          |                                 |             |   |               |               |                |           |       |
| On 3-Year Program (Y/N)                    |          |           |          |                                 |             |   |               |               |                |           |       |
| Proposed Action                            |          |           |          |                                 |             |   |               |               |                |           |       |
| Previous Inspector's Name                  | Brian Pi | ientsch   |          |                                 | Previous    | revious Assistant's Name Lisbeth Medina |               |               |                |           |       |
| Next Inspection Date                       | 10-Aug-  | -2013     |          |                                 | Previous    | us Inspection Date 24-Feb-2010          |               |               |                |           |       |
| Inspection Cycle (Default) (months)        | 21       |           |          |                                 |             |   |               |               |                |           |       |
| Comment                                    |          |           |          |                                 |             |   |               |               |                |           |       |