|                                |          |                                       |                                |                   | Bridg      | e Culve       | ert Inspe                              | ction                  |                 |               |                       |           |
|--------------------------------|----------|---------------------------------------|--------------------------------|-------------------|------------|---------------|--|------------------------|-----------------|---------------|-----------------------|-----------|
| Bridge File Nun                | nber     | 01484 -                               | 1 Bridge Culver                | t                 |            |               | Form I                                 | уре                    |                 | CULE          |                       |           |
| Year Built                     |          | 1952                                  |                                |                   |            |               | Lot No.                                |                        |                 | 2             |                       |           |
| Bridge or Town                 | Name     | IRVINE                                |                                |                   |            |               | Inspect                                | or Name                |                 | Tom Carey     |                       |           |
| Located Over                   |          | 2ND OR<br>CREEK                       | (DER TRIBUTA<br>, 28.2.2, WATE | RY TO M<br>RCRS-S | ЛАСКА<br>Т | ΑY            | Inspect                                | or Class               |                 | BR CLS A      |                       |           |
| Located On                     |          | 1:22 R1                               | 33.431;1:22 L1                 | 33.425            |            |               | Assistant Name                         |                        |                 |               |                       |           |
| Water Body Cl.                 | /Year    |                                       |                                |                   |            |               | Inspect                                | ion Date               |                 | 08-Eeb-2012   |                       |           |
| Navigabil. Cl./Y               | 'ear     |                                       |                                |                   |            | Data Entry By |  |                        |                 | Lauren Korte  |                       |           |
| Legal Land Loc                 | ation    | NE SEC                                | 27 TWP 11 R                    | GE 2 W4           | Μ          |               | - Data Entry By                        |                        |                 | 22-Mar-2012   |                       |           |
| Longitude, Latit               | tude     | -110:11:37, 49:56:35                  |                                |                   |            |               | Review                                 | er Name                |                 | Garry Roberts |                       |           |
| Road Authority                 |          | Alberta Transportation (AIT)          |                                |                   |            |               | Review                                 | Date                   |                 | 26-Feb-2012   |                       |           |
| Contract Main.                 | Area     | CMA23                                 |                                |                   |            |               | Dept. R                                | eviewer N              | Name            | Tim Davies    |                       |           |
| Clear Roadway                  | /Skew    | w 26/                                 |                                |                   |            |               | Dept. R                                | eview Da               | ate             | 29-Mar-2012   |                       |           |
| AADT/Year                      |          | 5,160 / 2                             | 2011 (A)                       |                   |            |               | Follow-                                | Uр Ву                  |                 |               |                       |           |
| Road Classifica                | ation    | RAD-41                                | 2.4-120                        |                   |            |               | -                                      |                        |                 |               |                       |           |
| Detour Length (                | (km)     | 1                                     |                                |                   |            |               |  |                        |                 |               |                       |           |
| Bridge Culvert                 | Inform   | ation                                 |                                |                   |            |               |  |                        |                 |               |                       |           |
| Number of Culv                 | /erts    | · · · · · · · · · · · · · · · · · · · | 1                              | <b>—</b> (        | <u> </u>   | _             |  |                        |                 |               |                       |           |
| Pipe #                         | Barrel   |                                       | Span                           | Rise (or          | Dia.)      | Туре          |  | Length                 |                 | Corr. Profile | PI./Slab<br>Thickness | Shape     |
| 1                              | U/S      |                                       | 8000                           | 2000              |            | MP            |  | 46                     |                 | 75X25         | 2.8                   | ROUND     |
| 1                              | MAIN     |                                       | 8000                           | 2000              |            | BP            |  | 63                     |                 |               |                       | RECTANGLE |
| Special Feature                | es       |                                       |                                |                   |            |               |  |                        |                 |               |                       |           |
| Special Feature                | es Comr  | nent                                  |                                |                   |            |               |  |                        |                 |               |                       |           |
|                                |          |                                       |                                |                   | 114        |               |  | - 4)                   |                 |               |                       |           |
| Utility Attachme               | ents     |                                       |                                |                   | 01         | incies (L     |  | al)                    |                 |               |                       |           |
| Telephone                      | South    | R/W.                                  |                                |                   |            |               | Gas                                    |                        |                 |               |                       |           |
| Power                          |          |                                       |                                |                   |            |               | Municip                                | Municipal              |                 |               |                       |           |
| Others                         |          |                                       |                                |                   |            |               | Problem (Y/N) No                       |                        |                 |               |                       |           |
| Remarks                        |          |                                       |                                |                   |            |               |  |                        |                 |               |                       |           |
|                                |          |                                       |                                | A                 | pproa      | ch Road       | d / Emba                               | nkment                 |                 |               |                       |           |
|                                |          |                                       |                                |                   | Last       | Now           | Explan                                 | ation of 0             | Condi           | tion          |                       |           |
| Horizontal Align               | nment    |                                       |                                |                   | 8          | 8             | 600 me                                 | dian drair             | n 60 m          | i West.       |                       |           |
| Vertical Alignme               | ent      |                                       | -                              |                   | 8          | 8             |  |                        |                 |               |                       |           |
| Roadway Width                  | ר (m)    |                                       | 26.000                         |                   |            |               |  |                        |                 |               |                       |           |
| Embankment                     |          |                                       |                                |                   | 6          | 6             |  |                        |                 |               |                       |           |
| Sideslope (                    | _:1)     |                                       | 3.5                            |                   |            |               |  |                        |                 |               |                       |           |
| (Height of Co                  | ver(m) : | <b>0.8</b> )                          |                                |                   |            |               |  |                        |                 |               |                       |           |
| Guardrail (Y/N)                |          |                                       | Yes                            |                   |            |               | Flare end damaged @ West @ North side. |                        |                 |               |                       |           |
| Approach Roa                   | id / Emb | ankmer                                | nt General Rati                | ing               | 7          | 8             |  |                        |                 |               |                       |           |
|                                |          |                                       |                                | -                 |            |               |  |                        |                 |               |                       |           |
| Culvert Comp                   | onont    |                                       |                                |                   | Last       | Now           | Explan                                 | ation of (             | Condi           | tion          |                       |           |
| Direction                      | onent    |                                       |                                |                   | S          |               | South                                  |                        | Sonui           |               |                       |           |
| End Treatment<br>Others, None) | (Concre  | ete, Steel                            | I, CONCRETE                    |                   | 0          |               | 4 CSP.                                 |                        |                 |               |                       |           |
| Headwall                       |          |                                       |                                |                   | Х          | X             |  |                        |                 |               |                       |           |
| Collar                         |          |                                       |                                |                   | 7          | 6             | Concre<br>Cracke                       | te betwee<br>d @ top @ | en the<br>@ Eas | pipes.<br>t.  |                       |           |
| Wingwalls                      |          |                                       |                                |                   | Х          | X             |  |                        |                 |               |                       |           |
| (Shape : )                     |          |                                       |                                |                   |            |               |  |                        |                 |               |                       |           |

|                                       |                      |       | Upstre  | am End   |
|---------------------------------------|----------------------|-------|---------|--|
| Culvert Component                     |                      | Last  | Now     | Explanation of Condition                           |
| Cutoff Wall                           |                      | Х     | X       |  |
| Bevel End                             |                      | 4     | 7       |  |
| Heaving (mm)                          | 0                    |       |         |  |
| Invert Above/Below Stream Bed         |                      |       |         | At streambed.                                      |
| Above/Below (mm)                      |                      |       |         |  |
| Scour Protection                      |                      | 7     | 7       |  |
| (Type : <b>RIP RAP</b> )              |                      |       |         |  |
| (Avg. Rock Size(mm) : 300)            |                      |       |         |  |
| Scour/Erosion                         |                      | 7     | 7       |  |
| Beavers (Y/N)                         | No                   |       |         |  |
| Upstream End General Rating           |                      | 4     | 6       |  |
|                                       |                      | Brie  | dge Cu  | lvert Barrel                                       |
| Culvert Component                     |                      | Last  | Now     | Explanation of Condition                           |
| (Pipe # : 1, Primary Span, Loca       | tion Code: U/S, Span | (mm): | 2000, 1 | Rise (mm): 2000, Type: MP, Cell Sequence: 1)       |
| Barrel Last Accessible Date           | 08-Feb-2012          |       |         | West Pipe.<br>Steel.                               |
| Special Features                      |                      |       |         |  |
| Special Feature                       |                      |       |         |  |
| (Type : )                             |                      |       |         |  |
| Special Feature                       |                      |       |         |  |
| (Туре : )                             |                      |       |         |  |
| Roof                                  |                      | 7     | 7       |  |
| Measured Rise (mm)                    | 2000                 |       |         |  |
| Measured At Ring No.                  | 3                    |       |         |  |
| Sag (mm)                              | 0                    |       |         |  |
| Percent Sag                           | 0                    |       |         |  |
| Sidewall                              |                      | 7     | 7       | Inward.  |
| Measured Span (mm)                    | 1988                 |       |         |  |
| Measured At Ring No.                  | 3                    |       |         |  |
| Deflection (mm)                       | 12                   |       |         |  |
| Percent Deflection                    | 1                    |       |         |  |
| Floor                                 |                      | 5     | 5       | Floor has abraision at bevel end.                  |
| Bulge (mm)                            | 0                    |       |         |  |
| Measured At Ring No.                  |                      |       |         | 1  |
| Abrasion (Y/N)                        | Yes                  |       |         | 1  |
| Circumferential Seams                 |                      | 7     | 7       |  |
| Separation (mm)                       | 20                   |       | -1      |  |
| Longitudinal Seams                    |                      | X     | X       |  |
| Total No. of Cracked Rings            | 0                    |       |         |  |
| Total No. of Rings with Two           | 0                    |       |         | 1  |
| Cracked Seams<br>Min. Remaining Steel |                      |       |         |  |
| Between Cracks (mm)                   |                      |       |         |  |
| Proper Lap (Y/N)                      |                      |       |         | -  |
| Longitudinal Stagger (Y/N)            |                      |       | -       |  |
| Coating                               |                      | 7     | 5       | Superficial corrosion @ South end @ roof exterior. |
| Corrosion By Soil (Y/N)               | No                   |       |         | -  |
| Corrosion By Water (Y/N)              | Yes                  |       |         |  |
| Camber POS/ZERO/NEG                   | ZERO                 |       |         |  |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Brid    | dge Cu  | Ivert Barrel   |
|--|----------------------|---------|---------|--|
| Culvert Component                            |                      | Last    | Now     | Explanation of Condition   |
| (Pipe # : 1, Primary Span, Loca              | tion Code: U/S, Span | (mm):   | 2000, F | Rise (mm): 2000, Type: MP, Cell Sequence: 1)                           |
| Ponding (Y/N)                                | No                   |         |         |  |
| Fish Passage Adequacy                        |                      | Х       | X       |  |
| Baffle                                       |                      | Х       | Х       |  |
| (Туре : )                                    |                      |         |         |  |
| Waterway Adequacy                            |                      | 7       | 7       |  |
| Icing (Y/N)                                  | No                   |         |         |  |
| Silting (Y/N)                                | No                   |         |         |  |
| Drift (Y/N)                                  | No                   |         |         |  |
| Barrel Extension General Ratin               | Ig                   | 7       | 7       |  |
|  |                      | Duit    |         |  |
| Culvert Compensat                            |                      | Brid    |         | Explanation of Condition   |
| (Pine # · 1 Primary Span Locat               | tion Code: U/S. Span | (mm)    | 2000    | Explanation of Condition<br>Rise (mm): 2000 Type: MP Cell Sequence: 2) |
| Barrel Last Accossible Date                  | 08-Eeb-2011          | (init). | 2000, 1 | 2nd nine from West   |
|  |                      |         |         |  |
| Special Features                             |                      |         |         |  |
| Special Feature                              |                      |         |         |  |
| (Type : )                                    |                      |         |         |  |
| Special Feature                              |                      |         |         |  |
| (Туре : )                                    |                      |         |         |  |
| Roof   |                      | 7       | 7       |  |
| Measured Rise (mm)                           | 2010                 |         |         |  |
| Measured At Ring No.                         | 3                    |         |         |  |
| Sag (mm)                                     | 10                   |         |         |  |
| Percent Sag                                  | 1                    |         |         |  |
| Sidewall                                     |                      | 7       | 7       | Inward.  |
| Measured Span (mm)                           | 1950                 |         |         |  |
| Measured At Ring No.                         | 3                    |         |         |  |
| Deflection (mm)                              | 50                   |         |         | -  |
| Percent Deflection                           | 2                    |         |         |  |
| Floor  |                      | 5       | 5       | Abrasion at bevel end.   |
| Bulge (mm)                                   | 0                    |         |         | -  |
| Measured At Ring No.                         |                      |         |         | -  |
| Abrasion (Y/N)                               | Yes                  |         |         |  |
| Circumferential Seams                        | I                    | 7       | 7       |  |
| Separation (mm)                              | 30                   |         | _       |  |
| Longitudinal Seams                           |                      | Х       | Х       | -  |
| Total No. of Cracked Rings                   |                      |         |         | -  |
| Total No. of Rings with Two<br>Cracked Seams |                      |         |         | -  |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |         |         |  |
| Proper Lap (Y/N)                             |                      |         |         | -  |
| Longitudinal Stagger (Y/N)                   |                      |         | _       |  |
| Coating                                      |                      | 5       | 5       | Scaling @ South end @ roof exterior.                                   |
| Corrosion By Soil (Y/N)                      | No                   |         |         |  |
| Corrosion By Water (Y/N)                     | Yes                  |         |         |  |
| Camber POS/ZERO/NEG                          | ZERO                 |         |         |  |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Brio         | dge Cu  | lvert Barrel  |
|--|----------------------|--------------|---------|---|
| Culvert Component                            |                      | Last         | Now     | Explanation of Condition                                    |
| (Pipe # : 1, Primary Span, Loca              | tion Code: U/S, Span | <u>(mm):</u> | 2000, F | Rise (mm): 2000, Type: MP, Cell Sequence: 2)                |
| Ponding (Y/N)                                | No                   |              |         |   |
| Fish Passage Adequacy                        |                      | Х            | X       |   |
| Baffle                                       |                      | Х            | Х       |   |
| (Type:)                                      |                      |              |         |   |
| Waterway Adequacy                            |                      | 8            | 8       |   |
| Icing (Y/N)                                  | No                   |              |         |   |
| Silting (Y/N)                                | No                   |              |         |   |
| Drift (Y/N)                                  | No                   |              |         |   |
| Barrel Extension General Ratin               | g                    | 7            | 7       |   |
|  |                      | Brio         | dge Cu  | lvert Barrel  |
| Culvert Component                            |                      | Last         | Now     | Explanation of Condition                                    |
| (Pipe # : 1, Primary Span, Loca              | tion Code: U/S, Span | (mm):        | 2000, F | Rise (mm): 2000, Type: MP, Cell Sequence: 3)                |
| Barrel Last Accessible Date                  | 08-Feb-2011          |              |         | 3rd from West.  |
| Special Features                             |                      |              | 1       |   |
| Special Feature                              |                      |              |         |   |
| (Туре : )                                    |                      |              |         |   |
| Special Feature                              |                      |              |         |   |
| (Туре : )                                    |                      |              |         |   |
| Roof   |                      | 7            | 7       | Perforation not taken to consideration due outside of fill. |
| Measured Rise (mm)                           | 2015                 |              |         |   |
| Measured At Ring No.                         | 2                    |              |         | -   |
| Sag (mm)                                     | 15                   |              |         | -   |
| Percent Sag                                  | 1                    |              |         |   |
| Sidewall                                     |                      | 7            | 7       | Inward.   |
| Measured Span (mm)                           | 1950                 |              |         | -   |
| Measured At Ring No.                         | 2                    |              |         | -   |
| Deflection (mm)                              | 50                   |              |         | -   |
| Percent Deflection                           | 2                    |              |         |   |
| Floor  | I                    | 5            | 5       | Abrasion at bevel.  |
| Bulge (mm)                                   | 0                    |              |         | -   |
| Measured At Ring No.                         |                      |              |         | -   |
| Abrasion (Y/N)                               | Yes                  |              |         |   |
| Circumferential Seams                        |                      | 7            | 7       |   |
| Separation (mm)                              | 30                   |              |         |   |
| Longitudinal Seams                           |                      | Х            | X       |   |
| Total No. of Cracked Rings                   |                      |              |         |   |
| Total No. of Rings with Two<br>Cracked Seams |                      |              |         | -   |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |              |         |   |
| Proper Lap (Y/N)                             |                      |              |         |   |
| Longitudinal Stagger (Y/N)                   |                      |              | _       |   |
| Coating                                      |                      | 5            | 3       | Superficial corrosion at bevel end.                         |
| Corrosion By Soil (Y/N)                      | No                   |              |         | Other than @ end of barrel coating is "7".                  |
| Corrosion By Water (Y/N)                     | Yes                  |              |         |   |
| Camber POS/ZERO/NEG                          | ZERO                 |              |         |   |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Brio  | dge Cu  | Ivert Barrel  |
|--|----------------------|-------|---------|---|
| Culvert Component                            |                      | Last  | Now     | Explanation of Condition  |
| (Pipe # : 1, Primary Span, Loca              | tion Code: U/S, Span | (mm): | 2000, F | Rise (mm): 2000, Type: MP, Cell Sequence: 3)                      |
| Ponding (Y/N)                                | No                   |       |         |   |
| Fish Passage Adequacy                        |                      | Х     | X       |   |
| Baffle                                       |                      | Х     | Х       |   |
| (Туре:)                                      |                      |       |         |   |
| Waterway Adequacy                            |                      | 8     | 8       |   |
| Icing (Y/N)                                  | No                   |       |         |   |
| Silting (Y/N)                                | No                   |       |         |   |
| Drift (Y/N)                                  | No                   |       |         |   |
| Barrel Extension General Ratin               | ıg                   | 7     | 7       |   |
|  |                      | Brid  | dge Cu  | lvert Barrel  |
| Culvert Component                            |                      | Last  | Now     | Explanation of Condition  |
| (Pipe # : 1, Primary Span, Loca              | tion Code: U/S, Span | (mm): | 2000, F | Rise (mm): 2000, Type: MP, Cell Sequence: 4)                      |
| Barrel Last Accessible Date                  | 08-Feb-2012          |       |         | East pipe.  |
| Special Features                             |                      |       |         |   |
| Special Feature                              |                      |       |         |   |
| (Type : )                                    |                      |       | _       |   |
| Special Feature                              |                      |       |         |   |
| (Туре : )                                    |                      |       |         |   |
| Roof   |                      | 7     | 7       | Perforations not taken into consideration due to outside of fill. |
| Measured Rise (mm)                           | 2020                 |       |         |   |
| Measured At Ring No.                         | 2                    |       |         |   |
| Sag (mm)                                     | 20                   |       |         |   |
| Percent Sag                                  | 1                    |       |         |   |
| Sidewall                                     |                      | 7     | 7       |   |
| Measured Span (mm)                           | 1970                 |       |         |   |
| Measured At Ring No.                         | 2                    |       |         |   |
| Deflection (mm)                              | 30                   |       |         |   |
| Percent Deflection                           | 1                    |       |         |   |
| Floor  |                      | 7     | 7       | Abrasion at bevel end.  |
| Bulge (mm)                                   | 0                    |       |         | -   |
| Measured At Ring No.                         |                      |       |         | -   |
| Abrasion (Y/N)                               | Yes                  |       | _       |   |
| Circumferential Seams                        | I                    | 7     | 7       | -   |
| Separation (mm)                              | 30                   |       |         |   |
| Longitudinal Seams                           | I                    | Х     | X       | -   |
| Total No. of Cracked Rings                   |                      |       |         | -   |
| Total No. of Rings with Two<br>Cracked Seams |                      |       |         |   |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |       |         |   |
| Proper Lap (Y/N)                             |                      |       |         |   |
| Longitudinal Stagger (Y/N)                   |                      |       |         |   |
| Coating                                      |                      | 7     | 3       | Scaled and perforations starting @ roof exterior @ South end-     |
| Corrosion By Soil (Y/N)                      | No                   |       |         | outside fill other than barrel coating is "7".                    |
| Corrosion By Water (Y/N)                     | Yes                  |       |         |   |
| Camber POS/ZERO/NEG                          | ZERO                 |       |         |   |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Brid         | dge Cu  | lvert Barrel                                   |
|--|----------------------|--------------|---------|--|
| Culvert Component                            |                      | Last         | Now     | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: U/S, Span | <u>(mm):</u> | 2000, F | Rise (mm): 2000, Type: MP, Cell Sequence: 4)   |
| Ponding (Y/N)                                | No                   |              |         |  |
| Fish Passage Adequacy                        |                      | X            | X       |  |
| Baffle                                       |                      | Х            | Х       |  |
| (Туре:)                                      |                      |              |         |  |
| Waterway Adequacy                            |                      | 8            | 8       |  |
| Icing (Y/N)                                  | No                   |              |         |  |
| Silting (Y/N)                                | No                   |              |         |  |
| Drift (Y/N)                                  | No                   |              |         |  |
| Barrel Extension General Ratin               | g                    | 7            | 7       |  |
|  |                      | Bric         | dge Cul | lvert Barrel                                   |
| Culvert Component                            |                      | Last         | Now     | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Spa | n (mm        | ): 2000 | , Rise (mm): 2000, Type: BP, Cell Sequence: 1) |
| Barrel Last Accessible Date                  | 08-Feb-2011          |              |         | West Pipe.<br>Concrete.                        |
| Special Features                             |                      |              |         |  |
| Special Feature                              |                      |              |         |  |
| (Type : )                                    |                      |              |         |  |
| Special Feature                              |                      |              |         |  |
| (Туре : )                                    |                      |              |         |  |
| Roof   |                      | 6            | 6       |  |
| Measured Rise (mm)                           | 2000                 |              |         |  |
| Measured At Ring No.                         |                      |              |         |  |
| Sag (mm)                                     |                      |              |         |  |
| Percent Sag                                  |                      |              |         |  |
| Sidewall                                     |                      | 6            | 6       |  |
| Measured Span (mm)                           | 2000                 |              |         |  |
| Measured At Ring No.                         |                      |              |         |  |
| Deflection (mm)                              |                      |              |         |  |
| Percent Deflection                           |                      |              |         |  |
| Floor  |                      | 5            | 5       | Floor has abrasion - some section loss.        |
| Bulge (mm)                                   |                      |              |         | Heavy scaling.                                 |
| Measured At Ring No.                         |                      |              |         |  |
| Abrasion (Y/N)                               | Yes                  |              | 1       |  |
| Circumferential Seams                        |                      | Х            | X       |  |
| Separation (mm)                              |                      |              |         |  |
| Longitudinal Seams                           |                      | Х            | X       |  |
| Total No. of Cracked Rings                   |                      |              |         | -  |
| Total No. of Rings with Two<br>Cracked Seams |                      |              |         |  |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |              |         |  |
| Proper Lap (Y/N)                             |                      |              |         |  |
| Longitudinal Stagger (Y/N)                   |                      |              |         |  |
| Coating                                      |                      | Х            | X       |  |
| Corrosion By Soil (Y/N)                      |                      |              |         |  |
| Corrosion By Water (Y/N)                     |                      |              |         |  |
| Camber POS/ZERO/NEG                          | ZERO                 |              |         |  |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Bric  | dge Cu  | vert Barrel                                    |
|--|----------------------|-------|---------|--|
| Culvert Component                            |                      | Last  | Now     | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Spa | n (mm | ): 2000 | , Rise (mm): 2000, Type: BP, Cell Sequence: 1) |
| Ponding (Y/N)                                | No                   |       |         |  |
| Fish Passage Adequacy                        |                      | Х     | X       |  |
| Baffle                                       |                      | Х     | Х       |  |
| (Type : )                                    |                      |       |         |  |
| Waterway Adequacy                            |                      | 7     | 7       |  |
| Icing (Y/N)                                  | No                   |       |         |  |
| Silting (Y/N)                                | No                   |       |         |  |
| Drift (Y/N)                                  | No                   |       |         |  |
| Barrel General Rating                        |                      | 6     | 6       |  |
|  |                      | Brid  |         | vert Barrel                                    |
| Culvert Component                            |                      | Last  | Now     | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Spa | n (mm | ): 2000 | Rise (mm): 2000, Type: BP. Cell Sequence: 2)   |
| Barrel Last Accessible Date                  | 08-Feb-2012          |       | ,       | 2nd pipe from West.                            |
|  |                      |       |         |  |
| Special Features                             |                      |       |         |  |
| Special Feature                              |                      |       |         |  |
| (Type : )                                    |                      |       | -       |  |
| Special Feature                              |                      |       |         |  |
| (Type:)                                      |                      |       |         |  |
| Roof   |                      | 6     | 5       | Isolated spalling @ North.                     |
| Measured Rise (mm)                           | 2000                 |       |         |  |
| Measured At Ring No.                         |                      |       |         |  |
| Sag (mm)                                     |                      |       |         |  |
| Percent Sag                                  |                      |       |         |  |
| Sidewall                                     |                      | 6     | 6       |  |
| Measured Span (mm)                           | 2000                 |       |         |  |
| Measured At Ring No.                         |                      |       |         |  |
| Deflection (mm)                              |                      |       |         |  |
| Percent Deflection                           |                      |       | -       |  |
| Floor  |                      | 5     | 5       | Medium scaling.                                |
| Bulge (mm)                                   |                      |       |         |  |
| Measured At Ring No.                         |                      |       |         |  |
| Abrasion (Y/N)                               | Yes                  |       | 1       |  |
| Circumferential Seams                        | I                    | Х     | X       |  |
| Separation (mm)                              |                      |       |         |  |
| Longitudinal Seams                           | I                    | Х     | X       |  |
| Total No. of Cracked Rings                   |                      |       |         |  |
| Total No. of Rings with Two<br>Cracked Seams |                      |       |         |  |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |       |         |  |
| Proper Lap (Y/N)                             |                      |       |         |  |
| Longitudinal Stagger (Y/N)                   |                      |       |         |  |
| Coating                                      |                      | Х     | X       |  |
| Corrosion By Soil (Y/N)                      |                      |       |         |  |
| Corrosion By Water (Y/N)                     |                      |       |         |  |
| Camber POS/ZERO/NEG                          | ZERO                 |       |         |  |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Bric  | dge Cu  | vert Barrel                                    |
|--|----------------------|-------|---------|--|
| Culvert Component                            |                      | Last  | Now     | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Spa | n (mm | ): 2000 | , Rise (mm): 2000, Type: BP, Cell Sequence: 2) |
| Ponding (Y/N)                                | No                   |       |         |  |
| Fish Passage Adequacy                        |                      | Х     | X       |  |
| Baffle                                       |                      | Х     | Х       |  |
| (Type : )                                    |                      |       |         |  |
| Waterway Adequacy                            |                      | 8     | 8       |  |
| Icing (Y/N)                                  | No                   |       |         |  |
| Silting (Y/N)                                | No                   |       |         |  |
| Drift (Y/N)                                  | No                   |       |         |  |
| Barrel General Rating                        |                      | 6     | 5       |  |
|  |                      | Brid  |         | vert Barrol                                    |
| Culvert Component                            |                      | Last  | Now     | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Spa | n (mm | ): 2000 | Rise (mm): 2000, Type: BP. Cell Sequence: 3)   |
| Barrel Last Accessible Date                  | 08-Feb-2012          |       | ,       | 3rd from West.                                 |
|  |                      |       |         |  |
| Special Features                             |                      |       |         |  |
| Special Feature                              |                      |       |         |  |
| (Type : )                                    |                      |       | -       |  |
| Special Feature                              |                      |       |         |  |
| (Туре : )                                    |                      |       |         |  |
| Roof   |                      | 6     | 5       | Isolated spalling @ North.                     |
| Measured Rise (mm)                           | 2000                 |       |         |  |
| Measured At Ring No.                         |                      |       |         |  |
| Sag (mm)                                     |                      |       |         |  |
| Percent Sag                                  |                      |       |         |  |
| Sidewall                                     |                      | 6     | 6       |  |
| Measured Span (mm)                           | 2000                 |       |         |  |
| Measured At Ring No.                         |                      |       |         |  |
| Deflection (mm)                              |                      |       |         |  |
| Percent Deflection                           |                      |       |         |  |
| Floor  |                      | 5     | 5       | Medium scaling.                                |
| Bulge (mm)                                   | 0                    |       |         |  |
| Measured At Ring No.                         |                      |       |         |  |
| Abrasion (Y/N)                               | Yes                  |       |         |  |
| Circumferential Seams                        |                      | Х     | X       |  |
| Separation (mm)                              |                      |       |         |  |
| Longitudinal Seams                           |                      | Х     | X       |  |
| Total No. of Cracked Rings                   |                      |       |         |  |
| Total No. of Rings with Two<br>Cracked Seams |                      |       |         |  |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |       |         |  |
| Proper Lap (Y/N)                             |                      |       |         |  |
| Longitudinal Stagger (Y/N)                   |                      |       |         |  |
| Coating                                      |                      | Х     | X       |  |
| Corrosion By Soil (Y/N)                      |                      |       |         |  |
| Corrosion By Water (Y/N)                     |                      |       |         |  |
| Camber POS/ZERO/NEG                          | ZERO                 |       |         |  |

Bridge Inspection & Maintenance System (Web 2005)

|  |                      | Bric          | lge Cul       | vert Barrel                                    |
|--|----------------------|---------------|---------------|--|
| Culvert Component                            |                      | Last          | Now           | Explanation of Condition                       |
| (Pipe # : 1, Primary Span, Loca              | tion Code: MAIN, Spa | n (mm         | ): 2000       | , Rise (mm): 2000, Type: BP, Cell Sequence: 3) |
| Ponding (Y/N)                                | No                   |               |               |  |
| Fish Passage Adequacy                        |                      | Х             | X             |  |
| Baffle                                       |                      | Х             | Х             |  |
| (Type:)                                      |                      |               |               |  |
| Waterway Adequacy                            |                      | 8             | 8             |  |
| Icing (Y/N)                                  | No                   |               |               |  |
| Silting (Y/N)                                | No                   |               |               |  |
| Drift (Y/N)                                  | No                   |               |               |  |
| Barrel General Rating                        |                      | 6             | 5             |  |
| , , , , , , , , , , , , , , , , , , ,        |                      |               |               |  |
| Culvert Component                            |                      | Last          |               | Explanation of Condition                       |
| (Pine # · 1 Primary Span Loca                | tion Code: MAIN Spa  | Lasi<br>n (mm | )· 2000       |  |
| Barrel Last Accessible Date                  | 08-Ech 2012          | (mm           | <i>.</i> 2000 | Fact nine                                      |
|  | 00-Feb-2012          |               |               |  |
| Special Features                             |                      |               |               |  |
| Special Feature                              |                      |               |               |  |
| (Type : )                                    |                      |               |               |  |
| Special Feature                              |                      |               |               |  |
| (Туре : )                                    |                      |               |               |  |
| Roof   |                      | 6             | 6             |  |
| Measured Rise (mm)                           | 2000                 |               |               |  |
| Measured At Ring No.                         |                      |               |               |  |
| Sag (mm)                                     |                      |               |               |  |
| Percent Sag                                  |                      |               |               |  |
| Sidewall                                     |                      | 6             | 6             |  |
| Measured Span (mm)                           | 2000                 |               |               |  |
| Measured At Ring No.                         |                      |               |               |  |
| Deflection (mm)                              |                      |               |               |  |
| Percent Deflection                           |                      |               |               |  |
| Floor  |                      | 5             | 5             |  |
| Bulge (mm)                                   | 0                    |               |               |  |
| Measured At Ring No.                         |                      |               |               |  |
| Abrasion (Y/N)                               | Yes                  |               |               |  |
| Circumferential Seams                        |                      | Х             | X             |  |
| Separation (mm)                              |                      |               |               |  |
| Longitudinal Seams                           | 1                    | Х             | X             |  |
| Total No. of Cracked Rings                   |                      |               |               |  |
| Total No. of Rings with Two<br>Cracked Seams |                      |               |               |  |
| Min. Remaining Steel<br>Between Cracks (mm)  |                      |               |               |  |
| Proper Lap (Y/N)                             |                      |               |               |  |
| Longitudinal Stagger (Y/N)                   |                      |               |               |  |
| Coating                                      |                      | Х             | Х             |  |
| Corrosion By Soil (Y/N)                      |                      |               |               |  |
| Corrosion By Water (Y/N)                     |                      |               |               |  |
| Camber POS/ZERO/NEG                          | ZERO                 |               |               |  |

Bridge Inspection & Maintenance System (Web 2005)

|   |                      | Brid  | dge Cu   | lvert Barrel   |
|---|----------------------|-------|----------|--|
| Culvert Component                             |                      | Last  | Now      | Explanation of Condition   |
| (Pipe # : 1, Primary Span, Loca               | tion Code: MAIN, Spa | n (mm | ): 2000  | , Rise (mm): 2000, Type: BP, Cell Sequence: 4)   |
| Ponding (Y/N)                                 | No                   |       |          |  |
| Fish Passage Adequacy                         |                      | Х     | Х        |  |
| Baffle  |                      | Х     | Х        |  |
| (Type : )                                     |                      |       |          |  |
| Waterway Adequacy                             |                      | 8     | 8        |  |
| Icing (Y/N)                                   | No                   |       |          |  |
| Silting (Y/N)                                 | No                   |       |          |  |
| Drift (Y/N)                                   | No                   |       |          |  |
| Barrel General Rating                         |                      | 6     | 6        |  |
|   |                      | D     | ownstr   | eam End  |
| Culvert Component                             |                      | Last  | Now      | Explanation of Condition   |
| Direction                                     |                      | E     |          | North end of concrete boxes.   |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE             |       |          |  |
| Headwall                                      |                      | 4     | 4        | Isolated medium scaling @ East box and spalling -@ headwall and common wall @ cell 3 to 4. |
| Collar  |                      | Х     | Х        |  |
| Wingwalls                                     |                      | 5     | 5        | Large angle crack at N.E 6 mm wide.  |
| (Shape : <b>FLARE</b> )                       |                      |       |          |  |
| Cutoff Wall                                   |                      | х     | X        |  |
| Bevel End                                     |                      | Х     | Х        |  |
| Heaving (mm)                                  | 0                    |       |          |  |
| Invert Above/Below Stream Bed                 | BELOW                |       |          |  |
| Above/Below (mm)                              | 100                  |       | -        |  |
| Scour Protection                              |                      | 7     | 7        |  |
| (Type : NATURAL)                              |                      |       |          |  |
| (Avg. Rock Size(mm) : )                       |                      |       |          |  |
| Scour/Erosion                                 |                      | 7     | 7        |  |
| Beavers (Y/N)                                 | No                   |       |          |  |
| Downstream End General Ration                 | ng                   | 4     | 4        |  |
|   |                      | s     | Structur | re Usage   |
|   |                      | Last  | Now      | Explanation of Condition   |
| Channel (U/S and D/S)                         |                      |       |          |  |
| Alignment                                     |                      | 5     | 5        | CPR bridge 40 m D/S North.<br>Ditch drainage at 90 degree angle at U/S end.                |
| Bank Stability                                |                      | 7     | 7        |  |
| HWM (m below Top of Culvert)                  |                      |       |          | No visible HWM.  |
| Drift (Y/N)                                   | No                   |       |          |  |
| Channel Bottom<br>Degrading/Aggrading         | AGGRADING            |       |          |  |
| Beavers (Y/N)                                 | No                   |       |          |  |
| (Fish Compensation Measure 1 :                | NONE)                |       |          |  |
| (Fish Compensation Measure 2 :                | NONE)                |       |          |  |
| <b>Channel General Rating</b>                 |                      | 5     | 5        |  |

|   |                                 |   | Maintenance Reco   | mmenda                  | ations                         |            |         |                 |           |       |
|---|---------------------------------|---|--|-------------------------|--------------------------------|------------|---------|-----------------|-----------|-------|
| Inspector Recommendations   | Year                            | Inspector Co                                | omments  |                         | Department Comm                | nents      |         | Target Year     | Est. Cost | Cat # |
| SHOTCRETE REPAIRS   |                                 |   |  |                         |                                |            |         |                 |           |       |
| PLACE ADDITIONAL RIP RAP  |                                 |   |  |                         |                                |            |         |                 |           |       |
| REMOVE DRIFT ACCUMULATION   |                                 |   |  |                         |                                |            |         |                 |           |       |
| INSTALL CONCRETE/STEEL LINING   |                                 |   |  |                         |                                |            |         |                 |           |       |
| INSTALL STRUTS  |                                 |   |  |                         |                                |            |         |                 |           |       |
| INSTALL CONCRETE COLLAR/CUTC  | DFF                             |   |  |                         |                                |            |         |                 |           |       |
| REPAIR SEAMS  | 2013                            | Repair head<br>westerly box<br>grout/concre | lwall between last box and r<br>< culvert @ outlet - 0.1m3<br>ete. | next                    |                                |            |         |                 |           |       |
| OTHER ACTION  | 2013                            | Repair West                                 | t end of North guardrail.  |                         |                                |            |         |                 |           |       |
| OTHER ACTION  |                                 |   |  |                         |                                |            |         |                 |           |       |
| OTHER ACTION  |                                 |   |  |                         |                                |            |         |                 |           |       |
| OTHER ACTION  |                                 |   |  |                         |                                |            |         |                 |           |       |
| OTHER ACTION  |                                 |   |  |                         |                                |            |         |                 |           |       |
| Structural Condition Rating (Last/No  | ow) 66.7/55                     | .6 Su                                       | Ifficiency Rating (Last/Nov  | w) 64                   | 4.2/61.0                       | Est. Repl. | Yr 2030 | Maint. Red      | qd. (Y/N) | Yes   |
| (%)   | -                               | (%)   | )  |                         |                                |            |         |                 |           |       |
| (%)<br>Special<br>Comments for<br>Next Inspection   |                                 | (%)   | )  |                         | Department<br>Comments         |            |         |                 |           |       |
| (%) Special Comments for Next Inspection Maintenance Reviewed By  |                                 | (%)   | )  |                         | Department<br>Comments<br>Date |            |         | Estimated Total | 0         |       |
| (%)         Special         Comments for         Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy  |                                 |   | )  |                         | Department<br>Comments<br>Date |            |         | Estimated Total | 0         |       |
| (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N)  |                                 | (%)   | )  |                         | Department<br>Comments<br>Date |            |         | Estimated Total | 0         |       |
| (%)         Special<br>Comments for<br>Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy         On 3-Year Program (Y/N)         Proposed Action  |                                 | (%)   | )  |                         | Department<br>Comments Date    |            |         | Estimated Total | 0         |       |
| (%)         Special<br>Comments for<br>Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy         On 3-Year Program (Y/N)         Proposed Action         Previous Inspector's Name  | Jason Rusu                      | (%)   | )  | revious A               | Department<br>Comments<br>Date |            |         | Estimated Total |           |       |
| (%)         Special<br>Comments for<br>Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy         On 3-Year Program (Y/N)         Proposed Action         Previous Inspector's Name         Next Inspection Date   | Jason Rusu<br>08-Nov-2013       |   | )  | revious A<br>revious Ir | Department<br>Comments         | 07-Aug     | g-2010  | Estimated Total | 0         |       |
| (%)         Special<br>Comments for<br>Next Inspection         Maintenance Reviewed By         Proposed Long-Term Strategy         On 3-Year Program (Y/N)         Proposed Action         Previous Inspector's Name         Next Inspection Date         Inspection Cycle (Default) (months) | Jason Rusu<br>08-Nov-2013<br>21 |   | )  | revious A<br>revious Ir | Department<br>Comments         | 07-Au      | g-2010  | Estimated Total | 0         |       |