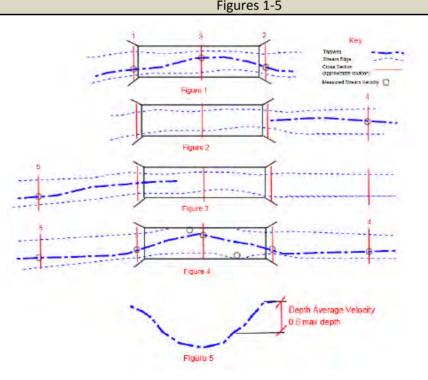
| PRJ # BR(| O 8006 (47) | | PCN: 67 | 780 | | -20-201 | | | tructed: | 2009 | | |
|---|--|------------------------------------|------------------------------------|---------------------------|---------------------------|------------------|------------------|----------|-------------|-----------|------------|-------|
| County: E | Brookings | | | | | | i on: 06- | | 6 | | | |
| Assessed | By: Maier/E | Boone | | | Stream | Name: | Medary | Creek | | | | |
| | Structure | Туре | | | | St | ructure | Shape | Commer | nts | | |
| | Numbe | r of Barr | els | | l | nlet Typ | e | | Οι | utlet Ty | pe* | |
| | X Width (f | t) X Heig | ht (ft) | Р | rojecting | | | At | Stream (| Grade | | х |
| Box 3 | 3x10'x8' | | | V | /ing wall | | | x Ca | scade ov | er Ripra | р | |
| Arch | | | | H | eadwall | | | Fr | ee Fall int | to Pool | | |
| Pipe Dian | neter | | | A | pron | | | Fr | ee Fall Or | nto Rip I | Rap | |
| Bridge | | | | R | iprap | | | Ap | ron | | | |
| Bridge L | Deck Length | X Widtl | h | C | ther: | | | Ot | her: | | | |
| | | | | Ra | pid Visua | Asses | sment: | | | | | |
| | | | | | | • | | | | | | Y / I |
| | | | | | Observat | tion | | | | | | N.A |
| . The stru | icture is insta | Iled gene | erally in a | ccorda | nce with p | lans (hei | ght, widtl | n, eleva | tion, locat | ion, etc. |) | |
| | n to be comp | | | | | | | | | | | У |
| | | | | - | - | n widths | upstream | n and do | wnstrean | n. | | у |
| 2. Overall structure width is wider than the average stream widths upstream and downstream .3. Natural streambed material exists throughout structure (i.e. countersunk approximately 1 foot) | | | | | | | | | | v | | |
| 4. Stream channel is free of scour activity that may impede fish passage. | | | | | | | | | | y | | |
| 5. A natural low flow channel exists through the structure or if not the streambed surface within the structure | | | | | | | | | | | | |
| | the streambe | | | - | | | | | | | | У |
| | is free of cha | | | | | | | 0 | | | | у |
| | wnstream cl | | | | | | | | | | | ý |
| - | ion is/has re | - | - | | | | | ion area | ۱. | | | ý |
| | | | | | Field Mea | asureme | nts: | | | | | |
| | | | Stre | am De | epth and Ve | elocities | at Structi | ure*** | | | | |
| Locatio | n Lo | eft | 1/4 | l Pt | 1/2 | 2 Pt | 3/4 | l Pt | Ri | ght | Thal | weg |
| | Depth | Vel. | Depth | Vel. | | Vel. | Depth | Vel. | Depth | Vel. | Depth | Vel |
| Inlet | 1.5 | 0 | 1.5 | 0 | 1.6 | 0 | 1.45 | 0 | 1.65 | 0 | 1.65 | 0 |
| Outlet | 1.6 | 0 | 1.7 | 0 | 1.77 | 0 | 1.55 | .05 | 1.7 | 0 | 1.55 | .0 |
| MidStr | · 1.8 | 0 | 1.8 | .1 | 1.75 | 0 | 1.7 | 0 | 1.7 | 0 | 1.8 | .1 |
| 7xW UpSt | trm | | | | | | | | | | | |
| 7xW DwnS | | | | | | | | | | | | |
| the structu with addit Due to | bservations ure or strean tional photog wind and lo | n. Note o araphs if w strear | other unio needed. n flow, v | <i>que sit</i> elociti | e condition es were qu | uestiona | ay/may ı | | | | - | |
| #7- Ups | stream of st | ructure, | north sic | le- ero | sion due t | o cattle | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | nt any note: | tial fick | nassaga | arria | c ** 15'NI | <u>O' ic cho</u> | kod for (| bearus | tion E or (| C addit: | onal field | |
| | nt any poter | | | | | | | | | | | |
| observatio | nt any poter on & measur or additiona | ements r | nay be re | quire | d. Refer to | section ' | Stream C | rossing | Section' i | n the Mo | onitoring | *** |

| | Photos Location Description (optional) | | | | | | | |
|---|--|-----------------|---------------|--|--|--|--|--|
| | W S E | Latitude | Longitude | Include description of photograph location for future reference. Photos should include: approximately 7xW upstream/downstream from structure in the direction of the structure showing undisturbed | | | | |
| Upstream channel beyond the construction limits, the upstream/downst Upstream channel disturbed by the project, and the structure inlet and c | | | | | | | | |
| 1 | | | | 1) From structure looking upstream | | | | |
| 2 | | | | 3) From upstream looking at structure | | | | |
| | Dowi | nstream | | | | | | |
| 3 | | | | 2) from structure looking downstream | | | | |
| 4 | | | | From downstream toward structure | | | | |
| | Other | (optional) | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | * Re-took pictures on 6-10-14. One from upstream towards | | | | |
| 7 | | | | box and one from downstream towards box | | | | |
| 8 | | | | | | | | |
| | REPORT FINDINGS | | | | | | | |
| Structure initially monitored in 2012. 2014 monitoring was for scheduled 3rd-year evaluation. | | | | | | | | |
| Structur | e does not app | ear to affect f | ish passage c | or stream development. | | | | |
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| | | | | Figures 1-5 | | | | |





Structure facing upstream 44.388572 -96.666561

Structure facing Downstream 44.388557, -96.666676





Upstream facing structure 6/10/14 site revisit

The second

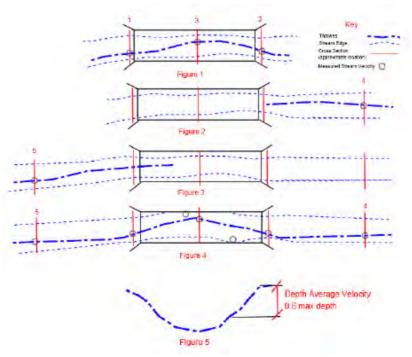


Downstream facing structure 6/10/14 site revisit

2 hardenter

| N X Wi Box 4x12'> Arch | Maier/Boone ucture Type Number of B Yidth (ft) X H 'x8' Length X Wi Length X Wi e is installed g be completed ture width is w mbed materia nel is free of s of low channe creambed bey e of channeliz ream channe | e Barrels Height (ft) //idth//idth//i | wi He Ap Rip Ot Rap ccordar vey only he avera bughout that m ugh the ucture in e surfac able (no a stream am Dep | Stream | Name: St nlet Typ lans (heig h widths (i.e. cou e fish pas or <u>if not</u> utlet simi cructure. erosion) thin the c asureme elocities | ght, width upstream ntersunk isage. the strean ilar to des ** constructi nts: | Creek Shape At x Ca Fr Fr A o O | Commer Ou Stream (ascade ov ee Fall int ee Fall Or oron ther: tion, locat tion, locat ownstrean imately 1 urface wit nditions.** | itlet Typ Grade er Ripra to Pool nto Rip F ion, etc n . foot) | р ?ap | x x y y y y y y y y y y y y y |
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| Inlet Outlet MidStr 7xW UpStrm 7xW DwnStrm Describe observe the structure or the with additional in - Water was o | | 1/4 | l Pt | 1/2 | | | 116 | | | | |
| Inlet Outlet MidStr 7xW UpStrm 7xW DwnStrm Describe observe the structure or the with additional in - Water was o | Depth Vel | | | - | 2 PT | 3/4 | | Ria | ght | Thal | weg |
| Inlet Outlet MidStr 7xW UpStrm 7xW DwnStrm Describe observe the structure or with additional in - Water was o | • | | Vel. | Depth | Vel. | Depth | Vel. | Depth | Vel. | Depth | Vel. |
| MidStr 7xW UpStrm 7xW DwnStrm Describe observe the structure or with additional i - Water was o | | | | | | | | | | | |
| 7xW UpStrm 7xW DwnStrm Describe observe the structure or with additional i - Water was o | | | | | | | | | | | |
| 7xW DwnStrm Describe observe the structure or with additional of - Water was o | | | | | | | | | | | |
| Describe observe the structure or with additional i - Water was o | | | | | | | | | | | |
| the structure or a with additional of the structure or a with additional of the structure o | | | | | | | | | | | |
| | r stream. Not photoaraphs | ote other uniques if needed. | que site | condition | s that m | ay/may r | not wa | | - | - | |
| - Vegetation is | is well estab | olished. No e | erosion | apparen | t | | | | | | |
| - Mud has plans. 5. streamb beyond the | bed surfa | ace within | n the | struct | | | | | _ | stream | nbed |
| | | | | | | | | | | | |
| ⁶ Document any observation & m Protocol for add | | | oarriers | . ** If 'NC |)' is chec | ked for C | Observ | | | | |

| | Photos Location Description (optional) | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| | Latitude Longitude Longitude Longitude Include description of photograph location for future reference. Photos should include: approximately 7xW upstream/downstream from structure in the direction of the structure showing undisturbed | | | | | | | | |
| | Upstream channel beyond the construction limits, the upstream/downstream Upstream channel disturbed by the project, and the structure inlet and outlet | | | | | | | | |
| 1 | 1 1) box facing upstream | | | | | | | | |
| 2 | 2 2) upstream facing box | | | | | | | | |
| | Downstream | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | of dominational box | | | | | | | | |
| | Other (optional) | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | 7 | | | | | | | | |
| 8 | | | | | | | | | |
| | REPORT FINDINGS | | | | | | | | |
| Initial monitoring in 2012; only issue noted - recheck wide channel area (bank erosion) | | | | | | | | | |
| downstream of box to insure it did not increase. Box re-monitored in 2013 with no change | | | | | | | | | |
| 0.0.0 0 = 1 | observed. 2014 monitoring was for scheduled 3rd-year evaluation. Water depth prohibited any | | | | | | | | |
| | 2014 monitoring was for scheduled 3rd-year evaluation. Water depth prohibited any measurements within the structure on 6/10/2014 and on return visit 7/29/2014. Still no | | | | | | | | |
| change in wide channel area. Culvert is countersunk. Sediment (thick mud) is accumulating | | | | | | | | | |
| | inside structure. Fish passage does not appear to be restricted by structure. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Figures 1-5 | | | | | | | | |



Revision Date: 10/4/2012

From structure facing upstream 44.286196, -96.547133

Mark Mark Consultation of the State

21



From upstream facing structure



From structure facing downstream 44.286201, -96.547243

410-

Mar.

Lill



From downstream facing structure

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