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| Barrier Evaluation Form - Multiple Culverts at Crossing |
| **Location Information**  |
| Project Name: **Coulter Creek Culvert #1** | SRFB Project #: 11-1347 | County: **Chelan** |
| Parcel #:       | HPA #: N/A |
| GPS Location: Datum - WGS84 - decimal degrees | Latitude: 47.765336N | Longitude: 120.80312W |
| ¼ Section: NE of the SE | Section: 11 | Township: 26N | Range: 16 [x]  East [ ]  West |
| Stream Name: **Coulter Creek** | Tributary To: Nason Creek | WRIA #: **45** |
| Driving Directions: The culverts can be accessed from Highway 2 – 0.5 miles from the Washington State rest stop then left onto West Dardenelles Road. This is a private gravel road that crossed Coulter Creek at RM 0.4.  |
| **Landowner Information** |
| Landowner Name: Ralph Byther | Mailing Address: PO Box 923 |
| City: Graham | State: WA | Zip: 98338 | Phone: 253-847-6675 |
| Cell: (   )       | Fax: (   )       | Email: dbyther\_ms@msn.com |
| Landowner Agent: Mike Kane | Mailing Address: 316 Washington Street, Suite 401 |
| City: Wenatchee | State: Wa | Zip: 98801 | Phone: (509-667-6467)  |
| Cell: (   )       | Fax: (   )       | Email: Mike.Kane@CO.CHELAN.WA.US |
| **Evaluator Information** |
| Evaluator Name: **Colin Forsyth** | Affiliation: **Bureau of Reclamation** |
| Mailing Address: **301 Yakima St., Room 319** | City: **Wenatchee** | State: **WA** | Zip: **98801** |
| Phone: **509-708-8320** | Fax:       | Cell:       | Email: **cforsyth@usbr.gov** |
| **Barrier Information (measurements in meters)** |
| Is the stream fish-bearing? [ ]  Yes [ ]  No [x]  Unknown  | Species, if known: Steelhead | Date of Visit: 06/01/2011 |
| Fish-bearing criteria: [ ]  Fish Observation [ ]  Stream Type [ ]  SSASI/Stream Catalog [ ]  Physical Criteria [ ]  Other:        |
| Stream flow: [ ]  Perennial [ ]  Intermittent [x]  Unknown Source of information:       |
| Will this culvert be entered into the WDFW-FPDSI database? [ ]  Yes [ ]  No If yes, Site ID #:       | Culvert 1 of **2** |
| Shape: **RND** | Material: **CST** | Apron: [x]  None [ ]  Upstream [ ]  Downstream [ ] Both | Span/Diam: **0.14** |
| Rise: **0.61m** | Length: **6.096m** | Water depth in culvert: **0.24** | Water Surface Drop(WSD): **0.15** |
| Drop Location: [x]  Outlet [ ]  Inlet [ ]  Inside  | Countersunk: [ ]  Yes [x]  No [ ] Unknown  | Culvert Slope(%): **3.5** |
| Bankfull width (upstream of culvert): 2.59  | Culvert span/bankfull width ratio: **0.47** (Add all spans, divide by bankfull width) |
| Plunge pool: Length to tailout: **4.42** OHW width: **3.26** Max depth: **0.75** | Road fill at DS end: **1.22** | Road width:       |
| Fishway Present? [ ]  Yes [ ]  No [x]  Unknown (if yes, describe in comments)  | Tide gate Present? [ ]  Yes [x]  No [ ]  Unknown  |
| Is this culvert a fish passage barrier? [x]  Yes [ ]  No [ ]  Unknown [ ]  Level B needed |
| Problem with culvert: [ ]  WSD [x]  Slope [ ]  Velocity [ ]  Depth  | Percent passability: [ ]  0% [x]  33% [ ]  67% [ ]  100% |
| Habitat Quality: [ ]  Excellent [ ]  Good [ ]  Poor [x]  Unknown |
| Comments(Describe crossing condition, fish observations, habitat quality etc):       |
| Barrier Evaluation Form - Multiple Culverts at Crossing |
| Location Information |
| Project Name: **Coulter Creek #2** | SRFB Project #: 11-1347 | County: **Chelan** |
| Parcel #:       | HPA #: N/A |
| GPS Location: Datum - WGS84 - decimal degrees | Latitude: 47.765336N | Longitude: 120.80312W |
| ¼ Section: NE of the SE | Section: 11 | Township: 26N | ¼ Section: NE of the SE |
| Stream Name: **Coulter Creek** | Tributary To: Nason Creek | WRIA #: **45** |
| Driving Directions: The culverts can be accessed from Highway 2 – 0.5 miles from the Washington State rest stop then left onto West Dardenelles Road. This is a private gravel road that crossed Coulter Creek at RM 0.4.  |
| **Landowner Information** |
| Landowner Name: Ralph Byther | Mailing Address: PO Box 923 |
| City: Graham | State: WA | Zip: 98338 | Phone: 253-847-6675 |
| Cell: (   )       | Fax: (   )       | Email: dbyther\_ms@msn.com |
| Landowner Agent: Mike Kane | Mailing Address: 316 Washington Street, Suite 401 |
| City: Wenatchee | State: Wa | Zip: 98801 | Phone: (509-667-6467)  |
| Cell: (   )       | Fax: (   )       | Email: Mike.Kane@CO.CHELAN.WA.US |
| **Evaluator Information** |
| Evaluator Name: **Colin Forsyth** | Affiliation: **Bureau of Reclamation** |
| Mailing Address: **301 Yakima St., Room 319** | City: **Wenatchee** | State: **WA** | Zip: **98801** |
| Phone: **509-708-8320** | Fax:       | Cell:       | Email: **cforsyth@usbr.gov** |
| **Barrier Information (measurements in meters)** |
| Is the stream fish-bearing? [ ]  Yes [ ]  No [x]  Unknown  | Species, if known:       | Date of Visit: 06/01/2011 |
| Fish-bearing criteria: [ ]  Fish Observation [ ]  Stream Type [ ]  SSASI/Stream Catalog [ ]  Physical Criteria [ ]  Other:        |
| Stream flow: [ ]  Perennial [ ]  Intermittent [x]  Unknown Source of information:       |
| Will this culvert be entered into the WDFW-FPDSI database? [ ]  Yes [ ]  No If yes, Site ID #:       | Culvert 2 of **2** |
| Shape: **RND** | Material: **CST** | Apron: [x]  None [ ]  Upstream [ ]  Downstream [ ] Both | Span/Diam: **0.14** |
| Rise: **0.61m** | Length: **6.096m** | Water depth in culvert: **0.25** | Water Surface Drop(WSD): **0.8** |
| Drop Location: [x]  Outlet [ ]  Inlet [ ]  Inside  | Countersunk: [ ]  Yes [x]  No [ ] Unknown  | Culvert Slope(%): **3.75** |
| Bankfull width (upstream of culvert): 2.59  | Culvert span/bankfull width ratio: **0.47** (Add all spans, divide by bankfull width) |
| Plunge pool: Length to tailout: **4.42** OHW width: **3.26** Max depth: **0.75** | Road fill at DS end: **1.22** | Road width:       |
| Fishway Present? [ ]  Yes [ ]  No [x]  Unknown (if yes, describe in comments)  | Tide gate Present? [ ]  Yes [x]  No [ ]  Unknown  |
| Is this culvert a fish passage barrier? [x]  Yes [ ]  No [ ]  Unknown [ ]  Level B needed |
| Problem with culvert: [ ]  WSD [x]  Slope [ ]  Velocity [ ]  Depth  | Percent passability: [ ]  0% [x]  33% [ ]  67% [ ]  100% |
| Habitat Quality: [ ]  Excellent [ ]  Good [ ]  Poor [x]  Unknown |
| Comments(Describe crossing condition, fish observations, habitat quality etc):       |