

Barrier Evaluation Form - Multiple Culverts at Crossing

Location Information

Project Name: Upper Chumstick #2 Saliby		SRFB Project #: 11-1441	County: Chelan
Parcel #: 251806830020		HPA #:	
GPS Location: Datum - WGS84 - decimal degrees		Latitude: 47.695	Longitude: -120.638
¼ Section: NE	Section: 6	Township: 25N	Range: 18 <input checked="" type="checkbox"/> East <input type="checkbox"/> West
Stream Name: Chumstick Creek		Tributary To: Wenatchee River	WRIA #: 45
Driving Directions: From Leavenworth take the Chumstick Hwy north for approx. 6.5 miles turn right onto gravel driveway.			

Landowner Information

Landowner Name: Alex Saliby		Mailing Address: 9945 Eagle Creek Rd.	
City: Leavenworth	State: WA	Zip: 98826	Phone: ()
Cell: ()	Fax: ()	Email:	
Landowner Agent:		Mailing Address:	
City:	State:	Zip:	Phone: ()
Cell: ()	Fax: ()	Email:	

Evaluator Information

Evaluator Name: Colin Forsyth		Affiliation: US 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Species, if known: Steelhead	Date of Visit: 5/31/2011
Fish-bearing criteria: <input checked="" type="checkbox"/> Fish Observation <input type="checkbox"/> Stream Type <input type="checkbox"/> SSASI/Stream Catalog <input type="checkbox"/> Physical Criteria <input checked="" type="checkbox"/> Other:			
Stream flow: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Unknown Source of information:			
Will this culvert be entered into the WDFW-FPDSI database? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, Site ID #:			Culvert 1 of 2
Shape: RND	Material: CST	Apron: <input checked="" type="checkbox"/> None <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream <input type="checkbox"/> Both	Span/Diam: 1.22m
Rise: 1.22m	Length: 6.096m	Water depth in culvert: 0.69	Water Surface Drop(WSD): N/A
Drop Location: <input type="checkbox"/> Outlet <input type="checkbox"/> Inlet <input type="checkbox"/> Inside		Countersunk: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Culvert Slope(%): 1.25
Bankfull width (upstream of culvert): 3.66m		Culvert span/bankfull width ratio: 0.67m (Add all spans, divide by bankfull width)	
Plunge pool: Length to tailout: 5.18m OHW width: 5.03m Max depth: 0.826m		Road fill at DS end: 0.405m	Road width:
Fishway Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown (if yes, describe in comments)		Tide gate Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
Is this culvert a fish passage barrier? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Level B needed			
Problem with culvert: <input type="checkbox"/> WSD <input checked="" type="checkbox"/> Slope <input type="checkbox"/> Velocity <input type="checkbox"/> Depth		Percent passability: <input type="checkbox"/> 0% <input type="checkbox"/> 33% <input checked="" type="checkbox"/> 67% <input type="checkbox"/> 100%	
Habitat Quality: <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Unknown			

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Location Information

Project Name: Upper Chumstick #2 Saliby		SRFB Project #: 11-1441	County: Chelan
Parcel #: 251806830020		HPA #:	
GPS Location: Datum - WGS84 - decimal degrees		Latitude: 47.695	Longitude: -120.638
¼ Section: NE	Section: 6	Township: 25N	Range: 18 <input checked="" type="checkbox"/> East <input type="checkbox"/> West
Stream Name: Chumstick Creek		Tributary To: Wenatchee River	WRIA #: 45
Driving Directions: From Leavenworth take the Chumstick Hwy north for approx. 6.5 miles turn right onto gravel driveway.			

Landowner Information

Landowner Name: Alex Saliby		Mailing Address: 9945 Eagle Creek Rd.	
City: Leavenworth	State: WA	Zip: 98801	Phone: ()
Cell: ()	Fax: ()	Email:	
Landowner Agent:		Mailing Address:	
City:	State:	Zip:	Phone: ()
Cell: ()	Fax: ()	Email:	

Evaluator Information

Evaluator Name: Colin Forsyth		Affiliation: US 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Species, if known: Steelhead	Date of Visit: 5/31/2011
Fish-bearing criteria: <input checked="" type="checkbox"/> Fish Observation <input type="checkbox"/> Stream Type <input type="checkbox"/> SSASI/Stream Catalog <input type="checkbox"/> Physical Criteria <input checked="" type="checkbox"/> Other:			
Stream flow: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Unknown Source of information:			
Will this culvert be entered into the WDFW-FPDSI database? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, Site ID #:			Culvert 2 of 2
Shape: RND	Material: CST	Apron: <input checked="" type="checkbox"/> None <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream <input type="checkbox"/> Both	Span/Diam: 1.22m
Rise: 1.22m	Length: 6.096m	Water depth in culvert: 0.62	Water Surface Drop(WSD): N/A
Drop Location: <input type="checkbox"/> Outlet <input type="checkbox"/> Inlet <input type="checkbox"/> Inside		Countersunk: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Culvert Slope(%): 2.05
Bankfull width (upstream of culvert): 3.66m		Culvert span/bankfull width ratio: 0.67m (Add all spans, divide by bankfull width)	
Plunge pool: Length to tailout: 5.18m OHW width: 5.03m Max depth: 0.826m		Road fill at DS end: 0.405m	Road width:
Fishway Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown (if yes, describe in comments)		Tide gate Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
Is this culvert a fish passage barrier? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Level B needed			
Problem with culvert: <input type="checkbox"/> WSD <input checked="" type="checkbox"/> Slope <input type="checkbox"/> Velocity <input type="checkbox"/> Depth		Percent passability: <input type="checkbox"/> 0% <input type="checkbox"/> 33% <input checked="" type="checkbox"/> 67% <input type="checkbox"/> 100%	
Habitat Quality: <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Unknown			

Barrier Evaluation Form - Single Culvert at Crossing

Location Information

Project Name: Upper Chumstick #5 Baumann		SRFB Project #: 11-1441	County: Chelan
HPA #:		Parcel #: 261831120050	
GPS Location: Datum - WGS84 -decimal degrees		Latitude: 47.714	Longitude: -120.637
¼ Section: NW	Section: 31	Township: 26 N	Range: 18 <input checked="" type="checkbox"/> East <input type="checkbox"/> West
Stream Name: Chumstick Creek		Tributary To: Wenatchee River	WRIA #: 45
Driving Directions: From Leavenworth take the Chumstick Hwy north for approx. 7.9 miles turn left onto gravel driveway.			

Landowner Information

Landowner: Chuck & Judith Baumann		Mailing Address: 16238 Chumstick Highway	
City: Leavenworth	State: WA	Zip: 98826	Phone: ()
Cell: ()	Fax: ()	Email:	
Landowner Agent:		Mailing Address:	
City:	State:	Zip:	Phone: ()
Cell: ()	Fax: ()	Email:	

Evaluator Information

Evaluator Name: Colin Forsyth		Affiliation: US 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Species: Steelhead	Date of Visit: 6/1/2011
Fish-bearing criteria: <input checked="" type="checkbox"/> Fish Observation <input type="checkbox"/> Stream Type <input type="checkbox"/> SASSI/Stream Catalog <input type="checkbox"/> Physical Criteria <input checked="" type="checkbox"/> Other:			
Stream flow: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Unknown Source of information:			
Will this culvert be entered into the WDFW-FPDSI (formerly SSHEAR) database? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, Site ID #:			
Shape: RND	Material: SST	Apron: <input checked="" type="checkbox"/> None <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream <input type="checkbox"/> Both	Span: 1.35m
Rise: 0.869m	Length: 7.62m	Water Depth in Culvert:	Water Surface Drop: 0.28m
Drop Location: <input type="checkbox"/> Outlet <input checked="" type="checkbox"/> Inlet <input type="checkbox"/> Inside	Countersunk: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Culvert Slope(%): 3.2
Bankfull Width (outside influence of culvert): 3.51m		Culvert Span/Bankfull Width Ratio: 0.38m	
Plunge Pool: Length (culvert to tail-out): 12.80m OHW width: 7.92m Max depth: 4.27m		Road fill DS: 1.0m	Road width:
Fishway Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, describe in Comments)		Tide gate Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
Is this culvert a fish passage barrier? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Level B needed			
Problem with culvert: <input checked="" type="checkbox"/> WS drop <input checked="" type="checkbox"/> Slope <input type="checkbox"/> Velocity <input type="checkbox"/> Depth		Percent Passability: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 33% <input type="checkbox"/> 67% <input type="checkbox"/> 100%	
Habitat Quality: <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Unknown			
Comments(Describe crossing condition, fish observations, habitat quality etc):			

Barrier Evaluation Form - Multiple Culverts at Crossing

Location Information

Project Name: Upper Chumstick #4 Ott	SRFB Project #: 11-1441	County: Chelan
Parcel #: 251806830020	HPA #:	
GPS Location: Datum - WGS84 - decimal degrees	Latitude: 47.711	Longitude: -120.64
¼ Section: NE	Section: 31	Township: 26N
Range: 18		<input checked="" type="checkbox"/> East <input type="checkbox"/> West
Stream Name: Chumstick Creek	Tributary To: Wenatchee River	WRIA #: 45
Driving Directions: From Leavenworth take the Chumstick Hwy north for approx. 7.6 miles turn left onto gravel driveway.		

Landowner Information

Landowner Name: Lisi Ott & Jeff Johnson		Mailing Address: 15966 Chumstick Highway	
City: Leavenworth	State: WA	Zip: 98826	Phone: ()
Cell: ()	Fax: ()	Email:	
Landowner Agent:		Mailing Address:	
City:	State:	Zip:	Phone: ()
Cell: ()	Fax: ()	Email:	

Evaluator Information

Evaluator Name: Colin Forsyth	Affiliation: US 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Species, if known: Steelhead	Date of Visit: 6/1/2011
Fish-bearing criteria: <input checked="" type="checkbox"/> Fish Observation <input type="checkbox"/> Stream Type <input type="checkbox"/> SSASI/Stream Catalog <input type="checkbox"/> Physical Criteria <input checked="" type="checkbox"/> Other:		
Stream flow: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Unknown Source of information:		
Will this culvert be entered into the WDFW-FPDSI database? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, Site ID #:		Culvert 1 of 3
Shape: RND	Material: CST	Apron: <input checked="" type="checkbox"/> None <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream <input type="checkbox"/> Both
Rise: 0.76 m	Length: 7.6m	Water depth in culvert: 0.3
Water Surface Drop(WSD): 0.6m		Span/Diam: 0.76m
Drop Location: <input type="checkbox"/> Outlet <input checked="" type="checkbox"/> Inlet <input type="checkbox"/> Inside	Countersunk: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Culvert Slope(%):
Bankfull width (upstream of culvert): 3.7m		
Culvert span/bankfull width ratio: 0.6m (Add all spans, divide by bankfull width)		
Plunge pool: Length to tailout: 3.1 m OHW width: 4.8m Max depth: 0.8m		Road fill at DS end:
Road width:		
Fishway Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown (if yes, describe in comments)		Tide gate Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Is this culvert a fish passage barrier? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Level B needed		
Problem with culvert: <input checked="" type="checkbox"/> WSD <input type="checkbox"/> Slope <input type="checkbox"/> Velocity <input type="checkbox"/> Depth		Percent passability: <input type="checkbox"/> 0% <input checked="" type="checkbox"/> 33% <input type="checkbox"/> 67% <input type="checkbox"/> 100%
Habitat Quality: <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Poor <input type="checkbox"/> Unknown		

Comments (Describe crossing condition, fish observations, habitat quality etc): There is a 0.6 meter water surface drop at this location due to complete plugging of one of the three culverts present, and partial plugging of the other two. The debris plug did not allow for some measurements on the other two culverts.

Barrier Evaluation Form - Single Culvert at Crossing

Location Information

Project Name: Upper Chumstick #6 Cann		SRFB Project #: 11-1441	County: Chelan
HPA #:		Parcel #: 261830430150	
GPS Location: Datum - WGS84 -decimal degrees		Latitude: 47.715	Longitude: -120.636
¼ Section: NW	Section: 31	Township: 26 N	Range: 18 <input checked="" type="checkbox"/> East <input type="checkbox"/> West
Stream Name: Chumstick Creek		Tributary To: Wenatchee River	WRIA #: 45
Driving Directions: From Leavenworth take the Chumstick Hwy north for approx. 8 miles turn left onto gravel driveway.			

Landowner Information

Landowner: Michael & Susan Cann		Mailing Address: 16350 Chumstick Hwy	
City: Leavenworth	State: WA	Zip: 98826	Phone: ()
Cell: ()	Fax: ()	Email:	
Landowner Agent:		Mailing Address:	
City:	State:	Zip:	Phone: ()
Cell: ()	Fax: ()	Email:	

Evaluator Information

Evaluator Name: Colin Forsyth		Affiliation: US 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Species: Steelhead	Date of Visit: 6/1/2011
Fish-bearing criteria: <input checked="" type="checkbox"/> Fish Observation <input type="checkbox"/> Stream Type <input type="checkbox"/> SASSI/Stream Catalog <input type="checkbox"/> Physical Criteria <input checked="" type="checkbox"/> Other:			
Stream flow: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Unknown Source of information:			
Will this culvert be entered into the WDFW-FPDSI (formerly SSHEAR) database? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, Site ID #:			
Shape: RND	Material: CST	Apron: <input checked="" type="checkbox"/> None <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream <input type="checkbox"/> Both	Span: 1.52m
Rise: 1.52m	Length: 9.14m	Water Depth in Culvert: 0.34m	Water Surface Drop: 0.037m
Drop Location: <input checked="" type="checkbox"/> Outlet <input type="checkbox"/> Inlet <input type="checkbox"/> Inside		Countersunk: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Culvert Slope(%): 1.3
Bankfull Width (outside influence of culvert): 3.51m		Culvert Span/Bankfull Width Ratio: 2.6	
Plunge Pool: Length (culvert to tail-out): 4.27m OHW width: 5.03m Max depth: 1.25m		Road fill DS: 1.07m	Road width:
Fishway Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, describe in Comments)		Tide gate Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	
Is this culvert a fish passage barrier? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/> Level B needed			
Problem with culvert: <input type="checkbox"/> WS drop <input checked="" type="checkbox"/> Slope <input type="checkbox"/> Velocity <input type="checkbox"/> Depth		Percent Passability: <input type="checkbox"/> 0% <input type="checkbox"/> 33% <input checked="" type="checkbox"/> 67% <input type="checkbox"/> 100%	
Habitat Quality: <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Unknown			
Comments(Describe crossing condition, fish observations, habitat quality etc):			