

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Behinds hatchery buildings, off gravel road to effluent pond

Site Comments:

Hatchery constructed spawning channels that were never used, now overgrown. No water, structures still in place. Would have regulated water in the channel, which would have eventually hit Abernathy Cr.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310215	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To:	WRIA:
Latitude: 46.2243667	Longitude: -123.1473167	PI Total:

Field Review Crew: Lantz, Tschaekofske, Field Review Date: 7/9/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.80"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.80"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.25"/>		

Level A Parameters:

Bed Material Present:	<input type="text" value="No"/>
Outfall Drop (m):	<input type="text" value="0.40"/>
Culvert Slope (%):	<input type="text"/>
Ave. Bed Width (m):	<input type="text"/>
Culvert/Stream Width Ratio:	<input type="text"/>



Results:

Barrier:	<input type="text"/>	Passability (%):	<input type="text"/>	Repair Status:	<input type="text"/>	Method:	<input type="text"/>
Problem:	<input type="text"/>						

Comments:

Culvert 1310214 about 15 m away, connects to same ditch channel.

Potential Habitat Gain:

Survey Type:	<input type="text"/>	Length (m):	<input type="text"/>	Spawning (sq m):	<input type="text"/>	Rearing (sq m):	<input type="text"/>
--------------	----------------------	-------------	----------------------	------------------	----------------------	-----------------	----------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Behind effluent pond, close to Abernathy Creek. This is return pipe for effluent water.

Site Comments:

Drains into the old hatchery constructed spawning channel, into concrete shell of a fishway (nothing now). The drop is 2m from the effluent pond water down to this pipe, so there is no way fish can get up into the pond.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310216	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Abernathy Cr. 25.029	WRIA:
Latitude:	Longitude:	PI Total:

Field Review Crew: Lantz, Tschaekofske, Field Review Date: 7/9/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.38"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="PCC"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.47"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.47"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="2.00"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On Dike splitting Roth and Ridgeport units.

Site Comments:

Slough/wetlands US and DS. Double culvert. Billions of mosquitoes.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310217	Sequencer: 1.2	Fish Use Potential: Yes
Stream: Campbell Slough	Tributary To: Columbia R.	WRIA: 28.0027A
Latitude: 45.46945	Longitude: -122.45223	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.90"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.90"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.70"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="23.00"/>	FillDepth: <input type="text" value="2.00"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

RB culvert, is a little squished. Since there is no toe, Level B analysis is impossible, and the barrier status is unknown.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310217	Sequencer: 2.2	Fish Use Potential: Yes
Stream: Campbell Slough	Tributary To: Columbia R.	WRIA: 28.0027A
Latitude: 45.46945	Longitude: -122.45223	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.90"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.80"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.80"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="23.00"/>	FillDepth: <input type="text" value="2.00"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Since there is no toe, Level B analysis is impossible, and the barrier status is unknown.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

At the southern end of the Ridgeport unit

Site Comments:

Slough channel US leads up to Post office Lake. Tidal boot covers DS end of culvert, which empties straight into Columbia River. No shade trees around lake, and it may be shallow, so habitat gain is negligible. WCS on US side.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310218	Sequencer: 1.1	Fish Use Potential: Unk
Stream: Post Office Lake	Tributary To: Columbia R.	WRIA: 28.0000
Latitude: 45.75435	Longitude: -122.75762	PI Total:

Field Review Crew: **Gearns,Tschaekofsk** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.30"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.90"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="42.00"/>	FillDepth: <input type="text" value="3.00"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

The tidal boot is fully closed off. A metal trash box encloses the DS side of the culvert, and it is encased in concrete, so we could not shoot slope. The wood slats are about 1.5m high currently on the US side. The boot and WCS are currently barriers

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On dike, in center of refuge property.

Site Comments:

Type 3 stream, completely contained in dikes, so doesn't connect to Columbia. Wetland/lake US connects to slough channels DS.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310219	Sequencer: 1.2	Fish Use Potential: Unk
Stream: Steigerwald Lake	Tributary To:	WRIA: 28.0000
Latitude: 45.56605	Longitude: -122.31508	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.90"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.10"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.20"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="38.60"/>	FillDepth: <input type="text" value="4.50"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

1.8m of wood risers currently in WCS, with an outfall over risers of .9m. Currently the wood risers are a temporary barrier. If they were not in place, it would have an unknown status, since we can not get a toe measurement.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310219	Sequencer: 2.2	Fish Use Potential: Unk
Stream: Steigerwald Lake	Tributary To:	WRIA: 28.0000
Latitude: 45.56605	Longitude: -122.31508	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.80"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.10"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.20"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="38.57"/>	FillDepth: <input type="text" value="4.50"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

1.4m of wood risers currently in WCS, with an outfall over risers of .8m. Currently the wood risers are a temporary barrier. If they were not in place, it would have an unknown status, since we can not get a toe measurement.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Next to water treatment facilities.

Site Comments:

Type 3 stream. Channelized sloughs that connect with Steigerwald Lake. Dikes prevent any connection with the Columbia River.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310220	Sequencer: 1.3	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Steigerwald Lake	WRIA: 28.0000
Latitude: 45.56888	Longitude: -122.32718	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/13/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.50"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.35"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.10"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="13.06"/>	FillDepth: <input type="text" value="1.40"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

3 culverts all together. All three have wood risers that are a temporary barrier currently. Otherwise barrier status would be unknown since there is no toe measurement available. Risers .35m currently

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310220	Sequencer: 2.3	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Steigerwald Lake	WRIA: 28.0000
Latitude: 45.56888	Longitude: -122.32718	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.50"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.35"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.10"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="13.15"/>	FillDepth: <input type="text" value="1.40"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

3 culverts all together. All three have wood risers that are a temporary barrier currently. Otherwise barrier status would be unknown since there is no toe measurement available. Risers .53 m currently.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310220	Sequencer: 3.3	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Steigerwald Lake	WRIA: 28.0000
Latitude: 45.56888	Longitude: -122.32718	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.60"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.35"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.10"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="18.88"/>	FillDepth: <input type="text" value="1.40"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

3 culverts all together. All three have wood risers that are a temporary barrier currently. Otherwise barrier status would be unknown since there is no toe measurement available. Risers currently .6m.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Site Comments:

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310221	Sequencer: 1.1	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Steigerwald Lake	WRIA: 28.0000
Latitude: 45.56888	Longitude: -122.32718	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/13/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.10"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.80"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.80"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="26.00"/>	FillDepth: <input type="text" value="0.60"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Wood risers currently .45m tall are a temporary barrier. There is a metal cow grate over the US side, so we could not shoot the slope.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Just north of culvert 1310221

Site Comments:

Road drainage for spring.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310222	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To:	WRIA:
Latitude: 45.56912	Longitude: -122.29892	PI Total:

Field Review Crew: **Gearns, Tschaekofs** Field Review Date: **7/13/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.05"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.30"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.30"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.60"/>		

Level A Parameters:

Bed Material Present:	<input type="text" value="Unk"/>
Outfall Drop (m):	<input type="text"/>
Culvert Slope (%):	<input type="text"/>
Ave. Bed Width (m):	<input type="text"/>
Culvert/Stream Width Ratio:	<input type="text"/>

No Image Available

Results:

Barrier: <input type="text"/>	Passability (%): <input type="text"/>	Repair Status: <input type="text"/>	Method: <input type="text"/>
Problem: <input type="text"/>			

Comments:

Can't find US side of culvert.

Potential Habitat Gain:

Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>
-----------------------------------	----------------------------------	---------------------------------------	--------------------------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

About 10m DS from the Wind River Rd bridge that crosses the Wind River.

Site Comments:

Water intake structure for the hatchery facilities on LB side of river. Pipes water about a half mile to hatchery. There is a WDFW fish trap US from here about 30m. Not currently in use.

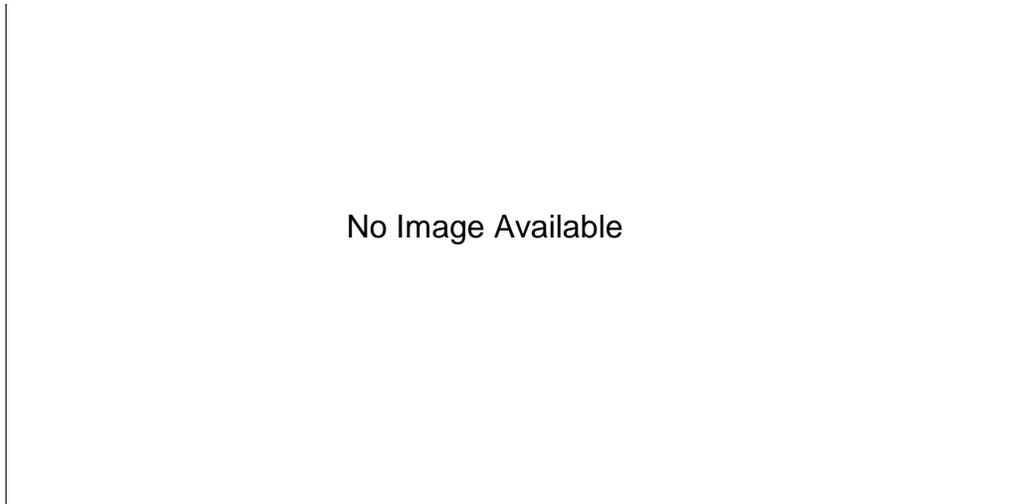
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310223	Fish Use Potential: No	
Stream: Wind River	Tributary To: Columbia River	WRIA:
Latitude: 45.87493	Longitude: -121.97882	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text" value="LB"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
Metal grate across front w/.10m wide gaps. When water is used for the hatchery, screens are put in place to prevent fish from entering the structure.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Next to Wind River Rd, southern side of hatchery property.

Site Comments:

Functions as release area from earthen holding ponds. Tyee springwater can fill this area when needed, and return fish to Wind River.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310224	Fish Use Potential: No	
Stream: Tyee Spring	Tributary To: Wind River 29.0023	WRIA: 29.0095
Latitude: 45.86757	Longitude: -121.97245	PI Total:

Field Review Crew:

Field Review Date:

Description:

Cement box structure has slots for wood risers to facilitate fish mov't out of holding ponds. Risers currently raised up off the ground, with about .2m of water running out. Small creek formed below, hits Wind River shortly.

No Image Available

Results:

Barrier:

Passability (%)

Repair Status:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Fishway
- Dam
- Gravity Diversion
- Pump Diversion
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Pink
- Chum
- Chinook
- Coho
- Steelhead
- Sea Run Cutthroat
- Resident Trout
- Dolly/Bull Trout
- Brook Trout
-

Location/Directions:

Alongside Wind River, west side of hatchery property. On LB side of river.

Site Comments:

Hatchery fish ladder, brings spring Chinook up into holding ponds. Return water chute runs next to ladder, with high gradient slope and high velocity water running out.

WDFW Fish Passage and Diversion Inventory Database

Fishway Description Report

Site ID: 1310225	Fish Use Potential: No
Stream:	Tributary To: Wind R. 29.0023 WRIA:
Latitude: 45.86785	Longitude: -121.97470 PI Total:

Field Review Crew: Field Review Date:

General Description:

Fishway Type: <input type="text" value="WP"/>	Construction Year: <input type="text"/>	Attached To: <input type="text"/>
Grating in front of side water chute prevents adults from entering facility. Notches about .2m wide at tops of weirs, alternating.		

Weir Pool, Pool Chute, Vertical Slot, and Steep Pass Fishway Components:

No. of Pools: <input type="text" value="6"/>	Number of Weirs: <input type="text" value="5"/>	Weir Type: <input type="text" value="Wood"/>
Entrance Pool Depth (m): <input type="text" value="0.7"/>	Pool Head Difference (m): <input type="text" value=".3/.3/.3/.3/.3"/>	

Streambed Elevation Controls:

Control Location: <input type="text"/>	Number of Controls: <input type="text"/>	Control Type: <input type="text"/>
--	--	------------------------------------

Culvert or Flume Components:

Comments:



No Image Available

Potential Habitat Gain:

Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>
-----------------------------------	----------------------------------	---------------------------------------	--------------------------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Right next to hatchery fish ladder, on RB side.

Site Comments:

Return water from pollution abatement pond, gravity fed down through this pipe. Grate in front prevents fish access, as well as drop inside pond.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310226	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To:	WRIA:
Latitude: 45.86808	Longitude: -121.97485	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/13/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.15"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.38"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.38"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.40"/>		

Level A Parameters:

Bed Material Present:	<input type="text" value="No"/>
Outfall Drop (m):	<input type="text"/>
Culvert Slope (%):	<input type="text"/>
Ave. Bed Width (m):	<input type="text"/>
Culvert/Stream Width Ratio:	<input type="text"/>

No Image Available

Results:

Barrier: <input type="text"/>	Passability (%): <input type="text"/>	Repair Status: <input type="text"/>	Method: <input type="text"/>
Problem: <input type="text"/>			

Comments:

US end in pond. Concrete box surrounds DS end.

Potential Habitat Gain:

Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>
-----------------------------------	----------------------------------	---------------------------------------	--------------------------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Right next to Wind River Rd.

Site Comments:

Hatchery intake structure, on type 9 spring. Used to be swampy area. Most water flows into screened drums that are rotated by a water wheel. Some water can be used for earthen ponds on LB side (blocked w/wood risers currently).

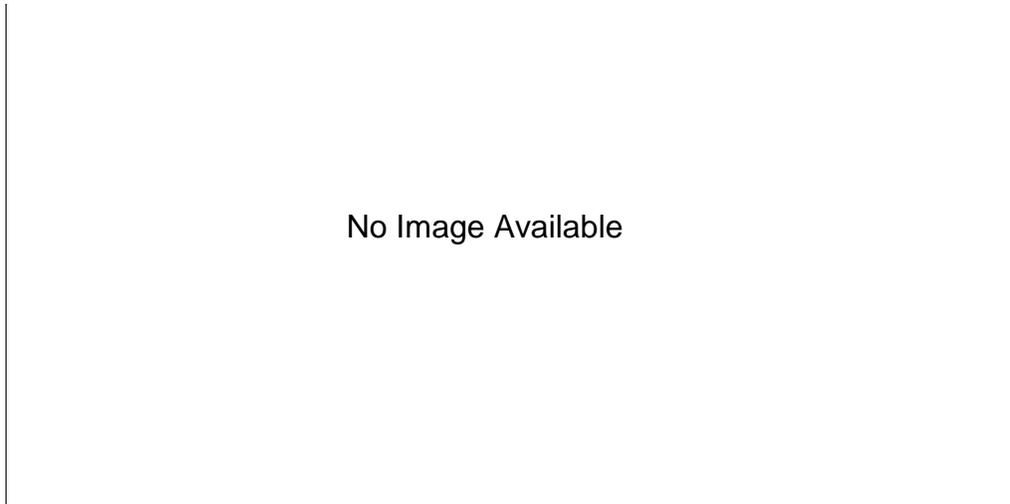
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310227	Fish Use Potential: No	
Stream: Tyee Spring	Tributary To: Wind R. 29.0023	WRIA: 29.0095
Latitude: 45.86865	Longitude: -121.97338	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text" value="RB"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments: Screens are in small building, water runs underneath front of building.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

At entrance to hatchery.

Site Comments:

3 culverts that drain one earthen pond to the next, with water from Tye Springs intake.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310228	Sequencer: 1.3	Fish Use Potential: No
Stream:	Tributary To: Wind R. 29.0023	WRIA:
Latitude: 45.86813	Longitude: -121.97262	PI Total:

Field Review Crew: Butler, Tschaekofske Field Review Date: 7/13/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.05"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.40"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.40"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.70"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Culverts 1.3 and 2.3 actually open to US pond. 3.3 is not visible at US side, pipe must enter from somewhere else under the road. Large concrete structure surrounds US side, so we couldn't shoot length or slope (extra information).

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310228	Sequencer: 2.3	Fish Use Potential: No
Stream:	Tributary To: Wind R. 29.0023	WRIA:
Latitude: 45.86813	Longitude: -121.97262	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/13/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.10"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.75"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.75"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="1.50"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Culverts 1.3 and 2.3 actually open to US pond. 3.3 is not visible at US side, pipe must enter from somewhere else under the road. Large concrete structure surrounds US side, so we couldn't shoot length or slope (extra information).

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310228	Sequencer: 3.3	Fish Use Potential: No
Stream:	Tributary To: Wind R. 29.0023	WRIA:
Latitude: 45.86813	Longitude: -121.97262	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/13/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.75"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.75"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="1.50"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Culverts 1.3 and 2.3 actually open to US pond. 3.3 is not visible at US side, pipe must enter from somewhere else under the road. Large concrete structure surrounds US side, so we couldn't shoot length or slope (extra information). Screen over 3.3 DS.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

North of hatchery holding ponds, on small gravel road. Dam spans Little White Salmon River.

Site Comments:

Gravity diversion on LB side of river, 2-step dam spans river next to diversion. Steep canyon, large boulders in river. Spirit Falls (33 feet tall) about 1/2 mile upstream. Type 1 stream, but limited habitat above. Main hatchery dam DS blocks fish.

WDFW Fish Passage and Diversion Inventory Database

Dam Assessment Report

Site ID: 1310229	Fish Use Potential: Yes	
Stream: Little White Salm	Tributary To: Columbia R. 29.0001	WRIA: 29.0131
Latitude: 45.72270	Longitude: -121.63530	PI Total:

Field Review Crew: Field Review Date:

Dam Name: <input type="text" value="Little White Salmon Intake"/>	Reservoir Name: <input type="text"/>	
Primary Purpose: <input type="text" value="Other"/>	Type: <input type="text" value="Concrete"/>	Span: <input type="text" value="Full"/>

Assessment Parameters:	
Length (m):	<input type="text" value="23.00"/>
Height (m):	<input type="text" value="1.00"/>
Water Surface Difference (m):	<input type="text" value="0.50"/>
Plunge Pool Depth (m):	<input type="text" value="1.40"/>

No Image Available

Results:		
Barrier: <input type="text" value="Yes"/>	Passability (%): <input type="text" value="33"/>	Repair Status: <input type="text" value="UD"/>
Problem: <input type="text" value="2 steps, at high flows dam is completely passable. There is an extra water/debris release on LB side of dam, within intake structure, which is open about .3m currently."/>		

Comments:

Potential Habitat Gain:				
Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>	

WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310229	Fish Use Potential: Yes
Stream: Little White Salm Tributary To: Columbia R. 29.0001	WRIA: 29.0131
Latitude: 45.7227000 Longitude: -121.6353000	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text" value="LB"/>
Diversion Dam: <input type="text" value="-1"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:
Screened: <input type="text" value="Yes"/> Screen Condition: <input type="text" value="OK"/>

Comments:
 Blasted a channel through rock wall, which leads to screened rotating drums, excess water/fish flow back into river through .9 m x .9 m pipe. Constructed in early 1900's. Water piped about 1/4 mile to hatchery facilities.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

At hatchery holding pond area, spans river.

Site Comments:

Large barrier dam for hatchery, with fish ladder on LB side. Release gate on LB side of dam can be opened, which could potentially pass fish if so desired.

WDFW Fish Passage and Diversion Inventory Database

Dam Assessment Report

Site ID: 1310230	Fish Use Potential: Yes	
Stream: Little White Salm	Tributary To: Columbia R. 29.0001	WRIA: 29.0131
Latitude: 45.72167	Longitude: -121.64050	PI Total:

Field Review Crew: Field Review Date:

Dam Name: <input type="text" value="Little White Salmon Hatch"/>	Reservoir Name: <input type="text"/>	
Primary Purpose: <input type="text" value="Other"/>	Type: <input type="text" value="Concrete"/>	Span: <input type="text" value="Full"/>

Assessment Parameters:

Length (m):	<input type="text" value="40.00"/>
Height (m):	<input type="text" value="3.00"/>
Water Surface Difference (m):	<input type="text" value="1.50"/>
Plunge Pool Depth (m):	<input type="text" value="2.00"/>



Results:

Barrier: <input type="text" value="Yes"/>	Passability (%): <input type="text" value="0"/>	Repair Status: <input type="text" value="UD"/>
Problem: <input type="text" value="2 step dam, w/drop of 1 and 1.5m. Constructed in 1975. Limited habitat above dam, w/Spirit Falls about 1/2 mile upstream- no anadromous fish passage above that point."/>		

Comments:

Fish can be manually passed upstream by hatchery personnel if desired.

Potential Habitat Gain:

Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>
-----------------------------------	----------------------------------	---------------------------------------	--------------------------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Fishway
- Dam
- Gravity Diversion
- Pump Diversion
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Pink
- Chum
- Chinook
- Coho
- Steelhead
- Sea Run Cutthroat
- Resident Trout
- Dolly/Bull Trout
- Brook Trout
-

Location/Directions:

Site Comments:

WDFW Fish Passage and Diversion Inventory Database

Fishway Description Report

Site ID: 1310231	Fish Use Potential: No
Stream:	Tributary To: Little White Salmon WRIA:
Latitude: 45.72167	Longitude: -121.64050 PI Total:

Field Review Crew: Field Review Date:

General Description:

Fishway Type: <input type="text" value="WP"/>	Construction Year: <input type="text" value="1975"/>	Attached To: <input type="text"/>
<input type="text" value="Can't count weirs or pools, since underground at top, greater than 14."/>		

Weir Pool, Pool Chute, Vertical Slot, and Steep Pass Fishway Components:

No. of Pools: <input type="text"/>	Number of Weirs: <input type="text"/>	Weir Type: <input type="text" value="Concrete"/>
Entrance Pool Depth (m): <input type="text" value="2"/>	Pool Head Difference (m): <input type="text" value=".2/.2/.2/.3/.3/.3"/>	

Streambed Elevation Controls:

Control Location: <input type="text"/>	Number of Controls: <input type="text"/>	Control Type: <input type="text"/>
--	--	------------------------------------

Culvert or Flume Components:

Comments:



Potential Habitat Gain:

Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>
-----------------------------------	----------------------------------	---------------------------------------	--------------------------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Just downstream of main hatchery dam, on LB side.

Site Comments:

Small culvert drains pollution abatement pond.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310232	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Little White Salmon	WRIA:
Latitude: 45.72135	Longitude: -121.640417	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.40"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.40"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.50"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

2 step outfall.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

Species Potential

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
- Brown Trout
- Steelhead

Location/Directions:

Above hatchery parking area.

Site Comments:

Small, steep creek. Water intake structure about 30 m upstream, used to collect nursery water, this pipe sends excess under the road. Mapped type 4 stream.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310233	Sequencer: 1.1	Fish Use Potential: No
Stream: Hillside Spring	Tributary To: Little White Salmon	WRIA: 29.0132
Latitude: 45.71970	Longitude: -121.64463	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="PCC"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.00"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.00"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

US side enclosed in cement with grate on top, can't access culvert.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

Species Potential

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
- Brown Trout
- Steelhead

Location/Directions:

Just upstream from culvert 1310233.

Site Comments:

Water intake for hatchery nursery water. Steep, small stream. Mapped type 4. Looks like there is some rock slide activity here.

WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310234	Fish Use Potential: No
Stream: Hillside Spring	Tributary To: Little White Salmon WRIA: 29.0132
Latitude: 45.7201333	Longitude: -121.6452500 SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Foot"/>	Point of Diversion: <input type="text" value="LB"/>
Diversion Dam: <input type="text" value="-1"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
 Mesh screen spans creek, within concrete box. Small backwatered pool at US side. Concrete box forms small dam.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

Species Potential

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
- Brown Trout
- Steelhead

Location/Directions:

On main road to hatchery facilities.

Site Comments:

2 pipes take excess spring water to lake. 2 gravity diversions up the hillside collect water for hatchery lower raceways. Most water is subsurface above these pipes currently. Type 9 springs, very steep.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310235	Sequencer: 1.2	Fish Use Potential: No
Stream: Roadside Spring	Tributary To: Drano Lake	WRIA: 29.0000
Latitude: 45.71830	Longitude: -121.64753	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.90"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.90"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="3.00"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Debris grate over US side of pipes, can't shoot.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

Species Potential

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
- Brown Trout
- Steelhead

Location/Directions:

On main road to hatchery facilities.

Site Comments:

Steep gradient spring, type 9. Water intake structure for hatchery lower raceways. Water temp is warmer than Little White Salmon, so used to increase growth times for hatchery fish.

WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310236	Fish Use Potential: No
Stream: Roadside Spring Tributary To: Drano Lake	WRIA: 29.0000
Latitude: 45.718317 Longitude: -121.647967	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Foot"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="-1"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
 Concrete box, with mesh screen on top, water drops down into pipe at bottom. Spans spring. Concrete box dams up small backwatered pool above screen.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

Species Potential

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
- Brown Trout
- Steelhead

Location/Directions:

On main road to hatchery facilities.

Site Comments:

Steep gradient spring, type 9. Water intake structure for hatchery lower raceways. Water temp is warmer than Little White Salmon, so used to increase growth times for hatchery fish. About 30m away from diversion 1310236.

WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310237	Fish Use Potential: No
Stream: Roadside Spring Tributary To: Drano lake	WRIA: 29.0000
Latitude: 45.718317 Longitude: -121.647950	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Foot"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="-1"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
 Concrete box, with mesh screen on top, water drops down into pipe at bottom. Spans spring. Concrete box dams up small backwatered pool above screen.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On main road to hatchery facilities.

Site Comments:

Road drainage for springs.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310238	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Drano Lake	WRIA:
Latitude: 45.7178500	Longitude: -121.6478667	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.50"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.50"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.60"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Rusted DS side. Perched. US side covered by cement on top.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On main road to hatchery facilities.

Site Comments:

Road drainage for springs.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310239	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Drano lake	WRIA:
Latitude: 45.7171000	Longitude: -121.6474333	PI Total:

Field Review Crew: Butler, Tschaekofske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.30"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.30"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="1.60"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Cement surrounding US side.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On main road to hatchery facilities.

Site Comments:

Road drainage for springs.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310240	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Drano lake	WRIA:
Latitude: 45.7158833	Longitude: -121.6463667	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.20"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.20"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.30"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Near outlet to Drano lake, next to Highway 14.

Site Comments:

Road drainage.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310241	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Drano lake	WRIA:
Latitude: 45.7121333	Longitude: -121.6484833	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.20"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.20"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.30"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On RB side of river, at northern edge of hatchery property.

Site Comments:

No anadromous access to this area, due to Spirit Falls DS (33 foot drop). Water intake structure for hatchery, which raises Coho that are transported from DS. Large boulders, moderate gradient river.

WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310242	Fish Use Potential: No
Stream: Little White Salm Tributary To: Columbia R. 29.0001	WRIA: 29.0131
Latitude: 45.7673500 Longitude: -121.6285500	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text" value="RB"/>
Diversion Dam: <input type="text" value="-1"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
 Concrete wall on RB side of river forms large, deep backwatered pool. Water piped to screened intake area, where excess water is returned to river, about 100 m DS. Grating over US intake entrance.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Up on old logging road, north of main facilities.

Site Comments:

Road drainage, ditch.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310243	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To:	WRIA:
Latitude: 45.7669833	Longitude: -121.6341167	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CAL"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.25"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.25"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.20"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Up on old logging road above hatchery facility.

Site Comments:

Intermittent stream, type 4, but only for resident fish. No passage above Spirit Falls DS on Little White Salmon River.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310244	Sequencer: 1.1	Fish Use Potential: No
Stream: Unnamed	Tributary To: Little White Salmon	WRIA: 29.0000
Latitude: 45.7664833	Longitude: -121.6434000	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.05"/>	Length (m): <input type="text" value="2.20"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text" value="0.35"/>	
Span (m): <input type="text" value="0.75"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text" value="2.80"/>	
Rise (m): <input type="text" value="0.75"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="0.10"/>		

Level A Parameters:

Bed Material Present:	<input type="text" value="No"/>
Outfall Drop (m):	<input type="text" value="0.35"/>
Culvert Slope (%):	<input type="text"/>
Ave. Bed Width (m):	<input type="text" value="0.70"/>
Culvert/Stream Width Ratio:	<input type="text" value="1.00"/>



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Fishway
- Dam
- Gravity Diversion
- Pump Diversion
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Pink
- Chum
- Chinook
- Coho
- Steelhead
- Sea Run Cutthroat
- Resident Trout
- Dolly/Bull Trout
- Brook Trout
-

Location/Directions:

At hatchery facilities. Drains directly into RB side of Columbia River.

Site Comments:

Fish ladder for hatchery, water collected from various springs above Highway 14. Bring Chinook up into hatchery for processing. No natural fish usage here.

WDFW Fish Passage and Diversion Inventory Database

Fishway Description Report

Site ID: 1310245	Fish Use Potential: No
Stream: Spring Creek	Tributary To: Columbia R. 29.0001 WRIA:
Latitude: 45.72753	Longitude: -121.54447 PI Total:

Field Review Crew: Field Review Date:

General Description:

Fishway Type: <input type="text" value="WP"/>	Construction Year: <input type="text" value="1975"/>	Attached To: <input type="text"/>
Influenced by wave action on the river up to weir 7, all weirs are pulleyed up off the concrete currently. Weirs are full metal sheet, w/ .5m x .5m notches at the top.		

Weir Pool, Pool Chute, Vertical Slot, and Steep Pass Fishway Components:

No. of Pools: <input type="text" value="14"/>	Number of Weirs: <input type="text" value="14"/>	Weir Type: <input type="text" value="Metal"/>
Entrance Pool Depth (m): <input type="text" value="1.6"/>	Pool Head Difference (m): <input type="text" value="0"/>	

Streambed Elevation Controls:

Control Location: <input type="text"/>	Number of Controls: <input type="text"/>	Control Type: <input type="text"/>
--	--	------------------------------------

Culvert or Flume Components:

Comments:

No Image Available

Potential Habitat Gain:

Survey Type: <input type="text"/>	Length (m): <input type="text"/>	Spawning (sq m): <input type="text"/>	Rearing (sq m): <input type="text"/>
-----------------------------------	----------------------------------	---------------------------------------	--------------------------------------

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

South side of Hwy 14, off hatchery entrance road.

Site Comments:

Large rock pollution abatement pond, drains out small pipe with gate. Closed and dry currently. Large dam wall surrounds pipe.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310246	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Columbia R. 29.0001	WRIA:
Latitude: 45.72477	Longitude: -121.55605	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="PCC"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.70"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.70"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="2.50"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Can't access culvert. Measurements are estimates. Fill is concrete.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On north side of HWY 14.

Site Comments:

Series of gravity diversions all bring spring water to this main diversion, which sends it to the fishladder at the hatchery. Used to be basis for "Spring Creek".

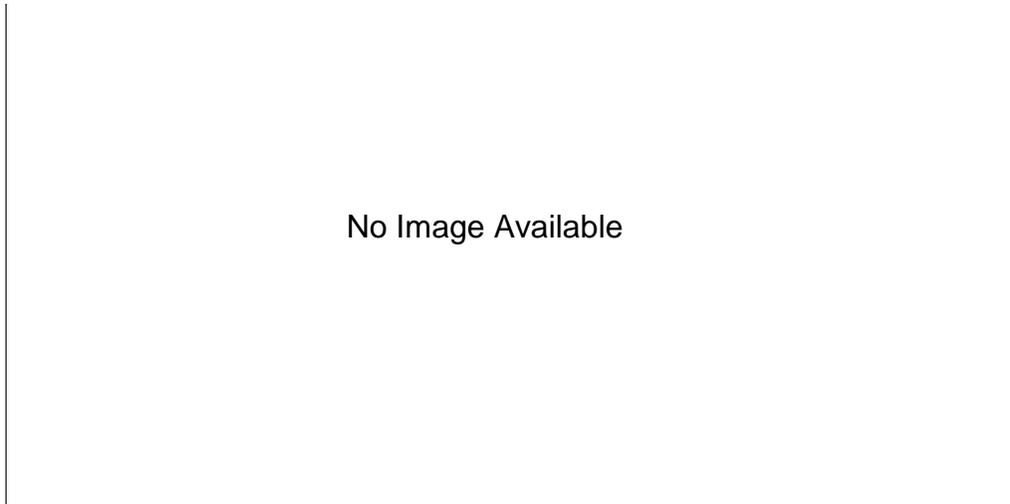
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310247	Fish Use Potential: No	
Stream: Spring Cr	Tributary To: Columbia R. 29.0001	WRIA:
Latitude: 45.72868	Longitude: -121.54487	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
Fine mesh screen on LB and RB sides of concrete diversion structure. Springs bubbling in and piped in.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On north side of Hwy 14.

Site Comments:

Spring water piped to main gravity diversion 1310247.

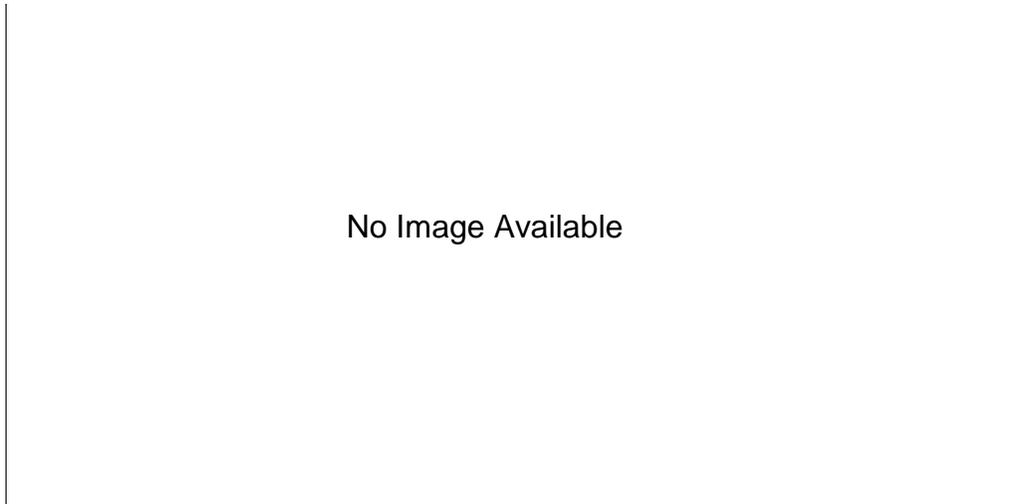
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310248	Fish Use Potential: No	
Stream:	Tributary To: Spring Cr.	WRIA:
Latitude: 45.728617	Longitude: -121.54560	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments: Small concrete box w/screen on top, water drops in and is piped to main diversion.
--

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On north side of Hwy 14.

Site Comments:

Spring water piped to main diversion from here. Pipe from US diversion runs into this area as well.

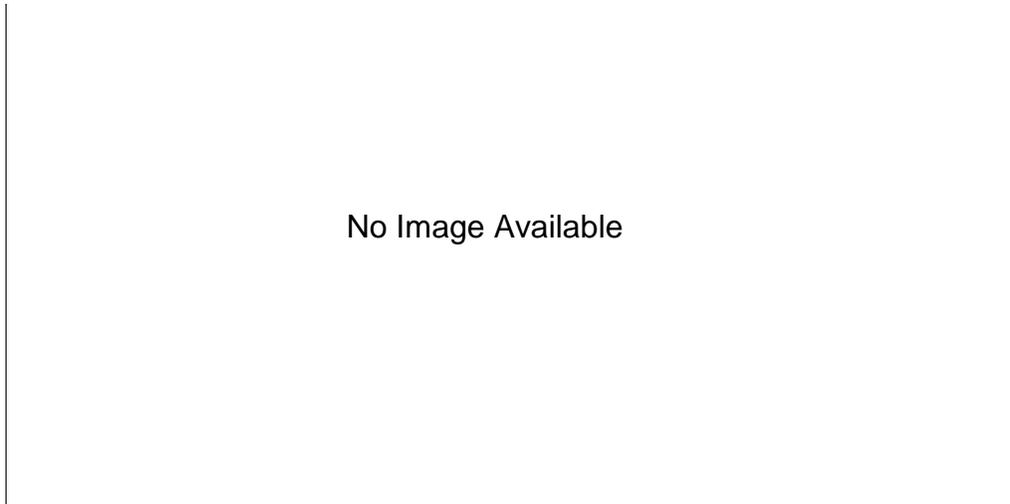
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310249	Fish Use Potential: No
Stream:	Tributary To: Spring Cr WRIA:
Latitude: 45.72858	Longitude: -121.54612 SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:
Screened: <input type="text" value="Yes"/> Screen Condition: <input type="text" value="OK"/>

Comments: Triangular wood box w/mesh screen in front, small backwatered pool above.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

North side of Hwy 14.

Site Comments:

Road drainage for spring, leads to gravity diversion about 15m DS.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310250	Sequencer: 1.1	Fish Use Potential: No
Stream:	Tributary To: Spring Cr	WRIA:
Latitude: 45.72853	Longitude: -121.54823	PI Total:

Field Review Crew: Butler, Tschaeokfske Field Review Date: 7/14/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.32"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.32"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text"/>	FillDepth: <input type="text" value="1.80"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:

No Image Available

Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

North side of Hwy 14.

Site Comments:

Spring water collects here, runs to main diversion eventually.

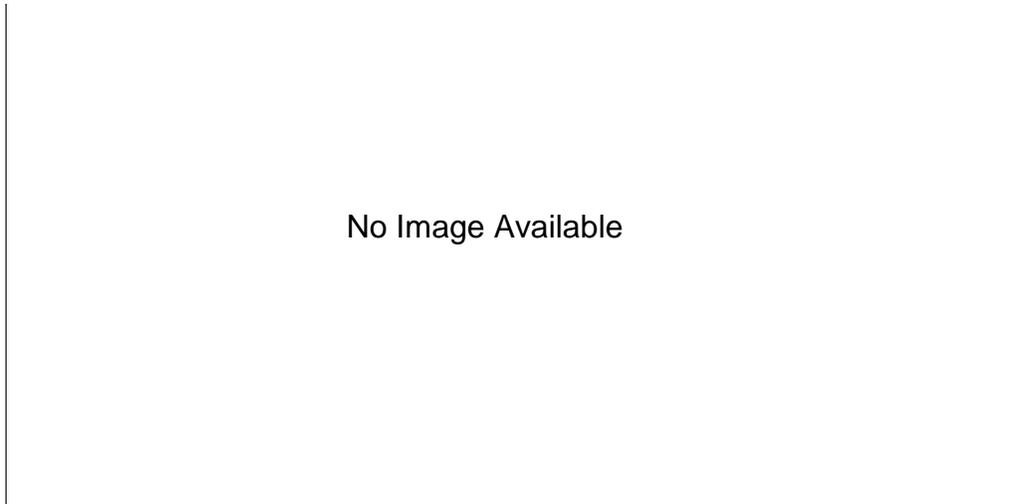
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310251	Fish Use Potential: No
Stream:	Tributary To: Spring Cr. WRIA:
Latitude: 45.72835	Longitude: -121.54835 SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:
Screened: <input type="text" value="Yes"/> Screen Condition: <input type="text" value="OK"/>

Comments: Drains through .25 m pipe which is behind a debris screen.
--

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

North side of Hwy 14.

Site Comments:

Several springs collect here. Runs to main diversion eventually.

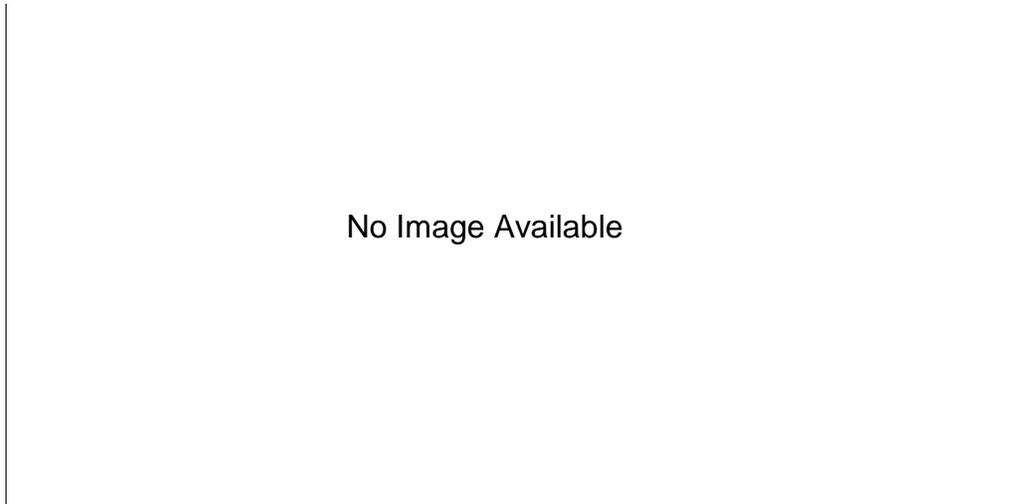
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310252	Fish Use Potential: No	
Stream:	Tributary To: Spring Cr	WRIA:
Latitude: 45.72853	Longitude: -121.54707	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Vehicle"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="0"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="Yes"/>	Screen Condition: <input type="text" value="OK"/>

Comments:
Several mesh boxes collect water, within a concrete area about 7 m long. Backwatered pool here.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

North side of Hwy 14

Site Comments:

Spring water collects behind concrete wall, currently open slot, drains to gravity diversion 1310249 DS.

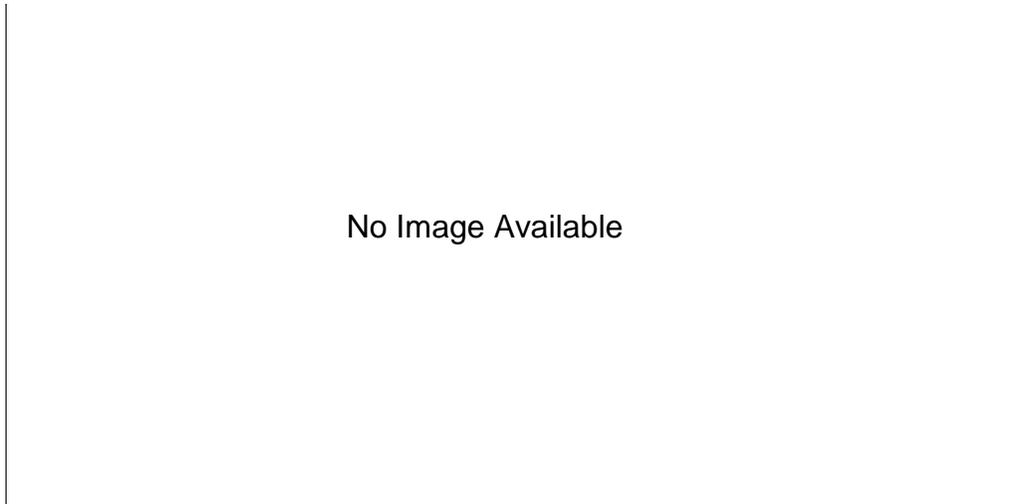
WDFW Fish Passage and Diversion Inventory Database
Gravity Diversion Assessment Report

Site ID: 1310253	Fish Use Potential: No	
Stream:	Tributary To: Spring Cr	WRIA:
Latitude: 45.72867	Longitude: -121.54665	SPI TOTAL:

Field Review Crew:

Field Review Date:

Diversion:	
Access By: <input type="text" value="Foot"/>	Point of Diversion: <input type="text"/>
Diversion Dam: <input type="text" value="-1"/>	Headgate: <input type="text" value="0"/>
Diversion Ditch Area (sq ft): <input type="text"/>	Flow (gpm): <input type="text"/>
Flow Derivation: <input type="text"/>	Water Right ID No: <input type="text"/>



Screen:	
Screened: <input type="text" value="No"/>	Screen Condition: <input type="text"/>

Comments: Open slot channels water to another diversion DS.

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Site Comments:

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310254	Sequencer: 1.1	Fish Use Potential: Unk
Stream:	Tributary To: Hardy Cr. 28.0303A	WRIA:
Latitude: 45.63380	Longitude: -121.99845	PI Total:

Field Review Crew: **Butler, Lantz** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="2.80"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="2.40"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="6.32"/>	FillDepth: <input type="text" value="0.60"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Barrier status is unknown as there is no accurate toe measurement.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Off main refuge road.

Site Comments:

WCS has gate in place blocking water. Intentional barrier to prevent fish entrainment in summer in upstream slough. Type 1 slough.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310255	Sequencer: 1.1	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Hardy Cr 28.0303A	WRIA: 28.0000
Latitude: 45.63370	Longitude: -121.99537	PI Total:

Field Review Crew: **Butler, Lantz** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.25"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CAL"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.90"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.90"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="18.90"/>	FillDepth: <input type="text" value="1.20"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

Water control structure is temporary barrier. Slope of culvert is also a barrier.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Off main refuge road.

Site Comments:

WCS has risers blocking. Intentional barrier to prevent fish entrainment in summer in upstream slough. Type 1 slough.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310256	Sequencer: 1.1	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Hardy Cr 28.0303A	WRIA: 28.0000
Latitude: 45.63348	Longitude: -121.99537	PI Total:

Field Review Crew: **Butler, Lantz** Field Review Date: **7/12/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.60"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.60"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="9.85"/>	FillDepth: <input type="text" value="0.45"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

WCS is temporary barrier, risers currently .5m. Barrier status would be 67% if risers removed, due to small slope barrier.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

Site Comments:

WDFW Fish Passage and Diversion Inventory Database
Level A Culvert Assessment Report

Site ID: 1310257	Fish Use Potential: Yes
Stream: Hardy Cr	Tributary To: Columbia R. 29.0001 WRIA: 28.0303A
Latitude: 45.63298	Longitude: -121.99702 PI Total:

Field Review Crew:

Field Review Date:

Description:
 Fish observed in channel, unknown species. Bridge length 14.2 m, wetted width under bridge 3.6 m. Wetted width of stream 4.5m



Results:
 Barrier: Passability (%): Repair Status:

Potential Habitat Gain:
 Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

In western section of refuge.

Site Comments:

Type 2 stream. Short habitat gain.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310258	Sequencer: 1.1	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Hardy Cr. 28.0303A	WRIA: 28.0000
Latitude: 45.62780	Longitude: -122.01477	PI Total:

Field Review Crew: Butler, Lantz Field Review Date: 7/12/2004

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.14"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="1.28"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="1.28"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="20.95"/>	FillDepth: <input type="text" value="2.60"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

WCS on US side, water flowing over boards currently. Risers .6m currently, with drop of .55m for water. Water control structure is temporary barrier, slope is permanent barrier.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

On western side of refuge.

Site Comments:

Drains large pond/ Pierce lake, to the Columbia River. Mapped type 1.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310259	Sequencer: 1.1	Fish Use Potential: Unk
Stream: Unnamed	Tributary To: Hardy CR 28.0303A	WRIA: 28.0000
Latitude: 45.62958	Longitude: -122.00705	PI Total:

Field Review Crew: **Butler, Lantz** Field Review Date: **7/13/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.02"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.80"/>	Apron: <input type="text" value="DS"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.80"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="25.40"/>	FillDepth: <input type="text" value="1.90"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%) Repair Status: Method:

Problem:

Comments:

water on DS end goes subsurface and then into a wetland. Wood risers currently 1.01 m high, w/water drop over risers of 1 m. Water control structure is temporary barrier, otherwise outfall is permanent barrier.

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):

WDFW Fish Passage and Diversion Inventory Database

Site Description Report

Site ID: Reported By: Project:

Geographic Coordinates

Latitude (WGS 84):
Longitude (WGS 84):
East (NAD 27):
North (NAD 27):

Owner

Name:
Type:

Evaluation Level Completed

- Report Logged
- Field Review
- Threshold Determination
- Expanded Threshold Determination
- Downstream Check
- Physical Survey

General Location

Road Name:
Mile Post:
County:
WDFW Region:
1/4 Section:
Section:
Township:
Range:

Associated Features

- Culvert
- Gravity Diversion
- Fishway
- Pump Diversion
- Dam
- Other

Waterbody

Stream:
Tributary To:
WRIA:
River Mile:
Fish Use Potential:
FUP Criteria:

- Sockeye
- Sea Run Cutthroat
- Pink
- Resident Trout
- Chum
- Dolly/Bull Trout
- Chinook
- Brook Trout
- Coho
-
- Steelhead

Location/Directions:

In center of refuge, old spur road.

Site Comments:

Road drainage for small spring to Pierce Lake.

WDFW Fish Passage and Diversion Inventory Database

Level A Culvert Assessment Report

Site ID: 1310260	Sequencer: 1.1	Fish Use Potential: No
Stream: Unnamed	Tributary To: Pierce Lake	WRIA:
Latitude: 45.63097	Longitude: -122.00565	PI Total:

Field Review Crew: **Butler, Lantz** Field Review Date: **7/13/2004**

Culvert Description		Plunge Pool	
Shape: <input type="text" value="RND"/>	Culvert H2O Depth (m): <input type="text" value="0.02"/>	Length (m): <input type="text"/>	
Material: <input type="text" value="CST"/>	Velocity (m/sec): <input type="text"/>	Max Depth (m): <input type="text"/>	
Span (m): <input type="text" value="0.50"/>	Apron: <input type="text" value="No"/>	OHW Width (m): <input type="text"/>	
Rise (m): <input type="text" value="0.50"/>	Tidegate: <input type="text" value="No"/>		
Length (m): <input type="text" value="7.82"/>	FillDepth: <input type="text" value="0.40"/>		

Level A Parameters:

Bed Material Present:

Outfall Drop (m):

Culvert Slope (%):

Ave. Bed Width (m):

Culvert/Stream Width Ratio:



Results:

Barrier: Passability (%): Repair Status: Method:

Problem:

Comments:

Potential Habitat Gain:

Survey Type: Length (m): Spawning (sq m): Rearing (sq m):