

# **Hoquiam Drainage - Barrier Inventory Results**

**Total sites inventoried = 298**

**Fish use of 298 inventoried sites**

Yes, fish bearing = 196

No, non fish bearing = 94

Unable to determine fish use status = 8

**Barrier status of 204 fish bearing sites (*Fish use = yes and unknown*)**

Yes, a barrier = 139

No, not a barrier = 20

Unable to determine barrier status = 45

**Percent passable of 139 Barrier Sites**

0% passable, total barrier = 7

33% passable, severe barrier = 58

67% passable, partial barrier = 74

**Ownership of 139 Fish Bearing, Barrier Sites**

Private = 13

Municipal = 22

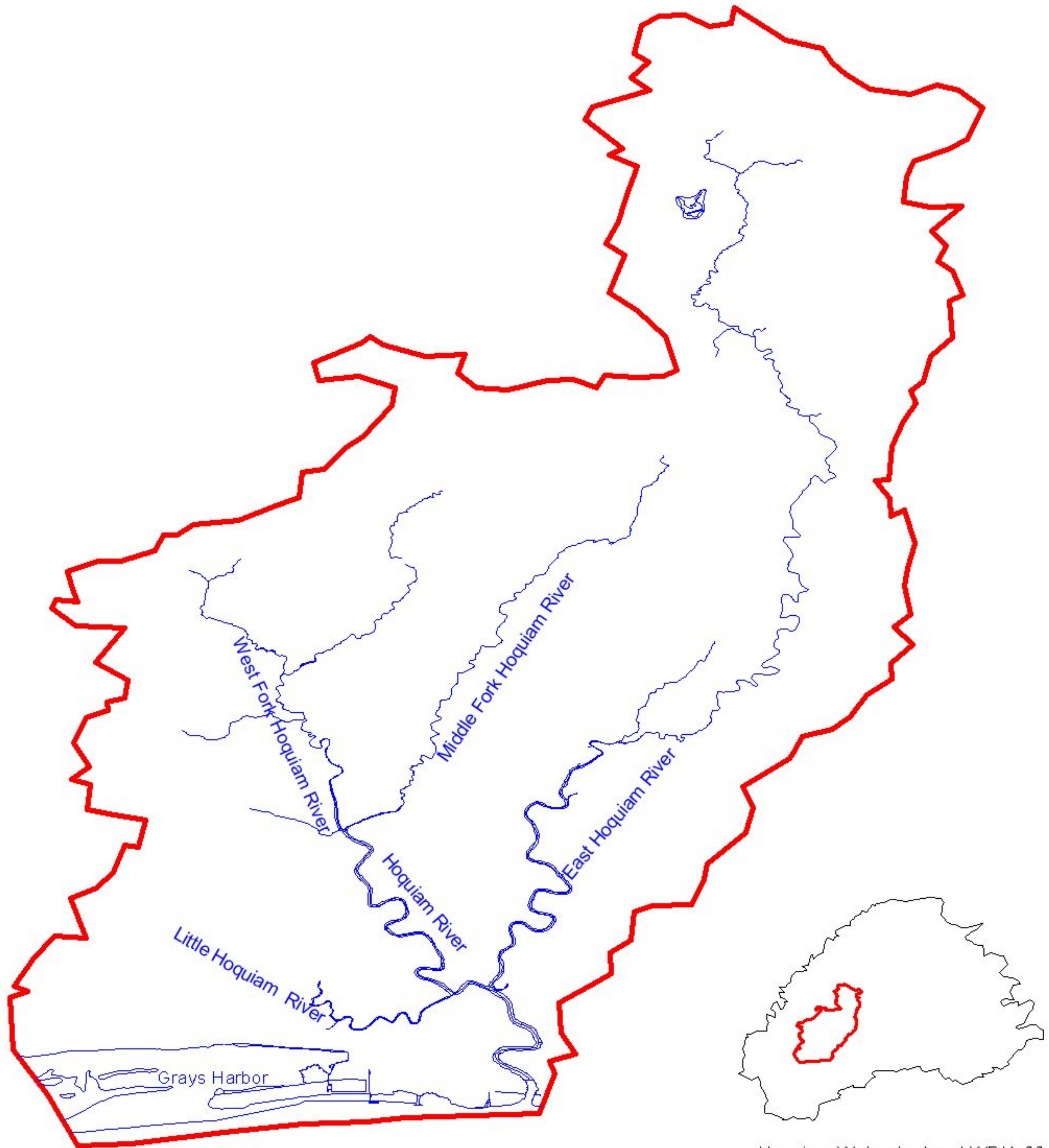
County = 34

State = 0

Federal = 0

Timber Companies = 70

# Hoquiam Watershed



Hoquiam Watershed and WRIA 22



Map by: Gavin Glore, Mason Conservation District



WRIA 22 and Washington State

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0001

Fish Use:

Yes

PI:

18.83

Barrier:

Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05640
Longitude:	-123.93079
WA state plane south (NAD 27, feet)	
East:	1,145,435
North:	647,002

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	Polson Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0176
Fish Use:	Yes
FUP Criteria:	Biological

### Location / Directions:

Water crossing is approximately 250 meters west of the Dekay Rd/US 101 junction.

### Site Comments:

Site needs level B analysis from WDFW. Will be evaluated as 67% passable as culvert is undersized (erring on the side of caution). Record will be updated when WDFW makes barrier determination.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBRQ
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	10.20
OHW (m)	8.60
Max Depth (m)	0.61

### CHANNEL DESCRIPTION

Toe Width (m)	8.00
Span/Toe Ratio	0.46

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	6233
Spawning (sq m)	3624
Rearing (sq m)	13471

### CULVERT DESCRIPTION

Sequencer:	1.2
Shape	BOX
Material	PCC
Span (m)	1.83
Rise (m)	1.61
Length (m)	15.57
Slope (%)	0.83
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.16
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Originally thought culvert had tidal influence, but found beaver dam on downstream check. Culvert data will be forwarded to WDFW for evaluation of multiple pipe sites..



## WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0001

Fish Use:

Yes

PI:

18.83

Barrier:

Unk

### CULVERT DESCRIPTION

Sequencer:	2.2
Shape	BOX
Material	PCC
Span (m)	1.83
Rise (m)	1.61
Length (m)	15.38
Slope (%)	0.59
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.10
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Beaver dam downstream impounding water - originally thought culvert had tidal influence, but found beaver dam on downstream check. Culvert will need to be analyzed by WDFW crew for Level B - we cannot perform level b analysis on multiple culvert sites.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0002

Fish Use: Yes

PI:

17.20

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05649
Longitude:	-123.94386
WA state plane south (NAD 27, feet)	
East:	1,142,182
North:	647,177

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	Polson Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0176
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.85 miles west of the Dekay Rd/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	13.00
OHW (m)	3.90
Max Depth (m)	0.37

### CHANNEL DESCRIPTION

Toe Width (m)	3.90
Span/Toe Ratio	0.78

### POTENTIAL HABITAT GAIN

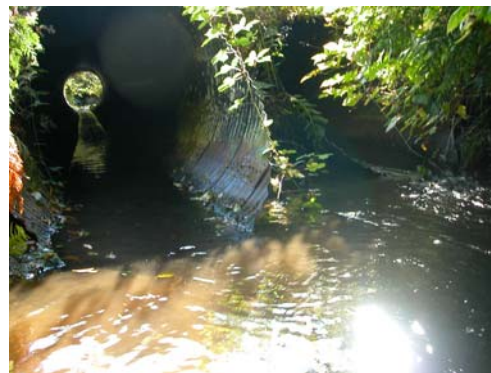
Survey Type:	FS
Length (m):	4524
Spawning (sq m)	2047
Rearing (sq m)	9518

### CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	1.51
Rise (m)	1.59
Length (m)	19.54
Slope (%)	1.33
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.24
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Pipe 1.2 was borderline for slope, shot slope 10 times to get a good sample. Pipe 1.2 is located on left bank.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0002

Fish Use:

Yes

PI:

17.20

Barrier:

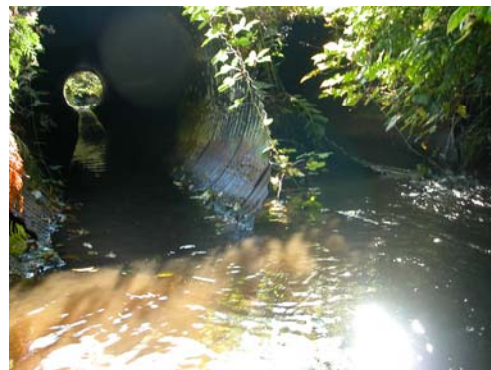
Yes

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	CST
Span (m)	1.52
Rise (m)	1.58
Length (m)	17.76
Slope (%)	0.82
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.14
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Pipe 2.2 is located on right bank.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0003

Fish Use: Yes

PI:

18.35

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05459
Longitude:	-123.95600
WA state plane south (NAD 27, feet)	
East:	1,139,130
North:	646,615

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	Polson Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0176
Fish Use:	Yes
FUP Criteria:	Biological

### Location / Directions:

Water crossing is approximately 0.70 miles east of the Ocean Beach Rd/Dekay Rd junction.

### Site Comments:

Juvenile coho observed in pool on upstream end of culvert. Right bank has private residence.

### SPECIES POTENTIAL

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

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	9.50
OHW (m)	6.20
Max Depth (m)	0.60

### CHANNEL DESCRIPTION

Toe Width (m)	3.70
Span/Toe Ratio	0.50

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	3149
Spawning (sq m)	295
Rearing (sq m)	6076

### CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	0.92
Rise (m)	0.95
Length (m)	12.71
Slope (%)	0.07
Bed Material	No
Outfall Drop (m)	0.37
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Culvert 1.2 is on right bank.



## WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0003

Fish Use:

Yes

PI:

18.35

Barrier:

Yes

### CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	CST
Span (m)	0.94
Rise (m)	0.92
Length (m)	13.30
Slope (%)	0.97
Bed Material	No
Outfall Drop (m)	0.27
WDIC (m)	0.14
Apron	No
Fill Depth (m)	1.00
Tidegate	No

#### Culvert Comments:

Culvert 2.2 is on left bank.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0004

Fish Use: Yes

PI:

11.83

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05092
Longitude:	-123.96284
WA state plane south (NAD 27, feet)	
East:	1,137,366
North:	645,353

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.25 miles east of the Ocean Beach Rd/Dekay Rd junction.

### Site Comments:

Wetland habitat dominated by sedges and high fine % in substrate immediately upstream of pipe.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	RR
Problem	depth

### PLUNGE POOL DESCRIPTION

Length (m)	10.00
OHW (m)	4.30
Max Depth (m)	0.70

### CHANNEL DESCRIPTION

Toe Width (m)	2.28
Span/Toe Ratio	0.40

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	1137
Spawning (sq m)	106
Rearing (sq m)	2015

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.92
Rise (m)	0.93
Length (m)	10.10
Slope (%)	0.79
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.16
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

4 inch x 4 inch rebar gate over upstream end. Level B evaluation indicates that pipe is a depth barrier.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0005

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04984
Longitude:	-123.96397
WA state plane south (NAD 27, feet)	
East:	1,137,068
North:	644,971

### EVALUATION LEVEL COMPLETED

<input checked="" type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input checked="" type="checkbox"/>	Downstream Check
<input checked="" type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Biological

### Location / Directions:

Water crossing is located 20 meters south of Dekay Rd on Green Crow access road. Access Rd/Dekay Rd junction is approximately 0.2 miles east of the Dekay Rd/Ocean Beach Rd

### Site Comments:

Wetlands upstream and downstream of culvert. Juvenile coho identified at site.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Green Crow Corporation
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	3.40
OHW (m)	2.30
Max Depth (m)	0.05

### CHANNEL DESCRIPTION

Toe Width (m)	1.60
Span/Toe Ratio	0.79

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.27
Rise (m)	1.27
Length (m)	12.41
Slope (%)	0.56
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.44
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Overflow hole in top of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0006

Fish Use: Yes

PI:

12.25

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05195
Longitude:	-123.96093
WA state plane south (NAD 27, feet)	
East:	1,137,859
North:	645,706

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.40 miles east of the Ocean Beach Rd/Dekay Rd junction. Located under driveway for residence @ 274 Dekay Rd.

### Site Comments:

Site has four pipes, one of which functions as an overflow.

### SPECIES POTENTIAL

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

### OWNER

Name:	Raymond and Betsy Lindholm
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	1266
Spawning (sq m)	144
Rearing (sq m)	2453

### CULVERT DESCRIPTION

Sequencer:	1.3
Shape	RND
Material	CAL
Span (m)	0.64
Rise (m)	0.61
Length (m)	6.72
Slope (%)	2.40
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.55
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Downstream control and toe not available due to wetland influence directly downstream of pipe. Upstream bank is reinforced with concrete. Pipe 1.3 is located on left bank.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0006

Fish Use:

Yes

PI:

12.25

Barrier:

Yes

## CULVERT DESCRIPTION

Sequencer:	2.3
Shape	RND
Material	CAL
Span (m)	0.65
Rise (m)	0.62
Length (m)	6.63
Slope (%)	1.20
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.56
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Pipe 2.3 is the center pipe.



## CULVERT DESCRIPTION

Sequencer:	3.3
Shape	RND
Material	CAL
Span (m)	0.63
Rise (m)	0.63
Length (m)	6.69
Slope (%)	0.75
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.48
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Pipe 3.3 is located on right bank.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0007

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04902
Longitude:	-123.96914
WA state plane south (NAD 27, feet)	
East:	1,135,768
North:	644,728

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.10 miles north of the Ocean Beach Rd/Dekay Rd junction.

### Site Comments:

Stream disappears 10 meters downstream, runs 30 meters underground through lawn and driveway to stream on backside of property.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/24/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.32
Rise (m)	0.32
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0008

Fish Use: Yes

PI:

9.57

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04746
Longitude:	-123.96647
WA state plane south (NAD 27, feet)	
East:	1,136,407
North:	644,132

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 100 meters south of the Ocean Beach Rd/Dekay Rd junction.

### Site Comments:

Culvert is scheduled for replacement by Grays Harbor County when road is realigned.

### SPECIES POTENTIAL

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

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/24/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	11.70
OHW (m)	4.40
Max Depth (m)	1.00

### CHANNEL DESCRIPTION

Toe Width (m)	1.86
Span/Toe Ratio	0.49

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	830
Spawning (sq m)	81
Rearing (sq m)	1369

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.91
Rise (m)	0.91
Length (m)	18.28
Slope (%)	0.38
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.18
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:

Sediments in pipe are fines, last 5 meters angled to left bank. Upstream end of pipe is box (106 span/125 rise) cast in place concrete. Level B not applicable due to grade break with culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0009

Fish Use: Unk

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 21  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03360  
Longitude: -123.92687  
WA state plane south (NAD 27, feet)  
East: 1,146,050  
North: 638,652

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0000  
Fish Use: Unk  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

Outflow of pipe buried, could not locate.  
Upstream end of pipe clogged with debris.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/24/2003  
Field Crew: Glore/Peterson  
Barrier: Unk  
Passability (%):  
Method: LA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.47  
Rise (m): 0.47  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m):  
WDIC (m):  
Apron:  
Fill Depth (m):  
Tidegate:

### Culvert Comments:

Unable to locate downstream end of culvert, probably buried. Not able to complete level A evaluation.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0010

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 21  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03424  
Longitude: -123.92837  
WA state plane south (NAD 27, feet)  
East: 1,145,686  
North: 638,899

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.47  
Rise (m): 0.47  
Length (m): 16.04  
Slope (%): 6.00  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Downstream end buried in fill from road grade, but still semi-accessible. No measurable plunge pool or toe.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0011

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	21
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03506
Longitude:	-123.93158
WA state plane south (NAD 27, feet)	
East:	1,144,900
North:	639,235

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	0.80
Span/Toe Ratio	0.40

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.32
Rise (m)	0.32
Length (m)	17.86
Slope (%)	6.30
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:

Downstream end partially buried, less than 10 cm of passable pipe. Plunge pool not accessible because downside end is buried.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0012

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: NW  
Section: 21  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03651  
Longitude: -123.93682  
WA state plane south (NAD 27, feet)  
East: 1,143,619  
North: 639,818

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.10 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.49  
Rise (m): 0.46  
Length (m): 42.20  
Slope (%): 2.04  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.06  
Apron: No  
Fill Depth (m): 10.00  
Tidegate: No

### Culvert Comments:

Downstream end is submerged, making plunge pool and toe impossible due to backwater. Upstream end of pipe is CST, Downstream end of pipe is PCC.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0013

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	20
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03833
Longitude:	-123.94322
WA state plane south (NAD 27, feet)	
East:	1,142,052
North:	640,550

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.10 miles northwest of the Ocean Beach Rd/US 101 junction.

### Site Comments:

OHW = 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	1.45
OHW (m)	0.90
Max Depth (m)	0.28

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	19.66
Slope (%)	0.20
Bed Material	No
Outfall Drop (m)	0.05
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.50
Tidegate	No

### Culvert Comments:

Bedrock cascade 5m DS of pipe (approx. 2 vertical meters) into subterranean flow. Emerges 3-8m DS in 3 separate flows. Pipe seems to be set on LB of natural stream bed. Level B not applicable due to DS subsurface flows.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0014

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 17  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03856  
Longitude: -123.94545  
WA state plane south (NAD 27, feet)  
East: 1,141,501  
North: 640,660

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.2 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.34  
Rise (m): 0.34  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m):  
WDIC (m):  
Apron:  
Fill Depth (m):  
Tidegate:

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0015

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 17  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04033  
Longitude: -123.94982  
WA state plane south (NAD 27, feet)  
East: 1,140,440  
North: 641,353

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.4 miles west of the Ocean Beach Rd/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop

### PLUNGE POOL DESCRIPTION

Length (m): 2.25  
OHW (m): 1.70  
Max Depth (m): 0.70

### CHANNEL DESCRIPTION

Toe Width (m): 1.10  
Span/Toe Ratio: 0.56

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.62  
Rise (m): 0.64  
Length (m): 28.80  
Slope (%): 0.10  
Bed Material: No  
Outfall Drop (m): 0.70  
WDIC (m): 0.07  
Apron: No  
Fill Depth (m): 7.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0016

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 17  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04219  
Longitude: -123.95551  
WA state plane south (NAD 27, feet)  
East: 1,139,052  
North: 642,093

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0173  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.7 miles west of the Ocean Beach Rd/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.90  
OHW (m): 3.00  
Max Depth (m): 0.95

### CHANNEL DESCRIPTION

Toe Width (m): 1.00  
Span/Toe Ratio: 1.82

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 1.82  
Rise (m): 1.82  
Length (m): 34.11  
Slope (%): 1.00  
Bed Material: No  
Outfall Drop (m): 0.35  
WDIC (m): 0.16  
Apron: No  
Fill Depth (m): 7.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0017

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Ocean Beach Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 17  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04229  
Longitude: -123.95948  
WA state plane south (NAD 27, feet)  
East: 1,138,065  
North: 642,170

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0173  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.75 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

Metal beam runs from both ends away from culvert to prevent debris clogging (see picture).

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 1.47  
Span/Toe Ratio: 0.83

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 1.22  
Rise (m): 1.22  
Length (m): 21.51  
Slope (%): 1.76  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Plunge pool measurements unavailable due to wetland influence downstream of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0018

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Abandoned Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 17  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04267  
Longitude: -123.96012  
WA state plane south (NAD 27, feet)  
East: 1,137,912  
North: 642,317

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0173  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.95 miles west of the Ocean Beach Rd/US 101 junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/25/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.90  
Span/Toe Ratio: 0.60

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.54  
Rise (m): 0.54  
Length (m): 16.57  
Slope (%): 2.77  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.27  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Downstream end of pipe submerged, no measurable plunge pool.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0019

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4013.1  
County: Grays Harbor  
1/4 Section: NE  
Section: 20  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03661  
Longitude: -123.95050  
WA state plane south (NAD 27, feet)  
East: 1,140,211  
North: 640,004

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Bernard Cr  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0172  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 10 meters southwest of the 4013/4013.1 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/26/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.50  
OHW (m): 2.60  
Max Depth (m): 0.90

### CHANNEL DESCRIPTION

Toe Width (m): 1.60  
Span/Toe Ratio: 0.70

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.12  
Rise (m): 1.07  
Length (m): 14.82  
Slope (%): 2.90  
Bed Material: No  
Outfall Drop (m): 0.80  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0020

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4013
County:	Grays Harbor
1/4 Section:	NE
Section:	20
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03647
Longitude:	-123.95166
WA state plane south (NAD 27, feet)	
East:	1,139,922
North:	639,967

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.30 miles southwest of the Ocean Beach Rd/4013 junction.

### Site Comments:

OHW = 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.20
OHW (m)	0.55
Max Depth (m)	0.40

### CHANNEL DESCRIPTION

Toe Width (m)	0.60
Span/Toe Ratio	0.70

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.42
Rise (m)	0.39
Length (m)	7.41
Slope (%)	5.60
Bed Material	No
Outfall Drop (m)	0.35
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Upstream bottom of pipe rusted out.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0021

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4013
County:	Grays Harbor
1/4 Section:	NE
Section:	20
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03515
Longitude:	-123.95435
WA state plane south (NAD 27, feet)	
East:	1,139,229
North:	639,514

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.50 miles southwest of the Ocean Beach Rd/4013 junction.

### Site Comments:

Pipe has failed, flow is subterranean through road grade 5 meters upstream from pipe.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	0
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	1.05
Span/Toe Ratio	0.61

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.65
Rise (m)	0.61
Length (m)	9.49
Slope (%)	4.60
Bed Material	No
Outfall Drop (m)	0.55
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Plunge pool measurements unavailable because pipe has failed and is no longer passing water.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0022

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4013  
County: Grays Harbor  
1/4 Section: NE  
Section: 30  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02298  
Longitude: -123.96533  
WA state plane south (NAD 27, feet)  
East: 1,136,299  
North: 635,199

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0161  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is immediately north of the 4013/4013.06 junction.

### Site Comments:

Water flowing through road grade.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0023

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4013  
County: Grays Harbor  
1/4 Section: NE  
Section: 30  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02231  
Longitude: -123.96516  
WA state plane south (NAD 27, feet)  
East: 1,136,330  
North: 634,955

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0161  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is immediately south of the 4013/4013.06 junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/26/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.20  
OHW (m): 1.60  
Max Depth (m): 0.70

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.51  
Rise (m): 0.47  
Length (m): 8.04  
Slope (%): -3.48  
Bed Material: No  
Outfall Drop (m): 0.65  
WDIC (m): 0.07  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Upstream end of culvert crushed. Wetland downstream prevents toe measurements. Culvert is sloped inversely.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0024

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4013  
County: Grays Harbor  
1/4 Section: NE  
Section: 30  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02185  
Longitude: -123.96578  
WA state plane south (NAD 27, feet)  
East: 1,136,170  
North: 634,793

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0161  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 100 meters west of the 4013/4013.06 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/26/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.80  
OHW (m): 2.00  
Max Depth (m): 0.50

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.77  
Rise (m): 0.78  
Length (m): 9.14  
Slope (%): 2.29  
Bed Material: No  
Outfall Drop (m): 0.32  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Wetland immediately downstream of plunge pool.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0025

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4013  
County: Grays Harbor  
1/4 Section: NE  
Section: 30  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02104  
Longitude: -123.96664  
WA state plane south (NAD 27, feet)  
East: 1,135,941  
North: 634,506

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0161  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles west of the 4013/4013.6 junction

### Site Comments:

No pipe. Stream flows subsurface under the road. OHW = 90 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0026

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Valley Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 6  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.99084  
Longitude: -123.97029  
WA state plane south (NAD 27, feet)  
East: 1,134,549  
North: 623,545

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Little Hoquiam River  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0155  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles northeast of the Valley Rd/SR 109 junction.

### Site Comments:

Wetland immediately downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/30/2003  
Field Crew: Glore/Peterson  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: SQSH  
Material: CST  
Span (m): 1.88  
Rise (m): 1.09  
Length (m): 13.16  
Slope (%): 0.22  
Bed Material: Unk  
Outfall Drop (m): 0.00  
WDIC (m): 0.45  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0027

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Valley Rd  
County: Grays Harbor  
1/4 Section: NW  
Section: 5  
Township: 17N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.99259  
Longitude: -123.96237  
WA state plane south (NAD 27, feet)  
East: 1,136,552  
North: 624,096

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Blazer Cr  
Tributary To: Little Hoquiam 22.0155  
WRIA: 22.0162  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.0 mile northwest of the Valley Rd/SR 109 junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/30/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 5.80  
OHW (m): 4.10  
Max Depth (m): 0.70

### CHANNEL DESCRIPTION

Toe Width (m): 1.80  
Span/Toe Ratio: 0.51

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.91  
Rise (m): 0.94  
Length (m): 12.03  
Slope (%): 1.75  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.15  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

2 inch PVC pipe running through culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0028

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Bay Ridge Estates
County:	Grays Harbor
1/4 Section:	SW
Section:	6
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98476
Longitude:	-123.98136
WA state plane south (NAD 27, feet)	
East:	1,131,691
North:	621,451

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is located in Bay Ridge Estates residential development.

### Site Comments:

Wetland immediately downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	John Karnas
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	6/30/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.22
Rise (m)	1.20
Length (m)	31.42
Slope (%)	0.50
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.55
Apron	No
Fill Depth (m)	4.00
Tidegate	No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0029

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Bay Ridge Estates  
County: Grays Harbor  
1/4 Section: SW  
Section: 6  
Township: 17N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.98481  
Longitude: -123.98229  
WA state plane south (NAD 27, feet)  
East: 1,131,460  
North: 621,479

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Little Hoquiam 22.0155  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is located in Bay Ridge Estates residential development.

### Site Comments:

Wetland immediately downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: John Karnas  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 6/30/2003  
Field Crew: Glore/Peterson  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.77  
Rise (m): 0.77  
Length (m): 23.59  
Slope (%): 0.11  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.11  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0030

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Grays Harbor Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 5  
Township: 17N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.98468  
Longitude: -123.95112  
WA state plane south (NAD 27, feet)  
East: 1,139,228  
North: 621,088

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Grays Harbor  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles north of the Grays Harbor Rd/SR 109 junction.

### Site Comments:

OHW = 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/1/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.30  
OHW (m): 1.40  
Max Depth (m): 0.50

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.48  
Rise (m): 0.47  
Length (m): 9.65  
Slope (%): 3.20  
Bed Material: No  
Outfall Drop (m): 0.22  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Toe measurement unattainable due to confluence immediately downstream of plunge pool, toe is near 0.60 meters.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0031

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Dr  
County: Grays Harbor  
1/4 Section: SE  
Section: 5  
Township: 17N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.98475  
Longitude: -123.95097  
WA state plane south (NAD 27, feet)  
East: 1,139,268  
North: 621,114

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Grays Harbor  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles north of the Grays Harbor Rd/SR 109 junction, beneath private drive for residence @ 14 Grays Harbor Rd.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Vendell and Patrick Sagerse  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/1/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.10  
OHW (m): 1.60  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 0.80  
Span/Toe Ratio: 0.58

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.46  
Rise (m): 0.47  
Length (m): 11.94  
Slope (%): 6.20  
Bed Material: No  
Outfall Drop (m): 0.40  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0032

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4017.3
County:	Grays Harbor
1/4 Section:	SE
Section:	1
Township:	17N
Range:	11W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98435
Longitude:	-123.98843
WA state plane south (NAD 27, feet)	
East:	1,129,920
North:	621,380

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Grays Harbor
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles south of the 4017.3/SR 109 junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	1.22
Rise (m)	1.24
Length (m)	18.08
Slope (%)	0.20
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.27
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0033

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4017.3
County:	Grays Harbor
1/4 Section:	SE
Section:	1
Township:	17N
Range:	11W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98347
Longitude:	-123.98912
WA state plane south (NAD 27, feet)	
East:	1,129,736
North:	621,067

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.60 miles south of the 4017.3/SR 109 junction.

### Site Comments:

OHW > 0.60 meters. Wetland immediately downstream of site.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	1.18
Rise (m)	1.24
Length (m)	15.40
Slope (%)	0.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.18
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0034

Fish Use: Unk

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4012.001  
County: Grays Harbor  
1/4 Section: SW  
Section: 18  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04569  
Longitude: -123.97660  
WA state plane south (NAD 27, feet)  
East: 1,133,856  
North: 643,600

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0177  
WRIA: 22.0000  
Fish Use: Unk  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.15 miles southeast of the 4012/4012.001 junction.

### Site Comments:

Wetland immediately downstream of site.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/1/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

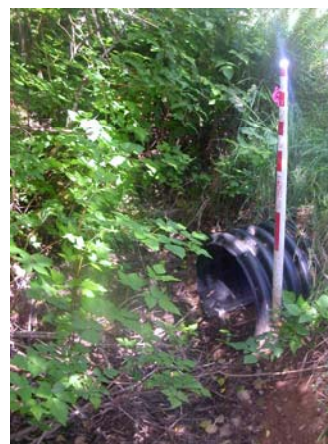
Survey Type:  
Length (m):  
Spawning (sq m):  
Rearing (sq m):

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.62  
Rise (m): 0.62  
Length (m): 12.62  
Slope (%): 2.10  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0035

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 1  
Township: 17N  
Range: 10N

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.98186  
Longitude: -123.87510  
WA state plane south (NAD 27, feet)  
East: 1,158,141  
North: 619,241

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.40 miles north of the E Hoquiam Rd/Riverside Rd junction.

### Site Comments:

Upstream is a gradient barrier. Downstream end is buried under fill with no apparent outlet. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.46  
Rise (m): 0.46  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m):  
WDIC (m): 0.02  
Apron:  
Fill Depth (m):  
Tidegate:

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0036

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Panhandle Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 35  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.00553  
Longitude: -123.88617  
WA state plane south (NAD 27, feet)  
East: 1,155,750  
North: 627,985

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.40 miles northwest of the E Hoquiam Rd/Panhandle Rd junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 0  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.64  
Length (m): 12.75  
Slope (%): 1.33  
Bed Material: Unk  
Outfall Drop (m): 0.00  
WDIC (m): 0.41  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Culvert is impounding water with a vertical overflow intake upstream. Steel grate have been fastened to both ends. Large wetlands upstream and downstream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0037

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Panhandle Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	35
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00541
Longitude:	-123.88626
WA state plane south (NAD 27, feet)	
East:	1,155,727
North:	627,943

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.45 miles southeast of the Panhandle Rd/E Hoquiam Rd junction.

### Site Comments:

Wetland habitat upstream and downstream of site.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	en Diamond Resource Comp
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.72
Rise (m)	0.68
Length (m)	12.87
Slope (%)	0.00
Bed Material	Unk
Outfall Drop (m)	0.00
WDIC (m)	0.68
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control. Both ends of pipe are completely submerged with brackish water.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0038

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Panhandle Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	35
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00362
Longitude:	-123.88630
WA state plane south (NAD 27, feet)	
East:	1,155,689
North:	627,289

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.60 miles southeast of the Panhandle Rd/E Hoquiam Rd junction.

### Site Comments:

Downstream end of culvert is diverted into private pond. Confluence with the E Hoquiam 80 meters downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.30
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.25
Tidegate	No

### Culvert Comments:

Water flows directly into private pond downstream, upstream has ditch delivery obscuring stream width measurements.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0039

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Panhandle Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	35
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00033
Longitude:	-123.88619
WA state plane south (NAD 27, feet)	
East:	1,155,665
North:	626,091

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.80 miles southeast of the Panhandle Rd/E Hoquiam Rd junction.

### Site Comments:

Wetland habitat upstream and downstream of site. OHW > 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.29
Rise (m)	0.29
Length (m)	9.65
Slope (%)	2.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influences.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0040

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	HQ-1000
County:	Grays Harbor
1/4 Section:	NE
Section:	35
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00619
Longitude:	-123.88710
WA state plane south (NAD 27, feet)	
East:	1,155,530
North:	628,236

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 100 meters northeast of the HQ-1000/Panhandle Rd junction.

### Site Comments:

OHW > 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	en Diamond Resource Comp
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	OT
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.40
OHW (m)	1.60
Max Depth (m)	0.50

### CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.15
WDIC (m)	
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:

US end buried by massive beaver dam, DS end of culvert is deformed and choked with beaver debris. Unable to obtain level A measurements.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0041

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	HQ-1000
County:	Grays Harbor
1/4 Section:	SE
Section:	26
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00762
Longitude:	-123.88681
WA state plane south (NAD 27, feet)	
East:	1,155,624
North:	628,754

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.15 miles northeast of the HQ-1000/Panhandle Rd junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	en Diamond Resource Comp
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	OT
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	0.90
OHW (m)	1.30
Max Depth (m)	0.25

### CHANNEL DESCRIPTION

Toe Width (m)	1.30
Span/Toe Ratio	0.57

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.74
Rise (m)	0.60
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:

Could not locate upstream end of culvert due to wetland. Pipe is either buried by fill or submerged.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0042

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: A-820  
County: Grays Harbor  
1/4 Section: NW  
Section: 22  
Township: 18N  
Range: 10N

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03173  
Longitude: -123.90688  
WA state plane south (NAD 27, feet)  
East: 1,151,000  
North: 637,752

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam R 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.30 miles north of the 4014.8/A-820 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.90  
OHW (m): 0.50  
Max Depth (m): 1.30

### CHANNEL DESCRIPTION

Toe Width (m): 1.00  
Span/Toe Ratio: 0.79

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.79  
Rise (m): 0.75  
Length (m): 22.55  
Slope (%): 4.80  
Bed Material: No  
Outfall Drop (m): 0.80  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 4.00  
Tidegate: No

### Culvert Comments:

Debris pile downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0043

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: HQ-1200  
County: Grays Harbor  
1/4 Section: SE  
Section: 26  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.01412  
Longitude: -123.88497  
WA state plane south (NAD 27, feet)  
East: 1,156,185  
North: 631,102

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.15 miles north of the HQ-1000/HQ-1200 junction.

### Site Comments:

OHW < 0.60 meters. Gradient barrier upstream and downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: en Diamond Resource Comp  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.40  
Rise (m): 0.42  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.70  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0044

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: HQ-1200  
County: Grays Harbor  
1/4 Section: SE  
Section: 26  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.01503  
Longitude: -123.88358  
WA state plane south (NAD 27, feet)  
East: 1,156,544  
North: 631,417

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles north of the HQ-1200/HQ-1000 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: en Diamond Resource Comp  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.80  
Span/Toe Ratio: 0.60

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.48  
Rise (m): 0.48  
Length (m): 11.48  
Slope (%): 8.20  
Bed Material: No  
Outfall Drop (m): 0.70  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

No plunge pool due to high gradient on downstream end of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0045

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: HQ-1200  
County: Grays Harbor  
1/4 Section: SE  
Section: 26  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.01595  
Longitude: -123.88123  
WA state plane south (NAD 27, feet)  
East: 1,157,146  
North: 631,728

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.55 miles north of the HQ-1200/HQ-1000 junction.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: en Diamond Resource Comp  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.38  
Rise (m): 0.40  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.70  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:

Debris pile downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0046

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: HQ-1200  
County: Grays Harbor  
1/4 Section: NE  
Section: 26  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.01736  
Longitude: -123.88092  
WA state plane south (NAD 27, feet)  
East: 1,157,243  
North: 632,237

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.65 miles north of the HQ-1200/HQ-1000 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: en Diamond Resource Comp  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.90  
Span/Toe Ratio: 0.70

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.63  
Length (m): 25.47  
Slope (%): 7.30  
Bed Material: No  
Outfall Drop (m): 0.30  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 6.00  
Tidegate: No

### Culvert Comments:

Debris pile downstream of pipe.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0047

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	HQ-1200
County:	Grays Harbor
1/4 Section:	NE
Section:	25
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.01998
Longitude:	-123.87954
WA state plane south (NAD 27, feet)	
East:	1,157,628
North:	633,178

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.85 miles northeast of the HQ-1200/HQ-1000 junction.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	en Diamond Resource Comp
Type:	Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.60
OHW (m)	1.30
Max Depth (m)	0.35

### CHANNEL DESCRIPTION

Toe Width (m)	0.80
Span/Toe Ratio	0.80

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.64
Rise (m)	0.64
Length (m)	27.88
Slope (%)	11.20
Bed Material	No
Outfall Drop (m)	0.95
WDIC (m)	0.02
Apron	No
Fill Depth (m)	8.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0048

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Greenwood Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 16  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13361  
Longitude: -123.80557  
WA state plane south (NAD 27, feet)  
East: 1,177,798  
North: 673,805

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0146  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.95 miles northeast of the Greenwood Rd/E Hoquiam Rd junction.

### Site Comments:

Stream flow parallel to road.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LB  
Repair Status: UD  
Problem: velocity

### PLUNGE POOL DESCRIPTION

Length (m): 6.30  
OHW (m): 3.30  
Max Depth (m): 0.75

### CHANNEL DESCRIPTION

Toe Width (m): 1.20  
Span/Toe Ratio: 0.53

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.64  
Length (m): 12.53  
Slope (%): 0.80  
Bed Material: No  
Outfall Drop (m): 0.15  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Water exits plunge pool on left bank and continues to run parallel with road. Substrate is hard pan aggregate, made up of gravel and fines.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0049

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4220.5  
County: Grays Harbor  
1/4 Section: SE  
Section: 3  
Township: 19N  
Range: 09N

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15717  
Longitude: -123.78582  
WA state plane south (NAD 27, feet)  
East: 1,183,067  
North: 682,185

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0146  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.15 miles west of the 4220.5/Greenwood Rd junction.

### Site Comments:

OHW = 0.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m): 0.45  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.65  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0050

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4220.5  
County: Grays Harbor  
1/4 Section: SE  
Section: 3  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15724  
Longitude: -123.78731  
WA state plane south (NAD 27, feet)  
East: 1,182,698  
North: 682,226

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.25 miles west of the 4220.5/Greenwood Rd junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 0.20  
OHW (m): 0.85  
Max Depth (m): 0.20

### CHANNEL DESCRIPTION

Toe Width (m): 0.70  
Span/Toe Ratio: 91.40

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.64  
Rise (m): 0.65  
Length (m): 7.60  
Slope (%): -1.97  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.30  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Downstream end of pipe smashed. Culvert is sloped inversely.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0051

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4220.53  
County: Grays Harbor  
1/4 Section: SW  
Section: 3  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15688  
Longitude: -123.79080  
WA state plane south (NAD 27, feet)  
East: 1,181,824  
North: 682,131

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0146  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 100 meters north of the 4220.5/4220.53 junction.

### Site Comments:

OHW = 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 1.70  
OHW (m): 1.10  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.33  
Rise (m): 0.33  
Length (m): 7.39  
Slope (%): 2.98  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.35  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0052

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4220.53
County:	Grays Harbor
1/4 Section:	SE
Section:	34
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.15881
Longitude:	-123.79236
WA state plane south (NAD 27, feet)	
East:	1,181,468
North:	682,849

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0146
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.20 miles north of the 4220.5/4220.53 junction.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	0.90
OHW (m)	1.00
Max Depth (m)	0.20

### CHANNEL DESCRIPTION

Toe Width (m)	1.10
Span/Toe Ratio	0.59

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.65
Rise (m)	0.65
Length (m)	10.91
Slope (%)	2.66
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0053

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4220  
County: Grays Harbor  
1/4 Section: SE  
Section: 34  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.17082  
Longitude: -123.78364  
WA state plane south (NAD 27, feet)  
East: 1,183,816  
North: 687,136

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.20 miles southeast of the 4220/4220.06 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.30  
OHW (m): 1.10  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 0.70  
Span/Toe Ratio: 0.47

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.33  
Rise (m): 0.33  
Length (m): 16.53  
Slope (%): 5.50  
Bed Material: No  
Outfall Drop (m): 0.22  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 12.00  
Tidegate: No

### Culvert Comments:

Car parts scattered in plunge pool.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0054

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4220  
County: Grays Harbor  
1/4 Section: SE  
Section: 34  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.17224  
Longitude: -123.78695  
WA state plane south (NAD 27, feet)  
East: 1,183,015  
North: 687,688

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is immediately north of the 4220/W170 junction.

### Site Comments:

Gradient barrier downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.33  
Rise (m): 0.33  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0055

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: W 700  
County: Grays Harbor  
1/4 Section: NW  
Section: 10  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14981  
Longitude: -123.79508  
WA state plane south (NAD 27, feet)  
East: 1,180,654  
North: 679,597

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0146  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.85 miles west of the W700/Greenwood Rd junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: en Diamond Resource Comp  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 12.45  
OHW (m): 3.40  
Max Depth (m): 0.55

### CHANNEL DESCRIPTION

Toe Width (m): 1.95  
Span/Toe Ratio: 0.48

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.94  
Rise (m): 0.96  
Length (m): 12.18  
Slope (%): 0.50  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Overflow pipe above main culvert. Beaver dam 15 meters downstream. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0056

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Greenwood Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 16  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12747  
Longitude: -123.80675  
WA state plane south (NAD 27, feet)  
East: 1,177,410  
North: 671,577

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles north of the Greenwood Rd/E Hoquiam Rd junction.

### Site Comments:

OHW > 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/8/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 4.50  
OHW (m): 0.80  
Max Depth (m): 0.50

### CHANNEL DESCRIPTION

Toe Width (m): 1.40  
Span/Toe Ratio: 0.56

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.78  
Rise (m): 0.79  
Length (m): 12.48  
Slope (%): 1.60  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.18  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Stream flow is subterranean upstream, 1.2 vertical meter partial barrier encountered 20 meters downstream of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0057

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.14614
Longitude:	-123.82529
WA state plane south (NAD 27, feet)	
East:	1,173,086
North:	678,576

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0148
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biological

### Location / Directions:

Water crossing is approximately 75 meters northeast of private road/E Hoquiam Rd junction.

### Site Comments:

Newly placed pipe. 50 meters up the road another pipe has been removed and road abandoned.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/9/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	0.65
Span/Toe Ratio	2.62

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.70
Rise (m)	1.35
Length (m)	12.32
Slope (%)	0.24
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

New culvert with no plunge pool. Juvenile coho caught in pools above and below culvert due to low flow conditions.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0058

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14802  
Longitude: -123.82619  
WA state plane south (NAD 27, feet)  
East: 1,172,893  
North: 679,269

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0148  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Available maps inadequate to describe location.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/9/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.48  
Rise (m): 0.45  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0059

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4222  
County: Grays Harbor  
1/4 Section: NE  
Section: 10  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14516  
Longitude: -123.79260  
WA state plane south (NAD 27, feet)  
East: 1,181,200  
North: 677,877

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles northwest of the 4222/Greenwood Rd junction.

### Site Comments:

Beaver dam plugging upstream end of pipe.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/9/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.10  
OHW (m): 2.40  
Max Depth (m): 0.15

### CHANNEL DESCRIPTION

Toe Width (m): 1.10  
Span/Toe Ratio: 0.85

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.94  
Rise (m): 0.94  
Length (m): 12.06  
Slope (%): 5.20  
Bed Material: No  
Outfall Drop (m): 0.03  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Wetlands upstream and downstream of site.  
Overflow pipe located above main culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0060

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4222  
County: Grays Harbor  
1/4 Section: NW  
Section: 10  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14622  
Longitude: -123.79544  
WA state plane south (NAD 27, feet)  
East: 1,180,510  
North: 678,295

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles northwest of the 4222/Greenwood Rd junction.

### Site Comments:

Beaver dam covering upstream end of culvert.  
OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/9/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.79  
Rise (m): 0.76  
Length (m): 11.49  
Slope (%): 2.40  
Bed Material: No  
Outfall Drop (m): 0.15  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Overflow pipe adjacent to main pipe. Wetland habitat upstream and downstream of site, no plunge pool or stream width measurements available.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0061

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05181
Longitude:	-123.96107
WA state plane south (NAD 27, feet)	
East:	1,137,822
North:	645,658

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.35 miles northeast of the Dekay Rd/ Ocean Beach Rd junction.

### Site Comments:

OHW = 0.6 meters. Upstream channel filled with debris.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/10/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	0.60
Span/Toe Ratio	0.40

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.24
Rise (m)	0.24
Length (m)	7.87
Slope (%)	3.40
Bed Material	No
Outfall Drop (m)	0.07
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Plunge pool measurements unavailable due to confluence immediately downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0062

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.30 miles northeast of the Dekay Rd/ Ocean Beach Rd junction.

### Site Comments:

OHW < 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:

Downstream end of pipe is crushed.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0063

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Dr  
County: Grays Harbor  
1/4 Section: SE  
Section: 17  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03972  
Longitude: -123.95027  
WA state plane south (NAD 27, feet)  
East: 1,140,318  
North: 641,135

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0173  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is located beneath private drive at 112 Ocean Beach Rd, approximately 1.4 miles northwest of the Ocean Beach Rd/US 101 junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Robert Inglin  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/10/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 9.40  
OHW (m): 4.20  
Max Depth (m): 1.40

### CHANNEL DESCRIPTION

Toe Width (m): 2.40  
Span/Toe Ratio: 0.40

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: SST  
Span (m): 0.96  
Rise (m): 0.96  
Length (m): 7.46  
Slope (%): -1.60  
Bed Material: No  
Outfall Drop (m): 0.22  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Old pipe is buried beneath functional culvert, visible on downstream end in plunge pool. Culvert is sloped inversely.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0064

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4222  
County: Grays Harbor  
1/4 Section: NE  
Section: 9  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14491  
Longitude: -123.80346  
WA state plane south (NAD 27, feet)  
East: 1,178,496  
North: 677,900

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0146  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.95 miles northwest of the 4222/Greenwood Rd junction.

### Site Comments:

Wet crossing on decommissioned road.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0065

Fish Use: Unk

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.60 miles west of the Dekay Rd/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method:   
Repair Status:   
Problem:

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:

Plunge pool and stream width measurements not available due to wetland habitat downstream of site.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0066

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.50 miles west of the Dekay Rd/US 101 junction. Near private driveway for 73 Dekay Rd.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method:   
Repair Status:   
Problem:

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:

Last segment of pipe is separated and failing.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0067

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Youmans Rd  
County: Grays Harbor  
1/4 Section: NW  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15075  
Longitude: -123.83466  
WA state plane south (NAD 27, feet)  
East: 1,170,828  
North: 680,355

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles southeast of the EF Hoquiam bridge on Youmans Rd.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/30/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.30  
OHW (m): 1.70  
Max Depth (m): 0.60

### CHANNEL DESCRIPTION

Toe Width (m): 0.70  
Span/Toe Ratio: 0.90

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.62  
Length (m): 18.51  
Slope (%): 2.40  
Bed Material: No  
Outfall Drop (m): 0.25  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0068

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Youmans Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14561  
Longitude: -123.82596  
WA state plane south (NAD 27, feet)  
East: 1,172,912  
North: 678,389

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0148  
Fish Use: Yes  
FUP Criteria: Biological

### Location / Directions:

Water crossing is approximately 0.90 miles southeast of the EF Hoquiam bridge on Youmans Rd.

### Site Comments:

Abundant juvenile coho upstream and downstream of site.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/30/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 9.00  
OHW (m): 0.60  
Max Depth (m): 7.50

### CHANNEL DESCRIPTION

Toe Width (m): 6.90  
Span/Toe Ratio: 0.42

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 2.91  
Rise (m): 2.06  
Length (m): 18.41  
Slope (%): 1.40  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.17  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0069

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is located at the E Hoquiam Rd/Youmans Rd junction, approximately 0.25 miles north of the E Hoquiam Rd/Greenwood Rd junction.

### Site Comments:

Natural point barrier 50 meters downstream of culvert, approximately 4 vertical meters.

### SPECIES POTENTIAL

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Sockeye   | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink      | <input type="checkbox"/> Resident Trout    |
| <input type="checkbox"/> Chum      | <input type="checkbox"/> Dolly/Bull Trout  |
| <input type="checkbox"/> Chinook   | <input type="checkbox"/> Brook Trout       |
| <input type="checkbox"/> Coho      | <input type="checkbox"/> Brown Trout       |
| <input type="checkbox"/> Steelhead |  |

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:

Hornet nest in log directly downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0070

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	8
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13874
Longitude:	-123.81939
WA state plane south (NAD 27, feet)	
East:	1,174,441
North:	675,818

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 100 meters north of the E Hoquiam Rd/Greenwood Rd junction.

### Site Comments:

OHW < 0.50 meters. Landowner reported that there is a natural point barrier downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.29
Rise (m)	0.29
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0071

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 100 meters north of the E Hoquiam Rd/Greenwood Rd junction, culvert is 3 meters downstream.

### Site Comments:

Landowner reports 5 meter natural point barrier downstream. OHW < 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0072

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is located near private drive @ 3050 East Hoquiam Rd, approximately 1.9 miles southeast of EF Hoquiam bridge.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:

Downstream end is crushed and broken.  
Potential natural point barrier downstream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0073

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is located near private driveway @ 2976 East Hoquiam Rd, approximately 0.65 miles northwest of the Greenwood Rd/E Hoquiam Rd junction.

### Site Comments:

OHW < 0.60 meters. Potential natural point barrier downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:

Pipe 1.2 is on left bank. Potential natural point barrier downstream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0073

Fish Use:

No

PI:

Barrier:

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	PCC
Span (m)	0.37
Rise (m)	0.37
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

Pipe 2.2 is on right bank. Potential natural point barrier downstream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0074

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 100 meters northwest of the Greenwood Rd/East Hoquiam Rd junction.

### Site Comments:

Natural point barrier downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0075

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.10 miles south of the Greenwood Rd/East Hoquiam Rd junction.

### Site Comments:

Natural point barrier downstream, visible from road.

### SPECIES POTENTIAL

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Sockeye   | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink      | <input type="checkbox"/> Resident Trout    |
| <input type="checkbox"/> Chum      | <input type="checkbox"/> Dolly/Bull Trout  |
| <input type="checkbox"/> Chinook   | <input type="checkbox"/> Brook Trout       |
| <input type="checkbox"/> Coho      | <input type="checkbox"/> Brown Trout       |
| <input type="checkbox"/> Steelhead |  |

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:

Bottom of pipe rusted out on downstream end.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0076

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.15 miles south of the Greenwood Rd/East Hoquiam Rd junction.

### Site Comments:

Natural point barrier downstream.

### SPECIES POTENTIAL

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Sockeye   | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink      | <input type="checkbox"/> Resident Trout    |
| <input type="checkbox"/> Chum      | <input type="checkbox"/> Dolly/Bull Trout  |
| <input type="checkbox"/> Chinook   | <input type="checkbox"/> Brook Trout       |
| <input type="checkbox"/> Coho      | <input type="checkbox"/> Brown Trout       |
| <input type="checkbox"/> Steelhead |  |

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0077

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	21
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.11487
Longitude:	-123.80803
WA state plane south (NAD 27, feet)	
East:	1,176,901
North:	667,000

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.10 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Stream meets minimum requirements for fish bearing status, but natural point barrier downstream.

### SPECIES POTENTIAL

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

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.30
OHW (m)	1.10
Max Depth (m)	0.40

### CHANNEL DESCRIPTION

Toe Width (m)	1.20
Span/Toe Ratio	0.50

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.61
Rise (m)	0.61
Length (m)	12.31
Slope (%)	0.32
Bed Material	No
Outfall Drop (m)	0.12
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Natural point barrier 25 meters downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0078

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.35 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Natural point barrier downstream. OHW = 0.50 meters.

### SPECIES POTENTIAL

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Sockeye   | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink      | <input type="checkbox"/> Resident Trout    |
| <input type="checkbox"/> Chum      | <input type="checkbox"/> Dolly/Bull Trout  |
| <input type="checkbox"/> Chinook   | <input type="checkbox"/> Brook Trout       |
| <input type="checkbox"/> Coho      | <input type="checkbox"/> Brown Trout       |
| <input type="checkbox"/> Steelhead |  |

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0079

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	28
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.10212
Longitude:	-123.81319
WA state plane south (NAD 27, feet)	
East:	1,175,420
North:	662,410

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.15 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Natural point barrier downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.46
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

Landowner who lives near culvert reports that there is a natural point barrier downstream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0080

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	33
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.09403
Longitude:	-123.81351
WA state plane south (NAD 27, feet)	
East:	1,175,217
North:	659,463

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.7 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Potential natural point barrier downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	8.20
OHW (m)	3.60
Max Depth (m)	1.70

### CHANNEL DESCRIPTION

Toe Width (m)	2.20
Span/Toe Ratio	0.57

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.26
Rise (m)	1.22
Length (m)	13.60
Slope (%)	1.60
Bed Material	No
Outfall Drop (m)	0.82
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0081

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	33
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.08832
Longitude:	-123.81329
WA state plane south (NAD 27, feet)	
East:	1,175,184
North:	657,381

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biological

### Location / Directions:

Water crossing is approximately 2.1 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Natural point barrier (approximately 10 meters high) 400 meters upstream according to multiple landowners.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	6.30
OHW (m)	4.30
Max Depth (m)	1.10

### CHANNEL DESCRIPTION

Toe Width (m)	2.50
Span/Toe Ratio	0.31

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.79
Rise (m)	0.79
Length (m)	25.44
Slope (%)	0.58
Bed Material	No
Outfall Drop (m)	0.35
WDIC (m)	0.08
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0082

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 33  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.08434  
Longitude: -123.81354  
WA state plane south (NAD 27, feet)  
East: 1,175,063  
North: 655,933

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 2.4 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Ordinary high water width is less than 0.6 meters. Possible natural point barrier downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/30/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.30  
Rise (m): 0.42  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron:  
Fill Depth (m):  
Tidegate:

### Culvert Comments:

Pipe smashed on upstream end.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0083

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	33
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.08147
Longitude:	-123.81469
WA state plane south (NAD 27, feet)	
East:	1,174,732
North:	654,898

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 2.6 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

OHW < 0.6 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.48
Rise (m)	0.48
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0084

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	18N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.07341
Longitude:	-123.81854
WA state plane south (NAD 27, feet)	
East:	1,173,650
North:	652,002

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biological

### Location / Directions:

Water crossing is approximately 3.3 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Juvenile coho identified downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.80
OHW (m)	1.30
Max Depth (m)	0.30

### CHANNEL DESCRIPTION

Toe Width (m)	1.90
Span/Toe Ratio	0.47

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.90
Rise (m)	0.90
Length (m)	15.17
Slope (%)	0.92
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.30
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0085

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 3.4 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

### Site Comments:

Downstream section of pipe beginning to separate and fail. Pipe empties into another stream immediately downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method:   
Repair Status:   
Problem:

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0086

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 5  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06710  
Longitude: -123.82082  
WA state plane south (NAD 27, feet)  
East: 1,172,985  
North: 649,725

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 6.25 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

2.5 meter partial barrier 8 meters downstream of pipe.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 0  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 5.50  
OHW (m): 3.30  
Max Depth (m): 1.00

### CHANNEL DESCRIPTION

Toe Width (m): 2.20  
Span/Toe Ratio: 0.35

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.76  
Rise (m): 0.76  
Length (m): 57.76  
Slope (%): 5.80  
Bed Material: No  
Outfall Drop (m): 2.10  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 13.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0087

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06458  
Longitude: -123.82249  
WA state plane south (NAD 27, feet)  
East: 1,172,530  
North: 648,826

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 6.05 miles north of the E Hoquiam Rd/Broadway Ave intersection. Just North of site 127Q0088(dual culverts).

### Site Comments:

Stream has been modified upstream by private landowners.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.50  
OHW (m): 1.10  
Max Depth (m): 0.45

### CHANNEL DESCRIPTION

Toe Width (m): 0.50  
Span/Toe Ratio: 1.50

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.75  
Rise (m): 0.75  
Length (m): 18.87  
Slope (%): 4.00  
Bed Material: No  
Outfall Drop (m): 0.30  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Channel is ditched on downstream end.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0088

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06413  
Longitude: -123.82187  
WA state plane south (NAD 27, feet)  
East: 1,172,679  
North: 648,655

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 6.05 miles north of the E Hoquiam Rd/Broadway Ave intersection, on private residence at 2210 E Hoquiam Rd.

### Site Comments:

Site is highly modified by landscaping/artificial waterfall.

### SPECIES POTENTIAL

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

### OWNER

Name: Joseph and Diedre Williams  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 0  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.50  
OHW (m): 1.60  
Max Depth (m): 0.30

### CHANNEL DESCRIPTION

Toe Width (m): 0.80  
Span/Toe Ratio: 1.16

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.2  
Shape: RND  
Material: PVC  
Span (m): 0.15  
Rise (m): 0.15  
Length (m): 9.70  
Slope (%): 6.20  
Bed Material: No  
Outfall Drop (m): 1.20  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Artificial waterfall on downstream end. Vertical intake on upstream end is 0.5 meters tall.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0088

Fish Use: Yes

PI:

Barrier: Yes

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	CST
Span (m)	0.78
Rise (m)	0.75
Length (m)	11.95
Slope (%)	3.70
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Vertical intake on upstream end of pipe is 2.0 meters tall.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0089

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06223  
Longitude: -123.82599  
WA state plane south (NAD 27, feet)  
East: 1,171,623  
North: 648,008

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 5.8 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

OHW < 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.47  
Rise (m): 0.47  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron:  
Fill Depth (m):  
Tidegate:

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0090

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 5.3 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

OHW < 0.6 meters.

### SPECIES POTENTIAL

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Sockeye   | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink      | <input type="checkbox"/> Resident Trout    |
| <input type="checkbox"/> Chum      | <input type="checkbox"/> Dolly/Bull Trout  |
| <input type="checkbox"/> Chinook   | <input type="checkbox"/> Brook Trout       |
| <input type="checkbox"/> Coho      | <input type="checkbox"/> Brown Trout       |
| <input type="checkbox"/> Steelhead |  |

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0091

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 5.25 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method:   
Repair Status:   
Problem:

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0092

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 5.1 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

OHW < 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0093

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05425
Longitude:	-123.83690
WA state plane south (NAD 27, feet)	
East:	1,168,783
North:	645,214

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 5.05 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

OHW < 0.6 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0094

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05419  
Longitude: -123.83769  
WA state plane south (NAD 27, feet)  
East: 1,168,586  
North: 645,199

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 5.0 miles north of the E Hoquiam Rd/Broadway Ave junction.

### SPECIES POTENTIAL

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

### Site Comments:

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 1.20  
Span/Toe Ratio: 0.64

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.77  
Rise (m): 0.77  
Length (m): 23.12  
Slope (%): 5.50  
Bed Material: No  
Outfall Drop (m): 3.50  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 3.00  
Tidegate: No

### Culvert Comments:

No plunge pool measurements due to confluence with adjacent stream. Outfall is onto 3.0 meter slide. Fish passage most likely zero.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0095

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 7  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05286  
Longitude: -123.84118  
WA state plane south (NAD 27, feet)  
East: 1,167,695  
North: 644,751

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 4.95 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Seasonal wetland upstream of pipe.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 3.80  
OHW (m): 2.70  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 1.10  
Span/Toe Ratio: 0.85

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.93  
Rise (m): 0.91  
Length (m): 18.28  
Slope (%): 0.30  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: Yes

### Culvert Comments:

Level B not applicable due to tidal influences.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0096

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 7  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05158  
Longitude: -123.84287  
WA state plane south (NAD 27, feet)  
East: 1,167,255  
North: 644,302

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Biological

### Location / Directions:

Water crossing is approximately 4.6 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Juvenile coho identified at site.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 6.10  
OHW (m): 3.90  
Max Depth (m): 0.80

### CHANNEL DESCRIPTION

Toe Width (m): 2.40  
Span/Toe Ratio: 0.39

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.94  
Rise (m): 0.94  
Length (m): 12.99  
Slope (%): 1.80  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.18  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0097

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: East Hoquiam Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 18  
Township: 18N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05138  
Longitude: -123.84557  
WA state plane south (NAD 27, feet)  
East: 1,166,580  
North: 644,260

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam R 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Biological

### Location / Directions:

Water crossing is approximately 4.5 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Juvenile coho identified downstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 8/7/2003  
Field Crew: Glore/Peterson  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.60  
OHW (m): 1.90  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 1.90  
Span/Toe Ratio: 0.50

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.95  
Rise (m): 0.95  
Length (m): 11.98  
Slope (%): 2.30  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.11  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Stream channel has been modified, filled stream with gravel substrate during road widening project.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0098

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Dr
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05159
Longitude:	-123.84593
WA state plane south (NAD 27, feet)	
East:	1,166,494
North:	644,340

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 4.5 miles north of the E Hoquiam Rd/Broadway Ave junction, beneath private drive for residence at 1957 E Hoquiam Rd.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Alan and Pamela Venes
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	1.80
OHW (m)	1.00
Max Depth (m)	0.25

### CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	0.85

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.85
Rise (m)	0.85
Length (m)	7.42
Slope (%)	0.94
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.17
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0099

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	18
Township:	18N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04958
Longitude:	-123.85389
WA state plane south (NAD 27, feet)	
East:	1,164,480
North:	643,693

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 4.05 miles northwest of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	1.60
OHW (m)	1.80
Max Depth (m)	0.20

### CHANNEL DESCRIPTION

Toe Width (m)	1.20
Span/Toe Ratio	0.78

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.94
Rise (m)	0.94
Length (m)	12.98
Slope (%)	0.00
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.22
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0100

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	13
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04601
Longitude:	-123.85995
WA state plane south (NAD 27, feet)	
East:	1,162,915
North:	642,456

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 3.65 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Stream meets physical requirements.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	4.80
OHW (m)	1.50
Max Depth (m)	0.35

### CHANNEL DESCRIPTION

Toe Width (m)	1.50
Span/Toe Ratio	0.41

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.62
Rise (m)	0.62
Length (m)	12.09
Slope (%)	1.20
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.08
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0101

Fish Use:

Yes

PI:

Barrier:

Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	24
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03345
Longitude:	-123.86962
WA state plane south (NAD 27, feet)	
East:	1,160,311
North:	637,979

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.6 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Wetlands upstream and downstream of culvert. OHW > 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.61
Rise (m)	0.61
Length (m)	12.20
Slope (%)	0.99
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.23
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0102

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 2.35 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

No defined stream channel upstream, wetland downstream of culvert. OHW < 0.60 meters.

### SPECIES POTENTIAL

- |                                    |  |
|------------------------------------|--|
| <input type="checkbox"/> Sockeye   | <input type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink      | <input type="checkbox"/> Resident Trout    |
| <input type="checkbox"/> Chum      | <input type="checkbox"/> Dolly/Bull Trout  |
| <input type="checkbox"/> Chinook   | <input type="checkbox"/> Brook Trout       |
| <input type="checkbox"/> Coho      | <input type="checkbox"/> Brown Trout       |
| <input type="checkbox"/> Steelhead |  |

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material   
Outfall Drop (m)   
WDIC (m)   
Apron   
Fill Depth (m)   
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0103

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	24
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.02835
Longitude:	-123.87003
WA state plane south (NAD 27, feet)	
East:	1,160,129
North:	636,126

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 2.2 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Wetland downstream of the pipe. Sculpins in pool upstream of pipe. OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.32
Rise (m)	0.32
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

Downstream end is buried and upstream end has broken off. Measurements not obtainable due to wetland downstream and failed culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0104

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	25
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.02561
Longitude:	-123.86764
WA state plane south (NAD 27, feet)	
East:	1,160,681
North:	635,102

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0140
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.0 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Site is backwatered at time of sample. Surrounding landowners report continued problems with beavers at this site.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	
Material	
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

Unable to obtain measurements because pipe is submerged out of sight on both ends. Wire mesh screen on upstream end of pipe, small beaver dam 10 meters downstream of pipe.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0105

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	25
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.01974
Longitude:	-123.86630
WA state plane south (NAD 27, feet)	
East:	1,160,925
North:	632,951

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.6 miles northwest of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Predominantly ditch drainage upstream of pipe. OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.00
OHW (m)	1.90
Max Depth (m)	0.60

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.60
Rise (m)	0.60
Length (m)	10.65
Slope (%)	0.66
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.60
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0106

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	25
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.01806
Longitude:	-123.86671
WA state plane south (NAD 27, feet)	
East:	1,160,796
North:	632,342

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.45 miles northwest of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.29
Rise (m)	0.29
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	1.00
Tidegate	

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0107

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	25
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.01366
Longitude:	-123.86791
WA state plane south (NAD 27, feet)	
East:	1,160,428
North:	630,750

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.1 miles northwest of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

3 pipes upstream on private property, need to get permission to survey. Address is 1416 E. Hoquiam Rd.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.30
OHW (m)	1.90
Max Depth (m)	0.50

### CHANNEL DESCRIPTION

Toe Width (m)	1.30
Span/Toe Ratio	0.35

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.46
Rise (m)	0.46
Length (m)	11.66
Slope (%)	2.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Stream channel is excavated on upstream end.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0108

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	36
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00639
Longitude:	-123.87211
WA state plane south (NAD 27, feet)	
East:	1,159,269
North:	628,146

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 2.6 miles north of the E Hoquiam Rd/Broadway Ave junction.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

### Site Comments:

Wetland habitat upstream and downstream. Culvert is near mapped stream crossing of unnamed 22.0139 which probably contributes flow. OHW>0.60m.

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### POTENTIAL HABITAT GAIN

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

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.42
Length (m)	11.15
Slope (%)	-1.51
Bed Material	Unk
Outfall Drop (m)	0.00
WDIC (m)	0.42
Apron	No
Fill Depth (m)	
Tidegate	No

### Culvert Comments:

Downstream channel is excavated through wetland. Backwatered ditch delivery upstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0109

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.30 miles north of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Wetland downstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method:   
Repair Status   
Problem

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0110

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	36
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00281
Longitude:	-123.87998
WA state plane south (NAD 27, feet)	
East:	1,157,251
North:	626,928

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.05 miles west of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.30
OHW (m)	2.80
Max Depth (m)	0.45

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CAL
Span (m)	0.58
Rise (m)	0.57
Length (m)	12.20
Slope (%)	1.15
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Rebar grate on upstream end of pipe. Toe width unavailable due to channel modification.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0110

Fish Use:

Yes

PI:

Barrier:

Yes

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	PCC
Span (m)	0.68
Rise (m)	0.68
Length (m)	11.47
Slope (%)	1.40
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Rebar grate on upstream end of pipe, end broken off lying in pool above pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0111

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SE
Section:	36
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00167
Longitude:	-123.88094
WA state plane south (NAD 27, feet)	
East:	1,156,993
North:	626,520

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 120 meters south of the E Hoquiam Rd/Broadway Ave junction.

### Site Comments:

Downstream channel excavated for approximately 30 meters. OHW > 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.80
OHW (m)	1.20
Max Depth (m)	0.35

### CHANNEL DESCRIPTION

Toe Width (m)	0.70
Span/Toe Ratio	0.47

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	0.33
Rise (m)	0.33
Length (m)	17.67
Slope (%)	-0.67
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.26
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Upstream end of culvert is precast concrete with a smooth steel pipe on downstream end. Level B not applicable due to grade break within culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0112

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Dr
County:	Grays Harbor
1/4 Section:	NW
Section:	1
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.99521
Longitude:	-123.88113
WA state plane south (NAD 27, feet)	
East:	1,156,846
North:	624,169

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is located beneath private drive for residence @ 1649 Broadway Ave.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.92
Rise (m)	0.92
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.15
Apron	No
Fill Depth (m)	0.30
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0113

Fish Use:

Unk

PI:

Barrier:

Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	NW
Section:	1
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.99340
Longitude:	-123.88115
WA state plane south (NAD 27, feet)	
East:	1,156,812
North:	623,510

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 50 meters north of the Ferry St/Broadway Ave junction.

### Site Comments:

Downstream channel is ditched flowing 20 meters to EF Hoquiam River confluence.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CAL
Span (m)	0.54
Rise (m)	0.54
Length (m)	11.70
Slope (%)	2.09
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.80
Tidegate	No

### Culvert Comments:

Culvert 1.2 fails due to 2.2 failure.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0113

Fish Use:

Unk

PI:

Barrier:

Yes

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	SST
Span (m)	0.46
Rise (m)	0.46
Length (m)	11.25
Slope (%)	-2.34
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.90
Tidegate	No

Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0114

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	NW
Section:	1
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.99094
Longitude:	-123.88005
WA state plane south (NAD 27, feet)	
East:	1,157,048
North:	622,603

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 250 meters south of the Ferry St/Broadway Ave junction.

### Site Comments:

Confluence with EF Hoquiam 40 meters downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.46
Length (m)	16.26
Slope (%)	2.05
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.20
Tidegate	No

### Culvert Comments:

Excavated ditch drainage upstream and downstream.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0115

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SW
Section:	1
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98714
Longitude:	-123.87594
WA state plane south (NAD 27, feet)	
East:	1,158,014
North:	621,173

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 115 meters south of the Rayonier St/Broadway Ave junction.

### Site Comments:

Confluence with EF Hoquiam approximately 35 meters downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.50
OHW (m)	0.25
Max Depth (m)	0.85

### CHANNEL DESCRIPTION

Toe Width (m)	0.60
Span/Toe Ratio	0.90

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	0.54
Rise (m)	0.52
Length (m)	18.38
Slope (%)	4.03
Bed Material	No
Outfall Drop (m)	0.05
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0116

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SW
Section:	1
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98327
Longitude:	-123.87352
WA state plane south (NAD 27, feet)	
East:	1,158,557
North:	619,736

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.45 miles northeast of the B St/Broadway Ave junction.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.63
Rise (m)	0.63
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	
WDIC (m)	0.02
Apron	No
Fill Depth (m)	4.00
Tidegate	No

### Culvert Comments:

Level A evaluation not possible, unable to locate downstream end.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0117

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SW
Section:	1
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98282
Longitude:	-123.87364
WA state plane south (NAD 27, feet)	
East:	1,158,521
North:	619,573

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.40 miles northeast of the B St/Broadway Ave junction.

### Site Comments:

Seasonal wetland upstream with no defined stream channel. Confluence with EF Hoquiam approximately 20 meters downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	1.00
OHW (m)	1.20
Max Depth (m)	0.60

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	0.60
Rise (m)	0.60
Length (m)	43.20
Slope (%)	0.00
Bed Material	No
Outfall Drop (m)	0.50
WDIC (m)	0.00
Apron	No
Fill Depth (m)	4.00
Tidegate	No

### Culvert Comments:

Stream width measurements not available due to ditching. Bars on upstream end of culvert act a grate. Second culvert 5 meters downstream, site 127Q0118.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0118

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:   
County:   
1/4 Section:   
Section:   
Township:   
Range:

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude:   
Longitude:   
WA state plane south (NAD 27, feet)  
East:   
North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:   
Tributary To:   
WRIA:   
Fish Use:   
FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.40 miles northeast of the B St/Broadway Ave junction. Downstream 5 meters from culvert 127Q0117.

### Site Comments:

Confluence with EF Hoquiam 10 meters downstream.

### SPECIES POTENTIAL

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

### OWNER

Name:   
Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:   
Field Crew:   
Barrier:   
Passability (%)   
Method:   
Repair Status:   
Problem:

### PLUNGE POOL DESCRIPTION

Length (m)   
OHW (m)   
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)   
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:   
Shape:   
Material:   
Span (m)   
Rise (m)   
Length (m)   
Slope (%)   
Bed Material:   
Outfall Drop (m)   
WDIC (m)   
Apron:   
Fill Depth (m)   
Tidegate:

### Culvert Comments:

Rebar grating on upstream end of culvert. Stream width measurements not available due to ditching. Fish passage most likely near zero.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0119

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Failor Lake Rd  
County: Grays Harbor  
1/4 Section: NW  
Section: 27  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.10482  
Longitude: -123.91430  
WA state plane south (NAD 27, feet)  
East: 1,150,305  
North: 664,467

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.40 miles west of the Failor Lake Rd/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 9/11/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 5.10  
OHW (m): 3.50  
Max Depth (m): 0.70

### CHANNEL DESCRIPTION

Toe Width (m): 0.95  
Span/Toe Ratio: 0.88

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.84  
Rise (m): 0.82  
Length (m): 12.21  
Slope (%): 4.00  
Bed Material: No  
Outfall Drop (m): 0.35  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0120

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Failor Lake Rd spur
County:	Grays Harbor
1/4 Section:	SW
Section:	27
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.10423
Longitude:	-123.91243
WA state plane south (NAD 27, feet)	
East:	1,150,763
North:	664,229

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0138
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 75 meters up first spur on Failor Lake Rd. Spur is approximately 0.30 miles west of the Failor Lake Rd/US 101 junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	9/11/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LB
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	4.10
OHW (m)	2.40
Max Depth (m)	0.80

### CHANNEL DESCRIPTION

Toe Width (m)	1.40
Span/Toe Ratio	0.75

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	1.05
Rise (m)	1.05
Length (m)	24.80
Slope (%)	0.44
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.03
Apron	No
Fill Depth (m)	5.00
Tidegate	No

### Culvert Comments:

Highly modified plunge pool, water flowing through rip rap at downstream control.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0121

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04287
Longitude:	-123.97090
WA state plane south (NAD 27, feet)	
East:	1,135,231
North:	642,508

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.3 miles west of Ocean Beach Rd/private logging rd junction.

### Site Comments:

Old timber puncheon is failing. OHW = 1.40 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Atkins Tree Farm LLC
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	
Field Crew:	
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	
Shape	
Material	
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0122

Fish Use: Yes

PI:

10.83

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04817
Longitude:	-123.96809
WA state plane south (NAD 27, feet)	
East:	1,136,015
North:	644,410

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 100 meters west of the Dekay Rd/Ocean Beach Rd junction. Located on private property.

### Site Comments:

Survey flagging above culvert " W L B 1".

### SPECIES POTENTIAL

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

### OWNER

Name:	Gronberg Credit Trust
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.66
OHW (m)	2.13
Max Depth (m)	0.35

### CHANNEL DESCRIPTION

Toe Width (m)	1.26
Span/Toe Ratio	0.49

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	291
Spawning (sq m)	44
Rearing (sq m)	780

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.60
Length (m)	7.54
Slope (%)	4.90
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.46
Apron	No
Fill Depth (m)	0.60
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0123

Fish Use: Yes

PI:

8.76

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04871
Longitude:	-123.97040
WA state plane south (NAD 27, feet)	
East:	1,135,450
North:	644,631

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 275 meters west of the Ocean Beach Rd/Dekay Rd junction. Located on private property behind house @ 455 Ocean Beach Rd.

### Site Comments:

Private residence on left bank with lawn to banks edge.

### SPECIES POTENTIAL

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

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.61
OHW (m)	2.08
Max Depth (m)	0.32

### CHANNEL DESCRIPTION

Toe Width (m)	1.18
Span/Toe Ratio	0.52

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	228
Spawning (sq m)	35
Rearing (sq m)	624

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	6.83
Slope (%)	2.30
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.28
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Thin layer of fine materials throughout pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0124

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Abandoned Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 18  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04846  
Longitude: -123.97117  
WA state plane south (NAD 27, feet)  
East: 1,135,254  
North: 644,547

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0177  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.20 miles northwest of the Ocean Beach Rd/Dekay Rd junction. Site is 0.10 miles south of Ocean Beach Rd on private property.

### Site Comments:

Site appears to be abandoned hydro powered mill.

### SPECIES POTENTIAL

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

### OWNER

Name: Arnold P Stroud  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0125

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Abandoned Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 18  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04822  
Longitude: -123.97169  
WA state plane south (NAD 27, feet)  
East: 1,135,119  
North: 644,467

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0177  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles northwest of the Dekay/Ocean Beach Rd junction. Site is 0.10 miles south of Ocean Beach Rd on private property.

### Site Comments:

Site is puncheon/cut and fill.

### SPECIES POTENTIAL

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

### OWNER

Name: Margie A Ricarte  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0126

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Dr  
County: Grays Harbor  
1/4 Section: SW  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05544  
Longitude: -123.95631  
WA state plane south (NAD 27, feet)  
East: 1,139,066  
North: 646,930

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Polson Cr 22.0176  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located beneath private drive for residence @ 230 Dekay Rd. Culvert is 30 meters north of Dekay Rd.

### Site Comments:

OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Judy Morgan  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 9/22/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.38  
Rise (m): 0.37  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.21  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0127

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Dr  
County: Grays Harbor  
1/4 Section: SW  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05597  
Longitude: -123.95639  
WA state plane south (NAD 27, feet)  
East: 1,139,055  
North: 647,124

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Polson Cr 22.0176  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located near house @ 230 Dekay Rd, approximately 50 meters north of Dekay Rd.

### Site Comments:

Culverts drain excavated holding pond located near residence, drains to culvert 127Q0126.

### SPECIES POTENTIAL

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

### OWNER

Name: Judy Morgan  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 9/22/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.2  
Shape: RND  
Material: PVC  
Span (m): 0.30  
Rise (m): 0.30  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 0.20  
Tidegate: No

### Culvert Comments:

1.2 is left bank culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0127

Fish Use:

No

PI:

Barrier:

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	PVC
Span (m)	0.30
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.01
Apron	No
Fill Depth (m)	0.50
Tidegate	No

### Culvert Comments:

2.2 is right bank culvert



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0128

Fish Use: Yes

PI:

9.60

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	17
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05162
Longitude:	-123.95255
WA state plane south (NAD 27, feet)	
East:	1,139,940
North:	645,495

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Site location is approximately 1.25 miles west of the Dekay Rd/US 101 junction. Culvert is on abandoned road 400 meters due south.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name:	Strimatter LC et al
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	1.23
Span/Toe Ratio	0.77

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	418
Spawning (sq m)	558
Rearing (sq m)	454

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.95
Rise (m)	0.95
Length (m)	7.19
Slope (%)	1.67
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.13
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Downstream end of pipe is recessed 0.5 meters. Upstream end is clogged with debris and pipe is squashed to oval shape. Plunge pool measurements unavailable as stream flows directly into riffles below the pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0129

Fish Use: Yes

PI:

9.20

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	9
Township:	18N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05802
Longitude:	-123.93939
WA state plane south (NAD 27, feet)	
East:	1,143,320
North:	647,684

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Site location is approximately 0.60 miles west of the Dekay Rd/US 101 junction. Culvert is 150 due north on abandoned road.

### Site Comments:

Pipe is obviously undersized.

### SPECIES POTENTIAL

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

### OWNER

Name:	Michael and Lyndee Snow
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	9/24/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	RR
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.03
OHW (m)	1.25
Max Depth (m)	0.30

### CHANNEL DESCRIPTION

Toe Width (m)	1.30
Span/Toe Ratio	0.15

### POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	626
Spawning (sq m)	129
Rearing (sq m)	258

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.20
Rise (m)	0.19
Length (m)	6.01
Slope (%)	13.30
Bed Material	No
Outfall Drop (m)	0.26
WDIC (m)	0.02
Apron	No
Fill Depth (m)	0.75
Tidegate	No

### Culvert Comments:

Upstream end of pipe sits above stream, water flows through and beneath the downstream end of the pipe. Fish passage most likely near zero.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0130

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5302
County:	Grays Harbor
1/4 Section:	SW
Section:	18
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13088
Longitude:	-123.84922
WA state plane south (NAD 27, feet)	
East:	1,166,901
North:	673,268

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 10 meters north of the 5300/5302 junction.

### Site Comments:

Small stream crosses beneath road twice before entering downstream wetland.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.64
OHW (m)	2.62
Max Depth (m)	0.27

### CHANNEL DESCRIPTION

Toe Width (m)	1.02
Span/Toe Ratio	0.58

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.59
Rise (m)	0.61
Length (m)	14.47
Slope (%)	0.97
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.15
Apron	No
Fill Depth (m)	1.30
Tidegate	No

### Culvert Comments:

Culvert fails for slope, margin of error makes 0.97=1%.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0131

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	18
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13097
Longitude:	-123.84939
WA state plane south (NAD 27, feet)	
East:	1,166,860
North:	673,303

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 20 meters west of the 5300/5302 junction.

### Site Comments:

Wetland downstream connected to stream flowing from pipe 127Q0130.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	1.02
Span/Toe Ratio	0.60

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	10.66
Slope (%)	0.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.61
Apron	No
Fill Depth (m)	1.20
Tidegate	No

### Culvert Comments:

Plunge pool obscured by downstream wetland (upstream toe = 1.02). Both ends of pipe submerged, upstream end deformed. Level B not applicable due to lack of downstream control.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0132

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5300  
County: Grays Harbor  
1/4 Section: NW  
Section: 18  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13211  
Longitude: -123.85261  
WA state plane south (NAD 27, feet)  
East: 1,166,077  
North: 673,752

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.1065  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles west of the 5300/5302 junction.

### Site Comments:

Wetland habitat upstream and downstream. Survey stake at site "5300, #4772, 2.038".

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/29/2003  
Field Crew: Gloire/Lutz  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 3.36  
OHW (m): 3.98  
Max Depth (m): 0.61

### CHANNEL DESCRIPTION

Toe Width (m): 1.54  
Span/Toe Ratio: 0.48

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.74  
Rise (m): 0.73  
Length (m): 10.71  
Slope (%): 0.37  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.69  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Toe measurement taken US of culvert. Level B not applicable due to wetland habitat.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0133

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300.324
County:	Grays Harbor
1/4 Section:	NE
Section:	24
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.12492
Longitude:	-123.85859
WA state plane south (NAD 27, feet)	
East:	1,164,480
North:	671,195

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.20 miles southwest of the 5300.3/5300.324 junction.

### Site Comments:

Survey stake at culvert: "5300.324, #5322, 0.181". Wetland vegetation upstream and downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	UD
Problem	velocity

### PLUNGE POOL DESCRIPTION

Length (m)	3.05
OHW (m)	1.25
Max Depth (m)	0.27

### CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	0.61

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	10.79
Slope (%)	1.95
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.23
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Small beaver dam approximately 50 meters downstream, stream flow decreases beyond.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0134

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SE
Section:	13
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13088
Longitude:	-123.86695
WA state plane south (NAD 27, feet)	
East:	1,162,492
North:	673,456

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.40 miles east of the 5300/US 101 junction.

### Site Comments:

Beaver dam 15 meters upstream of pipe.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	4.10
OHW (m)	1.70
Max Depth (m)	0.30

### CHANNEL DESCRIPTION

Toe Width (m)	0.65
Span/Toe Ratio	0.94

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	9.02
Slope (%)	2.70
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.22
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0135

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SE
Section:	13
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13098
Longitude:	-123.86795
WA state plane south (NAD 27, feet)	
East:	1,162,244
North:	673,504

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.30 miles east of the 5300/US 101 junction.

### Site Comments:

OHW = 0.30 meters. Stream is very small with perennial vegetation growing through the channel.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.36
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.15
Apron	No
Fill Depth (m)	0.90
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0136

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	13
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13095
Longitude:	-123.87328
WA state plane south (NAD 27, feet)	
East:	1,160,919
North:	673,549

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.10 miles east of the 5300/US 101 junction.

### Site Comments:

Perennial vegetation through channel on downstream end. No measurable OHW.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.85
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0137

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5300.1  
County: Grays Harbor  
1/4 Section: NE  
Section: 13  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13377  
Longitude: -123.86782  
WA state plane south (NAD 27, feet)  
East: 1,162,321  
North: 674,519

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.50 miles northeast of the 5300/5300.1 junction.

### Site Comments:

Ditch deliver upstream, small wetland downstream. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/29/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.38  
Rise (m): 0.39  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.24  
Apron: No  
Fill Depth (m): 0.30  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0138

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	13
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13085
Longitude:	-123.87607
WA state plane south (NAD 27, feet)	
East:	1,160,224
North:	673,541

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.95 miles east of the 5300/US 101 junction.

### Site Comments:

Stream flow is subsurface, unable to measure OHW.

### SPECIES POTENTIAL

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

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.44
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0139

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5300  
County: Grays Harbor  
1/4 Section: SW  
Section: 13  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13029  
Longitude: -123.87857  
WA state plane south (NAD 27, feet)  
East: 1,159,594  
North: 673,365

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.80 miles east of the 5300/US 101 junction.

### Site Comments:

Wetland habitat upstream and downstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 5.45  
OHW (m): 2.80  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 0.80  
Span/Toe Ratio: 0.55

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.44  
Rise (m): 0.44  
Length (m): 14.17  
Slope (%): 2.97  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Three pilings located at upstream end of culvert discourage debris jams in pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0140

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SE
Section:	14
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.12917
Longitude:	-123.88012
WA state plane south (NAD 27, feet)	
East:	1,159,191
North:	672,973

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.70 miles east of the 5300/US 101 junction.

### Site Comments:

Wetland habitat downstream of culvert with some wetland plants upstream. OHW = 0.25 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0141

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	14
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.12807
Longitude:	-123.89084
WA state plane south (NAD 27, feet)	
East:	1,156,507
North:	672,686

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.20 miles east of the 5300/US 101 junction.

### Site Comments:

Slash and debris in stream channel.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.45
OHW (m)	1.15
Max Depth (m)	0.20

### CHANNEL DESCRIPTION

Toe Width (m)	0.90
Span/Toe Ratio	1.01

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	0.91
Rise (m)	0.91
Length (m)	14.54
Slope (%)	4.19
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.26
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0142

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5300  
County: Grays Harbor  
1/4 Section: SW  
Section: 14  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12858  
Longitude: -123.89458  
WA state plane south (NAD 27, feet)  
East: 1,155,586  
North: 672,912

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located at the 5300/US 101 junction.

### Site Comments:

Upstream of culvert is ditch drainage.  
Intermittent subsurface flow downstream of site.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 1.30  
OHW (m): 0.55  
Max Depth (m): 0.10

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CAL  
Span (m): 0.45  
Rise (m): 0.39  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.09  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0143

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5300.5  
County: Grays Harbor  
1/4 Section: SE  
Section: 18  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12970  
Longitude: -123.84628  
WA state plane south (NAD 27, feet)  
East: 1,167,615  
North: 672,805

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles south of the 5300/5300.5 junction.

### Site Comments:

OHW = 0.10 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.46  
Rise (m): 0.46  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m):  
WDIC (m): 0.26  
Apron:  
Fill Depth (m):  
Tidegate:

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0144

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5300.6  
County: Grays Harbor  
1/4 Section: NW  
Section: 17  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13758  
Longitude: -123.83845  
WA state plane south (NAD 27, feet)  
East: 1,169,684  
North: 675,596

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0149  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.60 miles northeast of the 5300/5300.6 junction.

### Site Comments:

OHW = 0.40 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.30  
Rise (m): 0.30  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0145

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.13248
Longitude:	-123.83727
WA state plane south (NAD 27, feet)	
East:	1,169,899
North:	673,725

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0149
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.60 miles east of the 5300/5302 junction.

### Site Comments:

Survey stake at culvert: "5300, #4778, 20842".  
Wetlands upstream and downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.65
OHW (m)	1.15
Max Depth (m)	0.35

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.78
Rise (m)	0.76
Length (m)	10.82
Slope (%)	-0.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.32
Apron	No
Fill Depth (m)	1.80
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0146

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303  
County: Grays Harbor  
1/4 Section: SE  
Section: 18  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12908  
Longitude: -123.84817  
WA state plane south (NAD 27, feet)  
East: 1,167,134  
North: 672,600

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.20 miles south of the 5303/5300 junction.

### Site Comments:

No definitive stream channel or ordinary high water mark.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

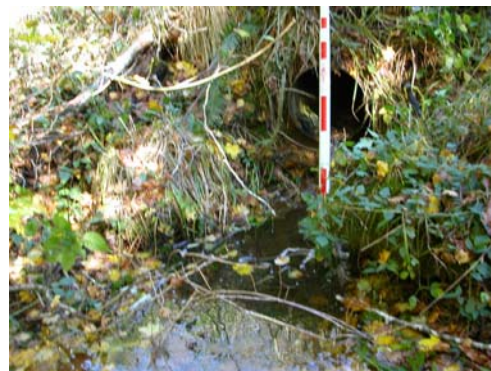
### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.45  
Rise (m): 0.49  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.30  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0147

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303  
County: Grays Harbor  
1/4 Section: NE  
Section: 19  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12402  
Longitude: -123.84788  
WA state plane south (NAD 27, feet)  
East: 1,167,129  
North: 670,754

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.55 miles south of the 5303/5300 junction.

### Site Comments:

OHW = 0.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

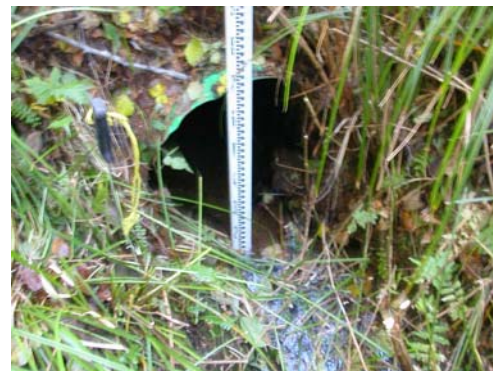
### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.59  
Rise (m): 0.59  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.09  
Apron: No  
Fill Depth (m): 2.20  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0148

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303.1  
County: Grays Harbor  
1/4 Section: NE  
Section: 19  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12269  
Longitude: -123.84064  
WA state plane south (NAD 27, feet)  
East: 1,168,909  
North: 670,191

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles east of the 5303/5303.1 junction.

### Site Comments:

No defined stream channel.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.63  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.15  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0149

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303.13  
County: Grays Harbor  
1/4 Section: NW  
Section: 20  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11875  
Longitude: -123.83217  
WA state plane south (NAD 27, feet)  
East: 1,170,954  
North: 668,669

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles south of the 5303.1/5303.13 junction.

### Site Comments:

Wetland upstream and downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.20  
OHW (m): 2.05  
Max Depth (m): 0.35

### CHANNEL DESCRIPTION

Toe Width (m): 0.65  
Span/Toe Ratio: 0.93

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m): 9.28  
Slope (%): 1.29  
Bed Material: No  
Outfall Drop (m): 0.02  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0150

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303.13  
County: Grays Harbor  
1/4 Section: NW  
Section: 20  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11761  
Longitude: -123.83330  
WA state plane south (NAD 27, feet)  
East: 1,170,656  
North: 668,264

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles south of the 5303.1/5303.13 junction.

### Site Comments:

OHW = 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 2.00  
OHW (m): 1.25  
Max Depth (m): 0.20

### CHANNEL DESCRIPTION

Toe Width (m): 0.55  
Span/Toe Ratio: 1.38

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.76  
Rise (m): 0.75  
Length (m): 10.71  
Slope (%): 3.64  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.25  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0151

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303.13  
County: Grays Harbor  
1/4 Section: NW  
Section: 20  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11695  
Longitude: -123.83510  
WA state plane south (NAD 27, feet)  
East: 1,170,198  
North: 668,041

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.45 miles south of the 5303.1/5303.13 junction.

### Site Comments:

OHW < 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.40  
Span/Toe Ratio: 0.80

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.32  
Rise (m): 0.34  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.04  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0152

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303.1  
County: Grays Harbor  
1/4 Section: NW  
Section: 20  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12015  
Longitude: -123.83028  
WA state plane south (NAD 27, feet)  
East: 1,171,447  
North: 669,157

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.90 miles east of the 5303.1/5303 junction.

### Site Comments:

OHW = 0.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.45  
Rise (m): 0.47  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.03  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0153

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303.1  
County: Grays Harbor  
1/4 Section: NW  
Section: 21  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12070  
Longitude: -123.81704  
WA state plane south (NAD 27, feet)  
East: 1,174,749  
North: 669,218

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.6 miles east of the 5303.1/5303 junction.

### Site Comments:

No definite stream channel or OHW.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.47  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.45  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0154

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5303
County:	Grays Harbor
1/4 Section:	SE
Section:	19
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.11542
Longitude:	-123.84470
WA state plane south (NAD 27, feet)	
East:	1,167,786
North:	667,585

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.10 miles south of the 5303/5300 junction.

### Site Comments:

High in-stream cover with substrate consisting of mostly gravel.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	16.50
OHW (m)	3.50
Max Depth (m)	1.70

### CHANNEL DESCRIPTION

Toe Width (m)	1.35
Span/Toe Ratio	1.10

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.49
Rise (m)	1.53
Length (m)	18.33
Slope (%)	2.24
Bed Material	No
Outfall Drop (m)	0.55
WDIC (m)	0.13
Apron	No
Fill Depth (m)	2.50
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0155

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303  
County: Grays Harbor  
1/4 Section: SE  
Section: 19  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11454  
Longitude: -123.84472  
WA state plane south (NAD 27, feet)  
East: 1,167,769  
North: 667,264

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.20 miles south of the 5300/5303 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 0.45  
OHW (m): 0.75  
Max Depth (m): 0.11

### CHANNEL DESCRIPTION

Toe Width (m): 0.70  
Span/Toe Ratio: 1.70

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.19  
Rise (m): 1.24  
Length (m): 12.15  
Slope (%): 1.00  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.12  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0156

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5303
County:	Grays Harbor
1/4 Section:	SE
Section:	19
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.11328
Longitude:	-123.84504
WA state plane south (NAD 27, feet)	
East:	1,167,669
North:	666,808

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.30 miles south of the 5300/5303 junction.

### Site Comments:

OHW = 1.20 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	1.23

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.23
Rise (m)	1.29
Length (m)	12.01
Slope (%)	1.08
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.19
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Plunge pool measurements unavailable due to wetland influence downstream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0157

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303  
County: Grays Harbor  
1/4 Section: SE  
Section: 19  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11168  
Longitude: -123.84586  
WA state plane south (NAD 27, feet)  
East: 1,167,439  
North: 666,237

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.40 miles south of the 5300/5303 junction.

### Site Comments:

Upstream of culvert has no defined stream channel.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.10  
OHW (m): 0.90  
Max Depth (m): 0.14

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.63  
Length (m): 9.53  
Slope (%): 4.90  
Bed Material: No  
Outfall Drop (m): 0.18  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0158

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5303
County:	Grays Harbor
1/4 Section:	NW
Section:	30
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.10870
Longitude:	-123.84918
WA state plane south (NAD 27, feet)	
East:	1,166,567
North:	665,183

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.65 miles south of the 5300/5303 junction.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	4.20
OHW (m)	1.80
Max Depth (m)	0.40

### CHANNEL DESCRIPTION

Toe Width (m)	0.75
Span/Toe Ratio	1.01

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.75
Length (m)	9.51
Slope (%)	2.50
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0159

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5303  
County: Grays Harbor  
1/4 Section: NW  
Section: 30  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.10476  
Longitude: -123.85116  
WA state plane south (NAD 27, feet)  
East: 1,166,015  
North: 663,769

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.95 miles south of the 5300/5303 junction.

### Site Comments:

OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/30/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 0.30  
OHW (m): 0.70  
Max Depth (m): 0.03

### CHANNEL DESCRIPTION

Toe Width (m): 0.55  
Span/Toe Ratio: 0.85

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.46  
Length (m): 12.59  
Slope (%): 1.90  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0160

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4014.2  
County: Grays Harbor  
1/4 Section: NE  
Section: 2  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.07667  
Longitude: -123.88803  
WA state plane south (NAD 27, feet)  
East: 1,156,401  
North: 653,926

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0170  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.45 miles north of the 4014.2/4014 junction.

### Site Comments:

Failing bridge is unsafe for motorized traffic.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0161

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5400  
County: Grays Harbor  
1/4 Section: NW  
Section: 26  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.10983  
Longitude: -123.89315  
WA state plane south (NAD 27, feet)  
East: 1,155,648  
North: 666,065

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0187  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.15 miles east of the 5400/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/3/2003  
Field Crew: Glore/Lutz  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 2.20  
Span/Toe Ratio: 1.08

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: SQSH  
Material: CST  
Span (m): 2.38  
Rise (m): 1.74  
Length (m): 17.98  
Slope (%): 0.40  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.12  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

No plunge pool as stream flows into riffles immediately downstream of pipe.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0162

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5400.23  
County: Grays Harbor  
1/4 Section: NE  
Section: 24  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.12379  
Longitude: -123.86728  
WA state plane south (NAD 27, feet)  
East: 1,162,301  
North: 670,875

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.20 miles north of the 5400/5400.23 junction.

### Site Comments:

Pipe is not visible, submerged upstream end due to wetland influence.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/3/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: outfall drop

### PLUNGE POOL DESCRIPTION

Length (m): 2.74  
OHW (m): 1.90  
Max Depth (m): 0.55

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.75  
Rise (m): 0.74  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.29  
WDIC (m): 0.05  
Apron: No  
Fill Depth (m): 4.00  
Tidegate: No

### Culvert Comments:

Wetland habitat upstream and downstream makes toe measurement unobtainable. Length and slope shots not possible, unable to locate upstream end of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0163

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	NW
Section:	36
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.08982
Longitude:	-123.87343
WA state plane south (NAD 27, feet)	
East:	1,160,240
North:	658,563

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.80 miles north of the 4014/4014.9 junction.

### Site Comments:

Upstream flow is mostly ditch drainage.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.65
OHW (m)	1.10
Max Depth (m)	0.25

### CHANNEL DESCRIPTION

Toe Width (m)	0.70
Span/Toe Ratio	1.10

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.77
Rise (m)	0.77
Length (m)	10.77
Slope (%)	3.34
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

3.5 meter high waterfall 15 meters downstream of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0164

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	NE
Section:	2
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.07949
Longitude:	-123.88183
WA state plane south (NAD 27, feet)	
East:	1,157,988
North:	654,888

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0171
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.95 miles north of the 4014/4014.9 junction.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	12.00
OHW (m)	7.00
Max Depth (m)	1.50

### CHANNEL DESCRIPTION

Toe Width (m)	2.30
Span/Toe Ratio	0.54

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.24
Rise (m)	1.25
Length (m)	28.49
Slope (%)	0.39
Bed Material	No
Outfall Drop (m)	1.60
WDIC (m)	0.12
Apron	No
Fill Depth (m)	5.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0165

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4014.9  
County: Grays Harbor  
1/4 Section: SE  
Section: 2  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.07331  
Longitude: -123.88475  
WA state plane south (NAD 27, feet)  
East: 1,157,166  
North: 652,665

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.60 miles north of the 4014/4014.9 junction.

### Site Comments:

Survey stake at culvert: "5303, #4865, 1.718".

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/4/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LB  
Repair Status: UD  
Problem: velocity

### PLUNGE POOL DESCRIPTION

Length (m): 4.00  
OHW (m): 2.00  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 2.10  
Span/Toe Ratio: 0.59

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.24  
Rise (m): 1.20  
Length (m): 15.23  
Slope (%): 0.07  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.11  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Hip chain in stream downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0166

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4014  
County: Grays Harbor  
1/4 Section: SE  
Section: 1  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06861  
Longitude: -123.86855  
WA state plane south (NAD 27, feet)  
East: 1,161,125  
North: 650,780

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Junction Cr  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0168  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.20 miles east of the 4014/4014.9 junction.

### Site Comments:

No stream channel upstream of the culvert.  
OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/4/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.79  
Rise (m): 0.77  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0167

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4014  
County: Grays Harbor  
1/4 Section: NW  
Section: 11  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06499  
Longitude: -123.89636  
WA state plane south (NAD 27, feet)  
East: 1,154,144  
North: 649,760

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0169  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.60 miles east of the 4014/US 101 junction.

### Site Comments:

Site is a puncheon/cut and fill. OHW = 1.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fleury and Pinckney  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0168

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4014  
County: Grays Harbor  
1/4 Section: SW  
Section: 3  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.07325  
Longitude: -123.91784  
WA state plane south (NAD 27, feet)  
East: 1,148,926  
North: 653,001

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.60 miles west of the 4014/4014.9 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/4/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.10  
OHW (m): 2.25  
Max Depth (m): 0.50

### CHANNEL DESCRIPTION

Toe Width (m): 1.40  
Span/Toe Ratio: 0.44

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m): 14.10  
Slope (%): 1.42  
Bed Material: No  
Outfall Drop (m): 0.19  
WDIC (m): 0.07  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0169

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4014.16  
County: Grays Harbor  
1/4 Section: SW  
Section: 15  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03914  
Longitude: -123.91590  
WA state plane south (NAD 27, feet)  
East: 1,148,872  
North: 640,549

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.85 miles south of the 4014.16/4014.1 junction.

### Site Comments:

Wetland habitat upstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/4/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.05  
OHW (m): 1.75  
Max Depth (m): 0.30

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.90  
Rise (m): 0.90  
Length (m): 12.86  
Slope (%): 3.19  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.10  
Apron: No  
Fill Depth (m): 3.00  
Tidegate: No

### Culvert Comments:

Unable to obtain toe or OHW width due to subsurface flows and wetland influence.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0170

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5203.33  
County: Grays Harbor  
1/4 Section: SE  
Section: 7  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14120  
Longitude: -123.84474  
WA state plane south (NAD 27, feet)  
East: 1,168,174  
North: 676,980

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0149  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles southeast of the 5302.3/5302.33 junction.

### Site Comments:

Perennial vegetation upstream and downstream of pipe. No discernable stream channel.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.45  
Rise (m): 0.45  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 0.70  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0171

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5203.33  
County: Grays Harbor  
1/4 Section: SE  
Section: 7  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14104  
Longitude: -123.84249  
WA state plane south (NAD 27, feet)  
East: 1,168,731  
North: 676,898

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0149  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.30 miles east of the 5203.3/5203.33 junction.

### Site Comments:

Perennial vegetation upstream and downstream of culvert with no discernable stream channel.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.45  
Rise (m): 0.45  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 0.85  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0172

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5203.33  
County: Grays Harbor  
1/4 Section: SE  
Section: 7  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14273  
Longitude: -123.84171  
WA state plane south (NAD 27, feet)  
East: 1,168,951  
North: 677,505

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0149  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles northeast of the 5203.3/5203.33 junction.

### Site Comments:

OHW = 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.60  
Rise (m): 0.60  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.10  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0173

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5203.33  
County: Grays Harbor  
1/4 Section: SE  
Section: 7  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14314  
Longitude: -123.84163  
WA state plane south (NAD 27, feet)  
East: 1,168,979  
North: 677,655

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0149  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.40 miles northeast of the 5203.3/5203.33 junction.

### Site Comments:

OHW = 0.29 meters. Some wetland/marsh habitat upstream.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.59  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.35  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.20  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0174

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5203.33
County:	Grays Harbor
1/4 Section:	SE
Section:	7
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.14493
Longitude:	-123.84167
WA state plane south (NAD 27, feet)	
East:	1,168,995
North:	678,308

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0149
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.55 miles northeast of the 5203.3/5203.33 junction.

### Site Comments:

Marshy areas upstream and downstream of pipe obscure ordinary high water mark. OHW>0.60m.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	4.50
OHW (m)	1.90
Max Depth (m)	0.30

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.59
Rise (m)	0.59
Length (m)	12.10
Slope (%)	3.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.22
Apron	No
Fill Depth (m)	1.20
Tidegate	No

### Culvert Comments:

Toe measurement unavailable as flow fans out through marshy area.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0175

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	NW
Section:	11
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06552
Longitude:	-123.89218
WA state plane south (NAD 27, feet)	
East:	1,155,193
North:	649,909

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 100 meters south of the 4014/4019 junction.

### Site Comments:

Stream flows next to the road for 15m DS before entering timber.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	0.70
OHW (m)	1.13
Max Depth (m)	0.13

### CHANNEL DESCRIPTION

Toe Width (m)	1.11
Span/Toe Ratio	0.68

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.76
Length (m)	17.87
Slope (%)	1.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.16
Apron	No
Fill Depth (m)	2.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0176

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NW
Section:	11
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06504
Longitude:	-123.89255
WA state plane south (NAD 27, feet)	
East:	1,155,093
North:	649,737

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.15 miles south of the 4014/4019 junction.

### Site Comments:

OHW = 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	0.59
Span/Toe Ratio	0.75

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.44
Rise (m)	0.44
Length (m)	15.62
Slope (%)	1.16
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.11
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

No plunge pool riffle at downstream end.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0177

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NW
Section:	11
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06258
Longitude:	-123.89440
WA state plane south (NAD 27, feet)	
East:	1,154,595
North:	648,861

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.30 miles south of the 4014/4019 junction.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

### Site Comments:

MF Hoquiam River is 20 meters downstream of pipe. The stream has intermittent subsurface flow downstream of the culvert, but the OHW > 0.60 meters.

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.24
OHW (m)	0.70
Max Depth (m)	0.15

### CHANNEL DESCRIPTION

Toe Width (m)	0.62
Span/Toe Ratio	1.04

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.60
Rise (m)	0.60
Length (m)	17.10
Slope (%)	11.50
Bed Material	No
Outfall Drop (m)	0.94
WDIC (m)	0.02
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0178

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019.81  
County: Grays Harbor  
1/4 Section: SW  
Section: 11  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05858  
Longitude: -123.89163  
WA state plane south (NAD 27, feet)  
East: 1,155,222  
North: 647,372

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.20 miles east of the 4014.9/4019.81 junction.

### Site Comments:

OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 1.35  
Span/Toe Ratio: 0.66

### POTENTIAL HABITAT GAIN

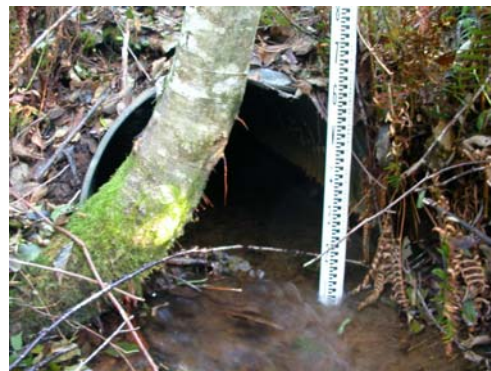
Survey Type:  
Length (m):  
Spawning (sq m):  
Rearing (sq m):

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.90  
Rise (m): 0.84  
Length (m): 12.46  
Slope (%): 1.70  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 2.20  
Tidegate: No

### Culvert Comments:

Riffles at downstream end of pipe, Level B not applicable due to lack of downstream control.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0179

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019  
County: Grays Harbor  
1/4 Section: SW  
Section: 11  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05797  
Longitude: -123.89645  
WA state plane south (NAD 27, feet)  
East: 1,154,011  
North: 647,202

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.65 miles south of the 4014/4019 junction.

### Site Comments:

Same stream system as site 127Q0178.

### SPECIES POTENTIAL

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

### OWNER

Name: Scott S Pinckney Trust  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.90  
OHW (m): 4.60  
Max Depth (m): 0.65

### CHANNEL DESCRIPTION

Toe Width (m): 1.97  
Span/Toe Ratio: 0.53

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.05  
Rise (m): 1.05  
Length (m): 18.90  
Slope (%): 2.75  
Bed Material: No  
Outfall Drop (m): 1.15  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 3.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0180

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019.82
County:	Grays Harbor
1/4 Section:	SW
Section:	11
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05242
Longitude:	-123.89620
WA state plane south (NAD 27, feet)	
East:	1,153,987
North:	645,179

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 125 meters east of the 4019.82/4019 junction.

### Site Comments:

Small stream is very steep, near gradient barrier. Intermittent subsurface flows upstream of pipe. OHW = 0.50 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Scott S Pinckney Trust
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.60
Rise (m)	0.58
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0181

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019.82  
County: Grays Harbor  
1/4 Section: NW  
Section: 14  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05162  
Longitude: -123.89161  
WA state plane south (NAD 27, feet)  
East: 1,155,117  
North: 644,838

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Junction Cr 22.0168  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles east of the 4019.82/4019 junction.

### Site Comments:

Stream channel is poorly defined both upstream and downstream. OHW = 0.30 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.45  
Rise (m): 0.41  
Length (m):  
Slope (%):  
Bed Material: Unk  
Outfall Drop (m):  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0182

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019.82  
County: Grays Harbor  
1/4 Section: NW  
Section: 14  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05156  
Longitude: -123.89258  
WA state plane south (NAD 27, feet)  
East: 1,154,874  
North: 644,825

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Junction Cr 220168  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles east of the 4019/4019.82 junction.

### Site Comments:

Intermittent subsurface flows downstream, OHW = 0.35 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.46  
Rise (m): 0.45  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.25  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0183

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019  
County: Grays Harbor  
1/4 Section: NW  
Section: 14  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.05186  
Longitude: -123.89718  
WA state plane south (NAD 27, feet)  
East: 1,153,735  
North: 644,982

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.05 miles south of the 4014/4019 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

Intermittent subsurface flows downstream of the pipe. OHW not available due to wetland influence.

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop; slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.61  
Length (m): 20.63  
Slope (%): 7.00  
Bed Material: No  
Outfall Drop (m): 1.35  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 3.00  
Tidegate: No

### Culvert Comments:

Plunge pool and stream width measurements unavailable due to wetland influence. Hinged addition on downstream end of pipe, outfall is onto debris pile.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0184

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NW
Section:	14
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.05027
Longitude:	-123.89746
WA state plane south (NAD 27, feet)	
East:	1,153,639
North:	644,408

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	Junction Cr
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0168
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.15 miles south of the 4014/4019 junction.

### Site Comments:

Nice stream with high quality habitat. Evidence of recent survey work indicates possible plans to replace the culvert.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	9.80
OHW (m)	5.50
Max Depth (m)	1.30

### CHANNEL DESCRIPTION

Toe Width (m)	2.13
Span/Toe Ratio	0.68

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.45
Rise (m)	1.54
Length (m)	26.71
Slope (%)	2.80
Bed Material	No
Outfall Drop (m)	0.45
WDIC (m)	0.09
Apron	No
Fill Depth (m)	4.00
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0185

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.1  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06368  
Longitude: -123.95273  
WA state plane south (NAD 27, feet)  
East: 1,140,089  
North: 649,891

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles north of the 4016/4016.1 junction.

### Site Comments:

Intermittent flows for about 25 meters downstream of pipe. OHW = 0.40 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.62  
Rise (m): 0.62  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.22  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 4.50  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0186

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019  
County: Grays Harbor  
1/4 Section: NW  
Section: 14  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04857  
Longitude: -123.89845  
WA state plane south (NAD 27, feet)  
East: 1,153,367  
North: 643,797

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.30 miles south of the 4014/4019 junction.

### Site Comments:

MF Hoquiam confluence is 25 meters downstream of site.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.82  
OHW (m): 1.51  
Max Depth (m): 0.26

### CHANNEL DESCRIPTION

Toe Width (m): 0.70  
Span/Toe Ratio: 0.64

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PCC  
Span (m): 0.45  
Rise (m): 0.45  
Length (m): 20.74  
Slope (%): 6.50  
Bed Material: No  
Outfall Drop (m): 0.34  
WDIC (m): 0.05  
Apron: No  
Fill Depth (m): 5.00  
Tidegate: No

### Culvert Comments:

Last meter of pipe is dislodged creating grade break in pipe. Upstream end of pipe is round corrugated steel.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0187

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SE
Section:	15
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04484
Longitude:	-123.90209
WA state plane south (NAD 27, feet)	
East:	1,152,401
North:	642,480

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.60 miles south of the 4014/4019 junction.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	3.25
OHW (m)	1.60
Max Depth (m)	0.45

### CHANNEL DESCRIPTION

Toe Width (m)	1.60
Span/Toe Ratio	0.55

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.88
Rise (m)	0.91
Length (m)	13.62
Slope (%)	4.30
Bed Material	No
Outfall Drop (m)	0.24
WDIC (m)	0.04
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0188

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SE
Section:	15
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04295
Longitude:	-123.90251
WA state plane south (NAD 27, feet)	
East:	1,152,266
North:	641,794

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.75 miles south of the 4014/4019 junction.

### Site Comments:

Primarily ditch delivery upstream, marshy wetland downstream of the pipe. OHW < 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.44
Rise (m)	0.44
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.04
WDIC (m)	0.01
Apron	No
Fill Depth (m)	0.75
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0189

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4019  
County: Grays Harbor  
1/4 Section: SE  
Section: 15  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.04158  
Longitude: -123.90282  
WA state plane south (NAD 27, feet)  
East: 1,152,167  
North: 641,297

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.85 miles south of the 4014/4019 junction.

### Site Comments:

OHW = 0.30 meters with intermittent subsurface flows.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/5/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.44  
Rise (m): 0.45  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.30  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.40  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0190

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SE
Section:	15
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03872
Longitude:	-123.90439
WA state plane south (NAD 27, feet)	
East:	1,151,732
North:	640,274

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.10 miles south of the 4014/4019 junction.

### Site Comments:

Large wetlands upstream and downstream. Downstream appears to be tidally influenced. Upstream end of pipe is buried/submerged and is not presently passing water.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.59
Rise (m)	0.60
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.23
WDIC (m)	0.00
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:

Last 2 sections of pipe are failing, creating a grade break in the pipe. No plunge pool or toe measurements as pipe empties directly into a wetland.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0191

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SE
Section:	22
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03637
Longitude:	-123.90597
WA state plane south (NAD 27, feet)	
East:	1,151,300
North:	639,433

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0166
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.25 miles south of the 4014/4019 junction.

### Site Comments:

Large wetland upstream drains to MF Hoquiam downstream. Culvert is tidally influenced.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	9.50
OHW (m)	9.90
Max Depth (m)	1.37

### CHANNEL DESCRIPTION

Toe Width (m)	3.50
Span/Toe Ratio	0.58

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	2.04
Rise (m)	2.13
Length (m)	26.63
Slope (%)	0.64
Bed Material	No
Outfall Drop (m)	0.60
WDIC (m)	0.19
Apron	No
Fill Depth (m)	2.40
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0192

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NE
Section:	22
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03352
Longitude:	-123.91070
WA state plane south (NAD 27, feet)	
East:	1,150,079
North:	638,448

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.55 miles south of the 4014/4019 junction.

### Site Comments:

Small marshy wetland upstream and downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.46
Length (m)	24.63
Slope (%)	-1.04
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.45
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Both pipes submerged. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0192

Fish Use:

Yes

PI:

Barrier:

Unk

## CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.44
Length (m)	23.04
Slope (%)	0.00
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.44
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Culvert 2.2 is located on left bank. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0193

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4016.1
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06440
Longitude:	-123.95363
WA state plane south (NAD 27, feet)	
East:	1,139,876
North:	650,163

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	Hoover Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0179
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.40 miles northeast of the 4016/4016.1 junction.

### Site Comments:

Wetland upstream of culvert surrounded by young reprod.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	3.30
OHW (m)	3.10
Max Depth (m)	0.45

### CHANNEL DESCRIPTION

Toe Width (m)	1.65
Span/Toe Ratio	0.75

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.24
Rise (m)	1.18
Length (m)	10.71
Slope (%)	3.92
Bed Material	No
Outfall Drop (m)	0.20
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0194

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.11  
County: Grays Harbor  
1/4 Section: NW  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06667  
Longitude: -123.95968  
WA state plane south (NAD 27, feet)  
East: 1,138,406  
North: 651,057

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles west of the 4016.11/4016.1 junction.

### Site Comments:

No measurable OHW.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.62  
Rise (m): 0.62  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.12  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0195

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4016.11
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06692
Longitude:	-123.96086
WA state plane south (NAD 27, feet)	
East:	1,138,115
North:	651,162

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.45 miles west of the 4016.1/4016.11 junction.

### Site Comments:

OHW = 0.6 meters, possible gradient barrier downstream of the pipe.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	0.50
OHW (m)	0.70
Max Depth (m)	0.04

### CHANNEL DESCRIPTION

Toe Width (m)	0.60
Span/Toe Ratio	1.30

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.62
Length (m)	15.90
Slope (%)	9.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	3.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0196

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4016.11
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06760
Longitude:	-123.96339
WA state plane south (NAD 27, feet)	
East:	1,137,496
North:	651,438

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.55 miles west of the 4016.1/4016.11 junction.

### Site Comments:

No definitive stream channel upstream. Abundant downed trees and debris downstream of culvert. OHW = 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.49
Rise (m)	0.49
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.75
WDIC (m)	0.01
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Water flows out from beneath the downstream end of the culvert.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0197

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.11  
County: Grays Harbor  
1/4 Section: NW  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06682  
Longitude: -123.96404  
WA state plane south (NAD 27, feet)  
East: 1,137,324  
North: 651,160

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Hoover Cr  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0179  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.60 miles west of the 4016.1/4016.11 junction.

### Site Comments:

Survey stake at culvert: "4016.11, #6128, 0.625".

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.70  
Span/Toe Ratio: 0.91

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.64  
Rise (m): 0.65  
Length (m): 23.19  
Slope (%): 0.56  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.06  
Apron: No  
Fill Depth (m): 4.00  
Tidegate: No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0198

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4016.11
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06576
Longitude:	-123.96411
WA state plane south (NAD 27, feet)	
East:	1,137,288
North:	650,774

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.90 miles west of the 4016.1/4016.11 junction.

### Site Comments:

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	0.50
OHW (m)	0.60
Max Depth (m)	0.07

### CHANNEL DESCRIPTION

Toe Width (m)	0.70
Span/Toe Ratio	0.89

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.67
Rise (m)	0.62
Length (m)	13.12
Slope (%)	6.48
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Downstream end of culvert obscured by debris pile.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0199

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.1  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06450  
Longitude: -123.95364  
WA state plane south (NAD 27, feet)  
East: 1,139,876  
North: 650,202

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.40 miles northeast of the 4016/4016.1 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.40  
OHW (m): 0.30  
Max Depth (m): 1.05

### CHANNEL DESCRIPTION

Toe Width (m): 0.90  
Span/Toe Ratio: 0.53

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.48  
Rise (m): 0.48  
Length (m): 12.56  
Slope (%): 7.10  
Bed Material: No  
Outfall Drop (m): 0.30  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0200

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06528  
Longitude: -123.95083  
WA state plane south (NAD 27, feet)  
East: 1,140,586  
North: 650,453

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.10 miles east of the 4016.1/4016.12 junction.

### Site Comments:

Wetlands upstream and downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Unk  
Passability (%):  
Method: LA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.90  
Rise (m): 0.90  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.30  
Apron: No  
Fill Depth (m): 2.50  
Tidegate: No

### Culvert Comments:

Upstream end of culvert is completely buried and unable to locate. No plunge pool or stream width measurements due to wetland immediately downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0201

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06531  
Longitude: -123.94910  
WA state plane south (NAD 27, feet)  
East: 1,141,018  
North: 650,446

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.20 miles east of the 4016.1/4016.12 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.90  
Span/Toe Ratio: 0.87

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.78  
Rise (m): 0.78  
Length (m): 12.42  
Slope (%): 2.01  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

Riffles immediately downstream of the pipe make plunge pool measurements unobtainable.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0202

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06481  
Longitude: -123.94812  
WA state plane south (NAD 27, feet)  
East: 1,141,254  
North: 650,253

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles east of the 4016.1/4016.12 junction.

### Site Comments:

No defined stream channel upstream or downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CAL  
Span (m): 0.49  
Rise (m): 0.49  
Length (m):  
Slope (%):  
Bed Material: Yes  
Outfall Drop (m):  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.30  
Tidegate: No

### Culvert Comments:

Downstream end of culvert is buried.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0203

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06446  
Longitude: -123.94673  
WA state plane south (NAD 27, feet)  
East: 1,141,594  
North: 650,109

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.30 miles east of the 4016.1/4016.12 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 1.00  
Span/Toe Ratio: 0.78

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.78  
Rise (m): 0.78  
Length (m): 12.22  
Slope (%): 6.22  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Riffles immediately downstream of culvert, no plunge pool.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0204

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06417  
Longitude: -123.94445  
WA state plane south (NAD 27, feet)  
East: 1,142,157  
North: 649,979

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.45 miles east of the 4016.1/4016.12 junction.

### Site Comments:

OHW = 0.55 meters, flow is intermittently subsurface downstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.50  
Span/Toe Ratio: 1.05

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.48  
Rise (m): 0.46  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.20  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0205

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: unknown spur  
County: Grays Harbor  
1/4 Section: NW  
Section: 9  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06383  
Longitude: -123.93933  
WA state plane south (NAD 27, feet)  
East: 1,143,426  
North: 649,800

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is on unnamed spur off the 4016.12, approximately 0.70 miles east of the 4016.1/4016.12 junction. Site is 100 meters north of unnamed spur/4016.12 junction.

### Site Comments:

Water is present in isolated standing pools downstream of the culvert, no moving water or defined stream channel. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.32  
Rise (m): 0.32  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.50  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 0.75  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0206

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: NW  
Section: 9  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06610  
Longitude: -123.94186  
WA state plane south (NAD 27, feet)  
East: 1,142,833  
North: 650,654

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.70 miles northeast of the 4016.1/4016.12 junction

### Site Comments:

Wetlands upstream and downstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 0.25  
OHW (m): 0.60  
Max Depth (m): 0.20

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

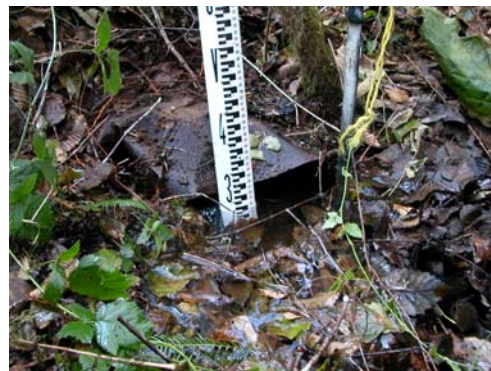
Survey Type:  
Length (m):  
Spawning (sq m):  
Rearing (sq m):

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.48  
Length (m): 9.80  
Slope (%): 3.98  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.20  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Wetland/marsh downstream makes toe measurement unobtainable.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0207

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.12  
County: Grays Harbor  
1/4 Section: SW  
Section: 4  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06824  
Longitude: -123.93893  
WA state plane south (NAD 27, feet)  
East: 1,143,597  
North: 651,404

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.90 miles northeast of the 4016.1/4016.12 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 4.20  
OHW (m): 1.70  
Max Depth (m): 0.35

### POTENTIAL HABITAT GAIN

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

### CHANNEL DESCRIPTION

Toe Width (m): 0.90  
Span/Toe Ratio: 0.70

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.63  
Length (m): 14.55  
Slope (%): 2.50  
Bed Material: No  
Outfall Drop (m): 0.10  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 2.50  
Tidegate: No

### Culvert Comments:

Culvert is rusted out on downstream end, no water is flowing through the pipe.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0208

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.1  
County: Grays Harbor  
1/4 Section: SW  
Section: 5  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06835  
Longitude: -123.95657  
WA state plane south (NAD 27, feet)  
East: 1,139,206  
North: 651,635

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.35 miles north of the 4016.1/4016.12 junction.

### Site Comments:

No defined stream channel.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.45  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m):  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:

Downstream end of pipe is buried.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0209

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4016.1  
County: Grays Harbor  
1/4 Section: SW  
Section: 5  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06952  
Longitude: -123.95763  
WA state plane south (NAD 27, feet)  
East: 1,138,961  
North: 652,075

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoover Cr 22.0179  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.45 miles north of the 4016.1/4016.12 junction.

### Site Comments:

No defined stream channel.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/6/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.44  
Rise (m): 0.55  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.15  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

Downstream of pipe is choked with slash and debris.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0210

Fish Use: Unk

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4030.001
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.99338
Longitude:	-123.95398
WA state plane south (NAD 27, feet)	
East:	1,138,654
North:	624,291

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.20 miles east of the 4030/4030.001 junction.

### Site Comments:

Wetland/marsh influences upstream and downstream makes stream width measurement unobtainable.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	1.55
OHW (m)	0.90
Max Depth (m)	0.25

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

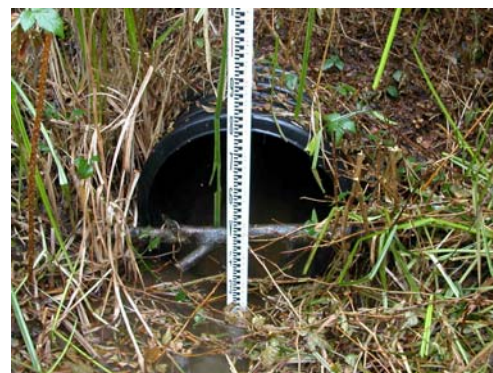
Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.61
Rise (m)	0.61
Length (m)	12.22
Slope (%)	1.06
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.11
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

Stream width obscured by wetland influence upstream and downstream of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0211

Fish Use:

Unk

PI:

Barrier:

Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4030.001  
County: Grays Harbor  
1/4 Section: NE  
Section: 5  
Township: 17N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.99403  
Longitude: -123.95202  
WA state plane south (NAD 27, feet)  
East: 1,139,154  
North: 624,507

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Little Hoquiam 22.0155  
WRIA: 22.0000  
Fish Use: Unk  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.30 miles east of the 4030/4030.001 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

Borderline for fish use, wetland influence upstream and downstream of the pipe.  
Intermittent subsurface flows downstream.

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/10/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.05  
OHW (m): 0.70  
Max Depth (m): 0.10

### POTENTIAL HABITAT GAIN

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

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.61  
Rise (m): 0.61  
Length (m): 12.98  
Slope (%): 2.00  
Bed Material: No  
Outfall Drop (m): 0.24  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Toe measurement unavailable due to wetland influence.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0212

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4030.01
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.99713
Longitude:	-123.95637
WA state plane south (NAD 27, feet)	
East:	1,138,119
North:	625,682

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 50 meters southeast of the 4030/4030.01 junction.

### Site Comments:

Possible gradient barrier, OHW<0.60 meters as there is no discernable stream channel. Perennial vegetation growing throughout stream corridor.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/10/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.28
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.30
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0213

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	A-1900
County:	Grays Harbor
1/4 Section:	SW
Section:	31
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.00133
Longitude:	-123.97686
WA state plane south (NAD 27, feet)	
East:	1,133,078
North:	627,437

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	Little Hoquiam
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0155
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles southwest of the HQ-1000/A-1900 junction.

### Site Comments:

Beaver dam 5 meters upstream of pipe creates medium sized pond, downstream wetland influence with braiding.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/10/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	4.75
OHW (m)	3.05
Max Depth (m)	0.30

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.74
Length (m)	8.05
Slope (%)	6.34
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.13
Apron	No
Fill Depth (m)	1.20
Tidegate	No

### Culvert Comments:

Toe unavailable due to wetland influence.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0214

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: HQ-2700  
County: Grays Harbor  
1/4 Section: SW  
Section: 31  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.00069  
Longitude: -123.97788  
WA state plane south (NAD 27, feet)  
East: 1,132,815  
North: 627,217

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Little Hoquiam 22.0155  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 100 meters southwest of HQ-2700/HQ-2780 junction.

### Site Comments:

Beaver dam 2 meters upstream of pipe creates pond, OHW > 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/10/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.55  
OHW (m): 1.50  
Max Depth (m): 0.15

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.76  
Rise (m): 0.76  
Length (m): 8.76  
Slope (%): 2.85  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.13  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Toe unavailable due to braiding and wetland influence downstream. Upstream end of pipe is deformed.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0215

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4011  
County: Grays Harbor  
1/4 Section: SE  
Section: 36  
Township: 18N  
Range: 11W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.00222  
Longitude: -123.98674  
WA state plane south (NAD 27, feet)  
East: 1,130,630  
North: 627,870

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Little Hoquiam 22.0155  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.90 miles east of the 4011/SR 109 junction.

### Site Comments:

Wetland upstream of culvert. Survey stake at culvert: "4011, #6396, 0.928".

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/17/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LB  
Repair Status: UD  
Problem: velocity

### PLUNGE POOL DESCRIPTION

Length (m): 0.85  
OHW (m): 1.10  
Max Depth (m): 0.19

### CHANNEL DESCRIPTION

Toe Width (m): 1.10  
Span/Toe Ratio: 0.57

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.63  
Rise (m): 0.64  
Length (m): 14.67  
Slope (%): 1.50  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.18  
Apron: No  
Fill Depth (m): 3.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0216

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4011  
County: Grays Harbor  
1/4 Section: NW  
Section: 36  
Township: 18N  
Range: 11W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 46.99970  
Longitude: -123.98849  
WA state plane south (NAD 27, feet)  
East: 1,130,153  
North: 626,971

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Little Hoquiam 22.0155  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.70 miles northwest of the SR 109/4011 junction.

### Site Comments:

OHW = 0.30 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/17/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.48  
Rise (m): 0.48  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0217

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4013.1  
County: Grays Harbor  
1/4 Section: NE  
Section: 20  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.03574  
Longitude: -123.95008  
WA state plane south (NAD 27, feet)  
East: 1,140,303  
North: 639,684

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Bernard Cr 22.0172  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles south of the 4013/4013.1 junction.

### Site Comments:

OHW = 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/17/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.54  
Rise (m): 0.48  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Spring/seep influence 10 meters upstream of pipe. Stream is tributary to larger system 15 meters downstream of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0218

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5200  
County: Grays Harbor  
1/4 Section: NE  
Section: 26  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11006  
Longitude: -123.89869  
WA state plane south (NAD 27, feet)  
East: 1,154,273  
North: 666,208

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 50 meters east of the 5200/US 101 junction.

### SPECIES POTENTIAL

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

### Site Comments:

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/24/2003  
Field Crew: Gloire/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.32  
OHW (m): 2.05  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 1.05  
Span/Toe Ratio: 0.57

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.60  
Rise (m): 0.61  
Length (m): 13.67  
Slope (%): 4.50  
Bed Material: No  
Outfall Drop (m): 0.06  
WDIC (m): 0.07  
Apron: No  
Fill Depth (m): 2.20  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0219

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5226  
County: Grays Harbor  
1/4 Section: SW  
Section: 23  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11677  
Longitude: -123.89927  
WA state plane south (NAD 27, feet)  
East: 1,154,233  
North: 668,660

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles north of the 5200/5226 junction.

### Site Comments:

OHW = 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/24/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.23  
WDIC (m): 0.06  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0220

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5226
County:	Grays Harbor
1/4 Section:	SE
Section:	23
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.11778
Longitude:	-123.89986
WA state plane south (NAD 27, feet)	
East:	1,154,102
North:	669,034

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.35 miles north of the 5200/5226 junction.

### Site Comments:

Wetland/pond upstream of pipe.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/24/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	8.30
OHW (m)	4.00
Max Depth (m)	0.85

### CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	1.17

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.17
Rise (m)	1.22
Length (m)	12.91
Slope (%)	7.05
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.40
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

WF Hoquiam 15 meters downstream of pipe. Wooden structure around the upstream end of culvert.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0221

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5200  
County: Grays Harbor  
1/4 Section: SE  
Section: 22  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11793  
Longitude: -123.90861  
WA state plane south (NAD 27, feet)  
East: 1,151,929  
North: 669,182

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0186  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.90 miles west of the 5200/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/24/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.40  
OHW (m): 1.80  
Max Depth (m): 0.50

### CHANNEL DESCRIPTION

Toe Width (m): 0.88  
Span/Toe Ratio: 1.45

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.28  
Rise (m): 1.43  
Length (m): 24.63  
Slope (%): 1.60  
Bed Material: No  
Outfall Drop (m): 0.34  
WDIC (m): 0.09  
Apron: No  
Fill Depth (m): 4.50  
Tidegate: No

### Culvert Comments:

Braiding immediately downstream of pipe.  
Cables spanning interior of pipe at 0.6 meter intervals.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0222

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5200  
County: Grays Harbor  
1/4 Section: NW  
Section: 22  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11885  
Longitude: -123.91252  
WA state plane south (NAD 27, feet)  
East: 1,150,971  
North: 669,557

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0186  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.10 miles west of the 5200/US 101 junction.

### Site Comments:

Some ditch delivery upstream of site. OHW = 0.40 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/24/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0223

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5200  
County: Grays Harbor  
1/4 Section: NW  
Section: 22  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.11922  
Longitude: -123.91439  
WA state plane south (NAD 27, feet)  
East: 1,150,510  
North: 669,714

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0186  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.20 miles west of the 5200/US 101 junction.

### Site Comments:

OHW = 0.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 11/24/2003  
Field Crew: Glore/Lutz  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

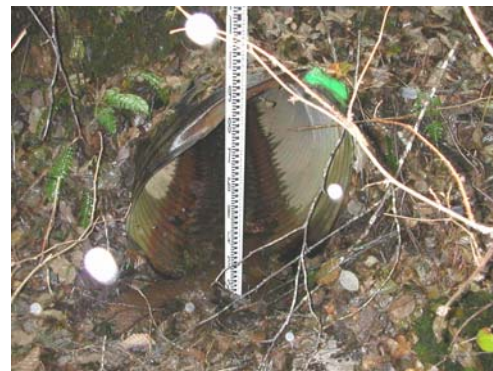
### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.69  
Rise (m): 0.65  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m):  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.20  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0224

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Rd  
County: Grays Harbor  
1/4 Section: SE  
Section: 6  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15673  
Longitude: -123.84719  
WA state plane south (NAD 27, feet)  
East: 1,167,806  
North: 682,665

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.25 miles north of the upper E Hoquiam Bridge (on Youmans Rd), site is 100 meters southeast of yellow gate on private road.

### Site Comments:

Beaver activity present at site. Wetlands upstream and downstream. OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Ken Lentz  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 12/16/2003  
Field Crew: Glore/Lutz  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 7.40  
OHW (m): 3.80  
Max Depth (m): 0.56

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.70  
Rise (m): 0.76  
Length (m): 9.27  
Slope (%): -0.50  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.31  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0225

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5216  
County: Grays Harbor  
1/4 Section: NW  
Section: 14  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13440  
Longitude: -123.89971  
WA state plane south (NAD 27, feet)  
East: 1,154,400  
North: 675,086

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 100 meters west of the 5216/US 101 junction.

### SPECIES POTENTIAL

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

### OWNER

Name: Rainier Timber Company, LLC  
Type: Private

### Site Comments:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 12/11/2003  
Field Crew: Glore/Lutz  
Barrier: No  
Passability (%): 100  
Method: LB  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 9.15  
OHW (m): 4.85  
Max Depth (m): 0.85

### CHANNEL DESCRIPTION

Toe Width (m): 3.25  
Span/Toe Ratio: 0.49

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: SQSH  
Material: CST  
Span (m): 1.59  
Rise (m): 1.28  
Length (m): 10.28  
Slope (%): 0.60  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.56  
Apron: No  
Fill Depth (m): 0.60  
Tidegate: No

### Culvert Comments:

Wooden 2x4 frame constructed around upstream end of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0226

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5216  
County: Grays Harbor  
1/4 Section: NE  
Section: 15  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13453  
Longitude: -123.90097  
WA state plane south (NAD 27, feet)  
East: 1,154,090  
North: 675,148

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Hoquiam R 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 200 meters west of the 5216/US 101 junction.

### Site Comments:

Small stream crosses beneath road, feeds into stream at 127Q0225.

### SPECIES POTENTIAL

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

### OWNER

Name: Rainier Timber Company, LLC  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 12/11/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.65  
OHW (m): 0.60  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 0.80  
Span/Toe Ratio: 0.56

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.45  
Rise (m): 0.46  
Length (m): 12.25  
Slope (%): 2.10  
Bed Material: No  
Outfall Drop (m): 0.02  
WDIC (m): 0.09  
Apron: No  
Fill Depth (m): 0.80  
Tidegate: No

### Culvert Comments:

Cascade 3 meters downstream of the pipe measuring 0.8 meters high.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0227

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5216 spur  
County: Grays Harbor  
1/4 Section: NE  
Section: 15  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.13450  
Longitude: -123.90165  
WA state plane south (NAD 27, feet)  
East: 1,153,919  
North: 675,144

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: WF Hoquiam 22.0137  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is located on first northbound spur off the 5216. West of US 101, approximately 40 meters from junction.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Rainier Timber Company, LLC  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 12/11/2003  
Field Crew: Glore/Lutz  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 1.25  
Span/Toe Ratio: 0.62

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.78  
Rise (m): 0.73  
Length (m): 10.71  
Slope (%): 3.83  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.12  
Apron: No  
Fill Depth (m): 1.20  
Tidegate: No

### Culvert Comments:

Lots of garbage is channel. No plunge pool as stream flows directly into riffles downstream of the pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0228

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Private Rd  
County: Grays Harbor  
1/4 Section: SW  
Section: 2  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.06963  
Longitude: -123.89253  
WA state plane south (NAD 27, feet)  
East: 1,155,171  
North: 651,410

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: MF Hoquiam 22.0165  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is located on private road, approximately 0.35 miles north of the junction with 4014.

### Site Comments:

### SPECIES POTENTIAL

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

### OWNER

Name: Saw Fishers LLC  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/13/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 3.66  
OHW (m): 2.25  
Max Depth (m): 0.74

### CHANNEL DESCRIPTION

Toe Width (m): 1.13  
Span/Toe Ratio: 0.42

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.44  
Length (m): 7.30  
Slope (%): 3.30  
Bed Material: No  
Outfall Drop (m): 0.56  
WDIC (m): 0.06  
Apron: No  
Fill Depth (m): 0.90  
Tidegate: No

### Culvert Comments:

Downstream end of road is eroding.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0229

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	2
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.06692
Longitude:	-123.89526
WA state plane south (NAD 27, feet)	
East:	1,154,448
North:	650,452

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is located on private road, approximately 0.15 miles north of the junction with 4014.

### Site Comments:

Substrate contains high amounts of fines.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Saw Fishers
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	4/13/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	4.53
OHW (m)	2.60
Max Depth (m)	0.87

### CHANNEL DESCRIPTION

Toe Width (m)	1.21
Span/Toe Ratio	0.49

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.59
Rise (m)	0.64
Length (m)	7.50
Slope (%)	1.51
Bed Material	No
Outfall Drop (m)	0.56
WDIC (m)	0.06
Apron	No
Fill Depth (m)	1.70
Tidegate	No

### Culvert Comments:

Upstream end of culvert is deformed horizontally. Bank erosion present downstream of site.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0230

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240 spur  
County: Grays Harbor  
1/4 Section: SE  
Section: 5  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15444  
Longitude: -123.82075  
WA state plane south (NAD 27, feet)  
East: 1,174,342  
North: 681,552

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0148  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located on spur road, approximately 0.40 miles east of the junction with 4240.

### Site Comments:

Ephemeral wetland habitat upstream and downstream, completely dry at time of sample. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.92  
Rise (m): 0.92  
Length (m):  
Slope (%):  
Bed Material:  
Outfall Drop (m): 0.00  
WDIC (m): 0.22  
Apron:  
Fill Depth (m): 1.00  
Tidegate:

### Culvert Comments:

No plunge pool or stream width measurements due to wetland influence.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0231

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240 spur  
County: Grays Harbor  
1/4 Section: NE  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15211  
Longitude: -123.81972  
WA state plane south (NAD 27, feet)  
East: 1,174,564  
North: 680,693

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0148  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located on spur road, approximately 0.65 mile east of the junction with 4240.

### Site Comments:

Poorly defined stream channel. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.92  
Rise (m): 0.92  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0232

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4241  
County: Grays Harbor  
1/4 Section: NW  
Section: 5  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16189  
Longitude: -123.83175  
WA state plane south (NAD 27, feet)  
East: 1,171,723  
North: 684,385

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.45 miles northwest of the 4241/4240 junction.

### Site Comments:

Survey stake at site "4241/4748/0/395". OHW > 0.60 meters. Wetland habitat upstream and downstream.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.92  
Rise (m): 0.92  
Length (m): 10.96  
Slope (%): 0.39  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.20  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Plunge pool and stream width measurements unavailable due to wetland influence. Level B not applicable due to lack of downstream control.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0233

Fish Use: Unk

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240 spur  
County: Grays Harbor  
1/4 Section: NE  
Section: 5  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16368  
Longitude: -123.82409  
WA state plane south (NAD 27, feet)  
East: 1,173,654  
North: 684,957

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Unk  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located on spur road, approximately 0.10 miles north of the junction with 4240.

### Site Comments:

Highly modified/excavated with wetland influence. No defined stream channel. OHW = 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.62  
Rise (m): 0.62  
Length (m): 7.50  
Slope (%): 1.11  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.18  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Stream width and plunge pool measurements unavailable due to wetland influence.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0234

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240 spur  
County: Grays Harbor  
1/4 Section: NE  
Section: 5  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16641  
Longitude: -123.82153  
WA state plane south (NAD 27, feet)  
East: 1,174,334  
North: 685,924

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located on spur road, approximately 0.25 miles northeast of the junction with 4240.

### Site Comments:

Wetland habitat upstream and downstream.  
OHW = 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 3.35  
OHW (m): 1.89  
Max Depth (m): 0.53

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.29  
Rise (m): 0.31  
Length (m): 5.74  
Slope (%): 0.93  
Bed Material: No  
Outfall Drop (m): 0.02  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Plunge pool appears to be excavated. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0235

Fish Use: Unk

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240 spur  
County: Grays Harbor  
1/4 Section: NE  
Section: 5  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16608  
Longitude: -123.82547  
WA state plane south (NAD 27, feet)  
East: 1,173,348  
North: 685,846

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Unk  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located on spur road, approximately 0.25 miles northwest of the junction with 4240.

### Site Comments:

Wetland habitat upstream and downstream.  
Sculpin observed near downstream end of pipe.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: PVC  
Span (m): 0.62  
Rise (m): 0.62  
Length (m): 7.51  
Slope (%): 0.22  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.29  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Stream width and plunge pool measurements unavailable due to wetland influence. Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0236

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240  
County: Grays Harbor  
1/4 Section: NW  
Section: 4  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16556  
Longitude: -123.81798  
WA state plane south (NAD 27, feet)  
East: 1,175,201  
North: 685,576

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.55 miles north of the 4240/Youmans Rd junction.

### Site Comments:

Small wetland upstream, perennial vegetation growing throughout downstream channel. Survey stake at site "4240, 4746, 1.395". OHW < 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.42  
Rise (m): 0.42  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.05  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0237

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240  
County: Grays Harbor  
1/4 Section: NW  
Section: 4  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16638  
Longitude: -123.81786  
WA state plane south (NAD 27, feet)  
East: 1,175,244  
North: 685,875

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.65 miles north of the 4240/Youmans Rd junction.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

Some wetland influence and braiding downstream of site.

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.62  
Rise (m): 0.59  
Length (m): 9.15  
Slope (%): 1.02  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.45  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Wetland influence obscures stream width and plunge pool measurements. Level B not applicable due to lack of downstream control.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0238

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4240
County:	Grays Harbor
1/4 Section:	SE
Section:	32
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.16886
Longitude:	-123.81988
WA state plane south (NAD 27, feet)	
East:	1,174,780
North:	686,800

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.80 miles north of the 4240/Youmans Rd junction.

### Site Comments:

Stream flows in roadside ditch for 15 meters before passing through culvert. OHW = 0.79 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	2.08
OHW (m)	1.55
Max Depth (m)	0.29

### CHANNEL DESCRIPTION

Toe Width (m)	0.64
Span/Toe Ratio	0.97

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.62
Length (m)	12.29
Slope (%)	1.84
Bed Material	No
Outfall Drop (m)	0.02
WDIC (m)	0.04
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0239

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4240 spur  
County: Grays Harbor  
1/4 Section: SE  
Section: 5  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.15898  
Longitude: -123.82219  
WA state plane south (NAD 27, feet)  
East: 1,174,055  
North: 683,221

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is located on spur road, approximately 150 meters east of the junction with 4240.

### Site Comments:

Wetlands upstream and downstream. OHW > 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/20/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: SQSH  
Material: CST  
Span (m): 2.10  
Rise (m): 1.47  
Length (m): 9.01  
Slope (%): 0.55  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.38  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Site appears to be recent replacement. Toe and plunge pool unavailable due to wetland influence. Barrier status is unknown as toe is unavailable, although pipe appears to function adequately.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0240

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	3210
County:	Grays Harbor
1/4 Section:	SE
Section:	25
Township:	20N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.18687
Longitude:	-123.86089
WA state plane south (NAD 27, feet)	
East:	1,164,870
North:	693,792

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Big Cr 22.0042
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.30 miles east of the 3200/3210 junction.

### Site Comments:

Survey stake at site "3210, #3386, 0.236".  
Perennial growth throughout channel. OHW < 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.36
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0241

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	3210
County:	Grays Harbor
1/4 Section:	SW
Section:	30
Township:	20N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.18653
Longitude:	-123.85565
WA state plane south (NAD 27, feet)	
East:	1,166,165
North:	693,615

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0150
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.55 miles east of the 3210/3200 junction.

### Site Comments:

Survey stake at site "3210, #3843, 0.507".  
OHW > 0.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	Unk
Passability (%)	
Method	OT
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.09
Rise (m)	1.09
Length (m)	12.88
Slope (%)	0.00
Bed Material	
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Need stream toe width to complete Level A sample.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0242

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 3210  
County: Grays Harbor  
1/4 Section: SW  
Section: 30  
Township: 20N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.18680  
Longitude: -123.84897  
WA state plane south (NAD 27, feet)  
East: 1,167,829  
North: 693,642

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0150  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.90 miles east of the 3200/3210 junction.

### Site Comments:

Stream flows subsurface 3 meters downstream of culvert. OHW = 0.35 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/26/2004  
Field Crew: Glore/Blatt/Schuetzler  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 3.12  
OHW (m): 0.20  
Max Depth (m): 0.23

### CHANNEL DESCRIPTION

Toe Width (m): 0.35  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.67  
Rise (m): 0.58  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.45  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0243

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 3210.9  
County: Grays Harbor  
1/4 Section: NE  
Section: 32  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.17634  
Longitude: -123.82385  
WA state plane south (NAD 27, feet)  
East: 1,173,908  
North: 689,568

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.95 miles south of the 3210/3210.9 junction.

### Site Comments:

Survey stake at site "3201.9, #3892, 0.109"  
OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 4/26/2004  
Field Crew: Glore/Blatt/Schuetzler  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.34  
Rise (m): 0.34  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.00  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0244

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	3210.8
County:	Grays Harbor
1/4 Section:	NE
Section:	32
Township:	20N
Range:	09W

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.17835
Longitude:	-123.82690
WA state plane south (NAD 27, feet)	
East:	1,173,183
North:	690,331

### Location / Directions:

Water crossing is approximately 0.75 miles south of the 3210/3210.8 junction.

### Site Comments:

Survey stake at site "3210.8, #3890, 0.838".  
OHW = 1.05 meters.

### EVALUATION LEVEL COMPLETED

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

### SPECIES POTENTIAL

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

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	2.54
OHW (m)	1.07
Max Depth (m)	0.22

### CHANNEL DESCRIPTION

Toe Width (m)	0.58
Span/Toe Ratio	1.05

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.30
Slope (%)	-0.32
Bed Material	Yes
Outfall Drop (m)	0.17
WDIC (m)	0.02
Apron	No
Fill Depth (m)	0.50
Tidegate	No

### Culvert Comments:

Substrate predominantly fines and organic materials.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0245

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-100  
County: Grays Harbor  
1/4 Section: SW  
Section: 4  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.07253  
Longitude: -123.93283  
WA state plane south (NAD 27, feet)  
East: 1,145,183  
North: 652,900

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Davis Cr 22.0180  
WRIA: 22.0181  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.25 miles west of the DC-100/US 101 junction.

### Site Comments:

Confluence with larger stream 100 meters downstream of site. OHW = 3.90 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/21/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 6.10  
OHW (m): 5.25  
Max Depth (m): 0.85

### CHANNEL DESCRIPTION

Toe Width (m): 3.45  
Span/Toe Ratio: 0.50

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.74  
Rise (m): 1.88  
Length (m): 19.85  
Slope (%): 1.29  
Bed Material: No  
Outfall Drop (m): 0.55  
WDIC (m): 0.10  
Apron: No  
Fill Depth (m): 2.50  
Tidegate: No

### Culvert Comments:

Both ends of pipe are beveled.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0246

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	4
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.07536
Longitude:	-123.93740
WA state plane south (NAD 27, feet)	
East:	1,144,092
North:	653,981

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.55 miles west of the DC-100/US 101 junction.

### Site Comments:

Downstream banks are armored with rip rap. OHW = 1.25 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	3.95
OHW (m)	2.10
Max Depth (m)	0.25

### CHANNEL DESCRIPTION

Toe Width (m)	0.80
Span/Toe Ratio	1.16

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.93
Rise (m)	0.93
Length (m)	11.26
Slope (%)	3.66
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0247

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.07953
Longitude:	-123.94374
WA state plane south (NAD 27, feet)	
East:	1,142,578
North:	655,569

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0182
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.0 mile west of the DC-100/US 101 junction.

### Site Comments:

OHW = 2.40 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input checked="" type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	8.40
OHW (m)	4.35
Max Depth (m)	1.10

### CHANNEL DESCRIPTION

Toe Width (m)	1.95
Span/Toe Ratio	0.90

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.76
Rise (m)	1.88
Length (m)	17.86
Slope (%)	0.66
Bed Material	No
Outfall Drop (m)	0.47
WDIC (m)	0.11
Apron	No
Fill Depth (m)	5.00
Tidegate	No

### Culvert Comments:

Both ends of pipe are beveled.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0248

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-100  
County: Grays Harbor  
1/4 Section: NE  
Section: 5  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.08187  
Longitude: -123.94778  
WA state plane south (NAD 27, feet)  
East: 1,141,610  
North: 656,465

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Davis Cr 22.0180  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.25 miles west of the DC-100/US 101 junction.

### Site Comments:

OHW = 0.55 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/21/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.40  
Span/Toe Ratio: 1.90

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.76  
Rise (m): 0.76  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0249

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	SE
Section:	32
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.08453
Longitude:	-123.94959
WA state plane south (NAD 27, feet)	
East:	1,141,204
North:	657,456

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.45 miles west of the DC-100/US 101 junction.

### Site Comments:

OHW = 0.40 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	0.40
Span/Toe Ratio	1.90

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.76
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.30
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

Upstream and downstream banks armored with rip-rap near site.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0250

Fish Use:

Yes

PI:

32.23

Barrier:

Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	SE
Section:	32
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.08862
Longitude:	-123.94972
WA state plane south (NAD 27, feet)	
East:	1,141,236
North:	658,947

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0184
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.75 miles west of the DC-100/US 101 junction.

### Site Comments:

Substrate consists of gravels and fines. Confluence with Davis Creek is approximately 40 meters downstream of site. OHW = 4.05 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m)	19.00
OHW (m)	5.70
Max Depth (m)	0.60

### CHANNEL DESCRIPTION

Toe Width (m)	3.75
Span/Toe Ratio	0.46

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.73
Rise (m)	1.92
Length (m)	14.67
Slope (%)	1.18
Bed Material	No
Outfall Drop (m)	0.51
WDIC (m)	0.13
Apron	No
Fill Depth (m)	0.75
Tidegate	No

### Culvert Comments:

Both ends of culvert are beveled.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0251

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-120  
County: Grays Harbor  
1/4 Section: NE  
Section: 32  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09199  
Longitude: -123.94521  
WA state plane south (NAD 27, feet)  
East: 1,142,412  
North: 660,124

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0184  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.25 miles northeast of the DC-100/DC-120 junction.

### Site Comments:

Subsurface flows. OHW = 0.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/21/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.45  
Span/Toe Ratio: 1.36

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: Unk  
Outfall Drop (m): 0.00  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 0.25  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0252

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-120  
County: Grays Harbor  
1/4 Section: NE  
Section: 32  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09217  
Longitude: -123.94424  
WA state plane south (NAD 27, feet)  
East: 1,142,657  
North: 660,179

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0184  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.30 miles northeast of the DC-100/DC-120 junction.

### Site Comments:

No well defined stream channel with intermittent subsurface flows. OHW = 0.35 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/21/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 0.65  
OHW (m): 0.80  
Max Depth (m): 0.15

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.10  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

No toe measurement due to ephemeral nature of stream.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0253

Fish Use:

Yes

PI:

14.75

Barrier:

Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-120  
County: Grays Harbor  
1/4 Section: NE  
Section: 32  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09467  
Longitude: -123.94177  
WA state plane south (NAD 27, feet)  
East: 1,143,311  
North: 661,065

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0184  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.55 miles northeast of the DC-100/DC-120 junction.

### Site Comments:

Series of rock weirs downstream of culvert.  
OHW = 2.15 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/21/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.95  
OHW (m): 2.80  
Max Depth (m): 0.65

### CHANNEL DESCRIPTION

Toe Width (m): 1.80  
Span/Toe Ratio: 0.50

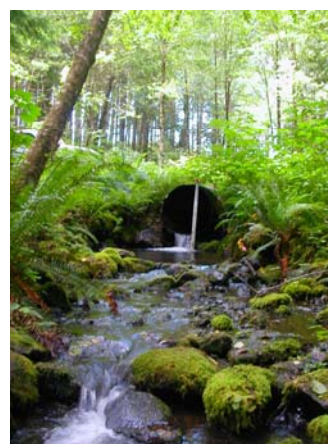
### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.90  
Rise (m): 0.90  
Length (m): 12.74  
Slope (%): 1.09  
Bed Material: No  
Outfall Drop (m): 0.31  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0254

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-100  
County: Grays Harbor  
1/4 Section: NW  
Section: 32  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09079  
Longitude: -123.95208  
WA state plane south (NAD 27, feet)  
East: 1,140,684  
North: 659,764

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Davis Cr 22.0180  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 2.0 miles northwest of the DC-100/US 101 junction.

### Site Comments:

Downstream banks armored with rip rap. OHW = 2.05 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/28/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.55  
OHW (m): 2.40  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m): 1.70  
Span/Toe Ratio: 1.81

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.94  
Rise (m): 0.94  
Length (m): 10.06  
Slope (%): -2.71  
Bed Material: No  
Outfall Drop (m): 0.15  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

Plunge pool is man-made with rip-rap acting as downstream control. Culvert is up for replacement by City of Hoquiam - culvert # 7.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0255

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.09152
Longitude:	-123.95382
WA state plane south (NAD 27, feet)	
East:	1,140,262
North:	660,047

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.05 miles northwest of the DC-100/US 101 junction.

### Site Comments:

Downstream banks armored with rip-rap. OHW = 1.25 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input checked="" type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	1.80
OHW (m)	1.60
Max Depth (m)	0.20

### CHANNEL DESCRIPTION

Toe Width (m)	1.05
Span/Toe Ratio	1.15

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.91
Rise (m)	0.91
Length (m)	8.36
Slope (%)	-0.56
Bed Material	No
Outfall Drop (m)	0.45
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Culvert is up for replacement by City of Hoquiam, culvert # 8.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0256

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.09143
Longitude:	-123.95462
WA state plane south (NAD 27, feet)	
East:	1,140,062
North:	660,023

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 2.10 miles northwest of the DC-100/US 101 junction.

### Site Comments:

OHW = 2.25 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input checked="" type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	2.30
OHW (m)	2.45
Max Depth (m)	0.45

### CHANNEL DESCRIPTION

Toe Width (m)	1.60
Span/Toe Ratio	1.76

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.91
Rise (m)	0.91
Length (m)	9.56
Slope (%)	0.17
Bed Material	No
Outfall Drop (m)	0.38
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Plunge pool appears to be man-made with rip-rap acting as downstream control. Culvert is up for replacement by City of Hoquiam - culvert # 9.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0257

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.09106
Longitude:	-123.95923
WA state plane south (NAD 27, feet)	
East:	1,138,908
North:	659,940

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 2.30 miles northwest of the DC-100/US 101 junction.

### Site Comments:

OHW = 1.25 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input checked="" type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	4.00
OHW (m)	1.75
Max Depth (m)	0.35

### CHANNEL DESCRIPTION

Toe Width (m)	1.15
Span/Toe Ratio	1.26

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.91
Rise (m)	0.91
Length (m)	11.23
Slope (%)	3.12
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.10
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0258

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-130  
County: Grays Harbor  
1/4 Section: SW  
Section: 4  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.07387  
Longitude: -123.94269  
WA state plane south (NAD 27, feet)  
East: 1,142,750  
North: 653,497

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Davis Cr 22.0180  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.25 miles southwest of the DC-130/DC-100 junction.

### Site Comments:

OHW = 1.25 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/28/2004  
Field Crew: Glore/Blatt  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 1.00  
Span/Toe Ratio: 1.09

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.09  
Rise (m): 0.97  
Length (m): 15.18  
Slope (%): 1.87  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

No plunge pool, riffle at downstream end of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0259

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: DC-130  
County: Grays Harbor  
1/4 Section: SE  
Section: 5  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.07377  
Longitude: -123.94383  
WA state plane south (NAD 27, feet)  
East: 1,142,465  
North: 653,473

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0000  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.30 miles southwest of the DC-130/DC-100 junction. Located on small spur 25 meters north of site 127Q0258.

### Site Comments:

OHW = 0.70 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/28/2004  
Field Crew: Glore/Blatt  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.35  
Span/Toe Ratio: 2.17

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.76  
Rise (m): 0.76  
Length (m): 12.27  
Slope (%): 3.48  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.03  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0260

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:

County:

1/4 Section:

Section:

Township:

Range:

### POSITIONAL DATA

WGS 84, decimal degrees

Latitude:

Longitude:

WA state plane south (NAD 27, feet)

East:

North:

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:

Tributary To:

WRIA:

Fish Use:

FUP Criteria:

### Location / Directions:

Water crossing is approximately 0.35 miles west of the DC-100/US 101 junction.

### Site Comments:

Boyer Dam has an Alaskan fishway on left bank

### SPECIES POTENTIAL

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

### OWNER

Name:

Type:

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:

Field Crew:

Barrier:

Passability (%)

Method

Repair Status

Problem

### PLUNGE POOL DESCRIPTION

Length (m)

OHW (m)

Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)

Span/Toe Ratio

### POTENTIAL HABITAT GAIN

Survey Type:

Length (m):

Spawning (sq m)

Rearing (sq m)

### CULVERT DESCRIPTION

Sequencer:

Shape

Material

Span (m)

Rise (m)

Length (m)

Slope (%)

Bed Material

Outfall Drop (m)

WDIC (m)

Apron

Fill Depth (m)

Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0261

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015.12  
County: Grays Harbor  
1/4 Section: NE  
Section: 33  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.00633  
Longitude: -123.92896  
WA state plane south (NAD 27, feet)  
East: 1,145,099  
North: 628,736

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0159  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 200 meters northeast of the 4015/4015.12 junction.

### Site Comments:

Small emerging wetland upstream of culvert.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 4.45  
OHW (m): 2.75  
Max Depth (m): 0.65

### CHANNEL DESCRIPTION

Toe Width (m): 0.59  
Span/Toe Ratio: 1.03

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m): 11.63  
Slope (%): 2.95  
Bed Material: No  
Outfall Drop (m): 0.32  
WDIC (m): 0.04  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Additional pipe 15 meters downstream affects morphology, stream width measurements taken downstream of site 127Q0262. Fence posts act as debris gate.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0262

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Abandoned Rd  
County: Grays Harbor  
1/4 Section: NE  
Section: 33  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.00645  
Longitude: -123.92907  
WA state plane south (NAD 27, feet)  
East: 1,145,073  
North: 628,782

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0159  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 200 meters northeast of the 4015/4015.12 junction. Located 15 meters downstream of site 127Q0261.

### Site Comments:

OHW = 1.70 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m): 1.80  
OHW (m): 1.95  
Max Depth (m): 0.15

### CHANNEL DESCRIPTION

Toe Width (m): 0.59  
Span/Toe Ratio: 1.03

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.11  
Rise (m): 0.97  
Length (m): 8.43  
Slope (%): 3.05  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.15  
Apron: No  
Fill Depth (m): 2.00  
Tidegate: No

### Culvert Comments:

Tree growing over downstream end of pipe.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0263

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015  
County: Grays Harbor  
1/4 Section: NE  
Section: 33  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.00368  
Longitude: -123.92695  
WA state plane south (NAD 27, feet)  
East: 1,145,557  
North: 627,750

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 2.05 miles southwest of the 4015/US 101 junction.

### Site Comments:

Recent pre-commercial thin has choked stream with downed trees and associated debris.  
OHW = 0.55 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.40  
Span/Toe Ratio: 1.52

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 2.50  
Tidegate: No

### Culvert Comments:

Fine sediments fill 3/4 of downstream end of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0264

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015.2  
County: Grays Harbor  
1/4 Section: NE  
Section: 28  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02005  
Longitude: -123.93274  
WA state plane south (NAD 27, feet)  
East: 1,144,374  
North: 633,778

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.10 miles north of the 4015.2/4015 junction.

### Site Comments:

OHW = 0.54 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.20  
Span/Toe Ratio: 3.05

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Stream channel is choked with debris upstream and downstream. Picture taken at upstream end of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0265

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4015.2
County:	Grays Harbor
1/4 Section:	NW
Section:	28
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.02178
Longitude:	-123.93434
WA state plane south (NAD 27, feet)	
East:	1,144,001
North:	634,423

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 0.25 miles north of the 4015.2/4015 junction.

### Site Comments:

OHW =1.60 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	0.65
Span/Toe Ratio	0.94

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.61
Slope (%)	2.02
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

No plunge pool as stream riffles directly out of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0266

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015.2  
County: Grays Harbor  
1/4 Section: NW  
Section: 28  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02239  
Longitude: -123.93629  
WA state plane south (NAD 27, feet)  
East: 1,143,525  
North: 634,669

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.35 miles north of the 4015.2/4015 junction.

### Site Comments:

OHW = 1.0 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LBRQ  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 1.15  
OHW (m): 1.05  
Max Depth (m): 0.24

### CHANNEL DESCRIPTION

Toe Width (m): 0.80  
Span/Toe Ratio: 0.76

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m): 7.56  
Slope (%): -0.97  
Bed Material: No  
Outfall Drop (m): 0.14  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0267

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015.2  
County: Grays Harbor  
1/4 Section: NW  
Section: 28  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02249  
Longitude: -123.93719  
WA state plane south (NAD 27, feet)  
East: 1,143,304  
North: 634,714

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.40 miles north of the 4015.2/4015 junction.

### Site Comments:

Beaver pond 10 meters downstream of site, Upstream channel is braided marsh area. OHW near 0.6 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier: Unk  
Passability (%):  
Method: LA  
Repair Status: UD  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.55  
Span/Toe Ratio: 1.11

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

Upstream end of culvert is recessed under roadbed, inaccessible for length/slope shots.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0268

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015.2  
County: Grays Harbor  
1/4 Section: NW  
Section: 28  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.02298  
Longitude: -123.93819  
WA state plane south (NAD 27, feet)  
East: 1,143,063  
North: 634,903

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles north of the 4015/4015.2 junction.

### Site Comments:

OHW = 1.05 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 33  
Method: LA  
Repair Status: UD  
Problem: outfall drop, slope

### PLUNGE POOL DESCRIPTION

Length (m): 2.05  
OHW (m): 1.10  
Max Depth (m): 0.30

### CHANNEL DESCRIPTION

Toe Width (m): 0.60  
Span/Toe Ratio: 1.53

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.92  
Rise (m): 0.91  
Length (m): 7.49  
Slope (%): 1.02  
Bed Material: No  
Outfall Drop (m): 0.27  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

Plunge pool excavated and filled with rip-rap to prevent scour.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0269

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 4015  
County: Grays Harbor  
1/4 Section: NE  
Section: 28  
Township: 18N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.01892  
Longitude: -123.93293  
WA state plane south (NAD 27, feet)  
East: 1,144,307  
North: 633,368

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: NF Little Hoquiam 22.0157  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.90 miles west of the 4015/US 101 junction.

### Site Comments:

OHW = 0.50 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 7/29/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m): 0.50  
Span/Toe Ratio: 1.22

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.01  
Apron: No  
Fill Depth (m): 1.50  
Tidegate: No

### Culvert Comments:

Small overflow culvert on right bank. Picture taken at upstream end of pipe.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0270

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	4015
County:	Grays Harbor
1/4 Section:	SW
Section:	28
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.01604
Longitude:	-123.93387
WA state plane south (NAD 27, feet)	
East:	1,144,029
North:	632,327

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.10 miles west of the 4015/US 101 junction.

### Site Comments:

Road beginning to fail on downstream side. OHW = 1.90 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	0.61

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	6.46
Slope (%)	2.37
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:

Additional pipe on left bank upstream with no outlet located.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0272

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	F-line
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.08420
Longitude:	-123.83335
WA state plane south (NAD 27, feet)	
East:	1,170,130
North:	656,088

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Lytle Cr 22.0144
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.25 miles west of the F-line/E Hoquiam Rd junction.

### Site Comments:

Substrate consists of clay with some gravel and coble. OHW = 1.70 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	Grays Harbor
Type:	County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	10/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	3.10
OHW (m)	2.05
Max Depth (m)	0.53

### CHANNEL DESCRIPTION

Toe Width (m)	1.05
Span/Toe Ratio	1.01

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.08
Rise (m)	1.08
Length (m)	12.22
Slope (%)	3.27
Bed Material	No
Outfall Drop (m)	0.18
WDIC (m)	0.04
Apron	No
Fill Depth (m)	0.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0273

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 2920  
County: Grays Harbor  
1/4 Section: SW  
Section: 29  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09558  
Longitude: -123.83040  
WA state plane south (NAD 27, feet)  
East: 1,171,039  
North: 660,207

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Lytle Cr  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0144  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.25 miles north of the F-line/2920 junction.

### Site Comments:

Wetland influences with abundant LWD.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/21/2004  
Field Crew: Gloire/Blatt  
Barrier: Unk  
Passability (%):  
Method: LBNA  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 6.75  
OHW (m): 2.25  
Max Depth (m): 0.30

### CHANNEL DESCRIPTION

Toe Width (m): 1.10  
Span/Toe Ratio: 0.55

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m): 8.84  
Slope (%): 0.28  
Bed Material: No  
Outfall Drop (m): 0.05  
WDIC (m): 0.05  
Apron: No  
Fill Depth (m):  
Tidegate: No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0274

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 2920  
County: Grays Harbor  
1/4 Section: SW  
Section: 29  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09856  
Longitude: -123.82987  
WA state plane south (NAD 27, feet)  
East: 1,171,215  
North: 661,287

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Lytle Cr 22.0144  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 0.50 miles north of the F-line/2920 junction.

### Site Comments:

OHW = 0.95 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/21/2004  
Field Crew: Glore/Blatt  
Barrier: No  
Passability (%): 100  
Method: LA  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 1.75  
OHW (m): 1.20  
Max Depth (m): 0.19

### CHANNEL DESCRIPTION

Toe Width (m): 0.95  
Span/Toe Ratio: 1.29

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.23  
Rise (m): 1.23  
Length (m): 11.02  
Slope (%): 3.18  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.07  
Apron: No  
Fill Depth (m): 2.50  
Tidegate: No

### Culvert Comments:

Slight grade break in culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0275

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: F-line  
County: Grays Harbor  
1/4 Section: NW  
Section: 32  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.09257  
Longitude: -123.83354  
WA state plane south (NAD 27, feet)  
East: 1,170,211  
North: 659,142

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: Lytle Cr  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0144  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is approximately 1.90 miles northwest of the F-line/E Hoquiam Rd junction.

### Site Comments:

OHW = 2.20 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Grays Harbor  
Type: County

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 10/21/2004  
Field Crew: Glore/Blatt  
Barrier: No  
Passability (%): 100  
Method: LB  
Repair Status: OK  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 8.00  
OHW (m): 2.00  
Max Depth (m): 0.35

### CHANNEL DESCRIPTION

Toe Width (m): 1.70  
Span/Toe Ratio: 1.00

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 1.70  
Rise (m): 1.31  
Length (m): 12.13  
Slope (%): 0.34  
Bed Material: No  
Outfall Drop (m): 0.07  
WDIC (m): 0.05  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

Level B completed on 12/15/05.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0276

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	3210.1
County:	Grays Harbor
1/4 Section:	NW
Section:	29
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.19461
Longitude:	-123.83324
WA state plane south (NAD 27, feet)	
East:	1,171,858
North:	696,323

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0154
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.50 miles north of gate at the 3210/3210.8 junction.

### Site Comments:

Wetland vegetation through upstream and downstream channel, small braided stream. OHW = 0.45 meters.

### SPECIES POTENTIAL

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

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/2/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	1.50
OHW (m)	1.20
Max Depth (m)	0.37

### CHANNEL DESCRIPTION

Toe Width (m)	0.30
Span/Toe Ratio	1.57

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.10
WDIC (m)	0.08
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0277

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	3210.1
County:	Grays Harbor
1/4 Section:	SW
Section:	20
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.19989
Longitude:	-123.83218
WA state plane south (NAD 27, feet)	
East:	1,172,203
North:	698,235

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0154
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.65 miles north of the 3210/3210.1 junction.

### Site Comments:

Rayonier survey stake at site "3210.1, #3916, 0.589". OHW = 1.35 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Rayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	11/2/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	5.95
OHW (m)	2.35
Max Depth (m)	1.00

### CHANNEL DESCRIPTION

Toe Width (m)	1.35
Span/Toe Ratio	0.83

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.12
Rise (m)	1.12
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.28
WDIC (m)	
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

Logs on downstream end of culvert are confining plunge pool. Unable to obtain level A laser shots, upstream end of culvert is buried. Estimated slope =3% with clinometer.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0278

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5500  
County: Grays Harbor  
1/4 Section: SW  
Section: 31  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.16965  
Longitude: -123.85093  
WA state plane south (NAD 27, feet)  
East: 1,167,077  
North: 687,413

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0150  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.10 miles north of the 5500/Youmans Rd junction.

### Site Comments:

Site is a puncheon. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0279

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5500.11  
County: Grays Harbor  
1/4 Section: SW  
Section: 31  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.17650  
Longitude: -123.84907  
WA state plane south (NAD 27, feet)  
East: 1,167,644  
North: 689,890

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0150  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.30 miles northeast of the 5500.1/5500.11 junction.

### Site Comments:

Rayonier survey stake at site "5500.11, 3841, 0.256".

### SPECIES POTENTIAL

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

### OWNER

Name: Rayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 12/22/2004  
Field Crew: Glore/Blatt  
Barrier: Yes  
Passability (%): 67  
Method: LA  
Repair Status: UD  
Problem: slope

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.46  
Rise (m): 0.46  
Length (m): 6.95  
Slope (%): 2.74  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.09  
Apron: No  
Fill Depth (m): 0.25  
Tidegate: No

### Culvert Comments:

Braided wetland upstream and downstream of culvert making OHW and plunge pool measurements unobtainable.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0280

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5500.11
County:	Grays Harbor
1/4 Section:	NW
Section:	31
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.17897
Longitude:	-123.84927
WA state plane south (NAD 27, feet)	
East:	1,167,633
North:	690,791

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0150
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.50 miles northwest of the 5500.11/5500.1 junction, at the very end of the 5500.11.

### Site Comments:

Wet crossing with perennial tributary. OHW = 0.30 meters.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	
Field Crew:	
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	
Shape	
Material	
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0281

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5500  
County: Grays Harbor  
1/4 Section: SE  
Section: 31  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.17128  
Longitude: -123.84453  
WA state plane south (NAD 27, feet)  
East: 1,168,691  
North: 687,938

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: unnamed 22.0150  
WRIA: 22.0000  
Fish Use: Yes  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.40 miles northeast of the 5500/Youmans Rd junction.

### Site Comments:

Site is a puncheon. Upstream is small wetland.

### SPECIES POTENTIAL

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

### OWNER

Name: ayonier Timberlands Oprtg C  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0282

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 5500  
County: Grays Harbor  
1/4 Section: SE  
Section: 31  
Township: 20N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.17208  
Longitude: -123.84121  
WA state plane south (NAD 27, feet)  
East: 1,169,529  
North: 688,197

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0150  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 1.60 miles northeast of the 5500/Youmans Rd junction.

### SPECIES POTENTIAL

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

### OWNER

Name: Rayonier Timberlands Oprtg C  
Type: Private

### Site Comments:

Rayonier survey stake at site "5500, #3818, 1.581". Upstream is large wetland, downstream flows through upland plants and channel has perennial growth throughout. OHW = 0.60 meters.

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 12/22/2004  
Field Crew: Glore/Blatt  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.61  
Rise (m): 0.61  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.00  
WDIC (m): 0.20  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:

Measurements not obtainable due to wetland influences.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0283

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5500
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.17237
Longitude:	-123.84030
WA state plane south (NAD 27, feet)	
East:	1,169,760
North:	688,291

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.60 miles northeast of the 5500/Youmans Rd junction.

### Site Comments:

Downstream channel joins large wetland with pond, upstream is also wetland. Rayonier survey stake at site '5500, #3819, 1.630".

### SPECIES POTENTIAL

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

### OWNER

Name:	Rayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	6.96
Slope (%)	1.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	0.50
Tidegate	No

### Culvert Comments:

Stream width and plunge pool measurements unobtainable due to wetland influences.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0284

Fish Use: Yes

PI:

Barrier: Unk

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5500
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.17247
Longitude:	-123.83970
WA state plane south (NAD 27, feet)	
East:	1,169,912
North:	688,321

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 1.65 miles northeast of the 5500/Youmans Rd junction.

### Site Comments:

Rayonier survey stake at site "5500, #3820, 1.660". Large wetlands upstream and downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Rayonier Timberlands Oprtg C
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	4.50
OHW (m)	1.80
Max Depth (m)	0.45

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.63
Slope (%)	0.61
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	0.25
Tidegate	No

### Culvert Comments:

Level B not applicable due to lack of downstream control.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0285

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	5500
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	20N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.17279
Longitude:	-123.83844
WA state plane south (NAD 27, feet)	
East:	1,170,230
North:	688,427

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 1.70 miles northeast of the 5500/Youmans Rd junction.

### Site Comments:

Downstream has large backwatered pool with no obvious downstream control for plunge pool measurements.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.20
Rise (m)	1.20
Length (m)	7.05
Slope (%)	1.18
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.90
Apron	No
Fill Depth (m)	0.25
Tidegate	No

### Culvert Comments:

Stream width and plunge pool measurements not obtainable due to wetland influences at site.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0286

Fish Use: Yes

PI:

Barrier: Yes

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	2903
County:	Grays Harbor
1/4 Section:	SE
Section:	6
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.15287
Longitude:	-123.84135
WA state plane south (NAD 27, feet)	
East:	1,169,197
North:	681,198

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

### Location / Directions:

Water crossing is approximately 75 meters southeast of the 2903/Youmans Rd junction.

### Site Comments:

Wetland upstream, free flowing stream downstream. Confluence with EF Hoquiam is approximately 100 meters downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	1/24/2005
Field Crew:	Glore/Blatt/Hamel
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

### PLUNGE POOL DESCRIPTION

Length (m)	9.20
OHW (m)	5.00
Max Depth (m)	2.00

### CHANNEL DESCRIPTION

Toe Width (m)	1.40
Span/Toe Ratio	0.89

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	1.25
Rise (m)	1.25
Length (m)	8.95
Slope (%)	-0.30
Bed Material	No
Outfall Drop (m)	0.30
WDIC (m)	0.20
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0287

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	2903
County:	Grays Harbor
1/4 Section:	NE
Section:	7
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.15078
Longitude:	-123.84055
WA state plane south (NAD 27, feet)	
East:	1,169,365
North:	680,427

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.20 miles south of the 2903/Youmans Rd junction.

### Site Comments:

Garbage has been dumped around site.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Sherman Esses
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	1/24/2005
Field Crew:	Glore/Blatt/Hamel
Barrier	No
Passability (%)	100
Method	LB
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	1.80
OHW (m)	1.95
Max Depth (m)	0.55

### CHANNEL DESCRIPTION

Toe Width (m)	0.80
Span/Toe Ratio	0.80

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.64
Rise (m)	0.64
Length (m)	9.24
Slope (%)	0.11
Bed Material	No
Outfall Drop (m)	0.18
WDIC (m)	0.14
Apron	No
Fill Depth (m)	1.50
Tidegate	No

### Culvert Comments:

Level B completed on 1/25/05.





# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0288

Fish Use: Yes

PI:

Barrier: No

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	2903
County:	Grays Harbor
1/4 Section:	NE
Section:	7
Township:	19N
Range:	09W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.15061
Longitude:	-123.84095
WA state plane south (NAD 27, feet)	
East:	1,169,263
North:	680,369

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.20 miles south of the 2903/Youmans Rd junction, 40 meters upstream of culvert 127Q0287.

### Site Comments:

Garbage has been dumped around site. Culvert 127Q0287 is 40 meters downstream.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input checked="" type="checkbox"/>	Steelhead		

### OWNER

Name:	Sherman Esses
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	1/24/2005
Field Crew:	Glore/Hamel
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	1.55
OHW (m)	1.55
Max Depth (m)	0.25

### CHANNEL DESCRIPTION

Toe Width (m)	0.70
Span/Toe Ratio	0.93

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.65
Rise (m)	0.65
Length (m)	14.85
Slope (%)	-0.31
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.35
Apron	No
Fill Depth (m)	2.00
Tidegate	No

### Culvert Comments:

Debris pile at downstream end of culvert.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0289

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 2903  
County: Grays Harbor  
1/4 Section: NW  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14980  
Longitude: -123.83801  
WA state plane south (NAD 27, feet)  
East: 1,169,980  
North: 680,045

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.30 miles southeast of the 2903/Youmans Rd junction.

### Site Comments:

Rock quarry upstream of culvert. Perennial grasses growing throughout stream channel. OHW = 0.40 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 1/25/2005  
Field Crew: Glore/Hamel  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m):  
OHW (m):  
Max Depth (m):

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.31  
Rise (m): 0.31  
Length (m):  
Slope (%):  
Bed Material: Yes  
Outfall Drop (m): 0.00  
WDIC (m): 0.08  
Apron: No  
Fill Depth (m): 1.00  
Tidegate: No

### Culvert Comments:

No measurable plunge pool.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0290

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: 2903  
County: Grays Harbor  
1/4 Section: NW  
Section: 8  
Township: 19N  
Range: 09W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.14776  
Longitude: -123.83695  
WA state plane south (NAD 27, feet)  
East: 1,170,212  
North: 679,289

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: EF Hoquiam 22.0138  
WRIA: 22.0000  
Fish Use: No  
FUP Criteria: Physical

### Location / Directions:

Water crossing is approximately 0.50 miles southeast of the 2903/Youmans Rd junction.

### Site Comments:

Culvert's primary function is cross drainage. Perennial vegetation growing throughout channel. OHW < 0.60 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Fruit Growers Supply Co  
Type: Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date: 1/25/2005  
Field Crew: Glore/Hamel  
Barrier:  
Passability (%):  
Method:  
Repair Status:  
Problem:

### PLUNGE POOL DESCRIPTION

Length (m): 2.45  
OHW (m): 1.60  
Max Depth (m): 0.40

### CHANNEL DESCRIPTION

Toe Width (m):  
Span/Toe Ratio:

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer: 1.1  
Shape: RND  
Material: CST  
Span (m): 0.47  
Rise (m): 0.47  
Length (m):  
Slope (%):  
Bed Material: No  
Outfall Drop (m): 0.30  
WDIC (m): 0.02  
Apron: No  
Fill Depth (m): 0.50  
Tidegate: No

### Culvert Comments:

No stream width measurement due to poorly defined channel.



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0291

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04352
Longitude:	-123.97247
WA state plane south (NAD 27, feet)	
East:	1,134,850
North:	642,763

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.40 miles west of the Ocean Beach Rd/Private Rd junction.

### Site Comments:

Stream channel is backwatered. Site is a puncheon.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Atkins Tree Farm LLC
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	
Field Crew:	
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	
Shape	
Material	
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0292

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	18
Township:	18N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04368
Longitude:	-123.97101
WA state plane south (NAD 27, feet)	
East:	1,135,216
North:	642,805

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 75 meters north of private road on northbound spur between sites 127Q0121 and 127Q0291.

### Site Comments:

Site is a puncheon. Road ends immediately after water crossing. Channel is backwatered with beaver influence.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input checked="" type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input checked="" type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input checked="" type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Atkins Tree Farm LLC
Type:	Private

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	
Field Crew:	
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	
Shape	
Material	
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

### Culvert Comments:

# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0293

Fish Use: Yes

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name: Abandoned grade  
County: Grays Harbor  
1/4 Section: SE  
Section: 28  
Township: 19N  
Range: 10W

### POSITIONAL DATA

WGS 84, decimal degrees  
Latitude: 47.10267  
Longitude: -123.92424  
WA state plane south (NAD 27, feet)  
East: 1,147,798  
North: 663,788

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream: unnamed  
Tributary To: Davis Cr 22.0180  
WRIA: 22.0184  
Fish Use: Yes  
FUP Criteria: Mapped

### Location / Directions:

Water crossing is located on abandoned grade near the DC-120 line.

### Site Comments:

Site appears to be old puncheon with no visible in stream structure. OHW =1.10 meters.

### SPECIES POTENTIAL

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

### OWNER

Name: Hoquiam  
Type: City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:  
Field Crew:  
Barrier:  
Passability (%)  
Method  
Repair Status  
Problem

### PLUNGE POOL DESCRIPTION

Length (m)  
OHW (m)  
Max Depth (m)

### CHANNEL DESCRIPTION

Toe Width (m)  
Span/Toe Ratio

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:  
Shape  
Material  
Span (m)  
Rise (m)  
Length (m)  
Slope (%)  
Bed Material  
Outfall Drop (m)  
WDIC (m)  
Apron  
Fill Depth (m)  
Tidegate

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0294

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	10
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.97834
Longitude:	-123.90237
WA state plane south (NAD 27, feet)	
East:	1,151,286
North:	618,249

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Chehalis R 22.0190
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

### Location / Directions:

Water crossing is approximately 250 meters south of the Adams St/Firman St junction.

### Site Comments:

Stream drains City of Hoquiam Adams St pump station in roadside ditch.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/19/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	1.08
Rise (m)	1.08
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.05
WDIC (m)	0.00
Apron	DS
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0295

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	10
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.97791
Longitude:	-123.90237
WA state plane south (NAD 27, feet)	
East:	1,151,279
North:	618,093

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Chehalis R 22.0190
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

### Location / Directions:

Water crossing is approximately 250 meters south of the Adams St/Firman St junction.

### Site Comments:

Stream drains City of Hoquiam Adams St pump station in roadside ditch.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/19/2005
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.06
Rise (m)	1.06
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0296

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Private Dr
County:	Grays Harbor
1/4 Section:	NE
Section:	10
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.97655
Longitude:	-123.90242
WA state plane south (NAD 27, feet)	
East:	1,151,245
North:	617,597

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Chehalis R 22.0190
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

### Location / Directions:

Water crossing is approximately 0.25 miles south of the Adams St/Firman St junction, on private drive on west side of road.

### Site Comments:

Stream drains City of Hoquiam Adams St pump station in roadside ditch.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/19/2005
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.06
Rise (m)	1.06
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.10
Apron	No
Fill Depth (m)	1.00
Tidegate	No

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0297

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	Airport Way
County:	Grays Harbor
1/4 Section:	SE
Section:	10
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.97232
Longitude:	-123.90242
WA state plane south (NAD 27, feet)	
East:	1,151,179
North:	616,058

### EVALUATION LEVEL COMPLETED

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

### WATERBODY

Stream:	unnamed
Tributary To:	Chehalis R 22.0190
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

### Location / Directions:

Water crossing is approximately 5 meters west of the Airport Way/Adams St junction.

### Site Comments:

Stream drains City of Hoquiam Adams St pump station in roadside ditch. Outfall is onto tidal flats of Grays Harbor.

### SPECIES POTENTIAL

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

### OWNER

Name:	Hoquiam
Type:	City

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/19/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.08
Rise (m)	1.08
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.20
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	Yes

### Culvert Comments:



# WRIA 22 Fish Passage Inventory

Mason Conservation District

Site ID:

127Q0298

Fish Use: No

PI:

Barrier:

## SITE DESCRIPTION

### GENERAL LOCATION

Road Name:	K St
County:	Grays Harbor
1/4 Section:	SW
Section:	12
Township:	17N
Range:	10W

### POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.97255
Longitude:	-123.87989
WA state plane south (NAD 27, feet)	
East:	1,156,801
North:	615,901

### EVALUATION LEVEL COMPLETED

<input type="checkbox"/>	Report Logged
<input checked="" type="checkbox"/>	Field Review
<input type="checkbox"/>	Threshold Determination
<input type="checkbox"/>	Expanded Threshold Determination
<input type="checkbox"/>	Downstream Check
<input type="checkbox"/>	Physical Survey

### WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

### Location / Directions:

Water crossing is approximately 0.15 miles southeast of the K St/11th St intersection.

### Site Comments:

Drains City of Hoquiam K St pump station.

### SPECIES POTENTIAL

<input type="checkbox"/>	Sockeye	<input type="checkbox"/>	Sea Run Cutthroat
<input type="checkbox"/>	Pink	<input type="checkbox"/>	Resident Trout
<input type="checkbox"/>	Chum	<input type="checkbox"/>	Dolly/Bull Trout
<input type="checkbox"/>	Chinook	<input type="checkbox"/>	Brook Trout
<input type="checkbox"/>	Coho	<input type="checkbox"/>	Brown Trout
<input type="checkbox"/>	Steelhead		

## LEVEL A ANALYSIS

### SUMMARY INFORMATION

Review Date:	7/19/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

### PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

### CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

### POTENTIAL HABITAT GAIN

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

### CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	0.41
Rise (m)	0.41
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.00
Apron	DS
Fill Depth (m)	0.50
Tidegate	Yes

### Culvert Comments:

Rip rap pile at downstream end of apron.

