

**ODFW AQUATIC INVENTORY PROJECT**  
**OREGON PLAN FOR SALMON & WATERSHEDS**  
**STREAM RESTORATION HABITAT REPORT**

STREAM: North Fork Coquille River (MS-323)  
BASIN: Coquille River  
SURVEY TYPE: Pre-Tx  
DATE: June 28, 2006  
SURVEY CREW: Peter Cole, Pat Burns  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: km<sup>2</sup>  
USGS MAPS: Daniels Creek  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The North Fork Coquille River habitat survey extended 787 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.0 (range: 3.0-10.0). Land use for the reach was rural residential and second growth (15-30 cm dbh) trees. The average unit gradient was 0.4 percent. Scour pools (63%) dominated stream habitat. There was no dominant substrate type. Wood volume was very low at 3.4 m<sup>3</sup>/100m.

**COMMENTS:**

There were no potential barriers to upstream fish migration in the surveyed length.

REACH 1

T26S-R11W-S28NW

REACH 1

**Valley and Channel Summary**

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	5.0	VWI Range:	3 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	787	9,141	0
Secondary Channel	45	193	1
Off-Channel Units	78	226	2

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 9.1	Width: 20.9	26.2 ( 19.5 - 30 )	30.9 ( 24.7 - 36 )
Depth: 0.47	Height: 0.9	1.9 ( 1.4 - 2.1 )	2.9 ( 2.4 - 3.4 )

W:D ratio: 22.7

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: MF

Habitat Units/100m (total channel length): 3.5

Average Unit Gradient: 0.4%

Habitat Units/100m (primary channel length): 4.1

Water temperature (°C): 16.0 - 16.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	ST
Riparian Vegetation:	D30	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	2%	Reach avg: 59%
Undercut Banks:	2%	Range: 36 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	56	7.1
Volume (m <sup>3</sup> ):	26	3.4
Key pieces (>=12m x 0.60m):	0	0.0

HABITAT INVENTORY

Report Date: 3/5/2007

Survey Date:

6/28/2006

REACH 1		T26S-R11W-S28NW					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
DRY CHANNEL	1	45	4.3	0.00	191	0	0	40	30	30	0	0
DRY UNIT	2	46	3.0	0.00	132	0	0	13	43	35	10	0
GLIDE	6	148	12.3	0.43	1,819	24	2	21	24	17	8	29
POOL-BACKWATER	3	16	3.5	0.40	56	6	26	51	6	2	6	10
POOL-ISOLATED	1	16	2.3	0.30	38	0	20	30	30	20	0	0
POOL-LATERAL SCOUR	9	513	11.2	0.99	5,991	70	7	25	9	7	5	47
RIFFLE	2	44	11.0	0.23	480	4	0	5	23	64	8	0
STEP/COBBLE	8	83	9.0	0.19	853	19	0	13	53	27	6	1
<b>Total:</b>	<b>32</b>	<b>910</b>	<b>9.1</b>	<b>0.47</b>	<b>9,560</b>	<b>123</b>	<b>Avg: 5</b>	<b>22</b>	<b>27</b>	<b>20</b>	<b>6</b>	<b>20</b>

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	4	32	3.2	0.38	94	0.98%	6	6.4	
Scour Pools	9	513	11.2	0.99	5,991	62.66%	70	1.2	
Glides	6	148	12.3	0.43	1,819	19.02%	24	1.3	
Riffles	2	44	11.0	0.23	480	5.03%	4	0.8	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	8	83	9.0	0.19	853	8.92%	19	2.2	
Dry	3	91	3.4	0.00	323	3.38%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	Primary Channel Length
		<u># / Km</u>	<u># / Km</u>
All Pools:	13	14.3	16.5
Pools >=1m deep:	4	4.4	5.1
Complex pools (LWD pieces>=3):	5	5.5	6.4
Pool frequency (channel widths/pool):	3.4		
Residual pool depth (avg):	0.71		

Survey Date 6/28/2006  
Report Date: 3/5/2007

**RIPARIAN ZONE  
VEGETATION SUMMARY**

REACH 1

**Summary of Riparian Zone (0-30m) 3 transects**

Total hardwoods/1000	691
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

**Average number of trees in a 5-meter wide band**

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	4.7	0.0	1.0	0.0	1.3	0.0	7.0
15-30cm	0.0	1.7	0.0	0.7	0.7	0.3	0.7	2.7
30-50cm	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
50-90cm	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	8.0	0.0	1.7	0.7	1.7	0.2	3.8

**Canopy closure and ground cover**

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	55	37	42
Shrub cover	20	25	28
Grass/forb cover	41	58	62

**Predominant landform in each zone**

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	67	50	50
High terrace	33	50	50
Low terrace	0	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	22	14	18

**Summary of Riparian Zone (0-30m) for all reaches****3 transects****Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	691
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

**Average number of trees in a 5-m wide band**

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	7.0
15-30cm	0.7	2.7
30-50cm	0.0	1.0
50-90cm	0.0	0.7
>90cm	0.0	0.0

**RIPARIAN ZONE VEGETATION**

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
7	LF	1	HS	50	80	5	35	Conifer							
								Hardwood	2		1				
7	LF	3	HS	30	50	10	70	Conifer							NO TREES
								Hardwood							
7	LF	2	HS	30	80	10	50	Conifer							3M WIDE DIRT ROAD
								Hardwood	1	1					
7	RT	2	HT	0	0	0	100	Conifer							NO TREES
								Hardwood							
7	RT	1	HT	5	0	10	90	Conifer							NO TREES
								Hardwood							
7	RT	3	HT	5	0	5	90	Conifer							NO TREES
								Hardwood							
12	LF	2	HT	0	30	0	90	Conifer							
								Hardwood							
12	LF	3	HT	0	0	0	100	Conifer							
								Hardwood							
12	RT	1	HS	10	40	20	60	Conifer							RB/HS
								Hardwood	2	1					
12	RT	2	HS	20	20	60	40	Conifer							NO TREES
								Hardwood							
12	RT	3	HS	40	80	40	40	Conifer							NO TREES
								Hardwood							
12	LF	1	HS	30	90	5	10	Conifer							HS/HT, NO AMPHIBIANS
								Hardwood	2	3	1	2			
17	RT	3	HT	0	30	70	30	Conifer							
								Hardwood	2						
17	LF	3	HS	30	90	40	40	Conifer			2				
								Hardwood	2	1					
17	RT	1	HT	5	70	60	20	Conifer							
								Hardwood	4	1	1				
17	LF	2	HS	30	90	40	30	Conifer							
								Hardwood	2	1					
17	LF	1	HS	30	50	20	30	Conifer							RB/HS
								Hardwood	4						
17	RT	2	HT	5	0	40	40	Conifer							SC/HT, SC IS DRY
								Hardwood							

# Comment Summary

## Restoration Monitoring Sites 2006

MONITORING AREA: **3-MS**      SITE ID: **323**      NORTH FORK COQUILLE PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
2	DU	11	26	/TJ	ACW=2.5M, /TJ	TRIB AT START
5	GL	00	93.6			MAX DEPTH=0.70M
7	GL	00	142.8			MAX DEPTH =0.70M
8	LP	00	211.8	WL		2 RSN
10	BW	10	225.9		CT/CA	
12	GL	00	288.1			NO AMPHIBIANS IN RIPAR
16	LP	01	393.1	WL		RED-LEGGED FROG
17	SC	01	407			SC RIGHT ENTERS
18	IP	10	407	WL		1 RSN
22	LP	01	488			SC RIGHT LEAVES
23	SC	02	488		H=1.2M	DRY
28	LP	01	658.8	/TJ		
31	SC	00	670.1		T=18.0C AT 1403	

