

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

STREAM: 15B Creek (MS-211)  
BASIN: North Fork Coquille River  
SURVEY TYPE: Post-Tx  
DATE: February 4, 2004  
SURVEY CREW: Michael Scheu, Jeremiah Bernier  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 0.8 km<sup>2</sup>  
USGS MAPS: Coos Mtn.  
ECOREGION: Coast Range Sedimentary

**GENERAL DESCRIPTION:**

The 15B Creek habitat survey extended 470 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 10.2 (range: 2.0-20.0). Land use for the reach was young (3-15 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 6.7 percent. Cascades (36%) and rapids (32%) dominated stream habitat. Gravel (34%), cobble (24%) and sand (21%) dominated stream substrate. Wood volume was low at 15.6 m<sup>3</sup>/100m.

**COMMENTS:**

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

The crew noted several habitat structures during the survey.

REACH 1

T26S-R11W-S15NW

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	10.2	VWI Range:	2 - 20

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	470	745	0
Secondary	99	135	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 1.7	Width: 3.9	7.6 ( 2.8 - 17 )	9.4 ( 3.5 - 19 )
Depth: 0.20	Height: 0.4	0.8 ( 0.6 - 0.9 )	1.0 ( 0.8 - 1.3 )

W:D ratio: 10.3

Stream Flow Type: MF

Average Unit Gradient: 6.7%

Water temperature (°C): 9.0 - 9.0

Entrenchment (ACW:FPW ratio): 2.1

Habitat Units/100m (total channel length): 9.1

Habitat Units/100m (primary channel length): 11.1

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	YT	LT
Riparian Vegetation:	D30	S

Bank Condition and Shade

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

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	75	16.0
Volume (m <sup>3</sup> ):	74	15.6
Key pieces (>=12m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

15B CREEK POST-TX (MS-211)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/4/2004

REACH 1		T26S-R11W-S15NW					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	
CASCADE/BOULDERS	11	205	1.5	0.13	314	0	8	7	33	33	20	0	
CULVERT CROSSING	1	10	0.5	0.05	5	0	24	24	24	24	5	0	
POOL-BACKWATER	1	5	1.3	0.40	7	0	80	20	0	0	0	0	
POOL-DAMMED	1	18	3.4	0.70	62	0	30	70	0	0	0	0	
POOL-LATERAL SCOUR	11	56	2.2	0.35	121	0	22	42	21	14	0	0	
POOL-PLUNGE	5	12	2.2	0.48	27	0	4	16	62	15	4	0	
PUDDLED UNIT	1	10	0.4	0.12	4	0	0	5	19	29	48	0	
RAPID/BOULDERS	12	208	1.3	0.09	279	0	7	20	39	33	1	0	
RIFFLE	3	33	1.2	0.07	38	0	7	31	61	2	0	0	
STEP/BEDROCK	2	6	1.8	0.04	16	0	43	5	3	2	0	48	
STEP/COBBLE	1	1	1.2	0.05	2	0	0	10	30	60	0	0	
STEP/LOG	2	3	1.3	0.08	4	0	0	5	30	63	2	0	
STEP/STRUCTURE	1	1	1.7	0.03	2	0	0	5	75	10	10	0	
<b>Total:</b>	<b>52</b>	<b>570</b>	<b>1.7</b>	<b>0.20</b>	<b>880</b>	<b>0</b>	<b>Avg: 13</b>	<b>21</b>	<b>34</b>	<b>24</b>	<b>6</b>	<b>2</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	2	23	2.4	0.55	68	7.77%	0	0.0	
Scour Pools	16	69	2.2	0.39	149	16.90%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	3	33	1.2	0.07	38	4.28%	0	0.0	
Rapids	12	208	1.3	0.09	279	31.75%	0	0.0	
Cascades	11	205	1.5	0.13	314	35.68%	0	0.0	
Step/Falls	6	12	1.5	0.05	23	2.62%	0	0.0	
Dry	1	10	0.4	0.12	4	0.43%	0	0.0	
Culverts	1	10	0.5	0.05	5	0.57%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths	
		# / Km	Primary Channel Length # / Km
All Pools:	18	31.6	38.3
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	6	10.5	12.8
Pool frequency (channel widths/pool):	8.2		
Residual pool depth (avg):	0.33		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

**MONITORING AREA: 3-MS      SITE ID: 211      15B CREEK POST-TX (MS-211)**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	SR	00	5.2	HS		TROUGH CUT IN ROCK
2	RB	00	25.2	BC; CS/CS		NARROW 1.3M BRIDGE
3	LP	00	28.7	HS		BLUE FLAG SS #13
5	RB	11	40.7	ACW=3M		60% FLOW IN TRIB
6	RB	12	40.7	ACW=2M		
7	LP	00	45.7			T=9C
9	LP	00	54.1	HS		SS #12
10	RB	00	77.8	HSx2		SS #11
12	RB	00	97.9	HS		SS #10
13	LP	01	105.3	HS		SS #9
14	RB	01	115.7			BLUE-CROSS SEC 10-7-0
15	LP	01	119.7	HS		BLUE FLAG
16	RB	01	131.1	HS		SS #7
19	LP	01	149.2	HS		SMALL SL OLD
20	CC	01	159.2	CC		1.25 DIAMETER
21	SR	02	159.2			H=1.2M OVERFLOW
25	DP	01	177.4			SS #6
30	LP	00	204.3	HS		
31	RI	00	220.3			SS #5; T=9C
32	PP	00	222.3	HS		SS #4
34	PP	00	240.9	HS		SS #3

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **3-MS**      SITE ID: **211**      **15B CREEK POST-TX (MS-211)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
35	SS	00	242.3	HS	H=0.7M	
37	PP	00	255.8	HS	SS #3A	
39	PP	00	272.6		SS #2	
40	SL	00	273.1		H=0.6M	
41	RB	00	298.1		SS #1 FLAG	
46	SL	00	346.6		H=0.7M	
47	CB	00	363.2		SPAWNING SIGN AQINV	
48	CB	00	388.2	DJ		
49	CB	00	408.2	-/SS		
52	CB	00	470.2	DJ		

