

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

STREAM: Bergsvick Creek (N117)
BASIN: Necanicum River
SURVEY TYPE: Post-Tx
DATE: February 20, 2002
SURVEY CREW: Sean Allen, Rachel Werner
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 12.1 km²
USGS MAPS: Necanicum Junction
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Bergsvick Creek habitat survey extended 490 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 12.3 (range: 5.5-20.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 1.1 percent. Scour pools (70%) and riffles (18%) dominated stream habitat. Gravel (43%) and cobble (30%) dominated stream substrate. Wood volume was low at 8.0 m³/100m.

COMMENTS:

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

The crew noted several habitat structures as well as evidence of beaver activity during the survey.

REACH

T-5N-R10W-S26NE

REACH

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	12.3	VWI Range:	5.5 - 20

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	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	490	4,093	0
Secondary	116	331	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 4
Width: 6.5	Width: 10.3	36.6 (28.2 - 47)	36.9 (30 - 47.5)
Depth: 0.65	Height: 1.2	1.2 (1.2 - 1.4)	1.4 (1.3 - 1.5)

W:D ratio: 14.7

Entrenchment (ACW:FPW ratio): 3.7

Stream Flow Type: MF

Habitat Units/100m (total channel length): 5.6

Average Unit Gradient: 1.1%

Habitat Units/100m (primary channel length): 6.9

Water temperature (°C): 5.5 - 5.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D3	C50

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):	44	9.0
Volume (m ³):	39	8.0
Key pieces (>=12m x 0.60m):	3	0.6

OREGON DEPARTMENT OF FISH AND WILDLIFE

BERGSVICK POST-TX (N117)

HABITAT INVENTORY

Report Date: 11/15/2013

Survey Date:

2/20/2002

REACH		T-5N-R10W-S26NE						REACH					
HABITAT DETAIL													
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area						
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
POOL-BACKWATER	1	4	4.0	0.50	16	0	1	14	50	35	0	0	
POOL-ISOLATED	2	8	2.3	0.70	19	0	18	48	25	5	5	0	
POOL-LATERAL SCOUR	16	331	7.4	1.04	2,544	0	1	9	43	29	11	6	
POOL-STRAIGHT SCOUR	2	63	8.9	1.10	533	0	1	10	48	33	8	3	
RAPID/BOULDERS	3	45	5.7	0.13	265	0	0	0	40	40	20	0	
RIFFLE	6	111	4.2	0.12	734	0	1	13	53	29	4	0	
RIFFLE W/ POCKETS	1	18	4.7	0.10	84	0	0	0	60	39	1	0	
STEP/BEAVER DAM	1	13	1.8	0.01	23	0	30	50	10	10	0	0	
STEP/COBBLE	2	14	12.9	0.08	206	0	0	0	43	50	7	0	
Total:	34	607	6.5	0.65	4,424	0	Avg: 3	12	43	30	9	3	

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	3	12	2.8	0.63	35	0.78%	0	0.0	
Scour Pools	18	394	7.6	1.04	3,077	69.56%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	7	129	4.2	0.12	818	18.48%	0	0.0	
Rapids	3	45	5.7	0.13	265	6.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	3	27	9.2	0.05	229	5.18%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	21	34.6	42.8
Pools >=1m deep:	12	19.8	24.5
Complex pools (LWD pieces>=3):	6	9.9	12.2
Pool frequency (channel widths/pool):	2.8		
Residual pool depth (avg):	0.91		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 117 BERGSVICK POST-TX (N117)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
3	LP	00	53.3	HS	
4	LP	00	82.3	/SS	
6	SC	01	122.7		H = .3
7	SP	01	148	/TJ	
10	LP	01	172.7	HS, TJ/	BOULDERS
14	BW	10	220.5	BV	
15	LP	01	241.3	/TJ	2 TRIB ENTRANCES
17	SD	11	241.3	BV	H = 1.3
20	LP	01	279.8	HS	LOGS
28	LP	00	339.1	HS	LOGS
31	IP	10	386.9	SS/	COHO FRY
32	LP	00	418.1	HS, DJ	
33	RI	00	461	SS/	