

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

STREAM: Bear Creek (MS-4)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: March 9, 2000
SURVEY CREW: Brent Crowe, Clark Watry
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 10.2 km²
USGS MAPS: Bill Peak
ECOREGION: Coast Range Sitka Spruce

GENERAL DESCRIPTION:

The Bear Creek habitat survey extended 488 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.3 (range: 2.0 – 3.0). Land use for the reach was large (30-50 cm dbh) trees. The average unit gradient was 0.6 percent. Scour pools (37%) and riffles (34%) dominated stream habitat. Gravel (62%) dominated stream substrate. Wood volume was high at 31.8 m³/100m.

COMMENTS:

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

295-13W-513 SE

Report Date: 11/12/03

Survey Date: 3/9/00

REACH 1

T10S-R9W-S26SE

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	0%
Open V-shape	0%	Wide Floodplain	100%
Valley Width Index	2.3	VWI Range:	2 - 3

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	488	2,462	0
Secondary	80	184	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.3	Width	7.6	10.0	11.8
Depth	0.44	Height	0.6	1.1	2.0
		W:D ratio	13.7	Entrenchment	1.3

Stream Flow Type: HF Water temp (C): -
Avg. Unit Gradient: 0.6% Habitat Units/100m: 7.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LG
Riparian Vegetation:	D30	P

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</u>
All pieces (>=3m x 0.15m):	220	45.1
Volume (m ³):	155	31.7
Key pieces (>=10m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

BEAR CREEK (PRE-TX)

HABITAT INVENTORY

Report Date: 11/12/03

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REACH 1

T10S-R9W-S26SE

REACH 1

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
GLIDE	5	105	4.9	0.29	571	0	0	8	77	15	0	0
POOL-ALCOVE	2	20	0.6	0.50	12	0	8	35	40	18	0	0
POOL-BACKWATER	4	30	2.9	0.39	96	0	13	53	28	0	0	8
POOL-ISOLATED	1	4	0.8	0.20	3	0	5	0	95	0	0	0
POOL-LATERAL SCOUR	10	155	5.0	0.79	756	0	3	17	50	17	1	11
POOL-STRAIGHT SCOUR	3	35	6.6	0.57	227	0	0	20	53	7	3	17
RAPID/BOULDERS	1	19	4.0	0.30	76	0	0	0	60	30	10	0
RIFFLE	10	189	4.4	0.18	850	0	0	3	81	16	2	0
RIFFLE W/ POCKETS	1	13	4.2	0.20	55	0	0	5	95	0	0	0
Total:	37	568	4.3	0.44	2,646	0	Avg 3	16	62	13	1	5

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	7	53	1.9	0.39	110	4.17%	0	0.0
Scour Pools	13	189	5.3	0.74	983	37.16%	0	0.0
Glides	5	105	4.9	0.29	571	21.58%	0	0.0
Riffles	11	202	4.4	0.18	906	34.23%	0	0.0
Rapids	1	19	4.0	0.30	76	2.86%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	0	0			0	0.00%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km
All Pools:	20	41.0
Pools >=1m deep:	1	2.0
Complex pools (LWD pieces>=3):	9	18.4
Pool frequency (channel widths/pool):	3.7	
Residual pool depth (avg):	0.54	

STREAM SUMMARY

BEAR CREEK (PRE-TX)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Large Boulders (#>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
37	568	4.3	0.44	2,646	3	16	62	13	1	5	

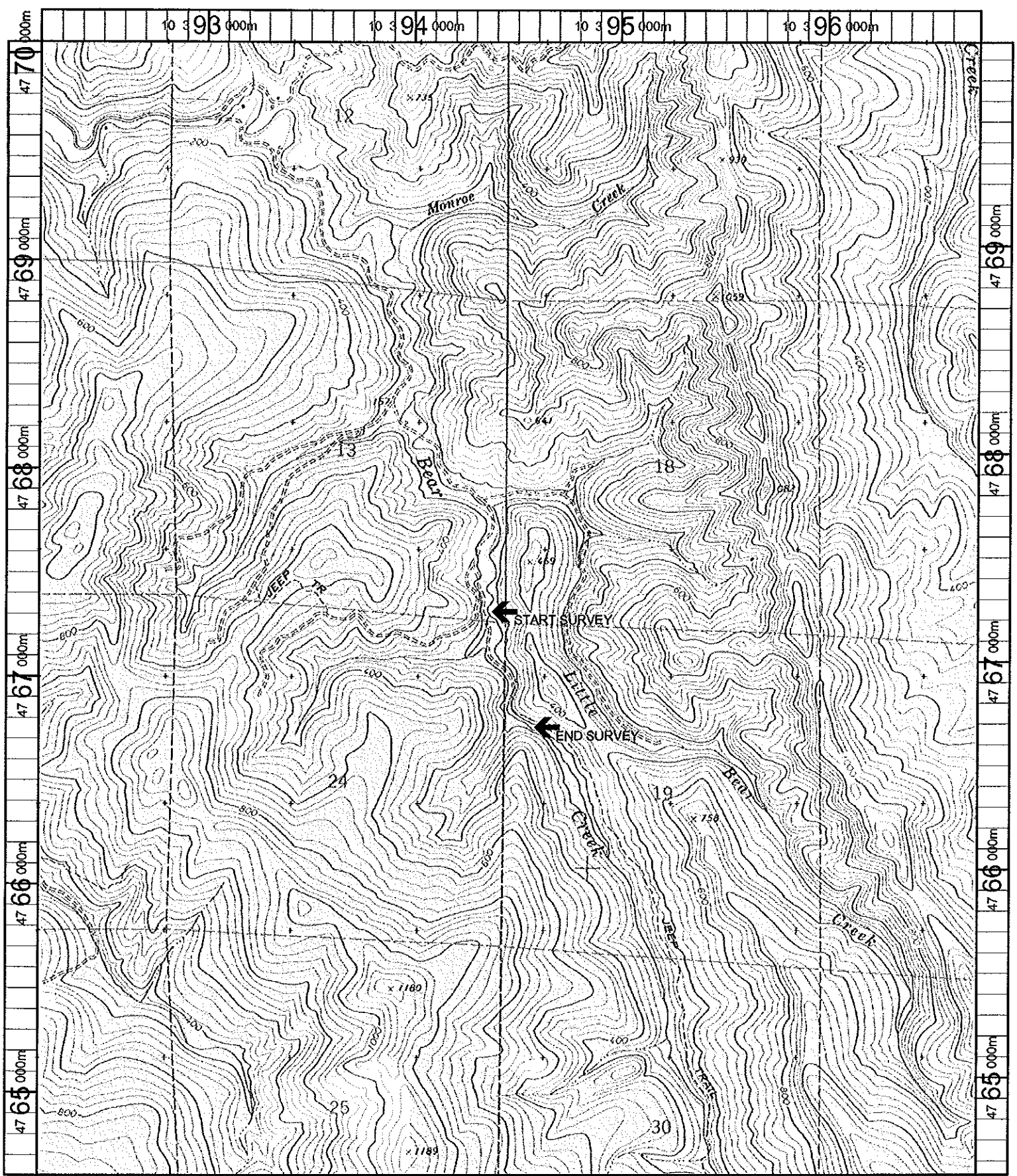
Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	110	4.17%
Scour Pools	983	37.16%
Glides	571	21.58%
Riffles	906	34.23%
Rapids	76	2.86%
Cascades	0	0.00%
Step/Falls	0	0.00%
Dry	0	0.00%
Culverts	0	0.00%

Comment Summary

Restoration Monitoring Sites 2003

MONITORING AREA: 3-MS SITE ID: 4 BEAR CREEK (PRE-TX)

<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	LP	00	13.1		VWI=2.3	
2	RI	01	37.6	DJ		
10	SP	00	126.9		VWI=2.3	
21	RI	01	252.7	DJ		
23	RB	00	271.6	DJ	VWI= 3	
28	GL	00	361		VWI= 2	
37	LP	00	487.9		VWI= 2	



Name: BILL PEAK
 Date: 10/13/100
 Scale: 1 Inch equals 2000 feet

Location: 10 394318 E 4767278 N
 Caption: BEAR CREEK RESTORATION SITE
Coquille basin