

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

STREAM: Bald Peter Creek Lower (W-196)  
BASIN: South Santiam River  
SURVEY TYPE: Post-Tx  
DATE: February 25, 2004  
SURVEY CREW: Jim Andrews, April Waters  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 28.8 km<sup>2</sup>  
USGS MAPS: Keel Mtn.  
ECOREGION: Cascades Western Central

**GENERAL DESCRIPTION:**

The Bald Peter Creek habitat survey extended 564 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 1.6 (range: 1.0-2.8). Land use for the reach was second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 3.8 percent. Scour pools (33%), rapids (25%) and cascades (25%) dominated stream habitat. Cobble (34%) and boulders (30%) dominated stream substrate. Wood volume was low at 19.2 m<sup>3</sup>/100m.

**COMMENTS:**

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

REACH 1

T12S-R02E-S32SE

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	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	1.6	VWI Range:	1 - 2.8

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
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	564	3,614	0
Secondary	10	45	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 6.4	Width: 9.8	13.6 ( 9.7 - 18 )	14.0 ( 14 - 14 )
Depth: 0.68	Height: 0.5	1.0 ( 0.8 - 1.3 )	2.6 ( 2.6 - 2.6 )

W:D ratio: 20.3 Entrenchment (ACW:FPW ratio): 1.4  
 Stream Flow Type: MF Habitat Units/100m (total channel length): 5.9  
 Average Unit Gradient: 3.8% Habitat Units/100m (primary channel length): 6.0  
 Water temperature (°C): 6.5 - 6.5

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	M15	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):	82	14.5
Volume (m <sup>3</sup> ):	108	19.2
Key pieces (>=12m x 0.60m):	5	0.9

**OREGON DEPARTMENT OF FISH AND WILDLIFE BALD PETER CREEK LOWER PRE-TX (W-196)**

**HABITAT INVENTORY**

Report Date: 6/16/2004

Survey Date:

2/25/2004

<b>REACH 1</b>		<b>T12S-R02E-S32SE</b>					<b>REACH 1</b>						
<b>HABITAT DETAIL</b>													
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/BEDROCK	2	38	6.8	0.60	238	0	0	0	8	23	25	45	
CASCADE/BOULDERS	6	113	6.0	0.57	685	0	0	0	9	26	56	9	
POOL-LATERAL SCOUR	11	164	6.3	0.82	994	0	0	3	20	36	22	20	
POOL-PLUNGE	3	29	6.9	1.17	204	0	0	2	10	30	35	23	
RAPID/BEDROCK	2	37	5.3	0.45	194	0	0	0	3	8	18	73	
RAPID/BOULDERS	4	109	6.6	0.54	739	0	0	2	15	44	35	5	
RIFFLE	4	71	7.1	0.49	530	0	0	4	23	57	12	3	
STEP/BEDROCK	1	5	7.0	0.40	32	0	0	0	0	10	10	80	
STEP/BOULDERS	1	9	5.0	0.45	45	0	0	0	10	30	50	10	
<b>Total:</b>	<b>34</b>	<b>574</b>	<b>6.4</b>	<b>0.68</b>	<b>3,659</b>	<b>0</b>	<b>Avg: 0</b>	<b>2</b>	<b>14</b>	<b>34</b>	<b>30</b>	<b>21</b>	

<b>HABITAT SUMMARY</b>								
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	0	0			0	0.00%	0	0.0
Scour Pools	14	193	6.5	0.89	1,198	32.74%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	4	71	7.1	0.49	530	14.49%	0	0.0
Rapids	6	146	6.2	0.51	932	25.47%	0	0.0
Cascades	8	150	6.2	0.58	923	25.22%	0	0.0
Step/Falls	2	13	6.0	0.43	76	2.08%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

<b>POOL SUMMARY</b>			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	14	24.4	24.8
Pools >=1m deep:	2	3.5	3.5
Complex pools (LWD pieces>=3):	3	5.2	5.3
Pool frequency (channel widths/pool):	4.2		
Residual pool depth (avg):	0.47		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: **8-W**      SITE ID: **196**      **BALD PETER CREEK LOWER PRE-T**

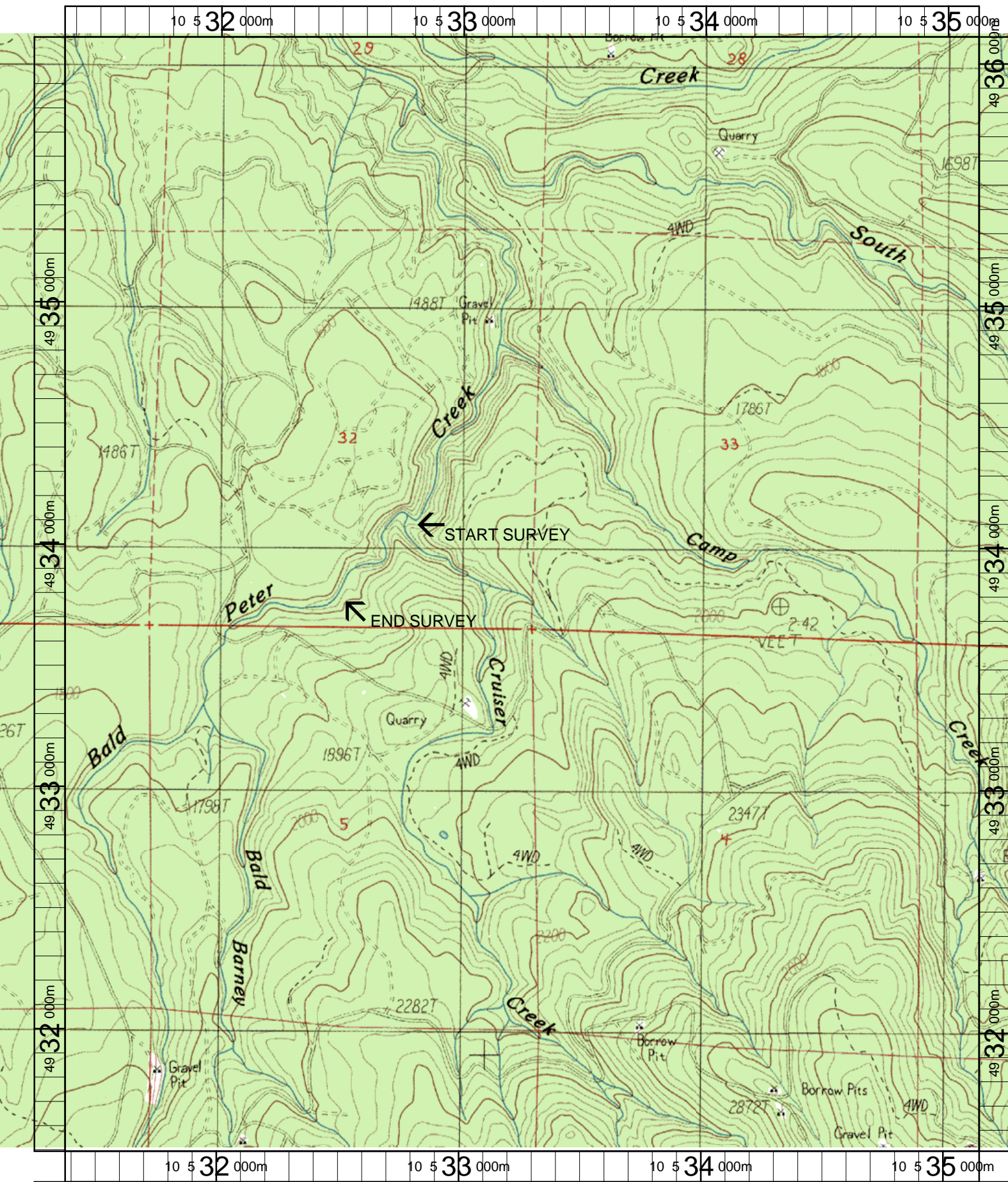
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	PP	01	8.5	TJ/		
2	CB	11	8.5		T=6.9 C; ACW=4.7 M	
5	CR	00	70	SS/		
7	LP	00	108.4	/SS		
8	RR	00	126.4	/SS		
9	LP	00	136.4		CLEARCUT/	
10	RR	00	155.4		CLEARCUT/	
11	RB	00	187.4		CLEARCUT/	
12	LP	00	211.4		CLEARCUT/	
13	CB	00	223.9		CLEARCUT/	
14	PP	00	237.9		CLEARCUT/	
15	CR	00	252.4		CLEARCUT/	
16	LP	00	266.4		CLEARCUT/	
17	LP	00	284.4		CLEARCUT/	
18	CB	00	296.9		CLEARCUT/	
19	RI	00	308.6	SS/	CLEARCUT/	
20	LP	00	317.2		CLEARCUT/	
21	RB	00	340.7		CLEARCUT/	
22	SB	00	349.6		CLEARCUT/; H=0.6 M	
23	PP	00	356.1		CLEARCUT/	
24	SR	00	360.6		CLEARCUT/; H=1.4 M	

# Comment Summary

## Oregon Plan Monitoring Sites 2002

MONITORING AREA: 8-W SITE ID: 196 BALD PETER CREEK LOWER PRE-T

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
25	CB	00	398.6	DJ	CLEARCUT/	
26	RB	00	418		CLEARCUT/	
27	LP	00	429		CLEARCUT/	
28	RI	00	439		CLEARCUT/	
29	LP	00	451.1		CLEARCUT/	
30	RB	00	485.1		CLEARCUT/	
31	LP	00	498.6	DJ	CLEARCUT/	
32	RI	00	528		CLEARCUT/	
33	RI	00	548		CLEARCUT/	
34	LP	00	564		CLEARCUT/	



Name: KEEL MT  
 Date: 6/11/2003  
 Scale: 1 inch equals 1666 feet

Location: 10 533246 E 4933807 N  
 Caption: BALD PETER CREEK LOWER RESTORATION SITE -  
 SOUTH SANTIAM BASIN