

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

STREAM: Bald Peter Creek Upper (W-197)  
BASIN: South Santiam River  
SURVEY TYPE: Pre-Tx  
DATE: June 24, 2003  
SURVEY CREW: Carmen Vandyke, Brock Jonasson  
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 Upper habitat survey extended 510 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 3.4 (range: 1.8-4.6). Land use for the reach was second growth (15-30 cm dbh) and large (30-50 cm dbh) trees. The average unit gradient was 4.2 percent. Rapids (72%) dominated stream habitat. Boulders (42%) and cobble (34%) dominated stream substrate. Wood volume was low at 16.2 m<sup>3</sup>/100m.

**COMMENTS:**

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



OREGON DEPARTMENT OF FISH AND WILDLIFE BALD PETER CREEK UPPER PRE-TX (W-197)

HABITAT INVENTORY

Report Date: 12/17/03

Survey Date:

6/24/03

REACH 1		T12S-R02E-S06NE					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	1	9	8.3	0.45	77	12	0	20	20	10	50	0	
DRY CHANNEL	1	15	0.6	0.00	9	0	90	5	5	0	0	0	
POOL-BACKWATER	2	7	3.0	0.35	20	11	0	30	15	15	40	0	
POOL-LATERAL SCOUR	1	13	7.1	0.50	94	8	0	5	5	60	30	0	
POOL-PLUNGE	2	14	4.7	0.70	64	19	0	6	6	22	67	0	
POOL-STRAIGHT SCOUR	3	51	6.2	0.55	314	38	0	7	9	54	24	7	
RAPID/BOULDERS	17	371	6.5	0.23	2,387	557	0	5	11	37	45	2	
RIFFLE W/ POCKETS	2	46	7.1	0.33	320	39	0	13	15	45	28	0	
STEP/BEDROCK	1	5	3.8	0.15	19	13	0	0	0	10	40	50	
STEP/BOULDERS	1	0	2.8	0.10	1	7	0	0	0	10	90	0	
<b>Total:</b>	31	532	5.9	0.31	3,305	704	<b>Avg</b>	3	7	10	34	42	3

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		22
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	2	7	3.0	0.35	20	0.61%	11	54.6	
Scour Pools	6	78	5.8	0.59	472	14.27%	65	13.8	
Glides	0	0			0	0.00%	0	0.0	
Riffles	2	46	7.1	0.33	320	9.68%	39	12.2	
Rapids	17	371	6.5	0.23	2,387	72.23%	557	23.3	
Cascades	1	9	8.3	0.45	77	2.34%	12	15.5	
Step/Falls	2	5	3.3	0.13	20	0.59%	20	102.0	
Dry	1	15	0.6	0.00	9	0.27%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	8	15.1
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	2	3.8
Pool frequency (channel widths/pool):	7.1	
Residual pool depth (avg):	0.43	

**STREAM SUMMARY**

**BALD PETER CREEK UPPER PRE-TX (W-197)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Large Boulders (>0.5m)
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
31	532	5.9	0.31	3,305	3	7	10	34	42	3	704

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	20	0.61%
Scour Pools	472	14.27%
Glides	0	0.00%
Riffles	320	9.68%
Rapids	2,387	72.23%
Cascades	77	2.34%
Step/Falls	20	0.59%
Dry	9	0.27%
Culverts	0	0.00%

**RIPARIAN ZONE VEGETATION SUMMARY**

REACH 1	REACH 1
<b>Summary of Riparian Zone (0-30m) 3 transects</b>	
Total hardwoods/1000	1483
Total conifers/1000 ft	386
Total conifers >20" dbh/1000 ft	102
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	0.3	4.0	1.0	3.7	1.0	5.3	2.3	13.0
15-30cm	0.0	4.0	0.3	3.7	0.0	1.3	0.3	9.0
30-50cm	0.0	1.7	0.7	0.7	1.3	0.0	2.0	2.3
50-90cm	0.0	0.0	0.7	0.0	1.0	0.0	1.7	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.3	9.7	2.7	8.0	3.3	6.7	2.1	8.1

**Canopy closure and ground cover**

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Canopy closure	86	85	83
Shrub cover	58	29	22
Grass/forb cover	35	57	65

**Predominant landform in each zone**

	Zone 1 0-10 meters	Zone 2 10 - 20 meters	Zone 3 20 - 30 meters
	(%)	(%)	(%)
Hillslope	50	83	100
High terrace	17	17	0
Low terrace	0	0	0
Floodplain	33	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	17	30	41

OREGON DEPARTMENT OF FISH AND WILDLIFE BALD PETER CREEK UPPER PRE-TX (W-197)  
HABITAT INVENTORY - RIPARIAN SURVEY 6/24/03

---

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	1483
Total conifers/1000 ft	386
Total conifers >20" dbh/1000 ft	102
Total conifers >35" dbh/1000 ft	0

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

<u>Diameter class (cm)</u>	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	2.3	13.0
15-30cm	0.3	9.0
30-50cm	2.0	2.3
50-90cm	1.7	0.0
>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		
6	LF	2	HS	35	95	10	50	Conifer							
								Hardwood		3		1			
6	RT	3	HS	20	80	10	70	Conifer							
								Hardwood	3						
6	RT	2	HS	40	90	20	80	Conifer					1		
								Hardwood				1			
6	LF	3	HS	70	90	20	70	Conifer					3		
								Hardwood		1					
6	LF	1	HS	35	95	40	40	Conifer							
								Hardwood	3						
6	RT	1	HS	22	85	60	30	Conifer							
								Hardwood			3		2		
13	LF	1	HS	45	95	30	60	Conifer	1						LOTS OF LARGE DOWNED
								Hardwood			3		2		
13	RT	3	HS	55	60	20	70	Conifer	1					3	
								Hardwood							
13	RT	2	HT	0	70	20	70	Conifer	2					1	
								Hardwood	5						
13	RT	1	FP	1	90	60	40	Conifer							
								Hardwood	4		3				
13	LF	2	HS	35	90	15	70	Conifer							
								Hardwood	2		4				
13	LF	3	HS	10	80	0	80	Conifer							
								Hardwood	4		3				
23	RT	1	HT	0	60	90	10	Conifer							
								Hardwood	1						
23	RT	2	HS	20	80	100	0	Conifer							
								Hardwood	4						
23	LF	3	HS	50	85	20	60	Conifer	1						
								Hardwood	3						
23	RT	3	HS	40	100	60	40	Conifer	1				1		
								Hardwood	6						
23	LF	2	HS	50	85	10	70	Conifer	1		1		2		
								Hardwood			4				
23	LF	1	FP	1	90	70	30	Conifer							
								Hardwood	4						

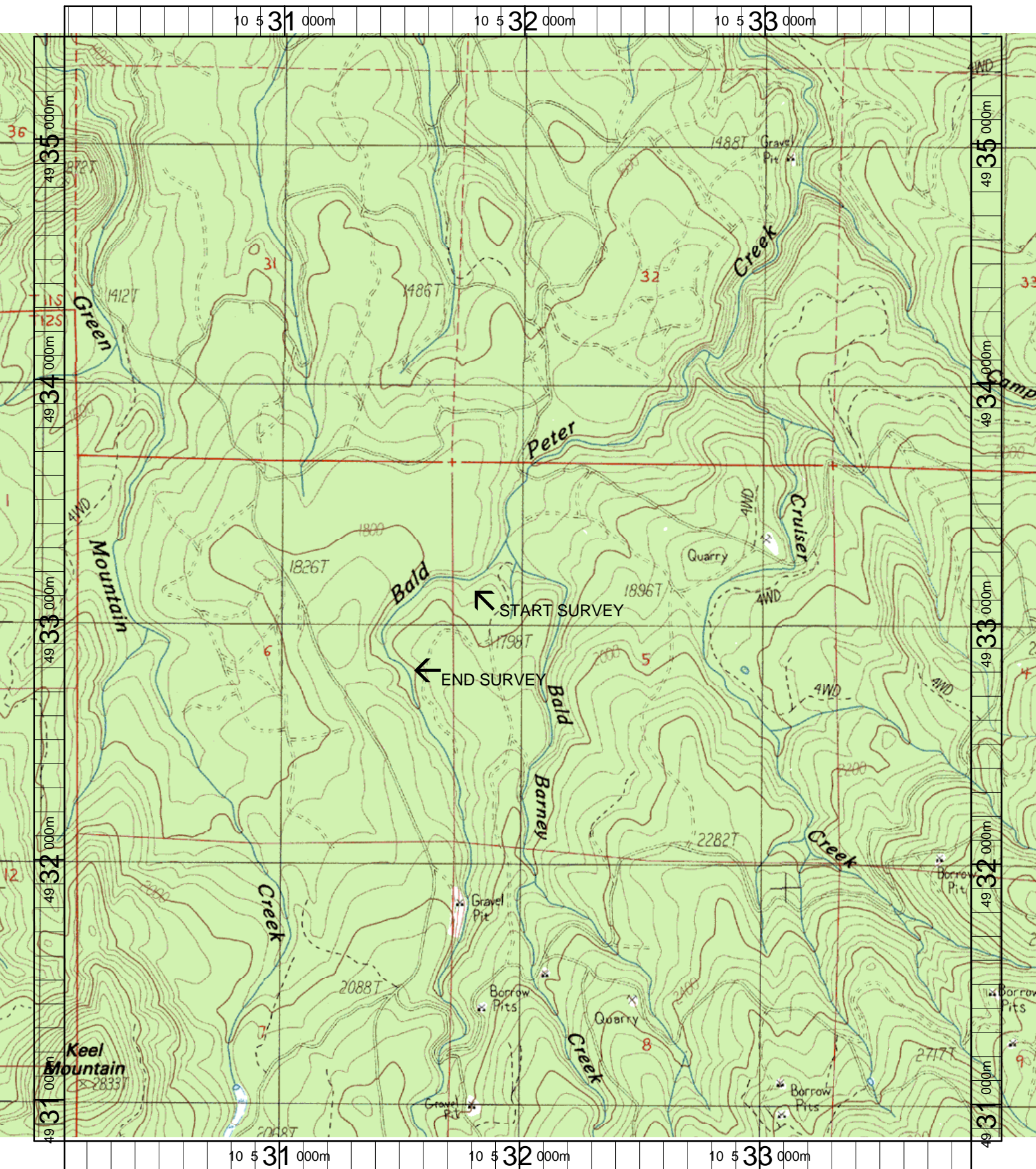
# Comment Summary

## Oregon Plan Monitoring Sites 2003

MONITORING AREA: **8-W**      SITE ID: **197**      **BALD PETER CREEK UPPER 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	RB	00	25.2		START VW= 22	START
4	RP	00	95.1		.7M POCKET	POCKET .7M, .6M
9	SP	00	189.7	SS/		
15	RB	01	305.2		TJ/	POCKET .4M
16	DC	11	305.2		WL- ELK TRACKS	
19	SB	00	335.05		H=.4	
22	RB	00	390.95		VW=27	
30	SR	00	489.45		H=.7	
31	RB	00	509.55		VW=41 END	END SURVEY





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

Location: 10 531977 E 4933141 N  
 Caption: BALD PETER CREEK UPPER RESTORATION SITE -  
 SOUTH SANTIAM BASIN