

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

STREAM: Bummer Creek (MC-9)
BASIN: Alsea River
SURVEY TYPE: Post-Tx
DATE: February 26, 2004
SURVEY CREW: Jim Andrews, April Waters
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 34.6 km²
USGS MAPS: Prairie Peak
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Bummer Creek habitat survey extended 478 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 16.7 (range: 5.7-53.0). Land use for the reach was second growth (15-30 cm dbh) and young (3-15 cm dbh) trees. The average unit gradient was 2.6 percent. Rapids (50%) dominated stream habitat. Cobble (38%) and gravel (30%) dominated stream substrate. Wood volume was high at 39.1 m³/100m.

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

T14S-R08W-S25SE

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	16.7	VWI Range:	5.7 - 53

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	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	478	3,107	0
Secondary	69	249	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 6.0	Width: 7.8	10.8 (8.7 - 11.7)	12.9 (9.2 - 17.3)
Depth: 0.49	Height: 0.4	0.7 (0.6 - 0.8)	1.1 (0.8 - 1.6)

W:D ratio: 21.9
Stream Flow Type: MF
Average Unit Gradient: 2.6%
Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.4
Habitat Units/100m (total channel length): 6.2
Habitat Units/100m (primary channel length): 7.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	YT
Riparian Vegetation:	D15	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):	148	30.9
Volume (m ³):	187	39.1
Key pieces (>=12m x 0.60m):	9	1.9

OREGON DEPARTMENT OF FISH AND WILDLIFE

BUMMER CREEK POST-TX (MC-9)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

2/26/2004

REACH 1		T14S-R08W-S25SE					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	
CASCADE/BOULDERS	3	43	7.0	0.50	326	0	0	3	20	42	28	7	
POOL-BACKWATER	2	14	4.5	0.55	65	0	15	32	22	29	2	0	
POOL-LATERAL SCOUR	7	96	5.5	0.74	534	0	10	13	39	22	9	7	
POOL-PLUNGE	1	7	8.5	0.90	55	0	0	0	19	67	5	10	
RAPID/BOULDERS	12	258	6.2	0.37	1,682	0	0	3	30	49	17	1	
RIFFLE	5	74	4.6	0.24	367	0	18	22	28	28	4	0	
RIFFLE W/ POCKETS	3	51	5.7	0.55	282	0	11	16	34	28	8	2	
STEP/LOG	1	4	11.0	0.60	44	0	0	0	20	70	10	0	
Total:	34	548	6.0	0.49	3,355	0	Avg: 6	11	30	38	12	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	2	14	4.5	0.55	65	1.93%	0	0.0	
Scour Pools	8	102	5.9	0.76	589	17.57%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	8	126	5.0	0.36	649	19.35%	0	0.0	
Rapids	12	258	6.2	0.37	1,682	50.13%	0	0.0	
Cascades	3	43	7.0	0.50	326	9.72%	0	0.0	
Step/Falls	1	4	11.0	0.60	44	1.31%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

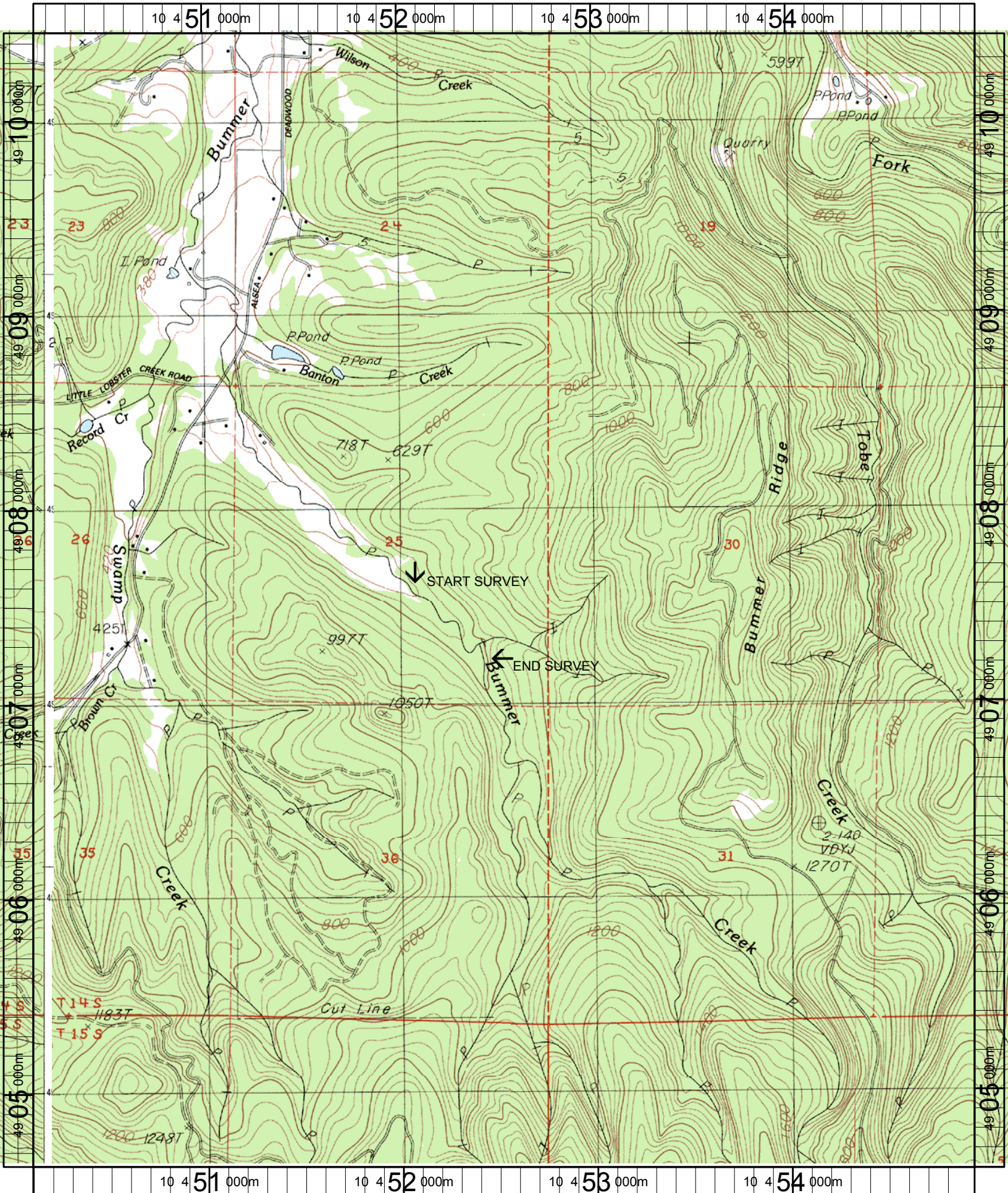
POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	10	18.3	20.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	3	5.5	6.3
Pool frequency (channel widths/pool):	7.0		
Residual pool depth (avg):	0.46		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** SITE ID: **9** **BUMMER CREEK POST-TX (MC-9)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
7	BW	10	83.5	DJ		
8	RP	00	98.1	HS		
10	RB	00	148.3	SS/	3X1 SUB UNIT POOL .6M	
12	LP	01	182.8	HS	1 ADULT STEELHEAD	
14	LP	01	210.8	DJ		
17	RI	02	227.8	DJ		
18	RB	01	252.8	/TJ		
19	RI	11	252.8		T=9 C, ACW=0.9 M	
21	SL	01	263.3	HS, DJ	H=0.7 M	
24	RI	00	296.3	SS/		
25	RB	00	310	WL	WATER OUZEL	
26	RB	00	342.1		1 ADULT STEELHEAD	
27	RB	01	366.6	TJ/		
28	RB	11	366.6		T=8.5 C, ACW=1.4 M	
34	RP	00	478.4	/SS	END SURVEY T=8 C @ 13	



Name: PRAIRIE PEAK
 Date: 7/22/2004
 Scale: 1 inch equals 2000 feet

Location: 10 452531 E 4907525 N
 Caption: BUMMER CREEK RESTORATION SITE - ALSEA BASIN