

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

STREAM: Salmon Creek (MS-235)
BASIN: Coquille River
SURVEY TYPE: Pre-Tx
DATE: March 13, 2006
SURVEY CREW: Scott Venables, Seth Ring
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 57.5 km³
USGS MAPS: China Flat, Powers
ECOREGION: Coast Range California Extension

GENERAL DESCRIPTION:

The Salmon Creek habitat survey extended 893 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 6.0 (range: 2.5-10.0). Land use for the reach was rural residential and light grazing. The average unit gradient was 0.4 percent. Scour pools (68%) and riffles (27%) dominated stream habitat. Cobble (41%) and gravel (38%) dominated stream substrate. Wood volume was very low at 1.3 m³/100m.

COMMENTS:

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

REACH 1

T31S-R12W-S24NW

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	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	6.0	VWI Range:	2.5 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	893	11,135	0
Secondary Channel	47	205	0
Off-Channel Units	73	248	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 9.8	Width: 22.3	37.6 (31.2 - 41.4)	44.9 (38 - 48.7)
Depth: 0.68	Height: 1.0	2.0 (1.8 - 2.3)	4.2 (3.8 - 4.6)

W:D ratio: 22.9
 Stream Flow Type: MF
 Average Unit Gradient: 0.4%
 Water temperature (°C): 6.5 - 6.5

Entrenchment (ACW:FPW ratio): 1.7
 Habitat Units/100m (total channel length): 2.6
 Habitat Units/100m (primary channel length): 2.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	RR	LG
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):	33	3.7
Volume (m ³):	11	1.3
Key pieces (>=12m x 0.60m):	0	0.0

HABITAT INVENTORY

Report Date: 12/6/2006

Survey Date:

3/13/2006

REACH 1		T31S-R12W-S24NW					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	1	5	0.5	0.03	3	0	0	5	50	40	5	0
POOL-ALCOVE	1	7	3.4	0.50	22	0	25	35	20	20	0	0
POOL-BACKWATER	1	7	3.8	0.45	26	0	0	10	60	30	0	0
POOL-ISOLATED	2	54	3.6	0.48	197	0	10	20	31	31	8	0
POOL-LATERAL SCOUR	11	653	11.4	1.12	7,923	0	2	13	39	38	7	1
RAPID/BOULDERS	2	38	8.2	0.40	314	0	0	0	30	58	10	3
RIFFLE	8	249	12.3	0.34	3,102	0	0	4	38	47	9	2
Total:	26	1,013	9.8	0.68	11,588	0	Avg: 3	10	38	41	7	1

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	4	68	3.6	0.48	245	2.11%	0	0.0
Scour Pools	11	653	11.4	1.12	7,923	68.38%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	8	249	12.3	0.34	3,102	26.77%	0	0.0
Rapids	2	38	8.2	0.40	314	2.71%	0	0.0
Cascades	1	5	0.5	0.03	3	0.02%	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

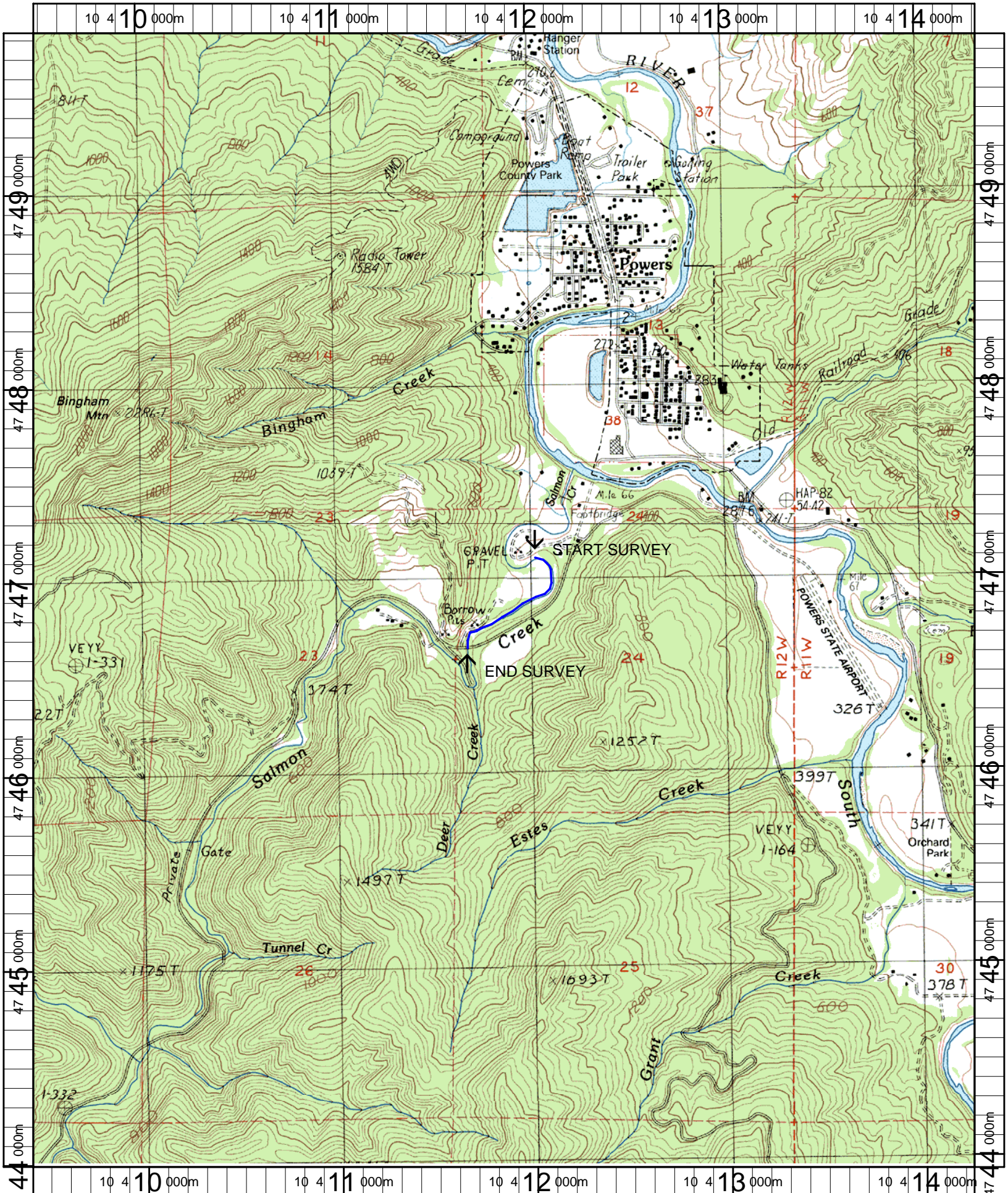
POOL SUMMARY			
	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	15	14.8	16.8
Pools >=1m deep:	6	5.9	6.7
Complex pools (LWD pieces>=3):	1	1.0	1.1
Pool frequency (channel widths/pool):	3.0		
Residual pool depth (avg):	0.75		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: **3-MS** SITE ID: **235** **SALMON CREEK PRE-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	01	19.9	/SS	T = 6.5 AT 12:30	
5	IP	10	157.5		FIVE NEWTS	
10	LP	01	345.3	/SS, TJ		
11	CB	11	345.3		T = 8.5, ACW = 1.4	
13	RI	00	385.4		STEELHEAD	
15	LP	00	512.8	SS/		
16	LP	00	569.8	SS/		
17	RI	00	609.8	SS/		
19	LP	00	701.5	SS/ x 2	STEELHEAD AND FIVE REDDS	
22	LP	00	764.1		STEELHEAD CARCASS	
25	RI	00	873.4	BC	SALMON CREEK ROAD	



Name: CHINA FLAT (OR)
 Date: 2/15/2007
 Scale: 1 inch equals 2000 feet

Location: 10 0411860 E 4746888 N
 Caption: SALMON CREEK RESTORATION SITE - SF COQUILLE BASIN