

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

STREAM: Page Creek (L-194)
BASIN: Clatskanie River
SURVEY TYPE: Pre-Tx
DATE: July 1, 2003
SURVEY CREW: Trevor Diemer, Ben Walczak
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 12.4 km²
USGS MAPS: Clatskanie
ECOREGION: Coast Range Astoria Willapa

GENERAL DESCRIPTION:

The Page Creek habitat survey extended 512 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.2 (range: 1.2-4.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 2.4 percent. Riffles (39%), rapids (27%) and scour pools (25%) dominated stream habitat. Gravel (48%) and cobble (36%) dominated stream substrate. Wood volume was very low at 3.7 m³/100m.

COMMENTS:

There was a potential barrier to upstream fish migration in the surveyed length, as two culverts at units 31 and 34, 350 m upstream from the start of the survey.

REACH 1		T07N-R01W-S36NW					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	
CULVERT CROSSING	2	65	0.4	0.06	25	0	15	20	20	35	10	0	
DRY CHANNEL	1	33	1.1	0.00	36	0	5	5	45	45	0	0	
POOL-BACKWATER	2	7	2.6	0.30	17	0	18	33	40	10	0	0	
POOL-LATERAL SCOUR	10	100	3.5	0.49	326	0	3	12	43	35	1	7	
POOL-PLUNGE	4	18	3.6	0.53	72	0	5	10	50	33	3	0	
PUDDLED UNIT	1	6	1.2	0.10	8	0	20	30	40	10	0	0	
RAPID/BOULDERS	11	177	2.5	0.10	436	2	0	6	52	38	2	2	
RIFFLE	11	228	2.6	0.09	618	2	0	6	55	38	1	0	
STEP/COBBLE	3	9	5.2	0.07	59	0	0	0	50	50	0	0	
STEP/STRUCTURE	3	1	0.5	0.09	1	2	0	8	43	38	10	0	
Total:	48	644	2.7	0.22	1,595	6	Avg	3	10	48	36	2	2

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		132
					(m ²)	Percent	Number	(# / 100m ²)	
Dammed & BW Pools	2	7	2.6	0.30	17	1.05%	0	0.0	
Scour Pools	14	117	3.5	0.50	398	24.93%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	11	228	2.6	0.09	618	38.72%	2	0.3	
Rapids	11	177	2.5	0.10	436	27.33%	2	0.5	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	6	10	2.9	0.08	59	3.72%	2	3.4	
Dry	2	39	1.2	0.05	43	2.71%	0	0.0	
Culverts	2	65	0.4	0.06	25	1.54%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	16	24.9
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	2	3.1
Pool frequency (channel widths/pool):	6.1	
Residual pool depth (avg):	0.42	

STREAM SUMMARY

PAGE CREEK PRE-TX (L-194)

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	
48	644	2.7	0.22	1,595	3	10	48	36	2	2	6

Habitat Group	Wetted Area	
	(m ²)	Percent
Dammed & BW Pools	17	1.05%
Scour Pools	398	24.93%
Glides	0	0.00%
Riffles	618	38.72%
Rapids	436	27.33%
Cascades	0	0.00%
Step/Falls	59	3.72%
Dry	43	2.71%
Culverts	25	1.54%

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

Summary of Riparian Zone (0-30m) 3 transects

Total hardwoods/1000	1808
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	20
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	9.3	0.0	6.0	0.0	4.7	0.3	20.0
15-30cm	0.0	3.0	0.0	1.3	0.3	2.0	0.3	6.3
30-50cm	0.0	0.7	0.0	1.3	0.7	1.0	0.7	3.0
50-90cm	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	13.0	0.0	9.0	1.0	7.7	0.6	9.9

Canopy closure and ground cover

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Canopy closure	90	90	90
Shrub cover	20	29	38
Grass/forb cover	80	71	62

Predominant landform in each zone

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Hillslope	17	67	100
High terrace	33	33	0
Low terrace	50	0	0
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	12	43	53

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	1808
Total conifers/1000 ft	102
Total conifers >20" dbh/1000 ft	20
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

<u>Diameter class (cm)</u>	<u>Zones 1-3</u>	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.3	20.0
15-30cm	0.3	6.3
30-50cm	0.7	3.0
50-90cm	0.3	0.3
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

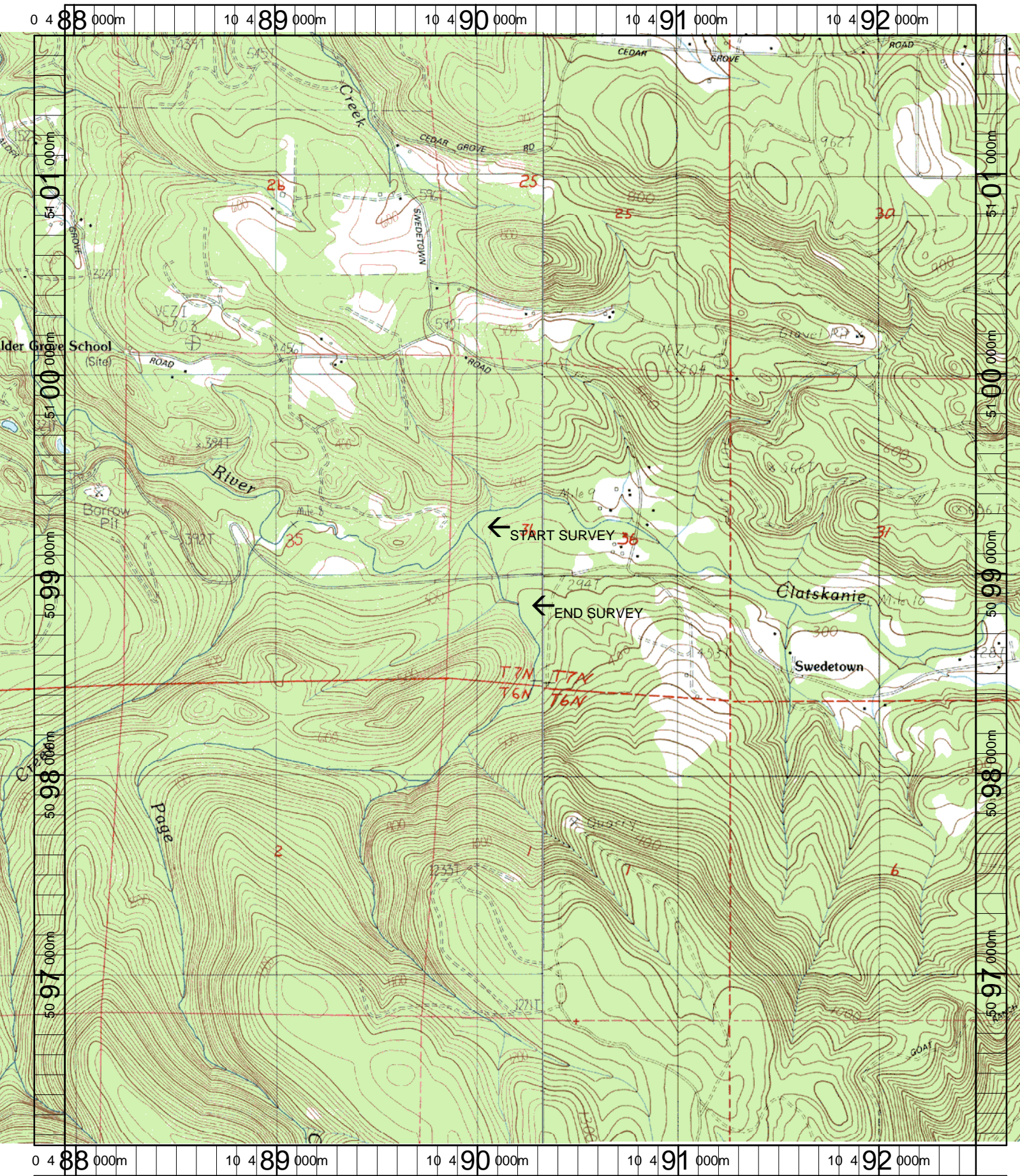
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
6	RT	2	HT	0	90	35	65	Conifer							
								Hardwood	3		1	1			
6	LF	2	HS	50	90	30	70	Conifer							
								Hardwood	3	2	2				
6	LF	3	HS	50	90	50	50	Conifer							
								Hardwood	1	2	2				
6	RT	1	HS	0	90	20	80	Conifer							
								Hardwood	4	3					
6	LF	1	LT	0	90	20	80	Conifer						10T 0490011	
								Hardwood	7	1				5099171	
6	RT	3	HS	60	90	50	50	Conifer						N194R1	
								Hardwood	1	2	1				
22	LF	1	HT	0	90	20	80	Conifer						10T 0490078	
								Hardwood	7					5099049 VINE	
22	LF	2	HS	50	90	15	85	Conifer						MAPI F	
								Hardwood	3					50-90 BIG	
22	LF	3	HS	50	90	25	75	Conifer				1		LEAF MAPLE3	
								Hardwood	2	1					
22	RT	1	LT	70	90	25	75	Conifer							
								Hardwood	3	3	1				
22	RT	2	HS	75	90	30	70	Conifer							
								Hardwood	6	1					
22	RT	3	HS	75	90	30	70	Conifer							
								Hardwood	3	1					
36	LF	3	HS	30	90	40	60	Conifer			1	1			
								Hardwood	3						
36	RT	1	LT	0	90	10	90	Conifer							
								Hardwood	7	1					
36	RT	3	HS	50	90	35	65	Conifer							
								Hardwood	4						
36	LF	1	HT	0	90	25	75	Conifer	1				1	10T 0490096	
								Hardwood		1	1			5098981	
36	LF	2	HT	30	90	30	70	Conifer							
								Hardwood		1	1				
36	RT	2	HS	50	90	35	65	Conifer							
								Hardwood	3						

Comment Summary

Oregon Plan Monitoring Sites 2003

MONITORING AREA: 7-L SITE ID: 194 PAGE CREEK PRE-TX (L-194)

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	25		INFLUENCED BY CLATSK	10T 0489958 5099197 (N1942)
3	SC	00	33.2		H=1.0M	
7	RI	00	111		RIP T	
10	SC	01	127		H=.40 M	
17	LP	01	176.4		COHO FRY	
20	LP	00	202.9		COHO FRY	
22	LP	00	234.1		RIP. T.	10T 0490078 5099049
28	SS	00	313.05		H=.30M	
29	PP	01	317.05			CONCRETE BASIN
30	SS	01	317.55	PA	H=.80M	
31	CC	01	350.25	PA, CC	ROUND, CONCRETE 2.20	
33	SS	02	350.25	PA	H=.50M	
34	CC	02	350.25	PA, CC	ROUND, STEEL 0.90M	
36	RB	00	369.35		RIP T	
40	SC	00	417.15		H=.40M	
47	RI	00	483.15	/SS		
48	RI	00	512.15			TROUT FRY @ END OF SUR



<p>Name: CLATSKANIE Date: 12/17/2003 Scale: 1 inch equals 2000 feet</p>	<p>Location: 10 490213 E 5098924 N Caption: PAGE CREEK RESTORATION SITE - CLATSKANIE BASIN</p>
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