

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

STREAM: Cruiser Creek (N-272)
BASIN: Trask River
SURVEY TYPE: Pre-Tx
DATE: June 28, 2005
SURVEY CREW: Ben Walczak, Scott Young
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 8.9 km²
USGS MAPS: Gobblers Knob
ECOREGION: Coast Range Volcanic

GENERAL DESCRIPTION:

The Cruiser Creek habitat survey extended 1,905 meters. The channel was constrained by hillslopes in a steep V-shaped valley. The average valley width index was 1.5 (range: 1.1-2.2). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 3.5 percent. Rapids (72%) dominated stream habitat. Cobble (35%) and gravel (28%) dominated stream substrate. Wood volume was low at 16.1 m³/100m.

COMMENTS:

There was one potential barrier to upstream fish migration in the surveyed length. This was a 0.9 m high step over log at unit 35 (887 m).

REACH 1

T02S-R06W-S05SW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	100%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	1.5	VWI Range:	1.1 - 2.2

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 Channel	1,905	8,989	0
Secondary Channel	74	223	0
Off-Channel Units	22	27	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<i>n = 5</i>	<u>First Terrace</u>	<i>n = 0</i>
Width: 4.8	Width: 7.3	11.3	(8 - 19.8)	(-)	
Depth: 0.38	Height: 0.6	1.2	(1.1 - 1.3)	(-)	

W:D ratio: 12.2 Entrenchment (ACW:FPW ratio): 1.5
 Stream Flow Type: MF Habitat Units/100m (total channel length): 3.8
 Average Unit Gradient: 3.5% Habitat Units/100m (primary channel length): 4.0
 Water temperature (°C): -

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	1%	Reach avg: 92%
Undercut Banks:	1%	Range: 78 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	303	15.9
Volume (m ³):	307	16.1
Key pieces (>=12m x 0.60m):	4	0.2

HABITAT INVENTORY

Report Date: 4/26/2006

Survey Date:

6/28/2005

REACH 1		T02S-R06W-S05SW					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/BEDROCK	2	21	3.6	0.20	75	0	0	5	3	5	0	87
CASCADE/BOULDERS	1	10	1.8	0.15	18	0	0	22	33	44	0	0
POOL-LATERAL SCOUR	18	254	4.7	0.69	1,186	15	5	34	23	26	2	9
POOL-PLUNGE	5	37	4.8	0.71	135	3	4	33	19	33	3	8
RAPID/BEDROCK	1	44	4.0	0.25	175	17	0	10	15	20	15	40
RAPID/BOULDERS	36	1,405	4.5	0.25	6,496	611	0	12	27	43	16	2
RIFFLE	8	213	4.1	0.21	935	4	1	14	44	39	1	0
STEP/COBBLE	2	11	14.0	0.13	172	1	0	8	50	40	3	0
STEP/LOG	3	6	6.8	0.27	48	0	2	34	50	15	0	0
Total:	76	2,001	4.8	0.38	9,239	651	Avg: 2	19	28	35	9	7

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	0	0			0	0.00%	0	0.0	
Scour Pools	23	291	4.7	0.69	1,321	14.30%	18	1.4	
Glides	0	0			0	0.00%	0	0.0	
Riffles	8	213	4.1	0.21	935	10.12%	4	0.4	
Rapids	37	1,449	4.5	0.25	6,671	72.21%	628	9.4	
Cascades	3	31	3.0	0.18	93	1.01%	0	0.0	
Step/Falls	5	17	9.7	0.21	219	2.38%	1	0.5	
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
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	23	11.5	12.1
Pools >=1m deep:	2	1.0	1.0
Complex pools (LWD pieces>=3):	13	6.5	6.8
Pool frequency (channel widths/pool):	12.0		
Residual pool depth (avg):	0.55		

OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY

CRUISER CREEK PRE-TX
GCG: 1-NC SITE ID: 272

Survey Date 6/28/2005
Report Date: 4/26/2006

RIPARIAN ZONE
VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000	325
Total conifers/1000 ft	61
Total conifers >20" dbh/1000 ft	0
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	0.0	0.3	0.3	0.3	0.0	0.7	0.3	1.3
15-30cm	0.0	1.7	0.3	0.3	0.3	1.0	0.7	3.0
30-50cm	0.0	0.7	0.0	0.0	0.0	0.3	0.0	1.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	2.7	0.7	0.7	0.3	2.0	0.3	1.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	79		78		75	
Shrub cover	17		17		16	
Grass/forb cover	80		83		84	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	67		67		83	
High terrace	0		0		0	
Low terrace	17		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	17		17		17	
Riprap	0		0		0	
Surface slope (%)	66		63		82	

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	325
Total conifers/1000 ft	61
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.3	1.3
15-30cm	0.7	3.0
30-50cm	0.0	1.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

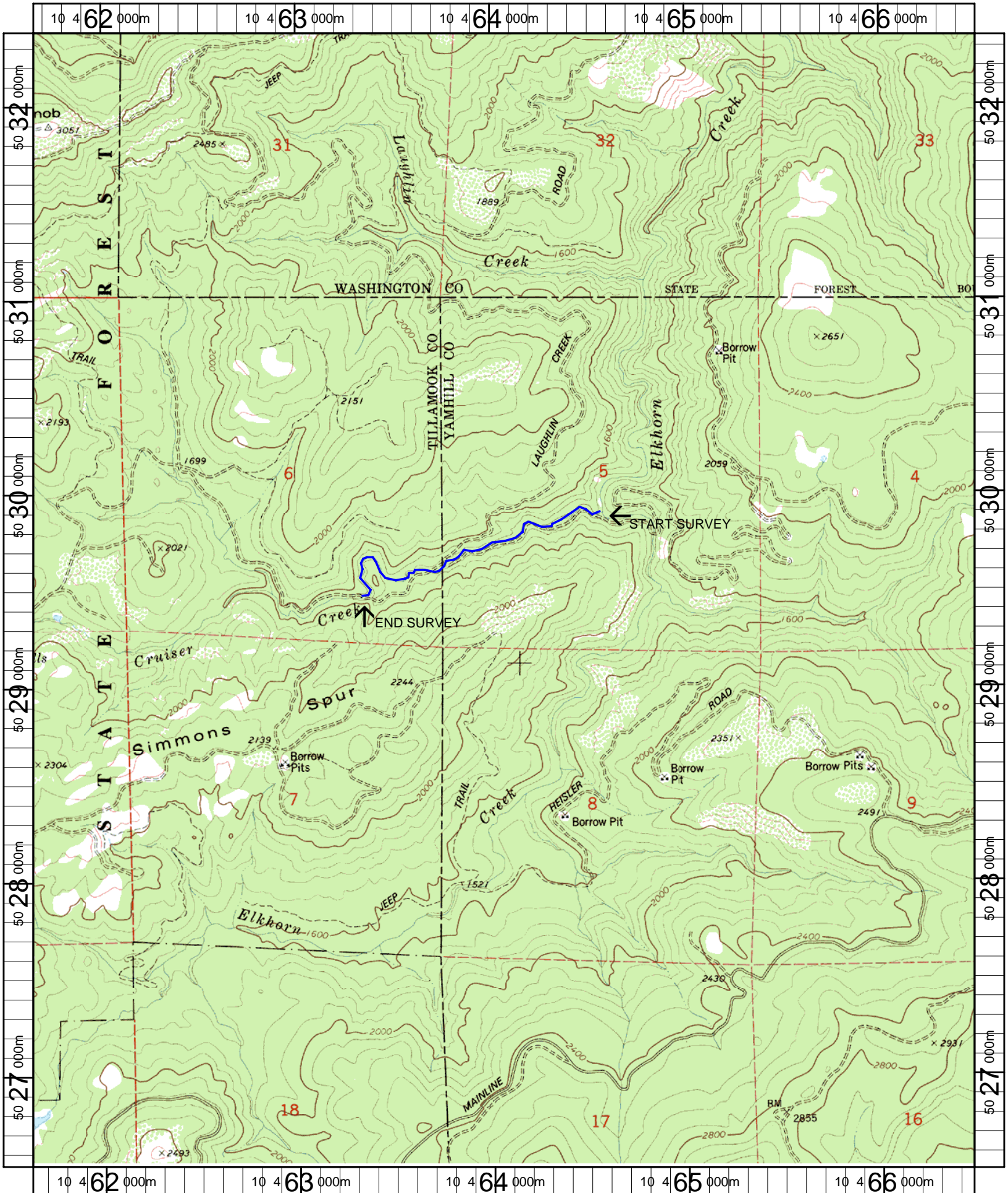
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
17	RT	1	HS	140	85	5	75	Conifer							
								Hardwood		2					
17	RT	3	HS	90	75	10	90	Conifer							
								Hardwood	2						
17	LF	1	LT	0	85	35	65	Conifer							3D
								Hardwood			1				0464327/50298
17	LF	2	LT	0	85	50	50	Conifer							64
								Hardwood		1					
17	LF	3	RB	0	85	45	55	Conifer							
								Hardwood			1	1			
17	RT	2	HS	100	85	10	90	Conifer							
								Hardwood							
25	LF	1	RB	0	85	5	95	Conifer							POOR GPS
								Hardwood			1				COVERAGE
25	LF	2	HS	100	80	5	95	Conifer	1						
								Hardwood							
25	LF	3	HS	100	75	5	95	Conifer			1				
								Hardwood							
25	RT	1	HS	90	70	5	95	Conifer							
								Hardwood	1	2					
25	RT	2	HS	110	70	5	95	Conifer							
								Hardwood	1						
25	RT	3	HS	110	55	5	95	Conifer							
								Hardwood							
38	RT	1	HS	85	80	30	70	Conifer							
								Hardwood							
38	LF	1	HS	80	70	20	80	Conifer							
								Hardwood			1				
38	LF	3	HS	120	80	10	90	Conifer							
								Hardwood		2					
38	RT	2	HS	70	80	20	80	Conifer			1				
								Hardwood							
38	RT	3	HS	70	80	20	80	Conifer							
								Hardwood							
38	LF	2	RB	0	70	10	90	Conifer							
								Hardwood							

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: 1-NC SITE ID: 272 CRUISER CREEK PRE-TX

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	LP	00	12.3		START AT CONFLUENCE	
10	SC	00	229		H=0.5M	
14	SL	01	254.3		H=0.8M	
17	RB	00	297.5		RIPARIAN 1	
25	RB	01	601.9	/TJ	RIPARIAN 2	
26	CB	11	601.9			TRIB UNIT
28	RB	00	682.8	SS/		CULVERT DRAINING FROM
31	RB	00	782.8	SS/		
35	SL	00	887.4	PN	H=0.9M	
38	LP	00	973.3	SS/	RIPARIAN 3	RIPARIAN 3
41	PP	00	1072.2	DJ		FROM OLD BRIDGE
42	SL	00	1076.8		H=0.9M	
46	RI	00	1205.8	BC		
47	LP	01	1217.1	DJ		
48	PP	02	1217.1			COHO PRESENT
52	SC	00	1289.8		H=0.3M	
54	RB	02	1307.4	DJ		
57	RB	01	1419.3	TJ/		
58	RB	11	1419.3		ACW 1.1M	TRIB UNIT
62	RB	00	1609.9	/SS		
76	RB	00	1905.2	BC		END SURVEY



Name: GOBBLERS KNOB
 Date: 5/1/2006
 Scale: 1 inch equals 2000 feet

Location: 10 464059 E 5029447 N
 Caption: CRUISER CREEK RESTORATION SITE - TRASK BASIN