

**ODFW AQUATIC INVENTORY PROJECT  
RESTORATION MONITORING  
STREAM HABITAT REPORT**

STREAM: CRUISER CREEK REACH 2  
 GCG: 1-NC  
 SITE ID: 388  
 BASIN: TRASK  
 TREATMENT DATE: 2008  
 SURVEY DATE: 4/15/2009  
 SURVEY CREW: Ryan Jacobsen / Miles Johnson  
 USGS MAPS: GOBBLERS KNOB  
 ECOREGION: Volcanics  
 REPORT PREPARED BY: Matt Strickland / Sharon Tippery / Charles Stein

REACH: 1 LOCATION: T02S-R06W-S06SW

**SURVEY DESCRIPTION:**

Channel morphology: Constrained by hillslopes  
 Dominant landuse(s): Second growth timber (15-30 cm dbh)  
 Dominant riparian vegetation: Deciduous trees: size class 30-50cm dbh  
 Primary channel length (meters) and area (m<sup>2</sup>): 867 : 5,214  
 Secondary channel length (meters) and area (m<sup>2</sup>) 100 : 560  
 VWI average: 2.0 VWI Range: 1.5 - 2.5 Average Gradient: 3.3%  
 Pieces LWD per 100m: 48.5 Wood Volume (m<sup>3</sup>) per 100m: 64.0  
 Percent pools: 20% Complex pools (LWD pieces>=3): 10 Pools >=1m deep:0  
 Percent substrate (avg):

	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	4	21	32	15	10	18
Pool units	6	29	26	11	9	18
Fast water units	0	14	33	16	12	24

**SURVEY COMMENTS:**

Cruiser Creek Reach 2 is a post-treatment, restoration site. The crew noted observing beaver tracks. There were no potential barriers to upstream fish migration observed within the survey reach.

Survey Date: 4/15/2009

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T02S-R06W-S06SW

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**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	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.0	VWI Range:	1.5 - 2.5

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	867	5,214	0
Secondary	100	560	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 0
Width: 5.9	Width: 7.1	8.7 ( 8 - 11 )	( - )
Depth: 0.33	Height: 0.5	0.9 ( 0.8 - 1 )	( - )

W:D ratio: 15.4

Stream Flow Type: MF

Average Unit Gradient: 3.3%

Water temperature (°C): 6.0 - 6.0

Entrenchment (ACW:FPW ratio): 1.2

Habitat Units/100m (total channel length): 4.4

Habitat Units/100m (primary channel length): 5.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D30	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):	420	48.5
Volume (m <sup>3</sup> ):	555	64.0
Key pieces (>=12m x 0.60m):	21	2.4

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**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/BEDROCK	2	23	4.8	0.13	113	0	0	3	8	8	8	73
CASCADE/BOULDERS	3	24	2.0	0.08	46	0	0	13	32	28	27	0
POOL-BACKWATER	2	11	3.0	0.30	39	0	33	34	19	5	10	0
POOL-DAMMED	4	52	8.3	0.60	422	0	12	41	29	6	11	0
POOL-LATERAL SCOUR	9	105	6.0	0.57	658	0	4	25	25	13	8	24
POOL-PLUNGE	1	8	6.0	0.50	48	0	0	20	20	10	10	40
RAPID/BEDROCK	5	188	5.1	0.24	985	0	0	10	21	8	11	50
RAPID/BOULDERS	9	404	5.7	0.27	2,323	0	1	18	37	21	13	10
RIFFLE	3	145	7.3	0.25	1,080	0	0	20	58	9	0	13
STEP/LOG	5	7	7.9	0.11	60	0	1	20	52	21	7	0
<b>Total:</b>	<b>43</b>	<b>966</b>	<b>5.9</b>	<b>0.33</b>	<b>5,774</b>	<b>0</b>	<b>Avg: 4</b>	<b>21</b>	<b>32</b>	<b>15</b>	<b>10</b>	<b>18</b>

**HABITAT SUMMARY**

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	6	63	6.5	0.50	461	7.98%	0	0.0
Scour Pools	10	113	6.0	0.56	706	12.23%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	3	145	7.3	0.25	1,080	18.70%	0	0.0
Rapids	14	592	5.5	0.26	3,308	57.29%	0	0.0
Cascades	5	47	3.1	0.10	159	2.75%	0	0.0
Step/Falls	5	7	7.9	0.11	60	1.04%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

CRUISER CREEK REACH 2  
GCG: 1-NC SITE ID: 388

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**POOL SUMMARY**

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	16	16.6	18.5
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	10	10.3	11.5
Pool frequency (channel widths/pool):	8.6		
Residual pool depth (avg):	0.37		

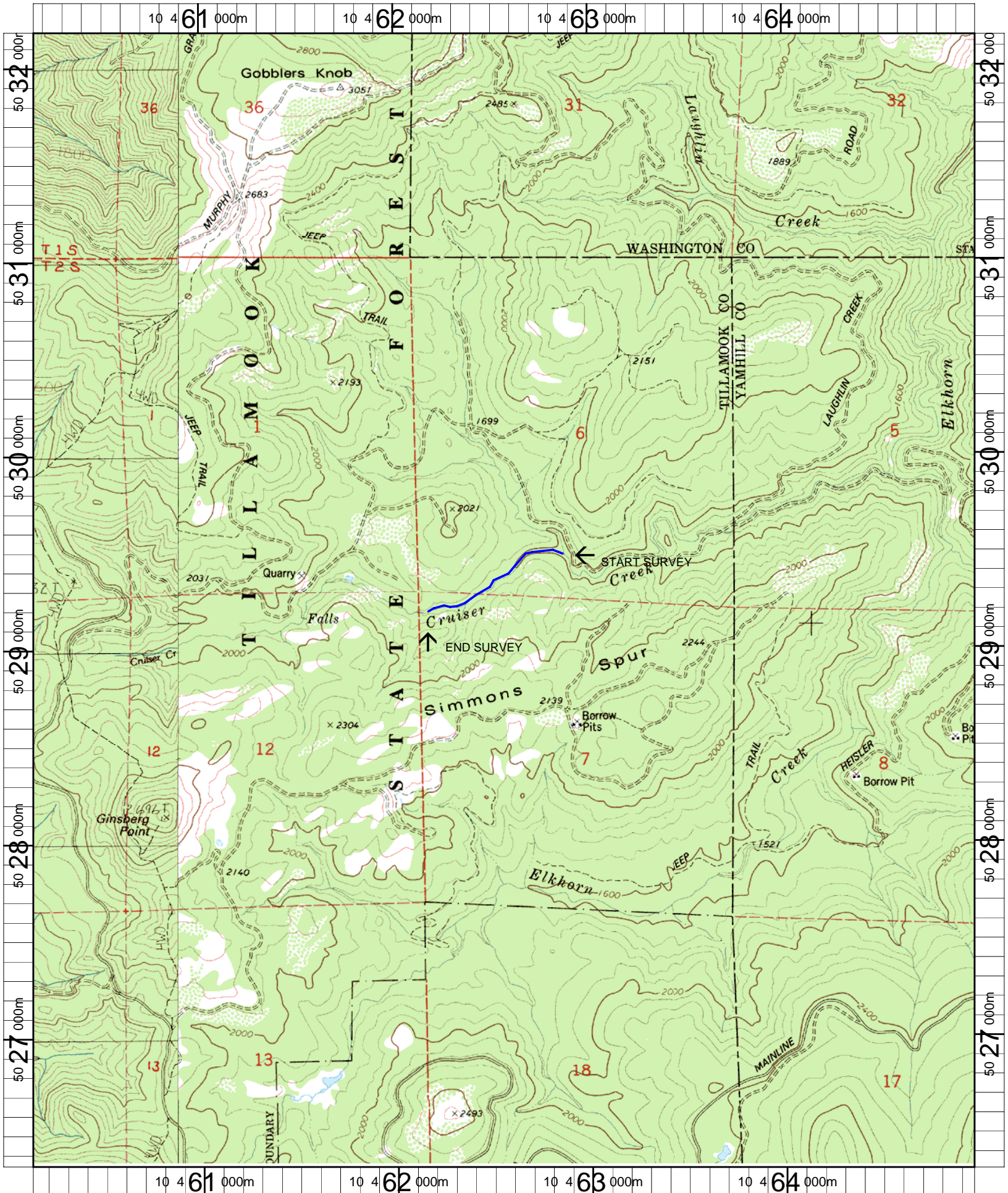
OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

OREGON PLAN MONITORING SITE  
SURVEY DATE: 4/15/2009

COMMENT SUMMARY

MONITORING AREA: 1-NC SITE ID: 388 STREAM: CRUISER CREEK REACH 2

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	RB	01	42	/TJ	
1	2	RI	11	42		ACW=9M, T=6C
1	14	RI	00	310.8	/SS	
1	15	RB	00	355.8	/SS	
1	17	DP	00	372.8	BV	TRACKS
1	23	LP	00	506.3	SS/	
1	24	LP	00	528.3	SS/	
1	25	RB	01	578.3	/SS,TJ/	
1	27	CR	11	578.3		ACW=3.8M, T=5.5C
1	28	RI	00	618.3	/SS	
1	31	RR	01	691.3	TJ/	
1	32	CB	11	691.3		ACW=2.3M, T=6C
1	35	RR	01	781.3	/TJ	
1	36	CB	11	781.3		ACW=4M, T=6C
1	37	RB	01	803.3	/TJ	T=6C
1	38	CB	12	803.3		ACW=3.5M, SAME TRIB AS UNIT 36



Name: GOBBLERS KNOB  
 Date: 12/18/2007  
 Scale: 1 inch equals 2000 feet

Location: 10 0462557 E 5029250 N NAD 27  
 Caption: CRUISER CREEK REACH 2 RESTORATION SURVEY - TRASK BASIN

## Cruiser Creek Reach 2 (NC-388) 2009 Winter Habitat Survey Photographs



Unit 31 - Upstream view of stream habitat and riparian.



Unit 31 - Downstream view of wind-blown alders.



Unit 33 - Downstream view of wind-blown alders and debris jam.



Unit 37 - Upstream view towards the end of the survey. Bedrock step in background.



Unit 38 - Tributary confluence.



Unit 43 - Step over bedrock. End of Cruiser Creek Reach 2 survey.