

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

STREAM: Hall Creek (MS-359)
BASIN: Coquille River
SURVEY TYPE: Post-Tx
DATE: March 3, 2008
SURVEY CREW: Kyle Brachter, Bobby Gomez
REPORT PREPARED BY: Sharon Tippery
BASIN AREA: 23.8 km²
USGS MAPS: Myrtle Point
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Hall Creek habitat survey extended 1,049 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 20 (range: 20-20). Land use for the reach was light grazing and second growth timber (15-30cm dbh). The average unit gradient was 0.8 percent. Scour pools (65%) and riffles (32%) dominated stream habitat. Sand (79%) and silt/organics (17%) dominated stream substrate. Wood volume was 5.6m³/100m.

COMMENTS:

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

The crew noted several habitat structures consisting of large wood and boulders during the survey.

A screened 1.25 inch diameter intake hose was noted 171m into the survey.

Beaver activity, raccoons, deer tracks, and California quail were observed during the survey.

**OREGON DEPARTMENT OF FISH AND WILDLIFE
HABITAT INVENTORY**

**HALL CREEK
GCG: 3-MS SITE ID: 359**

Survey Date: 3/3/2008

Report Date: 5/8/2008

T29S-R13W-S11NE

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	20.0	VWI Range:	20 - 20

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	1,049	4,512	0
Secondary	36	66	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 4.3	Width: 4.6	5.7 (4.2 - 8.3)	8.7 (7.3 - 10)
Depth: 0.83	Height: 0.7	1.4 (1.3 - 1.5)	1.9 (1.75 - 2.1)

W:D ratio: 6.6
 Stream Flow Type: MF
 Average Unit Gradient: 0.8%
 Water temperature (°C): 8.0 - 8.0
 Entrenchment (ACW:FPW ratio): 1.3
 Habitat Units/100m (total channel length): 4.6
 Habitat Units/100m (primary channel length): 4.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LG	ST
Riparian Vegetation:	G	C1

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):	80	7.6
Volume (m ³):	59	5.6
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPARTMENT OF FISH AND WILDLIFE

HALL CREEK

HABITAT INVENTORY

GCG: 3-MS

SITE ID: 359

Survey Date: 3/3/2008

Report Date: 5/8/2008

T29S-R13W-S11NE

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
DRY UNIT	1	13	3.5	0.00	45	0	26	74	0	0	0	0
POOL-ISOLATED	1	4	1.8	0.60	7	0	45	55	0	0	0	0
POOL-LATERAL SCOUR	25	527	5.3	1.18	2,760	0	13	81	1	0	4	0
POOL-STRAIGHT SCOUR	2	43	5.3	1.05	253	0	10	88	0	0	3	0
RAPID/BOULDERS	1	5	0.8	0.10	4	0	100	0	0	0	0	0
RIFFLE	20	493	3.3	0.46	1,509	0	17	81	0	0	2	0
Total:	50	1,084	4.3	0.83	4,578	0	Avg: 17	79	1	0	3	0

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	1	4	1.8	0.60	7	0.16%	0	0.0
Scour Pools	27	570	5.3	1.17	3,013	65.81%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	20	493	3.3	0.46	1,509	32.96%	0	0.0
Rapids	1	5	0.8	0.10	4	0.09%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	0	0			0	0.00%	0	0.0
Dry	1	13	3.5	0.00	45	0.98%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	28	25.8	26.7
Pools >=1m deep:	19	17.5	18.1
Complex pools (LWD pieces>=3):	8	7.4	7.6
Pool frequency (channel widths/pool):	8.5		
Residual pool depth (avg):	0.76		

COMMENT SUMMARY

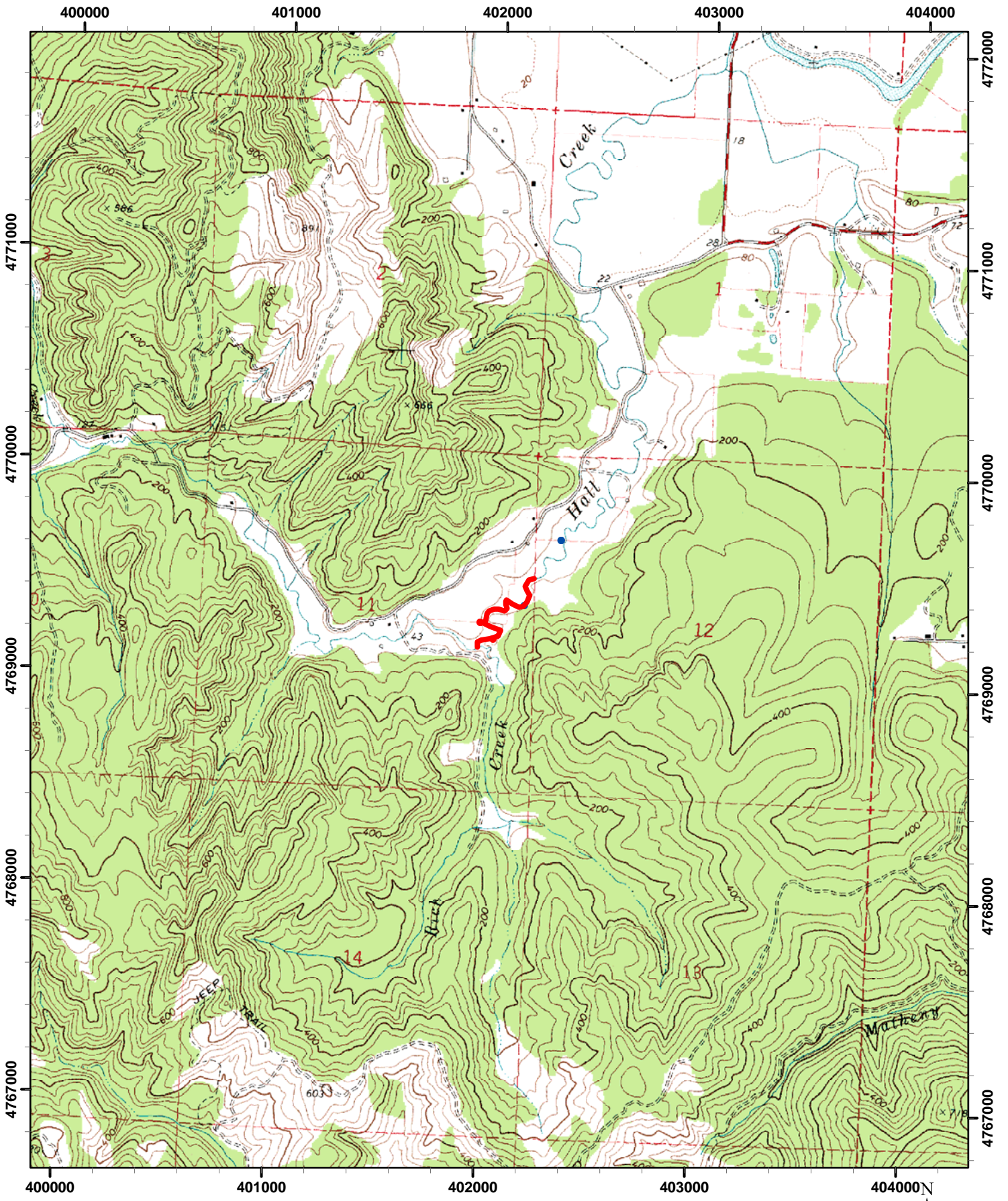
MONITORING AREA: 3-MS SITE ID: 359 STREAM: HALL CREEK

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	50		FORM:CT,CT. VEG:G,C1. USE:LG,YT.
3	LP	00	80	HS	LARGE WOOD AND BOULDERS
4	RI	00	130	HS	BOULDERS
5	LP	00	147	HS	LARGE WOOD AND BOULDERS
6	RI	00	161.5	HS	BOULDERS
7	LP	00	171.5	SD	INTAKE HOSE, 1.25" DIAMETER
8	LP	00	193.5	/SS	
10	LP	00	214.5	HS	BOULDER
11	RI	00	237.5	HS	BOULDER
12	LP	00	248.5	HS	BOULDER
13	RI	00	287.5	BC	FORM:CT,CT. VEG:G,C1. USE:LG,ST.
15	SP	00	310.7	HS	BOULDER
17	LP	00	367.7	HS	LARGE WOOD
19	LP	00	414.2	BV	RACCOON, DEER TRACKS, RUFOUS HUMMINGBIRDS, AMERICAN ROBIN.
20	LP	00	434.2	SS,HS	BOULDERS AND LOGS
21	RI	01	484.2	HS,TJ/	BOULDERS
22	RB	11	484.2		ACW=1.1M TEMPERATURE=8C
23	LP	00	513.2	HS	BOULDERS
26	SP	00	581.2	HS	LARGE WOOD
27	RI	00	590.2		FORM:CT,CT. VEG:G,S. USE:LG,YT.
30	LP	00	655.7	HS,DJ	LARGE WOOD AND BOULDERS
31	RI	00	684.7	BC	

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 359 STREAM: HALL CREEK

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
32	LP	01	702.7	HS	LARGE WOOD AND BOULDERS
35	LP	00	730.7	HS	LARGE WOOD
36	LP	00	759.7	HS	BOULDERS, CALIFORNIA QUAIL
37	RI	00	809.7		FORM:CT,CT. VEG:G,C1. USE:LG,ST.
48	LP	01	989.8	HS	LARGE WOOD
51	LP	00	1048.6	HS	LARGE WOOD, FORM:CT,CT. VEG:M15,S. USE:LG,ST.



Mid-South Coast
Site Number: 359
Hall Creek
T29S R13W S11NE

0 0.5 1 Kilometers

 **Approximate location of survey reach**

