

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

STREAM: Myrtle Creek (MS-144)
BASIN: Coquille River
SURVEY TYPE: Post-Tx
DATE: March 3, 2008
SURVEY CREW: Kyle Brachter, Bobby Gomez
REPORT PREPARED BY: Sharon Tippery
BASIN AREA: 175.4 km²
USGS MAPS: Powers
ECOREGION: Coast Range Sedimentary

GENERAL DESCRIPTION:

The Myrtle Creek habitat survey extended 514 meters. The channel was alternately constrained by terrace and hillslope in a broad valley floor. The average valley width index was 2.7 (range: 1-5). Land use for the reach was timber harvest and rural residential area. The average unit gradient was 1.3 percent. Scour pools (41%) and riffles (40%) dominated stream habitat. Gravel (60%) dominated stream substrate. Wood volume was 6.5m³/100m.

COMMENTS:

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

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

Beaver activity, two adult steelhead, and redds were observed during the survey.

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

MYRTLE CREEK

GCG: 3-MS SITE ID: 144

Survey Date: 3/3/2008

Report Date: 5/8/2008

T30S-R11W-S09NE

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	2.7	VWI Range:	1 - 5

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	514	7,887	0
Secondary	55	278	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 3	<u>First Terrace</u> n = 2
Width: 12.2	Width: 19.8	22.5 (21.4 - 24.7)	32.5 (30 - 35)
Depth: 0.90	Height: 1.1	2.1 (1.9 - 2.4)	6.5 (6 - 7)

W:D ratio: 19.1

Stream Flow Type: MF

Average Unit Gradient: 1.3%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.1

Habitat Units/100m (total channel length): 2.3

Habitat Units/100m (primary channel length): 2.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	RR
Riparian Vegetation:	M30	M15

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):	22	4.3
Volume (m ³):	33	6.5
Key pieces (>=12m x 0.60m):	2	0.4

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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
POOL-BACKWATER	1	8	2.4	1.10	19	0	30	50	0	0	0	20
POOL-LATERAL SCOUR	3	197	14.3	1.90	3,389	0	0	12	59	16	12	2
RAPID/BOULDERS	2	100	14.3	0.60	1,425	0	0	5	61	10	25	0
RIFFLE	7	264	12.0	0.52	3,332	0	0	11	69	9	9	2
Total:	13	569	12.2	0.90	8,165	0	Avg: 2	13	60	10	11	3

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	8	2.4	1.10	19	0.24%	0	0.0
Scour Pools	3	197	14.3	1.90	3,389	41.51%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	7	264	12.0	0.52	3,332	40.80%	0	0.0
Rapids	2	100	14.3	0.60	1,425	17.45%	0	0.0
Cascades	0	0			0	0.00%	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

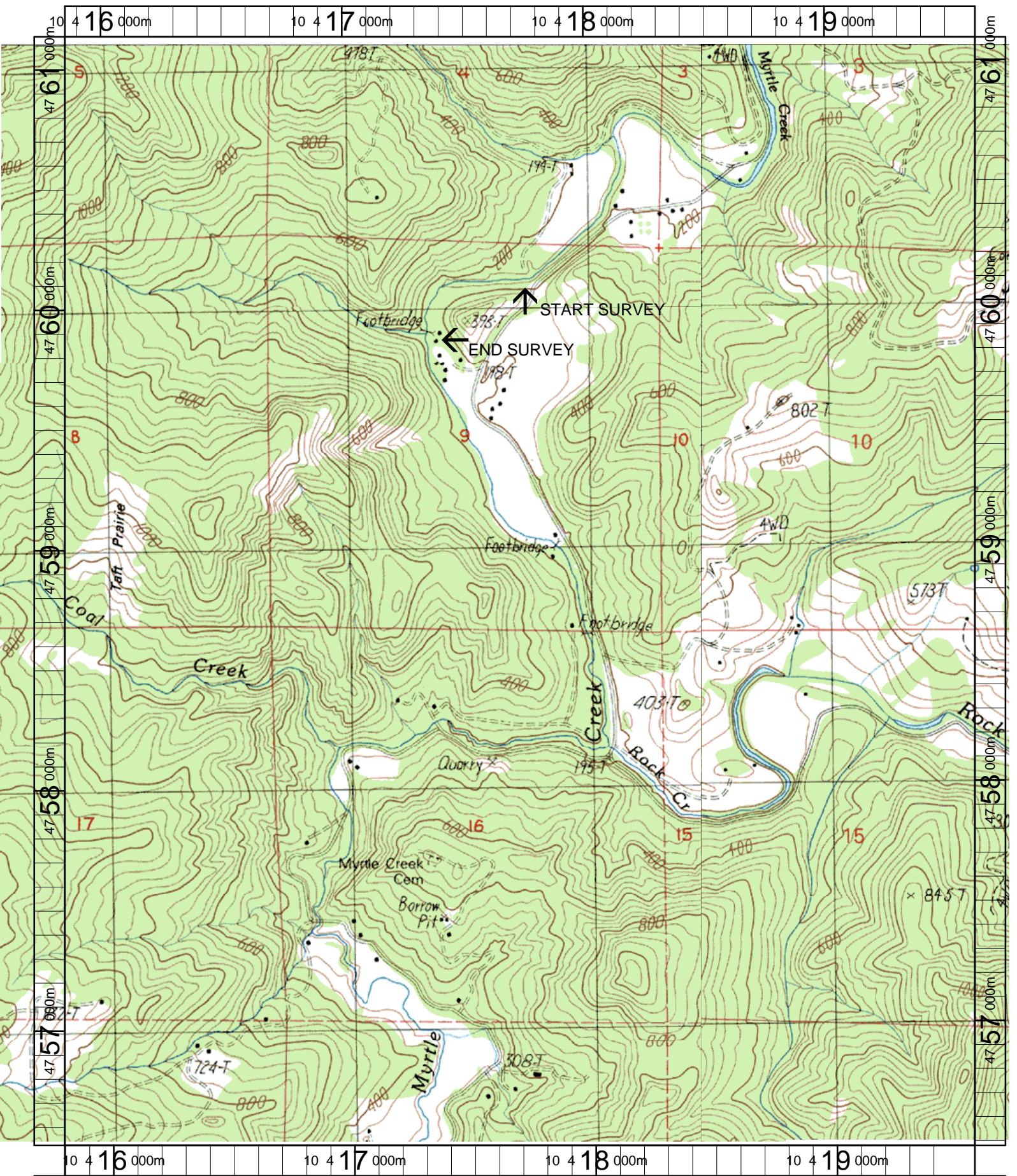
POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	Total	# / Km	# / Km
All Pools:	4	7.0	7.8
Pools >=1m deep:	3	5.3	5.8
Complex pools (LWD pieces>=3):	1	1.8	1.9
Pool frequency (channel widths/pool):	7.2		
Residual pool depth (avg):	1.50		

COMMENT SUMMARY

MONITORING AREA: 3-MS SITE ID: 144 STREAM: MYRTLE CREEK

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	50		FORM:CA,CT. VEG:M15,S. USE:LT,LG.
3	RI	00	150		FORM:CH,MV. VEG:M15,S. USE:LT,TH.
4	LP	00	214	LA,HS,DJ	LARGE WOOD AND BOULDERS
6	RB	01	314	HS,DJ	BOULDERS AND LARGE WOOD
9	RB	00	382	SS/	FORM:CA,CT. VEG:M15,S. USE:LT,ST
11	LP	01	514	BV	REDDS, ADULT STEELHEAD 2



Name: POWERS
 Date: 3/21/2003
 Scale: 1 inch equals 1666 feet

Location: 10 417706 E 4758813 N
 Caption: MYRTLE CREEK RESTORATION SITE - COQUILLE BASIN