ODFW AQUATIC INVENTORY PROJECT

OREGON PLAN FOR SALMON & WATERSHEDS

STREAM RESTORATION HABITAT REPORT

STREAM:	Oxbow Creek (MC53)
BASIN:	Siuslaw River
SURVEY TYPE:	Pre-Tx
DATE:	March 6, 2002
SURVEY CREW:	Loren Stucker, Russ Macal
REPORT PREPARED BY:	Paul Jacobsen
BASIN AREA:	9.6 km^2
USGS MAPS:	Gunter
ECOREGION:	Coast Range Sedimentary

GENERAL DESCRIPTION:

The Oxbow Creek habitat survey extended 521 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.6 (range: 4.5 – 8.5). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 1.9 percent. Riffles (66%) and scour pools (28%) dominated stream habitat. Bedrock (47%) and gravel (32%) dominated stream substrate. Wood volume was low at 7.0 m^3/100m.

COMMENTS:

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

OREGON DEPARTMENT OF FISH AND WILDLIFE **OXBOW CREEK PRE-TX (MC-53)**

HABITAT INVENTORY Report Date: 11/15/2013 Survey Date: 3/6/2002

REACH **T20S-R07W-S04SE** REACH

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%

Valley Width Index 5.6 VWI Range: 4.5 - 8.5

Channel Morphology (Percent Reach Length)

Constrained		Unconstrained	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	100%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

Type	Length (m)	Area (m2)	Dry Units
Primary	521	2,343	0
Secondary	53	183	2

Channel Dimensions (m)

Wetted		Active		Floodprone *n* = 5		First Terrace *n* = 5	
Width:	4.4	Width:	7.3	9.6	(7.5 - 13.2)	12.3	(9.5 - 16.8)
Depth:	0.34	Height:	0.4	0.8	(0.7 - 0.9)	1.6	(1.4 - 2)

W:D ratio: 18.6
Stream Flow Type: MF
Average Unit Gradient: 1.9%
Water temperature (°C): 7.5 - 7.5

Entrenchment (ACW:FPW ratio): 1.3
Habitat Units/100m (total channel length): 4.9
Habitat Units/100m (primary channel length): 5.4

Riparian, Bank, and Wood Summary

	Primary	Secondary
Land Use:	ST	
Riparian Vegetation:	D15	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	46	8.8
Volume (m^3):	36	6.9
Key pieces (>=12m x 0.60m):	1	0.2

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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
DRY UNIT	1	21	3.0	0.00	63	0		0	0	90	10	0	0
POOL-LATERAL SCOUR	12	141	4.7	0.57	699	0		0	9	20	5	9	57
PUDDLED UNIT	1	25	4.0	0.01	99	0		0	0	10	10	5	75
RIFFLE	14	386	4.2	0.20	1,665	0		0	6	39	14	2	39
Total:	28	573	4.4	0.34	2,526	0	**Avg:**	0	7	32	9	5	47

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m^2)	Wetted Area Percent	Large Boulders Number	Large Boulders (# / $100m^2$)
Dammed & BW Pools	0	0			0	0.00%	0	0.0
Scour Pools	12	141	4.7	0.57	699	27.68%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	14	386	4.2	0.20	1,665	65.90%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	0	0			0	0.00%	0	0.0
Dry	2	46	3.5	0.01	162	6.42%	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:	12	20.9	23.1
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	5	8.7	9.6
Pool frequency (channel widths/pool):	6.6		
Residual pool depth (avg):	0.40		

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **2-MC** **SITE ID:** **53** **OXBOW CREEK PRE-TX (MC-53)**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	RI	00	10.8		START OF SURVEY
2	LP	01	28.6		REDD @ TAIL, SPAWN GRAVEL~1M^2
3	RI	01	48.6		NEWER CHANNEL
11	LP	00	129.3		SG~2M^2
13	LP	00	152.4		SG~2M^2
21	RI	00	314.3	SS/	
28	RI	00	520.5		END SURVEY ~60M BEFORE /CE