

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

STREAM: Anderson Creek (MS-295)
BASIN: Coos River
SURVEY TYPE: Post-Tx
DATE: February 2, 2005
SURVEY CREW: Neil Jensen, Jennifer Schmitt
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 1.6 km²
USGS MAPS: Charleston
ECOREGION: Coastal Lowlands

GENERAL DESCRIPTION:

The Anderson Creek habitat survey extended 1,006 meters. The channel was unconstrained in a broad valley floor. The average valley width index was 22.9 (range: 2.8-99.0). Land use for the reach was Wetland and Conservation Area. The average unit gradient was 1.9 percent. Riffles (85%) and scour pools (14%) dominated stream habitat. Bedrock (42%) and silt (31%) dominated stream substrate. Wood volume was moderate at 24.6 m³/100m.

COMMENTS:

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

The crew noted several habitat structures during the survey.

REACH 1

T26S-R14W-S35SE

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	0%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	100%
Valley Width Index	22.9	VWI Range:	2.8 - 99

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	100%
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	1,006	1,346	0
Secondary Channel	0	0	0
Off-Channel Units	24	13	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 8	<u>First Terrace</u> n = 1
Width: 1.6	Width: 6.1	57.5 (10 - 150)	80.0 (80 - 80)
Depth: 0.26	Height: 0.5	1.0 (0.7 - 1.6)	1.0 (1 - 1)

W:D ratio: 13.8 Entrenchment (ACW:FPW ratio): 22.0
 Stream Flow Type: HF Habitat Units/100m (total channel length): 4.9
 Average Unit Gradient: 1.9% Habitat Units/100m (primary channel length): 5.0
 Water temperature (°C): 7.0 - 7.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	WL	CR
Riparian Vegetation:	G	

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):	225	22.4
Volume (m ³):	247	24.6
Key pieces (>=12m x 0.60m):	4	0.4

OREGON DEPT OF FISH AND WILDLIFE

ANDERSON CREEK POST-TX (3-MS, 295)

HABITAT INVENTORY

Report Date: 11/29/2005

Survey Date:

2/2/2005

REACH 1		T26S-R14W-S35SE					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	1	4	2.5	0.09	10	0	11	0	0	0	0	89
POOL-LATERAL SCOUR	11	77	2.3	0.45	171	0	50	22	4	0	0	24
POOL-PLUNGE	3	12	1.2	0.53	13	0	28	16	4	0	0	53
RIFFLE	28	923	1.3	0.21	1,151	0	29	27	5	0	0	39
RIFFLE W/ POCKETS	1	11	0.9	0.34	10	0	21	11	0	0	0	68
STEP/BEDROCK	1	0	0.9	0.03	0	0	0	10	0	0	0	90
STEP/LOG	5	2	1.8	0.02	4	0	12	18	3	0	0	67
Total:	50	1,030	1.6	0.26	1,359	0	Avg: 31	23	4	0	0	42

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	14	89	2.1	0.47	184	13.55%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	29	934	1.3	0.22	1,161	85.45%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	1	4	2.5	0.09	10	0.70%	0	0.0	
Step/Falls	6	2	1.7	0.03	4	0.31%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	<u>Total</u>	Total of all Channel Lengths	
		<u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	14	13.6	13.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	12.1		
Residual pool depth (avg):	0.31		

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **3-MS** SITE ID: **295** **ANDERSON CREEK POST-TX**

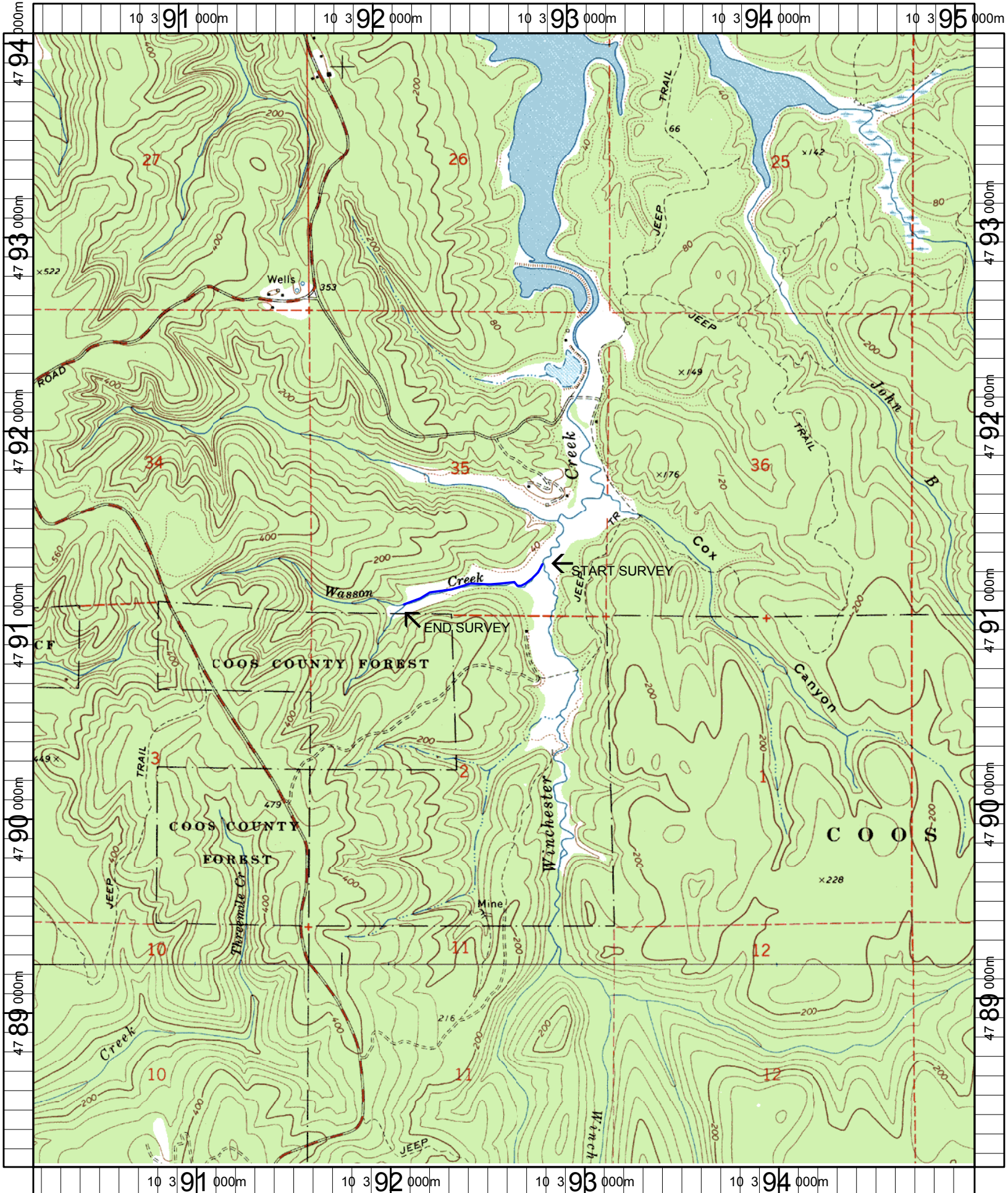
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
5	RI	00	71.4		BEDROCK=HARDPAN, PLACED WOOD	
6	LP	00	84.6	HS	BDRCK= HARDPAN	
7	RI	00	111.8	HS	BDRCK= HARDPAN	
8	PP	00	112.4		BDRCK= HARDPAN	
9	SL	00	112.92	HS	H = .14	
10	RI	00	130.62	HS		
11	LP	00	131.92	HS		
12	RI	00	164.52	HS		
13	LP	00	173.72	HS		
14	RI	00	182.72	HS		
15	LP	00	185.32	HS		
16	RI	00	213.42	HS		
18	RI	00	266.72	HS		
21	SL	00	290.67	HS	H = .09	
22	RI	00	337.27	DJ, HS		
24	RI	00	390.97	HS		
25	RI	00	441.07	HS		
26	RI	01	499.07	/TJ, HS		
27	RI	11	499.07		ACW = 4.9	
28	RI	00	522.27	HS		
30	SR	00	530.72	HS	H = .22	

Comment Summary

Restoration Monitoring Sites 2005

MONITORING AREA: **3-MS** SITE ID: **295** **ANDERSON CREEK POST-TX**

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
31	RI	00	580.82	HS		
32	RI	00	624.92	HS		
34	SL	00	631.92	HS	H = .25	
35	RI	00	667.12	HS		
36	SL	00	667.22		H = .1	
38	SL	00	692.02	HS	H = .18	
39	RI	00	705.72	HS		
40	LP	00	714.72	HS		
41	RI	00	764.82	HS		
42	RI	00	814.92	HS		
43	RI	00	865.02	HS		
44	RI	00	915.12	HS		
45	RI	00	965.22	HS		
46	RI	01	982.32	HS, TJ/		
47	RI	11	982.32	HS	TRIB, ACW = 2.7	
48	CR	00	986.12	HS		
49	RP	00	997.32	HS, DJ		
50	LP	00	1006.12	BV, WL, HS	ELK TRACKS	



Name: CHARLESTON
 Date: 1/6/2005
 Scale: 1 inch equals 2000 feet

Location: 10 392629 E 4791093 N
 Caption: ANDERSON CREEK RESTORATION SITE - COOS BASIN (QUAD CALLS STREAM WASSON CR)