

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

STREAM: Anderson Creek (MS-295)
BASIN: South Slough-Coos Bay
SURVEY TYPE: Post-Tx
DATE: September 9, 2005
SURVEY CREW: Pat Burns, Eric Himmelreich
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 1.6 km²
USGS MAPS: Charleston
ECOREGION: Coastal Lowlands

GENERAL DESCRIPTION:

The Anderson Creek habitat survey extended 903 meters. The channel was unconstrained in a broad wetland valley floor. The average valley width index was 51.3 (range: 18.0-75.0). Land use for the reach was wetland. The average unit gradient was 0.7 percent. Riffles (75%) dominated stream habitat. Silt (68%) and sand (29%) dominated stream substrate. Wood volume was low at 13.6 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	51.3	VWI Range:	18 - 75

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	903	835	0
Secondary Channel	0	0	0
Off-Channel Units	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 6	<u>First Terrace</u> n = 4
Width: 1.0	Width: 2.5	44.6 (1 - 95)	26.0 (1.2 - 50.5)
Depth: 0.21	Height: 0.4	0.7 (0.6 - 0.8)	1.1 (0.8 - 1.5)

W:D ratio: 6.7
 Stream Flow Type: MF
 Average Unit Gradient: 0.7%
 Water temperature (°C): 14.0 - 14.0

Entrenchment (ACW:FPW ratio): 23.5
 Habitat Units/100m (total channel length): 4.1
 Habitat Units/100m (primary channel length): 4.1

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	WL	
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: 44%
Undercut Banks:		Range: 31 - 83

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	210	23.3
Volume (m ³):	123	13.6
Key pieces (>=12m x 0.60m):	0	0.0

OREGON DEPT OF FISH AND WILDLIFE

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

HABITAT INVENTORY

Report Date: 4/26/2006

Survey Date:

9/6/2005

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
POOL-BEAVER DAM	3	75	1.7	0.35	144	0	90	10	0	0	0	0
POOL-LATERAL SCOUR	9	53	1.2	0.39	64	0	81	19	0	0	0	0
RIFFLE	17	601	0.8	0.14	489	0	63	33	0	0	0	4
RIFFLE W/ POCKETS	5	172	0.8	0.21	136	0	60	34	0	0	0	6
STEP/BEAVER DAM	3	2	0.9	0.01	2	0	50	50	0	0	0	0
Total:	37	903	1.0	0.21	835	0	Avg: 68	29	0	0	0	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	3	75	1.7	0.35	144	17.21%	0	0.0	
Scour Pools	9	53	1.2	0.39	64	7.70%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	22	773	0.8	0.15	625	74.90%	0	0.0	
Rapids	0	0			0	0.00%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	3	2	0.9	0.01	2	0.18%	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:	12	13.3	13.3
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	5	5.5	5.5
Pool frequency (channel widths/pool):	30.1		
Residual pool depth (avg):	0.33		

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

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

**Survey Date 9/6/2005
Report Date: 4/26/2006**

**RIPARIAN ZONE
VEGETATION SUMMARY**

REACH 1

Summary of Riparian Zone (0-30m) 4 transects

Total hardwoods/1000	30
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
	3-15cm	0.0	0.0	0.0	0.0	0.0	0.3	0.0
15-30cm	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
30-50cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2

Canopy closure and ground cover

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Canopy closure	0	1	8
Shrub cover	4	1	6
Grass/forb cover	96	99	93

Predominant landform in each zone

	Zone 1 0-10 meters (%)	Zone 2 10 - 20 meters (%)	Zone 3 20 - 30 meters (%)
Hillslope	0	13	13
High terrace	13	0	13
Low terrace	0	25	38
Floodplain	88	63	38
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	0	3	3

Summary of Riparian Zone (0-30m) for all reaches

4 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	30
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3	
	<u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	0.3
15-30cm	0.0	0.3
30-50cm	0.0	0.0
50-90cm	0.0	0.0
>90cm	0.0	0.0

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)			Diameter class (cm)					Notes		
					Canopy	Shrub	Grass	3-15	15-30	30-50	50-90	>90			
8	LF	1	FP	0	0	10	90	Conifer							392640, 4791188
								Hardwood							
8	RT	3	LT	0	40	30	60	Conifer							
								Hardwood	1	1					
8	RT	2	FP	0	0	0	100	Conifer							
								Hardwood							
8	RT	1	FP	0	0	0	100	Conifer							
								Hardwood							
8	LF	2	FP	0	0	0	100	Conifer							
								Hardwood							
8	LF	3	FP	0	0	0	100	Conifer							
								Hardwood							
13	RT	3	LT	0	0	0	100	Conifer							
								Hardwood							
13	LF	1	FP	0	0	5	95	Conifer							392475, 4791211
								Hardwood							
13	RT	1	FP	0	0	0	100	Conifer							
								Hardwood							
13	LF	3	FP	0	20	10	90	Conifer							
								Hardwood							
13	RT	2	LT	0	10	0	100	Conifer							2.4 M, 1 .25 M SNAGS
								Hardwood							
13	LF	2	FP	0	0	0	100	Conifer							
								Hardwood							
20	RT	3	FP	0	0	0	100	Conifer							
								Hardwood							
20	RT	2	FP	0	0	0	100	Conifer							
								Hardwood							
20	RT	1	FP	0	0	5	95	Conifer							
								Hardwood							
20	LF	3	HT	0	0	0	100	Conifer							
								Hardwood							
20	LF	2	LT	0	0	0	100	Conifer							
								Hardwood							
20	LF	1	FP	0	0	5	95	Conifer							392341, 4791171
								Hardwood							

33	LF	2	FP	0	0	0	100	Conifer
								Hardwood
33	RT	3	HS	20	0	10	90	Conifer
								Hardwood
33	RT	1	HT	0	0	5	95	Conifer
								Hardwood
33	LF	3	LT	0	0	0	100	Conifer
								Hardwood
33	LF	1	FP	0	0	0	100	Conifer
								Hardwood
33	RT	2	HS	20	0	10	90	Conifer
								Hardwood

392158,
4791107

Comment Summary

Restoration Monitoring Sites 2005

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

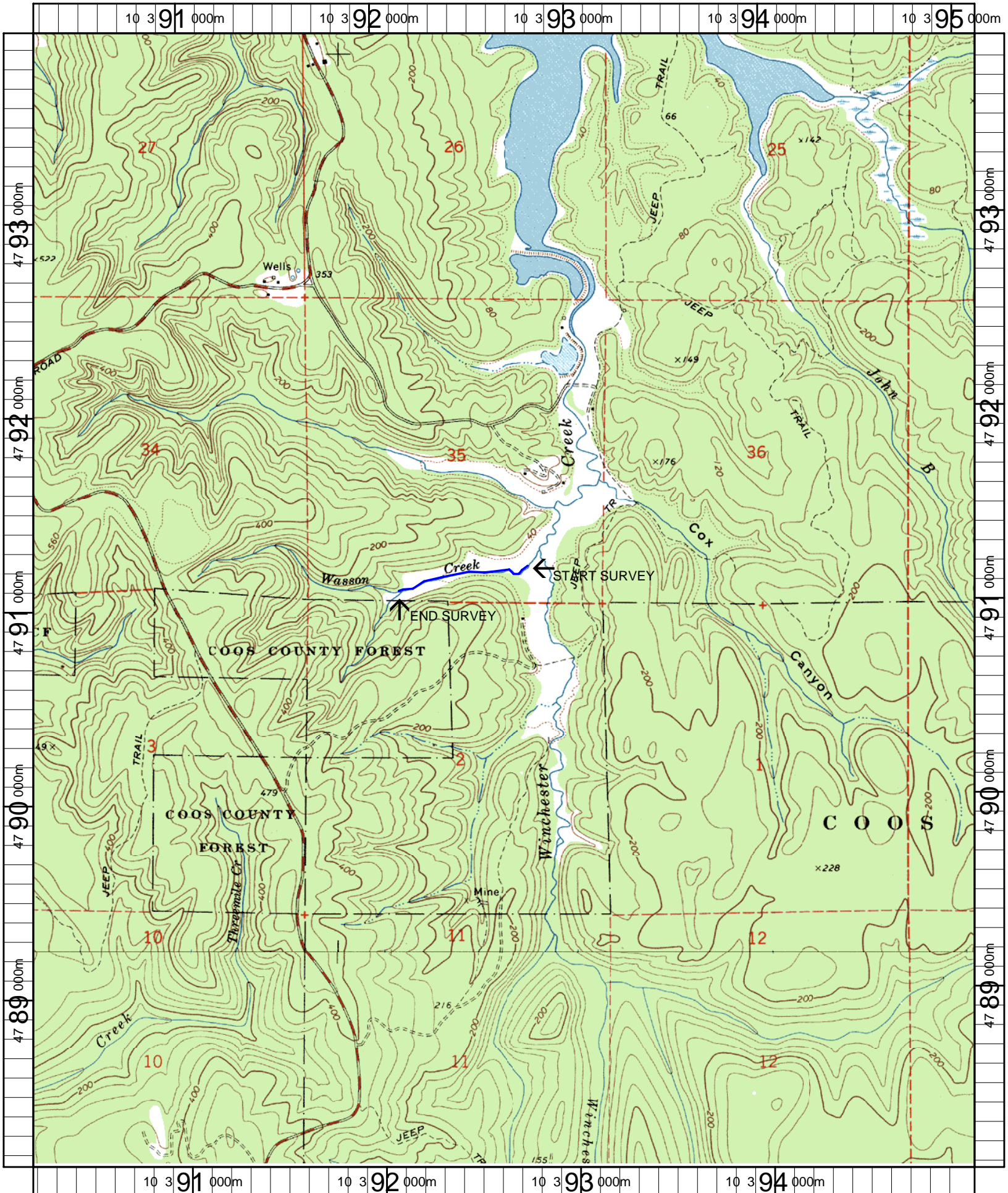
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	00	50	HS	SURVEY WAS MOVED UP	BEDROCK = HARDPAN
2	RI	00	100		BECAUSE IT WAS IN A TI	BEDROCK = HARDPAN
3	RI	00	107.7	HS	START 0392777, 4791241	BEDROCK = HARDPAN
4	LP	00	110.5	HS		
5	RP	00	155.5	HS		BEDROCK = HARDPAN
6	RP	00	186.8	HS		
7	RP	00	206.8	HS		BEDROCK = HARDPAN
9	RI	00	259.9	HS		BEDROCK = HARDPAN
10	RI	00	309.9	HS		BEDROCK = HARDPAN
11	RI	00	354.9	HS, /SS		
12	RP	00	399.9	HS	/SS	
13	RI	00	439.3	HS		
14	RI	00	484.3	HS		
15	RI	00	519.9	HS		
16	LP	00	525.4	HS		
17	RI	00	569.1	HS		
18	RI	00	589.4	HS		
19	LP	00	599.4	HS		
20	RI	00	627.5	HS		
21	RI	00	669.8	HS		
22	LP	00	674.4	HS		

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
23	RI	00	712.7	HS		BEDROCK = HARDPAN
24	LP	00	717.1	HS		
25	RI	00	740.5	HS		
26	LP	00	749.3	HS		
27	RI	00	778	HS		
28	LP	00	783.7	HS		
30	LP	00	794.7	HS		
31	RP	00	825.8	HS		
32	SD	00	826.3	BD	H = .25 M	
33	BP	00	852.3	BV		
34	SD	00	852.8	BD	H = .4 M	
35	BP	00	863.1	BV, HS		
36	SD	00	863.9	BD	H = .3 M	
37	BP	00	902.9	BV, HS	END 0392099, 4791066	



Name: CHARLESTON
 Date: 5/1/2006
 Scale: 1 inch equals 2000 feet

Location: 10 392648 E 4791028 N
 Caption: ANDERSON CREEK RESTORATION SITE - COOS BASIN (QUAD REFERS TO STREAM AS WASSON CR)