

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

STREAM: Gooseneck Creek (W-236)
BASIN: Yamhill River
SURVEY TYPE: Pre-Tx
DATE: August 2, 2004
SURVEY CREW: Erin Richmond, Jeff Snyder
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 28.1 km²
USGS MAPS: Sheridan
ECOREGION: Willamette Valley Foothills

GENERAL DESCRIPTION:

The Gooseneck Creek habitat survey extended 554 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 31.6 (range: 26.0-35.0). Land use for the reach was agriculture and large (30-50 cm dbh) trees. The average unit gradient was 0.5 percent. Dry channel (61%) and scour pools (39%) comprised the stream habitat. Cobble (60%) and gravel (35%) dominated stream substrate. Wood volume was very low at 3.4 m³/100m.

COMMENTS:

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

REACH 1

T06S-R06W-S46SE

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	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	31.6	VWI Range:	26 - 35

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	554	1,575	23
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 2.8	Width: 7.5	8.3 (6.5 - 12)	19.3 (15 - 25)
Depth: 0.27	Height: 0.5	0.9 (0.9 - 1)	2.3 (1.7 - 2.9)

W:D ratio: 15.9

Stream Flow Type: PD

Average Unit Gradient: 0.5%

Water temperature (°C): 15.0 - 15.0

Entrenchment (ACW:FPW ratio): 1.1

Habitat Units/100m (total channel length): 7.4

Habitat Units/100m (primary channel length): 7.4

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	AG	LT
Riparian Vegetation:	D15	M30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	30%	Reach avg: 72%
Undercut Banks:	2%	Range: 39 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	20	3.6
Volume (m ³):	19	3.4
Key pieces (>=12m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

GOOSENECK CREEK PRE-TX (W-236)

HABITAT INVENTORY

Report Date: 10/27/2004

Survey Date:

8/2/2004

REACH 1

T06S-R06W-S46SE

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 CHANNEL	7	57	4.7	0.00	287	0	0	3	23	74	0	0
POOL-LATERAL SCOUR	18	219	2.7	0.46	607	0	0	8	38	53	0	1
PUDDLED UNIT	16	278	2.2	0.16	681	0	0	3	37	61	0	0
Total:	41	554	2.8	0.27	1,575	0	Avg: 0	5	35	60	0	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	0	0			0	0.00%	0	0.0
Scour Pools	18	219	2.7	0.46	607	38.52%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	0	0			0	0.00%	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	23	335	3.0	0.11	968	61.48%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total of all Channel Lengths		Primary Channel Length
	<u>Total</u>	<u># / Km</u>	<u># / Km</u>
All Pools:	18	32.5	32.5
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	0	0.0	0.0
Pool frequency (channel widths/pool):	4.1		
Residual pool depth (avg):	0.41		

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

REACH 1

Summary of Riparian Zone (0-30m)

3 transects

Total hardwoods/1000	427
Total conifers/1000 ft	264
Total conifers >20" dbh/1000 ft	20
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	0.7	1.0	0.0	1.0	0.7
15-30cm	0.0	0.0	0.3	1.7	1.3	1.3	1.7	3.0
30-50cm	0.0	1.3	0.0	1.3	1.3	0.0	1.3	2.7
50-90cm	0.3	0.7	0.0	0.0	0.0	0.0	0.3	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.3	2.0	0.3	3.7	3.7	1.3	1.4	2.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	52		47		40	
Shrub cover	44		28		24	
Grass/forb cover	43		52		60	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		0		0	
High terrace	100		100		100	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	10		14		13	

RIPARIAN ZONE VEGETATION

Reach 1

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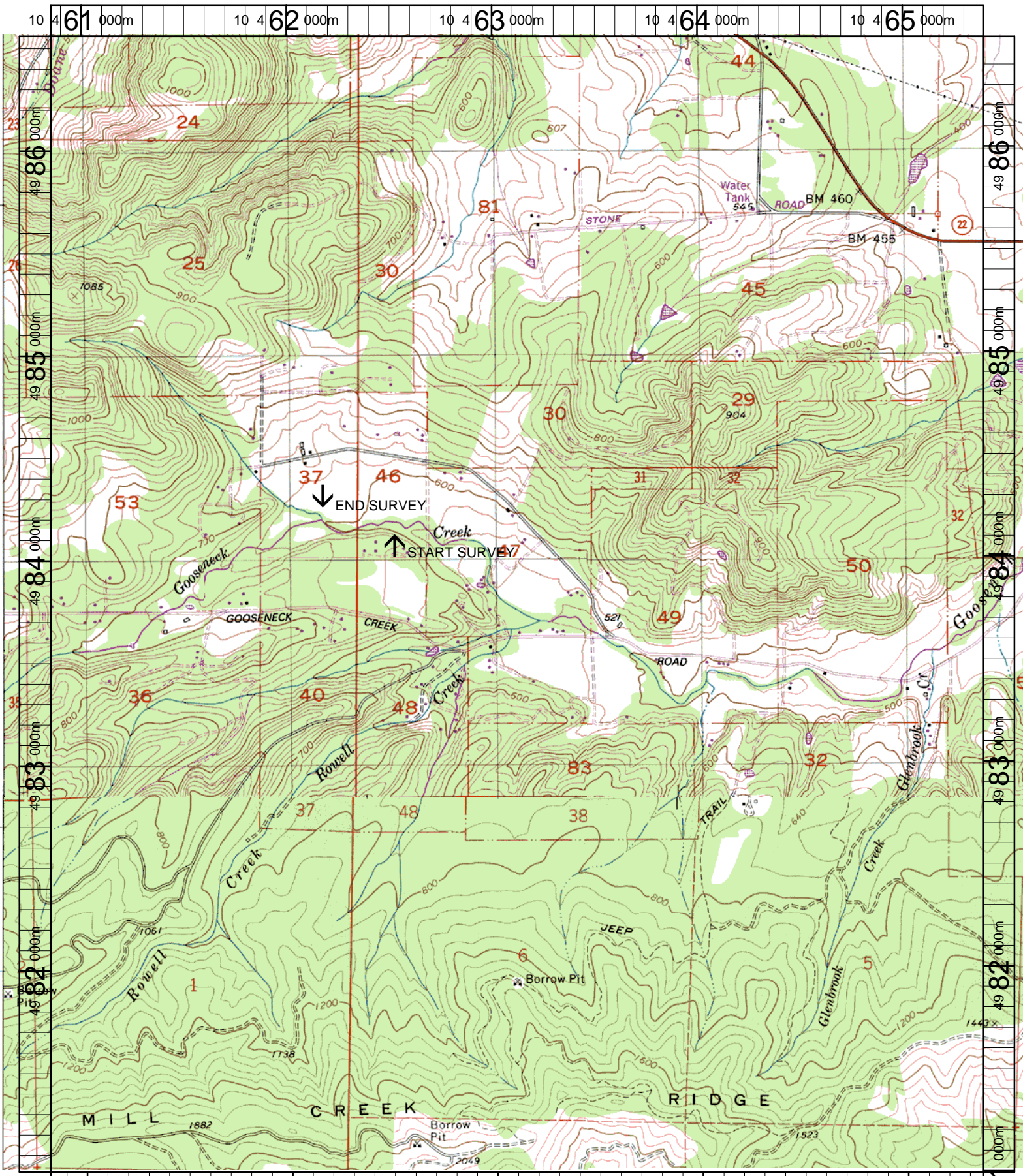
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
14	LF	1	HT	13	70	60	20	Conifer							
								Hardwood					1		
14	LF	2	HT	22	80	70	10	Conifer		1					
								Hardwood		1					
14	LF	3	HT	18	70	70	10	Conifer				1			
								Hardwood		2					
14	RT	1	HT	5	0		100	Conifer							AG LAND, LIVESTOCK/ HORSE GRAZING
								Hardwood							
14	RT	2	HT	5	0		100	Conifer							GRAZING
								Hardwood							
14	RT	3	HT	5	0		100	Conifer							GRAZING
								Hardwood							
26	RT	1	HT	5	20	30	70	Conifer							AG LAND, LIVESTOCK
								Hardwood							
26	LF	3	HT	35	80	20	30	Conifer	3	2					
								Hardwood		2					
26	RT	3	HT	5	0	0	100	Conifer							
								Hardwood							
26	LF	2	HT	35	90	20	20	Conifer							
								Hardwood	1	4	1				
26	LF	1	HT	20	90	30	20	Conifer							
								Hardwood				2			
26	RT	2	HT	5	0	0	100	Conifer							HORSE GRAZING
								Hardwood							
34	LF	1	HT	10	80	40	20	Conifer					1		
								Hardwood							
34	RT	2	HT	5	20	30	60	Conifer							
								Hardwood				1			
34	LF	2	HT	11	90	20	20	Conifer							
								Hardwood	1			2			
34	LF	3	HT	10	90	30	20	Conifer			2	3			
								Hardwood							
34	RT	3	HT	5	0	0	100	Conifer							HORSE GRAZING
								Hardwood							
34	RT	1	HT	5	50	60	30	Conifer							AG, LIVESTOCK
								Hardwood			2	1			

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **8-W** SITE ID: **236** **GOOSENECK CREEK PRE-TX (W-236)**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
2	LP	00	42.1		T=14 DEG C AT 9:30	TEMP=14 DEG C
6	LP	00	56.1		CRAYFISH	
14	PD	00	162.8		RIP 1 AND METRICS	M/R 1
20	PD	00	224.3			PHOTO 109
21	LP	00	247.5			STHD
25	LP	00	283.4			M/ RIP 1
26	PD	00	312.6		RIP 2 AND METRICS	NO FISH IN PUDDLES/ POOL
32	LP	00	427	DJ		
34	LP	00	451		RIP 3 AND METRICS	FISH, TROUT
35	PD	00	455.5			M/R 3
36	LP	00	468.5	DJ	DJ	
38	LP	00	495.1			TROUT
40	PD	00	543.6	DJ		
41	DC	00	553.6		RSN ACW=3M	



10 4 61 000m 10 4 62 000m 10 4 63 000m 10 4 64 000m 10 4 65 000m

Name: SHERIDAN	Location: 10 463103 E 4983781 N
Date: 1/21/2004	Caption: GOOSENECK CREEK RESTORATION SITE - YAMHILL BASIN
Scale: 1 inch equals 2000 feet	