

**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: March 10, 2004  
SURVEY CREW: April Waters, Jim Andrews  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 28.1 km<sup>2</sup>  
USGS MAPS: Sheridan  
ECOREGION: Willamette Valley Foothills

**GENERAL DESCRIPTION:**

The Gooseneck Creek habitat survey extended 589 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 32.8 (range: 25.0-39.5). Land use for the reach was agriculture and large (30-50 cm dbh) trees. The average unit gradient was 0.8 percent. Scour pools (65%) and riffles (23%) dominated stream habitat. Gravel (51%) and cobble (30%) dominated stream substrate. Wood volume was low at 6.7 m<sup>3</sup>/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	32.8	VWI Range:	25 - 39.5

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	589	2,731	0
Secondary	58	80	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 5
Width: 4.4	Width: 7.5	9.9 ( 8.7 - 11.3 )	12.2 ( 10.6 - 14.8 )
Depth: 0.50	Height: 0.3	0.6 ( 0.4 - 0.6 )	1.0 ( 0.9 - 1.25 )

W:D ratio: 28.2

Stream Flow Type: MF

Avg. Unit Gradient: 0.8%

Entrenchment (ACW:FPW ratio): 1.4

Water temp (°C): 9.5 - 9.5

Habitat Units/100m: 9.1

**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:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	52	8.8
Volume (m <sup>3</sup> ):	39	6.7
Key pieces (>=10m x 0.60m):	3	0.5

OREGON DEPARTMENT OF FISH AND WILDLIFE

GOOSENECK CREEK PRE-TX (W-236)

HABITAT INVENTORY

Report Date: 6/16/2004

Survey Date:

3/10/2004

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 <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	1	4	0.6	0.07	2	0	5	10	38	48	0	0
POOL-BACKWATER	6	38	1.5	0.35	56	0	37	29	26	8	0	1
POOL-ISOLATED	1	3	0.8	0.25	2	0	30	40	30	0	0	0
POOL-LATERAL SCOUR	28	394	4.6	0.80	1,769	0	1	8	55	30	3	2
POOL-PLUNGE	1	7	8.5	0.65	60	0	10	30	50	10	0	0
RIFFLE	12	152	4.2	0.19	640	0	0	8	58	32	2	0
STEP/COBBLE	10	50	6.2	0.16	283	0	0	1	49	47	2	0
<b>Total:</b>	<b>59</b>	<b>647</b>	<b>4.4</b>	<b>0.50</b>	<b>2,811</b>	<b>0</b>	<b>Avg: 5</b>	<b>10</b>	<b>51</b>	<b>30</b>	<b>2</b>	<b>1</b>

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	7	40	1.4	0.34	58	2.05%	0	0.0
Scour Pools	29	401	4.7	0.79	1,828	65.03%	0	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	12	152	4.2	0.19	640	22.77%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	1	4	0.6	0.07	2	0.09%	0	0.0
Step/Falls	10	50	6.2	0.16	283	10.07%	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>	<u># / Km</u>	
All Pools:	36	55.7	58
Pools >=1m deep:	7	10.8	
Complex pools (LWD pieces>=3):	6	9.3	
Pool frequency (channel widths/pool):	2.4		
Residual pool depth (avg):	0.59		

**STREAM SUMMARY**

**GOOSENECK CREEK PRE-TX (W-236)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
59	647	4.4	0.50	2,811	5	10	51	30	2	1	

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	58	2.05%
Scour Pools	1,828	65.03%
Glides	0	0.00%
Riffles	640	22.77%
Rapids	0	0.00%
Cascades	2	0.09%
Step/Falls	283	10.07%
Dry	0	0.00%
Culverts	0	0.00%

# Comment Summary

## Oregon Plan Monitoring Sites 2002

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

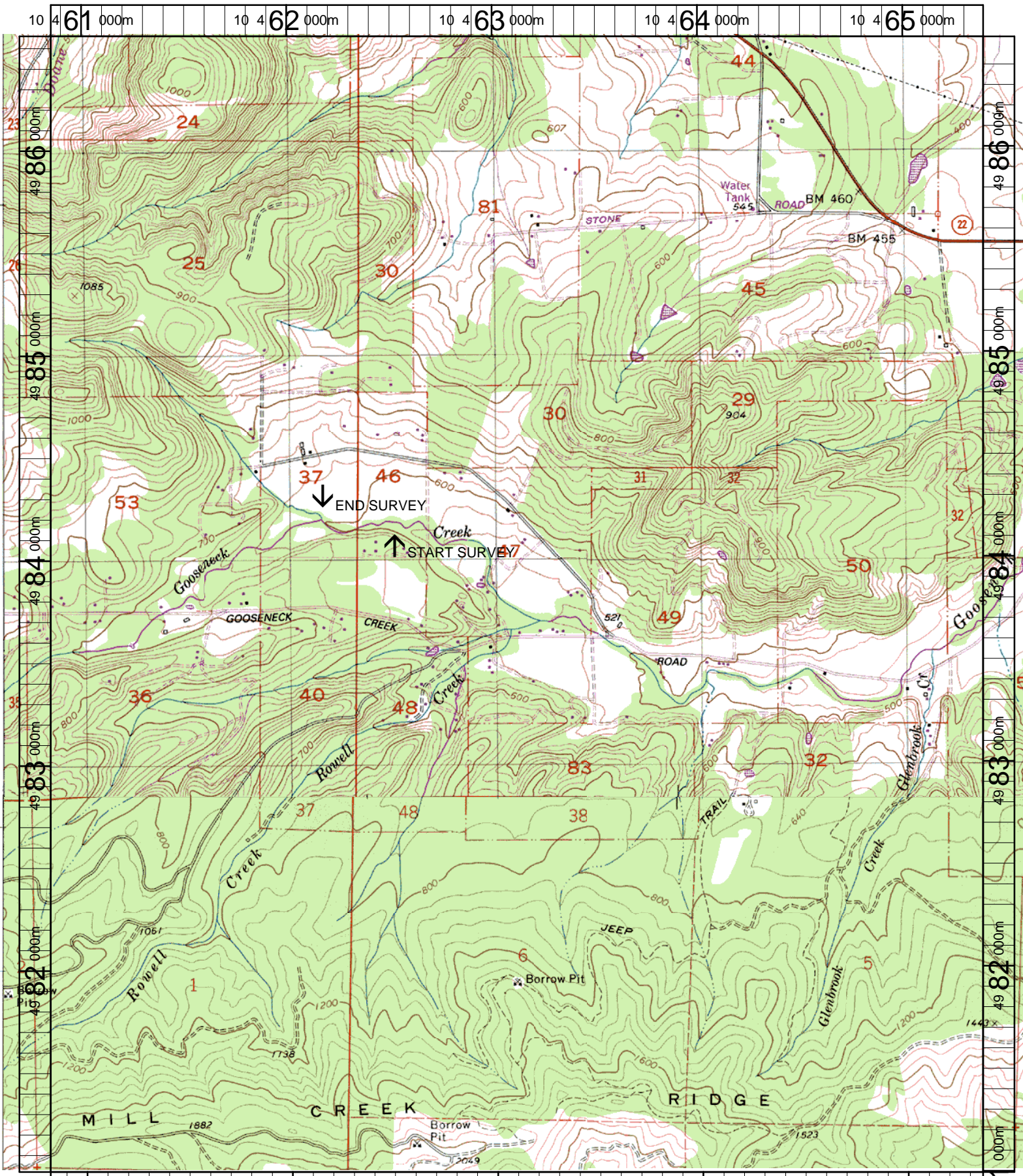
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	01	18.6	/TJ		
2	CB	11	18.6		T=11.1C, ACW=1.7M	
9	LP	00	125.4		HP	
10	SC	00	127.9		H=.25M	
11	LP	00	141.8	DJ	HP	
12	SC	00	147.4		H=.15M	
15	LP	00	181.4	DJ	HEAVY BANK EROSION	
16	LP	00	196.3	BV		
17	SC	00	203.8		H=.2M	
21	LP	00	252	BV		
24	LP	00	280.9		HEAVY BANK EROSION	
25	SC	00	283.9		H=.2M	
27	LP	00	307		FLAGGED FOR TREATME	
28	SC	00	314		H=.3M	
29	LP	01	323.2	BV		
30	BW	10	323.2		HEAVY BANK EROSION	
31	LP	01	339	DJ		
32	BW	10	339	BV		
33	SC	00	345		H=.3M	
34	LP	01	362.5	/TJ	ACW=1.8M, T=10C	
36	LP	00	382.3	BV		

# Comment Summary

## Oregon Plan Monitoring Sites 2002

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

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
37	LP	00	392.4		HP	
38	SC	00	395.4		H=.4M	
40	LP	00	425.4		HP	
43	LP	00	464.2	BV		
44	SC	00	467.2		H=.2M	
45	PP	01	474.2	DJ		
47	SC	00	480.2		H=.3M	
48	LP	01	499.6		FLAGGED FOR TREATME	
49	IP	10	499.6	BV		
50	LP	01	509.9	DJ		
51	BW	10	509.9		HP	
52	RI	00	521.5		.4M DEEP POCKET	
53	LP	00	540.8	BV		
55	LP	00	554.8		FLAGGED FOR TX	
56	LP	00	567.3	DJ		
58	LP	01	588.6		T=9.5C/1718, EOS	
59	RI	11	588.6		T=10C, ACW=2.2	



Name: SHERIDAN  
 Date: 1/21/2004  
 Scale: 1 inch equals 2000 feet

Location: 10 463103 E 4983781 N  
 Caption: GOOSENECK CREEK RESTORATION SITE - YAMHILL BASIN