

REACH 1

T03N-R09W-S31SW

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	4.2	VWI Range:	1.22 - 7.8

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	494	1,730	0
Secondary	12	5	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.6	Width	8.2	27.0	19.0
Depth	0.34	Height	0.6	1.2	1.4
		W:D ratio	13.6	Entrenchment	3.2
Stream Flow Type:	LF	Water temp (C): 12.0 - 12.0			
Avg. Unit Gradient:	1.6%	Habitat Units/100m: 8.1			

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	RR
Riparian Vegetation:	D15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	5%	Reach avg: 79%
Undercut Banks:	7%	Range: 44 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	27	5.5
Volume (m ³):	23	4.7
Key pieces (>=10m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

ROY CREEK PRE-TX (NC-146)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/10/02

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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	
CULVERT CROSSING	1	29	1.1	0.10	32	0	0	20	70	5	5	0	0
POOL-BACKWATER	1	1	2.5	0.20	3	0	5	20	40	35	0	0	0
POOL-LATERAL SCOUR	19	264	4.2	0.60	1,128	1	14	16	53	16	1	0	0
POOL-STRAIGHT SCOUR	1	6	2.6	0.35	16	0	10	40	35	10	5	0	0
RAPID/BOULDERS	5	55	2.0	0.08	108	0	0	7	44	39	10	0	0
RIFFLE	9	136	2.9	0.09	367	0	1	13	59	24	3	1	0
STEP/BOULDERS	1	1	3.4	0.05	2	0	5	10	20	20	45	0	0
STEP/COBBLE	3	14	5.9	0.05	77	0	2	7	57	35	0	0	0
Total:	40	506	3.6	0.34	1,735	1	Avg 7	14	52	22	4	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	1	1	2.5	0.20	3	0.19%	0	0.0	
Scour Pools	20	270	4.2	0.59	1,145	65.97%	1	0.1	
Glides	0	0			0	0.00%	0	0.0	
Riffles	9	136	2.9	0.09	367	21.18%	0	0.0	
Rapids	5	55	2.0	0.08	108	6.25%	0	0.0	
Cascades	0	0			0	0.00%	0	0.0	
Step/Falls	4	14	5.3	0.05	80	4.58%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	1	29	1.1	0.10	32	1.84%	0	0.0	

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	21	42.5
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	4	8.1
Pool frequency (channel widths/pool):	2.9	
Residual pool depth (avg):	0.50	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

Summary of Riparian Zone (0-30m) 3 transects

Total hardwoods/1000	386
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	0.3	0.0	0.7	0.0	1.0
15-30cm	0.0	3.0	0.0	0.0	0.0	1.0	0.0	4.0
30-50cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
50-90cm	0.0	0.3	0.0	0.0	0.0	0.7	0.0	1.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.0	3.7	0.0	0.3	0.0	2.3	0.0	2.1

Canopy closure and ground cover

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Canopy closure	51	77	87
Shrub cover	30	56	62
Grass/forb cover	68	43	35

Predominant landform in each zone

	Zone 1	Zone 2	Zone 3
	0-10 meters (%)	10 - 20 meters (%)	20 - 30 meters (%)
Hillslope	0	50	83
High terrace	17	17	0
Low terrace	67	17	17
Floodplain	0	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	17	17	0
Riprap	0	0	0
Surface slope (%)	5	20	27

RIPARIAN ZONE VEGETATION

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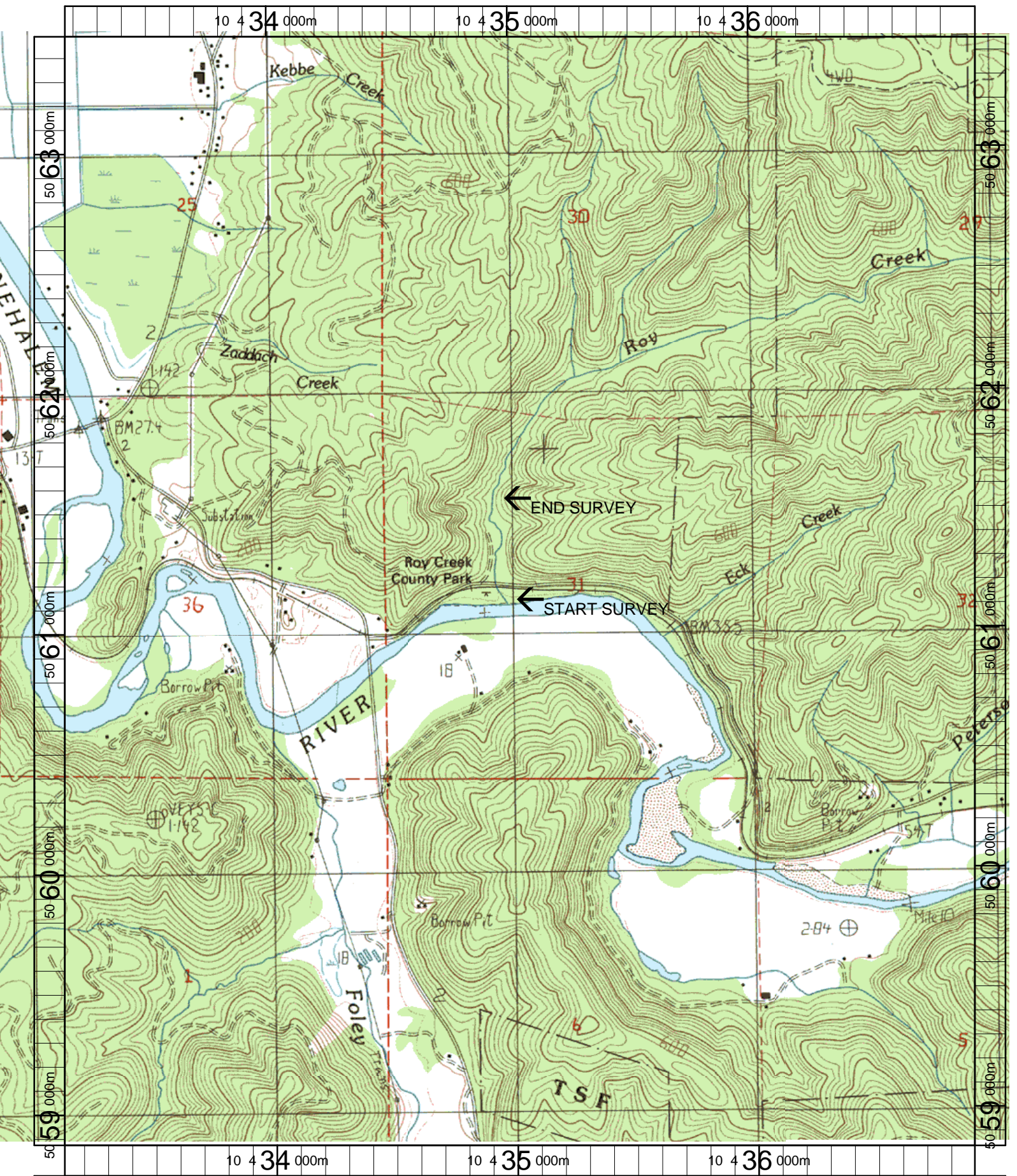
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
11	LF	1	LT	4	90	30	70	Conifer							PARTIAL HS
								Hardwood				1			
11	LF	2	RB	-1	95	40	55	Conifer							
								Hardwood							
11	LF	3	HS	7	100	40	55	Conifer							PARTIAL ROAD
								Hardwood				1			
11	RT	1	HT	7	5	0	100	Conifer							YARD DRIVEWAY
								Hardwood							
11	RT	2	HT	2	15	0	100	Conifer							
								Hardwood							
11	RT	3	HS	55	100	35	50	Conifer							
								Hardwood				1			
22	LF	1	LT	2	10	0	100	Conifer							THICK GRASSES
								Hardwood							
22	LF	2	LT	-1	50	10	90	Conifer							
								Hardwood							
22	LF	3	LT	-3	20	10	90	Conifer							
								Hardwood							
22	RT	1	LT	11	100	95	5	Conifer							PARTIAL HS
								Hardwood		7	1				
22	RT	2	HS	60	100	95	5	Conifer							
								Hardwood							
22	RT	3	HS	50	100	95	5	Conifer							
								Hardwood							
33	LF	1	RB	11	1	5	85	Conifer							PARTIAL LT
								Hardwood							
33	LF	2	HS	60	100	100	0	Conifer							
								Hardwood	1						
33	LF	3	HS	50	100	100	0	Conifer							ELDERBERRY
								Hardwood			1				
33	RT	1	LT	-3	100	50	50	Conifer							
								Hardwood			2				
33	RT	2	HS	2	100	90	10	Conifer							
								Hardwood							
33	RT	3	HS	4	100	90	10	Conifer							ANGLING DOWN
								Hardwood	2	2					VAIIFY

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 1-NC SITE ID: 146 ROY CREEK PRE-TX (NC-146)

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RI	00	11.8		T=12C AT START	START SURVEY
3	SB	00	18.7	HS	H=.3	ARTIFICIALLY PLACED BOUL
5	RI	00	47.6	CS		RIP RAP
6	CC	00	76.6	PA,CC	CC	4 CULV PILED-BOTTOM 1 W/
10	LP	00	133.4			CUTTHROAT
11	LP	00	147			RIP#1
16	LP	00	195.2			LARGE TROUT
17	LP	00	217.5	CS		GROUP OF TIRES-RIPRAP
19	LP	00	252.4	WL		RED-LEGGED FROG
22	LP	00	286.3			RIP#2, CLAY HARDPAN
24	LP	00	316.4			HARDPAN
25	LP	00	327.6			COHO
33	LP	00	399.7			RIP#3
34	LP	01	419.6			COHO
36	RI	00	438.7			SUB UNIT POOL
37	LP	00	447.6	DJ	TROUT	LARGE TROUT
38	RI	00	482.6	WL	RED LEGGED FROG	RED-LEGGED FROG
39	LP	01	493.8	TJ/	TJ/	
40	RB	11	493.8			TRIB UNIT/ END SURVEY



Name: FOLEY PEAK
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 435026 E 5061167 N
 Caption: ROY CREEK RESTORATION SITE - NEHALEM BASIN