

REACH 1

T20S-R7W-S4SE

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 avg: 9.6 range: 8.0-10.0

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	560	1,849	0
Secondary	96	307	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.2	Width	5.9	14.7	12.5
Depth	0.22	Height	0.5	0.9	1.2
		W:D ratio	12.9	Entrenchment	2.5

Stream Flow Type: LF Water Temp: 12.5-12.5°C  
Avg. Unit Gradient: 2.5% Habitat Units/100m: 5.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D30	P

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	0%	Reach avg: 100%
Undercut Banks	30%	Range: 100-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	58	10.4
Volume (m <sup>3</sup> )	52	9.3
Key pieces ( $\geq 10m \times 0.6m$ )	1	0.2

REACH 1 T20S-R7W-S4SE 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	Cbbl	Bldr	Bdrk
CULVERT CROSSING	1	20	0.3	0.10	6	0	5	20	10	5	60	0
DRY UNITS	1	18	6.4	0.00	113	0	0	5	95	0	0	0
GLIDE	2	22	3.0	0.13	69	0	5	3	0	0	0	93
POOL-ISOLATED	1	4	1.5	0.15	5	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	10	163	3.7	0.49	623	6	19	14	16	11	1	38
POOL-STRAIGHT SCOUR	3	38	3.3	0.33	140	0	10	19	19	2	0	50
RAPID/BEDROCK	2	39	3.1	0.13	106	0	5	5	8	5	3	75
RAPID/BOULDERS	1	25	4.7	0.20	118	3	6	11	17	50	11	6
RIFFLE	14	314	2.9	0.11	909	3	9	10	14	19	4	45
STEP/BEDROCK	1	0	0.1	0.01	0	0	0	0	0	0	0	100
STEP/COBBLE	1	7	6.2	0.03	46	0	0	5	15	80	0	0
STEP/LOG	1	5	4.2	0.00	21	0	0	100	0	0	0	0
STEP/STRUCTURE	1	0	0.3	0.10	0	0	0	5	20	10	5	60
<b>Total:</b>	<b>39</b>	<b>656</b>	<b>3.2</b>	<b>0.22</b>	<b>2,156</b>	<b>12</b>	<b>Avg:12</b>	<b>13</b>	<b>15</b>	<b>14</b>	<b>4</b>	<b>43</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	1	4	1.5	0.15	5	0.25	0	0.0
Scour Pools	13	201	3.6	0.45	764	35.43	6	0.8
Glides	2	22	3.0	0.13	69	3.19	0	0.0
Riffles	14	314	2.9	0.11	909	42.14	3	0.3
Rapids	3	64	3.6	0.15	223	10.36	3	1.3
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	4	13	2.7	0.04	67	3.13	0	0.0
Dry	1	18	6.4	0.00	113	5.22	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	14	21.4
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	3	4.6
Pool Frequency (channel widths/pool):	8.0	
Residual pool depth (avg)	0.42m	

STREAM SUMMARY

OXBOW CREEK PRE-TX (#53)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
39	656	3.2	0.22	2,156	12	13	15	14	4	43	12

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	764	35.4
Backwater Pools	5	0.2
Glide	69	3.2
Riffle	909	42.1
Rapid	223	10.4
Cascade	0	0.0
Step	67	3.1
Dry	113	5.2

---

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	894
Total conifers/1000 ft	284
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	2.3	2.3	0.0	3.3	0.0	1.0	2.3	6.7
15-30cm	1.0	2.0	0.3	0.7	0.0	1.3	1.3	4.0
30-50cm	0.3	1.7	0.0	1.7	0.7	0.3	1.0	3.7
50-90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	3.7	6.3	0.3	5.7	0.7	2.7	1.6	4.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	93		88		72	
Shrub cover	43		39		27	
Grass/forb cover	44		50		38	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		33		50
High terrace	50		67		33	
Low terrace	33		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		17	
Riprap	0		0		0	
Surface slope (%)	7		11		13	

---

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

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

Total hardwoods/1000 ft	894
Total conifers/1000 ft	284
Total conifers >20" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	2.3	6.7
15-30cm	1.3	4.0
30-50cm	1.0	3.7
50-90cm	0.0	0.3
>90cm	0.0	0.0

---

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

VEGETATION DETAIL

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	HS	30.0	85	10	80	Conifer	1	0	0	0	0	
								Hardwood	0	0	0	1	0	
11	LF	2	HS	30.0	90	5	85	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
11	LF	3	HS	30.0	95	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
11	RT	1	LT	10.0	100	50	50	Conifer	0	0	0	0	0	
								Hardwood	1	5	0	0	0	
11	RT	2	HT	15.0	95	90	5	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
11	RT	3	HT	0.0	50	90	0	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
21	LF	1	LT	0.0	90	60	40	Conifer	6	3	0	0	0	
								Hardwood	0	0	0	0	0	
21	LF	2	HS	20.0	90	80	20	Conifer	0	1	0	0	0	
								Hardwood	2	0	0	0	0	
21	LF	3	HS	30.0	100	10	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
21	RT	1	HT	0.0	95	20	15	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
21	RT	2	HT	0.0	80	20	40	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
21	RT	3	RB	0.0	0	0	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
30	LF	1	HT	0.0	100	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	3	0	0	
30	LF	2	HT	0.0	80	30	60	Conifer	0	0	0	0	0	
								Hardwood	5	0	4	0	0	
30	LF	3	HS	20.0	90	30	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
30	RT	1	HT	0.0	90	80	20	Conifer	0	0	1	0	0	
								Hardwood	2	1	2	0	0	
30	RT	2	HT	0.0	90	10	90	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	
30	RT	3	HT	0.0	95	20	80	Conifer	0	0	2	0	0	
								Hardwood	1	4	0	0	0	



Name: GUNTER  
 Date: 1/10/2002  
 Scale: 1 inch equals 2000 feet

Location: 10 457051 E 4854958 N  
 Caption: OXBOW CREEK RESTORATION SITE - SIUSLAW  
 BASIN