

REACH 1

T5S-R9W-28N

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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 avg: 6.1 range: 5.5-6.5

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	727	1,952	0
Secondary	111	292	4

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.6	Width	7.8	11.5	14.5
Depth	0.25	Height	0.5	1.0	1.0
		W:D ratio	16.2	Entrenchment	1.5

Stream Flow Type: LF Water Temp: 8.0-8.0°C  
 Avg. Unit Gradient: 2.7% Habitat Units/100m: 8.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D30	C15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	34%	Reach avg: 84%
Undercut Banks	14%	Range: 36-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (>3m x 0.15m)	241	33.1
Volume (m <sup>3</sup> )	177	24.4
Key pieces (>10m x 0.6m)	2	0.3

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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
DRY UNITS	3	38	3.5	0.00	110	0	21	26	43	10	0	0
GLIDE	4	60	2.6	0.20	158	0	12	19	52	17	0	0
POOL-LATERAL SCOUR	28	278	2.5	0.48	759	4	22	35	31	8	0	4
PUDDLED CHANNEL	1	32	4.2	0.00	136	0	5	11	63	21	0	0
RAPID/BOULDERS	5	69	3.4	0.12	211	10	9	22	51	16	2	1
RIFFLE	19	320	2.6	0.11	778	32	11	21	50	18	2	0
STEP/COBBLE	11	40	2.2	0.08	92	6	9	13	61	17	0	0
<b>Total:</b>	<b>71</b>	<b>838</b>	<b>2.6</b>	<b>0.25</b>	<b>2,244</b>	<b>52</b>	<b>Avg:15</b>	<b>25</b>	<b>44</b>	<b>13</b>	<b>1</b>	<b>2</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	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	28	278	2.5	0.48	759	33.83	4	0.5
Glides	4	60	2.6	0.20	158	7.05	0	0.0
Riffles	19	320	2.6	0.11	778	34.64	32	4.1
Rapids	5	69	3.4	0.12	211	9.41	10	4.7
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	11	40	2.2	0.08	92	4.09	6	6.5
Dry	4	70	3.7	0.00	246	10.97	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	28	33.4
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	8	9.5
Pool Frequency (channel widths/pool):	3.8	
Residual pool depth (avg)	0.35m	

STREAM SUMMARY

BAXTER CK (PRE SUM 99)

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	
71	838	2.6	0.25	2,244	15	25	44	13	1	2	52

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	759	33.8
Backwater Pools	0	0.0
Glide	158	7.1
Riffle	778	34.6
Rapid	211	9.4
Cascade	0	0.0
Step	92	4.1
Dry	246	11.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	610
Total conifers/1000 ft	1,057
Total conifers >20" dbh/1000 ft	244
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	0.7	3.7	1.0	0.7	0.7	4.3	2.3
15-30cm	1.0	0.7	2.7	1.7	2.0	2.0	5.7	4.3
30-50cm	0.3	1.7	1.7	0.0	1.3	1.0	3.3	2.7
50-90cm	1.7	0.0	0.3	0.0	2.0	0.7	4.0	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	3.0	3.0	8.3	2.7	6.0	4.3	5.8	3.3

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	76		84		78	
Shrub cover	5		17		18	
Grass/forb cover	53		31		17	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	0		17		17	
High terrace	100		83		83	
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 (%)	4		6		14	

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	610
Total conifers/1000 ft	1,057
Total conifers >20" dbh/1000 ft	244

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	4.3	2.3
15-30cm	5.7	4.3
30-50cm	3.3	2.7
50-90cm	4.0	0.7
>90cm	0.0	0.0

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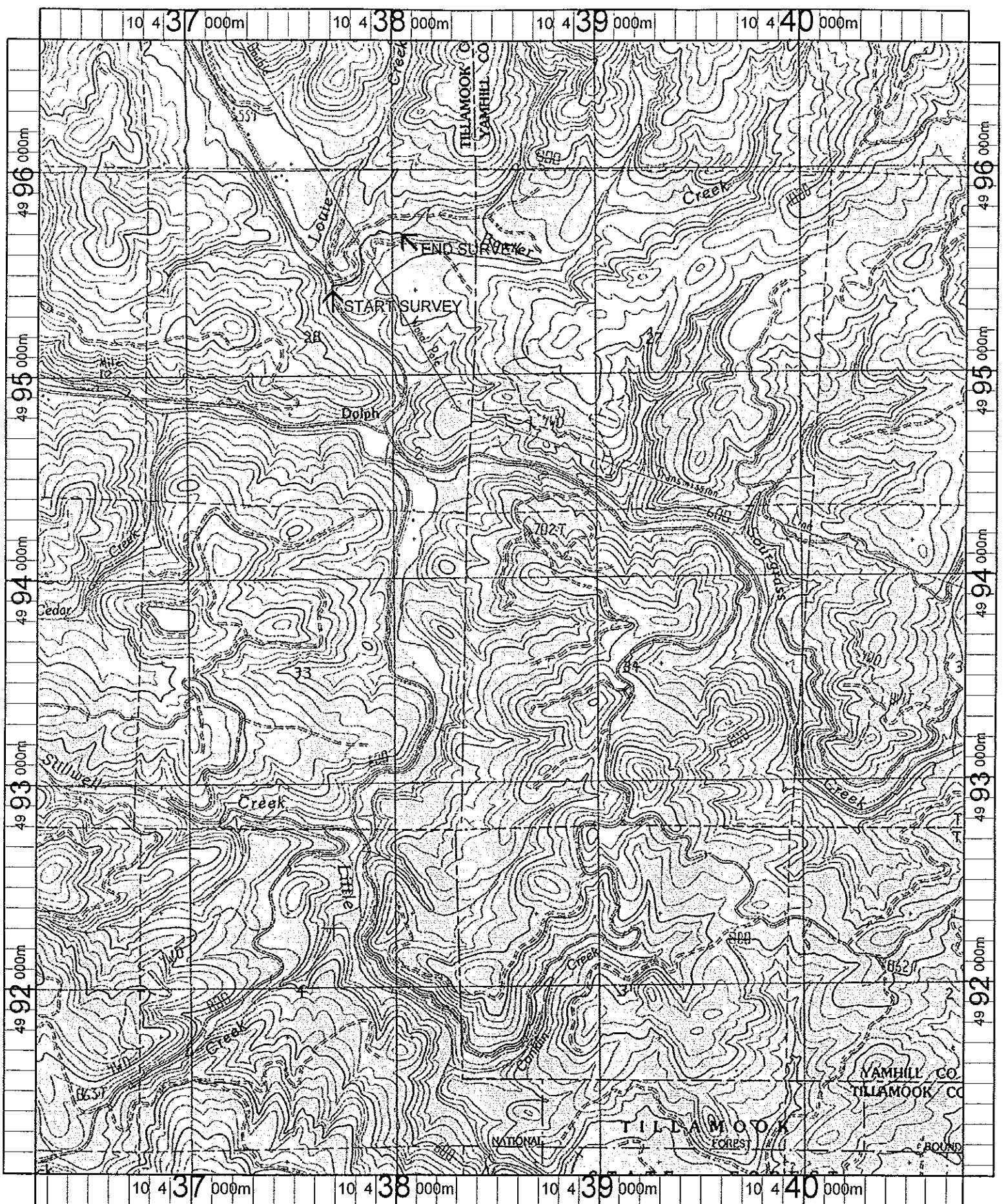
RIPARIAN ZONE VEGETATION

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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	
22	LF	1	HT	5.0	85	5	90	Conifer	0	1	0	0	0	
								Hardwood	0	0	2	0	0	FIR, ALDER
22	LF	2	HT	-1.0	95	0	45	Conifer	8	4	0	0	0	
								Hardwood	0	2	0	0	0	FIR, ALDER
22	LF	3	HT	3.0	85	5	35	Conifer	2	0	0	0	0	
								Hardwood	0	3	1	0	0	FIR, ALDER
22	RT	1	HT	5.0	80	0	50	Conifer	0	2	0	0	0	
								Hardwood	1	1	0	0	0	
22	RT	2	HS	15.0	90	90	5	Conifer	2	0	0	0	0	
								Hardwood	0	2	0	0	0	
22	RT	3	HS	30.0	85	90	5	Conifer	0	1	0	0	0	
								Hardwood	2	1	2	0	0	
31	LF	1	HT	1.0	95	10	45	Conifer	0	0	0	3	0	
								Hardwood	0	0	1	0	0	
31	LF	2	HT	4.0	95	5	30	Conifer	1	0	0	0	0	
								Hardwood	2	0	0	0	0	
31	LF	3	HT	2.0	80	0	5	Conifer	0	0	2	1	0	
								Hardwood	0	0	0	0	0	
31	RT	1	HT	3.0	90	0	30	Conifer	0	0	1	2	0	
								Hardwood	0	0	1	0	0	
31	RT	2	HT	2.0	95	0	5	Conifer	0	0	4	0	0	
								Hardwood	0	0	0	0	0	
31	RT	3	HT	15.0	65	0	10	Conifer	0	3	0	0	0	
								Hardwood	0	0	0	2	0	
43	LF	1	HT	6.0	75	5	15	Conifer	0	0	0	0	0	
								Hardwood	1	1	1	0	0	
43	LF	2	HT	4.0	90	0	5	Conifer	0	4	0	0	0	
								Hardwood	1	0	0	0	0	
43	LF	3	HT	15.0	65	10	40	Conifer	0	2	0	2	0	
								Hardwood	0	2	0	0	0	
43	RT	1	HT	4.0	30	10	90	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
43	RT	2	HT	12.0	40	5	95	Conifer	0	0	1	1	0	
								Hardwood	0	1	0	0	0	
43	RT	3	HT	20.0	90	0	5	Conifer	0	0	2	3	0	
								Hardwood	0	0	0	0	0	



Name: DOLPH  
Date: 4/24/100  
Scale: 1 inch equals 2000 feet

Location: 10 438441 E 4993833 N  
Caption: BAXTER CREEK  
RESTORATION SITE  
ODFW 1999