

REACH 1

T14S-R8W-36

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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	100
Moderate V-shape	0	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 6.3 range: 4.0-10.0

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	417	2,642	0
Secondary	28	28	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.5	Width	8.4	12.4	13.6
Depth	0.38	Height	0.6	1.1	1.5
		W:D ratio	15.6	Entrenchment	1.5

Stream Flow Type: MF Water Temp: 14.0-14.0°C  
 Avg. Unit Gradient: 0.8% Habitat Units/100m: 6.3

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 83%
Undercut Banks	5%	Range: 53-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	87	20.8
Volume (m <sup>3</sup> )	210	50.2
Key pieces (≥10m x 0.6m)	11	2.6

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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 CHANNEL	1	12	0.6	0.00	7	0	50	50	0	0	0	0
GLIDE	3	60	5.4	0.25	318	4	16	32	35	18	0	0
POOL-BACKWATER	2	10	1.8	0.20	17	0	90	10	0	0	0	0
POOL-LATERAL SCOUR	14	269	6.6	0.63	1,780	15	33	39	9	7	1	11
RIFFLE	4	71	6.4	0.10	452	2	1	12	79	8	0	0
STEP/BEDROCK	1	6	6.5	0.15	39	0	5	11	5	5	0	74
STEP/COBBLE	3	17	3.3	0.08	56	0	0	9	73	19	0	0
<b>Total:</b>	<b>28</b>	<b>445</b>	<b>5.5</b>	<b>0.38</b>	<b>2,670</b>	<b>21</b>	<b>Avg:27</b>	<b>28</b>	<b>27</b>	<b>9</b>	<b>0</b>	<b>8</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Number	Boulders #/100m <sup>2</sup>
Dammed & BW Pools	2	10	1.8	0.20	17	0.65	0	0.0
Scour Pools	14	269	6.6	0.63	1,780	66.67	15	0.8
Glides	3	60	5.4	0.25	318	11.92	4	1.3
Riffles	4	71	6.4	0.10	452	16.92	2	0.4
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	4	23	4.1	0.10	95	3.57	0	0.0
Dry	1	12	0.6	0.00	7	0.27	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	16	35.9
Pools ≥1m deep:	1	2.2
Complex pools (LWD pieces ≥3):	6	13.5
Pool Frequency (channel widths/pool):	3.3	
Residual pool depth (avg)	0.45m	

STREAM SUMMARY

LITTLE LOBSTER 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	
28	445	5.5	0.38	2,670	27	28	27	9	0	8	21

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	1,780	66.7
Backwater Pools	17	0.6
Glide	318	11.9
Riffle	452	16.9
Rapid	0	0.0
Cascade	0	0.0
Step	95	3.6
Dry	7	0.3

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (2 transects)

Total hardwoods/1000 ft	945
Total conifers/1000 ft	91
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	1.0	0.0	1.0	0.5	2.5	0.5	4.5
15-30cm	0.0	3.5	0.0	3.0	1.0	2.5	1.0	9.0
30-50cm	0.0	1.0	0.0	0.5	0.0	0.5	0.0	2.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m <sup>2</sup>	0.0	5.5	0.0	4.5	1.5	5.5	0.5	5.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	69		74		71	
Shrub cover	60		60		68	
Grass/forb cover	40		40		23	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	25		50		50
High terrace	75		50		0	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		50	
Riprap	0		0		0	
Surface slope (%)	11		26		25	

Summary of Riparian Zone (0-30m) for all reaches ( 2 transects)

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

Total hardwoods/1000 ft	945
Total conifers/1000 ft	91
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	0.5	4.5
15-30cm	1.0	9.0
30-50cm	0.0	2.0
50-90cm	0.0	0.0
>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	
10	LF	1	HT	0.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	
10	LF	2	HT	0.0	90	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	3	0	0	0	
10	LF	3	RB	0.0	90	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	ALSO HT
10	RT	1	HT	0.0	90	50	50	Conifer	0	0	0	0	0	
								Hardwood	1	0	2	0	0	
10	RT	2	HS	65.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
10	RT	3	HS	70.0	70	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	2	1	0	0	
20	LF	1	HT	0.0	80	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	3	0	0	0	
20	LF	2	HT	0.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	2	1	0	0	
20	LF	3	RB	0.0	75	40	20	Conifer	0	0	0	0	0	
								Hardwood	3	1	0	0	0	GRVL RB=40%, ALDER
20	RT	1	HS	45.0	15	30	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
20	RT	2	HS	40.0	25	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	
20	RT	3	HS	30.0	50	90	10	Conifer	1	2	0	0	0	
								Hardwood	1	0	0	0	0	

LITTLE LOBSTER CR.  
WINTER HARBAT SURVEY 3/5/99  
NS00M

