

REACH 1

T24S-R12W-S14NE

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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: 3.6 range: 2.5-5.0

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	1,062	18,835	0
Secondary	22	63	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 17.0	22.4	25.0	28.7
Depth 0.41	Height 0.7	1.3	2.1
	W:D ratio 32.0	Entrenchment 1.1	

Stream Flow Type: LF Water Temp: 14.0-14.0°C
 Avg. Unit Gradient: 1.1% Habitat Units/100m: 2.6

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	MT	TH
Riparian Vegetation:	C90	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	5%	Reach avg: 69%
Undercut Banks	0%	Range: 17- 83

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	32	3.0
Volume (m ³)	34	3.2
Key pieces ($\geq 10m \times 0.6m$)	2	0.2

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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	Cbbl	Bldr	Bdrk
GLIDE	7	323	17.8	0.25	5,720	37	1	9	21	2	1	66
POOL-ISOLATED	1	17	3.1	0.30	53	0	15	10	5	0	0	70
POOL-LATERAL SCOUR	4	102	20.3	0.90	1,894	23	6	19	33	8	6	29
POOL-STRAIGHT SCOUR	3	162	19.0	1.07	3,128	22	10	17	19	7	4	44
RAPID/BEDROCK	8	385	15.9	0.21	6,345	65	0	5	8	4	4	79
RAPID/BOULDERS	1	25	19.0	0.30	475	0	0	5	5	0	0	90
RIFFLE	1	28	13.0	0.20	364	0	0	15	30	0	0	55
STEP/BEDROCK	2	37	24.5	0.20	909	34	0	5	16	13	4	62
STEP/COBBLE	1	5	2.0	0.10	10	0	0	20	50	30	0	0
Total:	28	1,084	17.0	0.41	18,898	181	Avg: 3	10	18	5	3	60

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Number	Boulders #/100m ²
Dammed & BW Pools	1	17	3.1	0.30	53	0.28	0	0.0
Scour Pools	7	264	19.7	0.97	5,022	26.57	45	0.9
Glides	7	323	17.8	0.25	5,720	30.27	37	0.6
Riffles	1	28	13.0	0.20	364	1.93	0	0.0
Rapids	9	410	16.3	0.22	6,820	36.09	65	1.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	3	42	17.0	0.17	919	4.86	34	3.7
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	<u>Total</u>	<u>#/Km</u>
All Pools	8	7.4
Pools $\geq 1m$ deep:	3	2.8
Complex pools (LWD pieces ≥ 3):	3	2.8
Pool Frequency (channel widths/pool):	6.1	
Residual pool depth (avg)	0.73m	

STREAM SUMMARY

WF MILLICOMA LOWER PRE-TX (63)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
28	1,084	17.0	0.41	18,898	3	10	18	5	3	60	181

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	5,022	26.6
Backwater Pools	53	0.3
Glide	5,720	30.3
Riffle	364	1.9
Rapid	6,820	36.1
Cascade	0	0.0
Step	919	4.9
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	732
Total conifers/1000 ft	81
Total conifers >20" dbh/1000 ft	61
Total conifers >35" dbh/1000 ft	20

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	4.3	0.0	3.0	0.0	0.7	0.0	8.0
15-30cm	0.0	1.0	0.0	2.0	0.0	0.7	0.0	3.7
30-50cm	0.0	0.3	0.0	0.0	0.3	0.0	0.3	0.3
50-90cm	0.3	0.0	0.0	0.0	0.3	0.0	0.7	0.0
>90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
Total/100m ²	0.3	5.7	0.3	5.0	0.7	1.3	0.4	4.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	38		61		57	
Shrub cover	58		56		61	
Grass/forb cover	36		32		33	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	50		50		50
High terrace	50		50		50	
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 (%)	30		32		33	

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	732
Total conifers/1000 ft	81
Total conifers >20" dbh/1000 ft	61

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	0.0	8.0
15-30cm	0.0	3.7
30-50cm	0.3	0.3
50-90cm	0.7	0.0
>90cm	0.3	0.0

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	
5	LF	1	HS	42.0	60	15	70	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
5	LF	2	HS	55.0	70	10	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
5	LF	3	HS	65.0	80	5	80	Conifer	0	0	0	1	0	
								Hardwood	1	0	0	0	0	
5	RT	1	HT	0.0	60	60	20	Conifer	0	0	0	0	0	
								Hardwood	13	0	0	0	0	
5	RT	2	HT	0.0	80	70	15	Conifer	0	0	0	0	0	
								Hardwood	9	1	0	0	0	
5	RT	3	HT	0.0	65	65	15	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
11	LF	1	HS	65.0	40	35	65	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
11	LF	2	HS	65.0	70	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
11	LF	3	HS	65.0	60	65	35	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
11	RT	1	HT	0.0	30	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
11	RT	2	HT	0.0	55	95	5	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	
11	RT	3	HT	0.0	70	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
17	LF	1	HS	70.0	15	100	0	Conifer	0	0	0	1	0	
								Hardwood	0	0	0	0	0	
17	LF	2	HS	70.0	25	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
17	LF	3	HS	70.0	15	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
17	RT	1	HT	0.0	20	50	50	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
17	RT	2	HT	0.0	65	30	40	Conifer	0	0	0	0	1	
								Hardwood	0	0	0	0	0	
17	RT	3	HT	0.0	50	60	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	

