

REACH 1

T24S-R3W-S13NW

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 avg: 3.6 range: 3.0-4.0

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	510	2,738	0
Secondary	94	317	3

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 4.3	Width 6.7	12.4	15.8
Depth 0.33	Height 0.4	0.8	1.4
	W:D ratio 16.3	Entrenchment 2.0	

Stream Flow Type: MF Water Temp: 15.0-15.0°C
 Avg. Unit Gradient: 1.5% Habitat Units/100m: 6.6

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	17%	Reach avg: 86%
Undercut Banks	6%	Range: 61-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	149	29.2
Volume (m ³)	196	38.4
Key pieces ($\geq 10m \times 0.6m$)	1	0.2

HABITAT UNIT SUMMARY

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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
CULVERT CROSSING	1	8	1.2	0.10	10	0	5	30	0	15	0	50
DRY CHANNEL	1	45	5.0	0.00	225	4	5	15	60	15	5	0
DRY UNITS	2	10	0.0	0.00	0	20	0	5	78	17	0	0
GLIDE	2	65	7.3	0.25	471	5	3	20	15	3	0	60
POOL-BACKWATER	1	2	2.0	0.45	4	6	5	5	15	75	0	0
POOL-DAMMED	2	24	5.8	0.40	139	9	10	35	10	0	0	45
POOL-LATERAL SCOUR	12	201	4.5	0.61	981	4	8	35	41	7	0	9
POOL-STRAIGHT SCOUR	1	17	8.2	1.00	135	3	5	57	19	10	10	0
RAPID/BOULDERS	10	136	3.8	0.17	591	26	0	14	54	29	2	0
RIFFLE	4	65	4.9	0.23	331	6	3	25	33	19	5	16
RIFFLE W/ POCKETS	1	28	5.3	0.30	146	13	0	9	55	18	18	0
STEP/BOULDERS	1	1	4.5	0.03	5	17	5	19	48	0	29	0
STEP/COBBLE	1	3	6.0	0.10	18	0	0	5	20	75	0	0
STEP/STRUCTURE	1	0	1.2	0.10	0	0	5	30	0	15	0	50
Total:	40	604	4.3	0.33	3,055	113	Avg: 4	24	40	18	3	12

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	#/100m ²
Dammed & BW Pools	3	27	4.5	0.42	144	4.71	15	10.4
Scour Pools	13	218	4.8	0.64	1,116	36.54	7	0.6
Glides	2	65	7.3	0.25	471	15.41	5	1.1
Riffles	5	92	5.0	0.24	476	15.59	19	4.0
Rapids	10	136	3.8	0.17	591	19.33	26	4.4
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	3	4	3.9	0.08	23	0.74	17	75.2
Dry	3	55	1.7	0.00	225	7.36	24	10.7

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	16	26.5
Pools ≥1m deep:	2	3.3
Complex pools (LWD pieces ≥3):	11	18.2
Pool Frequency (channel widths/pool):	5.6	
Residual pool depth (avg)	0.48m	

STREAM SUMMARY

COON CREEK (POST-TX)

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	
40	604	4.3	0.33	3,055	4	24	40	18	3	12	113

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,116	36.5
Backwater Pools	144	4.7
Glide	471	15.4
Riffle	476	15.6
Rapid	591	19.3
Cascade	0	0.0
Step	23	0.7
Dry	225	7.4

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	2,296
Total conifers/1000 ft	244
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	0.7	1.3	0.7	13.7	0.7	12.0	2.0	27.0
15-30cm	0.0	5.3	1.0	3.3	0.3	1.3	1.3	10.0
30-50cm	0.0	0.3	0.7	0.3	0.0	0.0	0.7	0.7
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 ²	0.7	7.0	2.3	17.3	1.0	13.3	1.3	12.6

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	76		78		75	
Shrub cover	46		45		34	
Grass/forb cover	48		43		42	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		17		67
High terrace	67		67		17	
Low terrace	0		0		0	
Floodplain	17		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		17	
Riprap	0		0		0	
Surface slope (%)	12		13		46	

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	2,296
Total conifers/1000 ft	244
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	2.0	27.0
15-30cm	1.3	10.0
30-50cm	0.7	0.7
50-90cm	0.0	0.0
>90cm	0.0	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	
9	LF	1	HT	0.0	75	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	5	0	0	0	
9	LF	2	RB	0.0	60	30	50	Conifer	0	3	1	0	0	
								Hardwood	0	0	0	0	0	
9	LF	3	HS	3.0	60	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
9	RT	1	HT	0.0	85	50	45	Conifer	2	0	0	0	0	
								Hardwood	0	0	0	0	0	
9	RT	2	HT	0.0	90	25	60	Conifer	2	0	0	0	0	
								Hardwood	0	4	1	0	0	
9	RT	3	HS	45.0	90	20	50	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
20	LF	1	FP	0.0	70	10	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
20	LF	2	HT	0.0	75	45	50	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
20	LF	3	RB	0.0	50	15	70	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	
20	RT	1	HS	70.0	70	15	75	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	
20	RT	2	HS	80.0	80	10	65	Conifer	0	0	1	0	0	
								Hardwood	19	0	0	0	0	
20	RT	3	HS	100.0	70	50	30	Conifer	1	1	0	0	0	
								Hardwood	2	0	0	0	0	
33	LF	1	HT	0.0	60	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	2	0	0	0	
33	LF	2	HT	0.0	75	80	20	Conifer	0	0	0	0	0	
								Hardwood	22	0	0	0	0	
33	LF	3	HT	0.0	90	60	30	Conifer	0	0	0	0	0	
								Hardwood	31	3	0	0	0	
33	RT	1	HT	0.0	95	90	5	Conifer	0	0	0	0	0	
								Hardwood	3	5	1	0	0	
33	RT	2	HT	0.0	90	80	10	Conifer	0	0	0	0	0	
								Hardwood	0	4	0	0	0	
33	RT	3	HS	130.0	90	30	10	Conifer	1	0	0	0	0	
								Hardwood	1	0	0	0	0	

