

REACH 1

T32S-R14W-36SE

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

Valley Width Index avg: 2.2 range: 2.0-2.5

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
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	593	3,423	4
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 4.7	Width	8.4	16.3	10.5
Depth 0.32	Height	0.6	1.2	1.0
	W:D ratio	14.0	Entrenchment 1.9	

Stream Flow Type: LF Water Temp: 14.0-14.0°C
 Avg. Unit Gradient: 1.8% Habitat Units/100m: 4.2

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	RR
Riparian Vegetation:	D30	M30

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	3%	Reach avg: 96%
Undercut Banks	5%	Range: 78-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	52	8.8
Volume (m ³)	173	29.1
Key pieces ($\geq 10m \times 0.6m$)	10	1.7

REACH 1

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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
DRY CHANNEL	4	179	11.2	0.00	2,027	0	0	16	49	31	4	0
POOL-LATERAL SCOUR	10	145	3.0	0.63	428	2	0	17	48	31	5	1
RIFFLE	8	217	3.9	0.15	767	4	0	12	51	32	6	0
RIFFLE W/ POCKETS	1	42	3.7	0.30	156	6	0	10	40	35	15	0
STEP/COBBLE	2	10	4.6	0.15	45	0	0	10	53	35	3	0
Total:	25	593	4.7	0.32	3,423	12	Avg: 0	14	49	32	5	0

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	0	0	-	-	0	0.00	0	0.0
Scour Pools	10	145	3.0	0.63	428	12.51	2	0.5
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	9	259	3.9	0.17	923	26.97	10	1.1
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	2	10	4.6	0.15	45	1.30	0	0.0
Dry	4	179	11.2	0.00	2,027	59.22	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	10	<u>#/Km</u>	16.9
Pools ≥1m deep:		0		0.0
Complex pools (LWD pieces≥3):		2		3.4
Pool Frequency (channel widths/pool):		7.0		
Residual pool depth (avg)		0.48m		

STREAM SUMMARY

ROCK CREEK (PRE-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	
25	593	4.7	0.32	3,423	0	14	49	32	5	0	12

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	428	12.5
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	923	27.0
Rapid	0	0.0
Cascade	0	0.0
Step	45	1.3
Dry	2,027	59.2

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	1,189
Total conifers/1000 ft	396
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	4.5	1.5	8.5	0.0	3.5	1.5	16.5
15-30cm	0.5	1.0	2.0	0.0	1.0	0.5	3.5	1.5
30-50cm	0.0	0.5	0.0	0.5	1.5	0.0	1.5	1.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5
Total/100m ²	0.5	6.5	3.5	9.0	2.5	4.0	2.2	6.5

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	94		91		75	
Shrub cover	11		1		3	
Grass/forb cover	48		45		50	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
Hillslope	100		100		100	
High terrace	0		0		0	
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 (%)	66		58		58	

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	1,189
Total conifers/1000 ft	396
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	1.5	16.5
15-30cm	3.5	1.5
30-50cm	1.5	1.0
50-90cm	0.0	0.0
>90cm	0.0	0.5

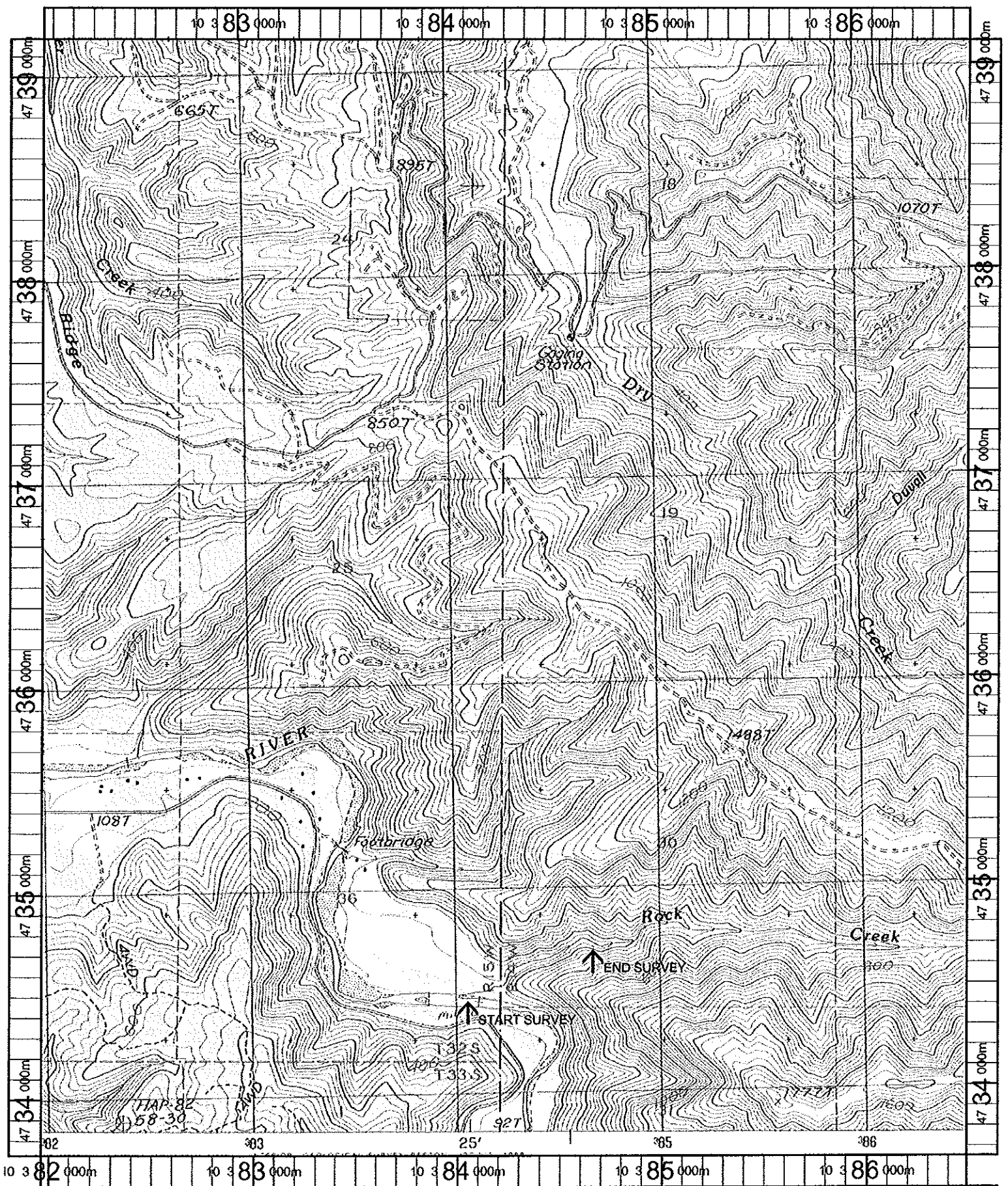
RIPARIAN ZONE VEGETATION

Reach 1

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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	
14	LF	1	HS	60.0	90	0	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	1	MYRTLE
14	LF	2	HS	60.0	100	0	10	Conifer	1	1	0	0	0	
								Hardwood	0	0	0	0	0	HEMLOCK, D. FIR
14	LF	3	HS	60.0	100	0	10	Conifer	0	1	0	0	0	
								Hardwood	1	1	0	0	0	D. FIR, MYRTLE
14	RT	1	HS	50.0	90	40	60	Conifer	0	0	0	0	0	
								Hardwood	7	1	0	0	0	VINE MAPLE, ALDER
14	RT	2	HS	50.0	90	0	90	Conifer	0	0	0	0	0	
								Hardwood	7	0	0	0	0	VINE MAPLE
14	RT	3	HS	50.0	100	0	90	Conifer	0	0	2	0	0	
								Hardwood	3	0	0	0	0	GRAND FIR, VINE MAP
25	LF	1	HS	100.0	95	5	20	Conifer	0	1	0	0	0	
								Hardwood	2	0	0	0	0	D. FIR, MYRTLE
25	LF	2	HS	65.0	85	0	15	Conifer	2	3	0	0	0	
								Hardwood	1	0	0	0	0	D. FIR, CEDAR, MYRT
25	LF	3	HS	65.0	80	5	5	Conifer	0	1	1	0	0	
								Hardwood	1	0	0	0	0	D. FIR, MYRTLE
25	RT	1	HS	55.0	100	0	70	Conifer	0	0	0	0	0	
								Hardwood	0	1	1	0	0	ALDER
25	RT	2	HS	55.0	90	5	65	Conifer	0	0	0	0	0	
								Hardwood	9	0	1	0	0	VINE MAPLE, ALDER
25	RT	3	HS	55.0	20	5	95	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	VINE MAPLE



Name: SIXES
 Date: 11/1/00
 Scale: 1 inch equals 2000 feet

Location: 10 384170 E 4736404 N
 Caption: ROCK CREEK RESTORATION SITE - ELK RIVER BASIN