

REACH 1

T35S-R14W-S10NE

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

Valley Width Index avg: 11.8 range: 1.0-20.0

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	776	1,693	0
Secondary	87	132	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.3	Width	3.1	13.1	0.0
Depth	0.24	Height	0.5	0.9	0.0
		W:D ratio	6.7	Entrenchment	7.7

Stream Flow Type: LF Water Temp: 14.0-14.0°C  
 Avg. Unit Gradient: 3.8% Habitat Units/100m: 7.5

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	7%	Reach avg: 93%
Undercut Banks	0%	Range: 78-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ( $\geq 3m \times 0.15m$ )	148	19.1
Volume (m <sup>3</sup> )	199	25.6
Key pieces ( $\geq 10m \times 0.6m$ )	5	0.6

REACH 1

T35S-R14W-S10NE

REACH 1

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
POOL-LATERAL SCOUR	12	87	2.9	0.57	239	0	10	27	42	21	0	0
POOL-PLUNGE	2	10	3.8	0.53	39	0	13	25	35	28	0	0
POOL-STRAIGHT SCOUR	8	50	3.3	0.50	167	0	8	27	53	11	0	0
RAPID/BOULDERS	9	135	1.7	0.10	233	8	0	6	45	42	7	0
RIFFLE	22	548	1.9	0.10	1,057	0	4	10	58	28	0	0
STEP/COBBLE	8	28	2.4	0.08	78	0	0	5	52	41	3	0
STEP/LOG	4	6	1.8	0.03	11	0	3	24	50	24	0	0
<b>Total:</b>	<b>65</b>	<b>863</b>	<b>2.3</b>	<b>0.24</b>	<b>1,825</b>	<b>8</b>	<b>Avg: 5</b>	<b>15</b>	<b>51</b>	<b>28</b>	<b>1</b>	<b>0</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	#/100m <sup>2</sup>
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	22	147	3.1	0.54	445	24.38	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	22	548	1.9	0.10	1,057	57.92	0	0.0
Rapids	9	135	1.7	0.10	233	12.79	8	3.4
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	12	34	2.2	0.06	90	4.91	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	22	25.5
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	8	9.3
Pool Frequency (channel widths/pool):	12.5	
Residual pool depth (avg)	0.47m	

STREAM SUMMARY

BOULDER CREEK POST-TX (#72)

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	
65	863	2.3	0.24	1,825	5	15	51	28	1	0	8

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	445	24.4
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	1,057	57.9
Rapid	233	12.8
Cascade	0	0.0
Step	90	4.9
Dry	0	0.0

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft 1,422  
 Total conifers/1000 ft 366  
 Total conifers >20" dbh/1000 ft 20  
 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	5.0	1.0	4.0	1.3	4.7	2.3	13.7
15-30cm	0.0	3.7	0.3	1.3	1.7	3.0	2.0	8.0
30-50cm	0.0	0.7	0.7	0.7	0.7	0.3	1.3	1.7
50-90cm	0.0	0.0	0.0	0.0	0.3	0.0	0.3	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	9.3	2.0	6.0	4.0	8.0	2.0	7.8

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	28		43		49	
Shrub cover	28		20		13	
Grass/forb cover	47		42		38	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		33		83
High terrace	50		33		17	
Low terrace	50		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		17		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	6		26		32	

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	1,422
Total conifers/1000 ft	366
Total conifers >20" dbh/1000 ft	20

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	2.3	13.7
15-30cm	2.0	8.0
30-50cm	1.3	1.7
50-90cm	0.3	0.0
>90cm	0.0	0.0

---

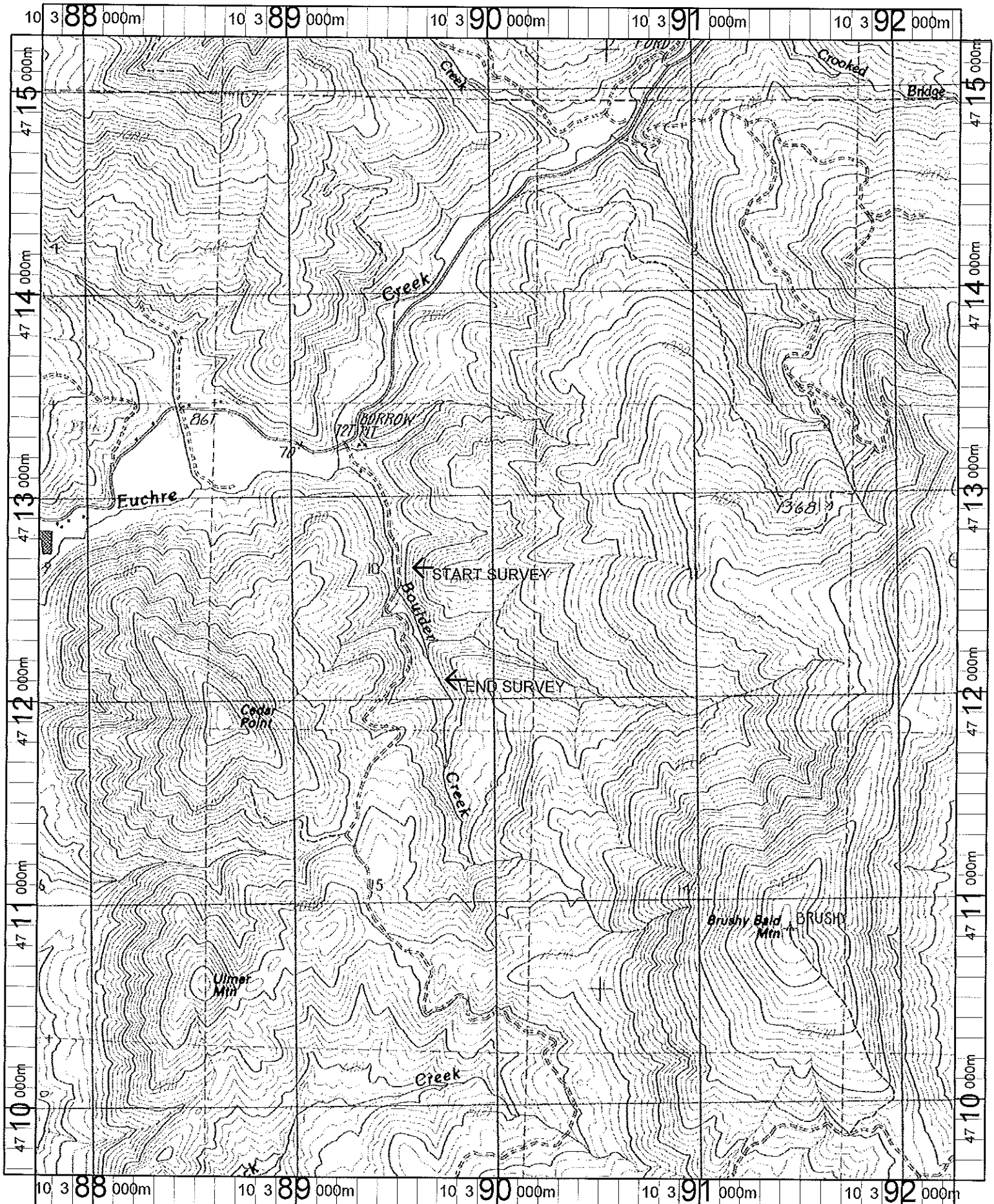
RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

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	
12	LF	1	LT	2.0	30	15	60	Conifer	0	0	0	0	0	
								Hardwood	2	3	1	0	0	
12	LF	2	SC	30.0	70	10	50	Conifer	3	1	2	0	0	
								Hardwood	0	0	0	0	0	
12	LF	3	HS	55.0	80	10	50	Conifer	2	2	1	1	0	
								Hardwood	4	0	0	0	0	D. FIR
12	RT	1	LT	0.0	5	10	80	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	
12	RT	2	LT	5.0	15	10	65	Conifer	0	0	0	0	0	
								Hardwood	3	1	1	0	0	
12	RT	3	HS	21.0	65	10	35	Conifer	1	1	1	0	0	
								Hardwood	7	1	1	0	0	
38	LF	1	HT	5.0	45	40	40	Conifer	0	0	0	0	0	
								Hardwood	4	7	0	0	0	
38	LF	2	HS	70.0	70	10	70	Conifer	0	0	0	0	0	
								Hardwood	3	3	0	0	0	
38	LF	3	HS	40.0	75	5	55	Conifer	0	0	0	0	0	
								Hardwood	0	6	0	0	0	
38	RT	1	LT	5.0	10	15	40	Conifer	0	0	0	0	0	
								Hardwood	4	0	0	0	0	
38	RT	2	HT	5.0	65	70	5	Conifer	0	0	0	0	0	
								Hardwood	4	0	1	0	0	CASCARA
38	RT	3	HS	35.0	55	40	40	Conifer	1	2	0	0	0	
								Hardwood	1	2	0	0	0	
56	LF	1	HT	25.0	60	50	20	Conifer	0	0	0	0	0	
								Hardwood	3	0	1	0	0	
56	LF	2	HS	45.0	40	20	40	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	TIMBER HARVEST
56	LF	3	HS	40.0	20	10	30	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	TIMBER HARVEST
56	RT	1	HT	0.0	20	35	40	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	NO TREES - TIMBER H
56	RT	2	HT	0.0	0	0	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
56	RT	3	HT	0.0	0	0	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	NO TREES - TIMBER H



Name: BRUSHY BALD MT  
 Date: 1/10/2002  
 Scale: 1 inch equals 2000 feet

Location: 10 390030 E 4712439 N  
 Caption: BOULDER CREEK RESTORATION SITE - EUCHRE BASIN