

REACH 1

T15S-R10W-S15NW

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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: 3.5 range: 1.2-6.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	100	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	546	3,241	0
Secondary	35	53	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	5.3	Width	9.9	15.2	19.3
Depth	0.35	Height	0.5	1.0	2.1
		W:D ratio	20.9	Entrenchment	1.5

Stream Flow Type: LF Water Temp: 12.5-12.5°C
 Avg. Unit Gradient: 1.9% Habitat Units/100m: 5.2

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	3%	Reach avg: 60%
Undercut Banks	11%	Range: 33- 94

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	59	10.8
Volume (m ³)	79	14.5
Key pieces ($\geq 10m \times 0.6m$)	2	0.4

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
POOL-BACKWATER	1	14	1.5	0.45	20	0	100	0	0	0	0	0
POOL-LATERAL SCOUR	10	250	6.4	0.75	1,632	9	10	14	28	26	6	17
RAPID/BEDROCK	3	75	5.6	0.12	422	5	0	5	18	24	7	47
RAPID/BOULDERS	5	72	3.7	0.12	324	3	0	7	30	42	10	12
RIFFLE	8	152	4.2	0.16	708	4	4	9	33	37	8	10
STEP/COBBLE	3	19	7.9	0.08	188	3	0	3	26	49	13	8
Total:	30	581	5.3	0.35	3,294	24	Avg: 8	9	27	33	8	16

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	1	14	1.5	0.45	20	0.62	0	0.0
Scour Pools	10	250	6.4	0.75	1,632	49.55	9	0.6
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	8	152	4.2	0.16	708	21.49	4	0.6
Rapids	8	147	4.5	0.12	746	22.64	8	1.1
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	3	19	7.9	0.08	188	5.70	3	1.6
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	11	18.9
Pools ≥1m deep:	2	3.4
Complex pools (LWD pieces ≥3):	2	3.4
Pool Frequency (channel widths/pool):	5.4	
Residual pool depth (avg)	0.60m	

STREAM SUMMARY

BUCK CREEK PRE-TX (#74)

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	
30	581	5.3	0.35	3,294	8	9	27	33	8	16	24

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,632	49.6
Backwater Pools	20	0.6
Glide	0	0.0
Riffle	708	21.5
Rapid	746	22.6
Cascade	0	0.0
Step	188	5.7
Dry	0	0.0

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

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

Total hardwoods/1000 ft	1,829
Total conifers/1000 ft	183
Total conifers >20" dbh/1000 ft	20
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	6.0	0.7	13.7	1.0	7.0	1.7	26.7
15-30cm	0.0	0.3	0.0	1.0	0.0	0.0	0.0	1.3
30-50cm	0.0	1.0	0.3	0.0	0.7	0.3	1.0	1.3
50-90cm	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7
>90cm	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
Total/100m ²	0.0	8.0	1.3	14.7	1.7	7.3	1.0	10.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	55		60		39	
Shrub cover	48		44		60	
Grass/forb cover	49		56		40	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	83		67		83
High terrace	17		17		17	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		0	
Riprap	0		0		0	
Surface slope (%)	40		18		23	

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	1,829
Total conifers/1000 ft	183
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	1.7	26.7
15-30cm	0.0	1.3
30-50cm	1.0	1.3
50-90cm	0.0	0.7
>90cm	0.3	0.0

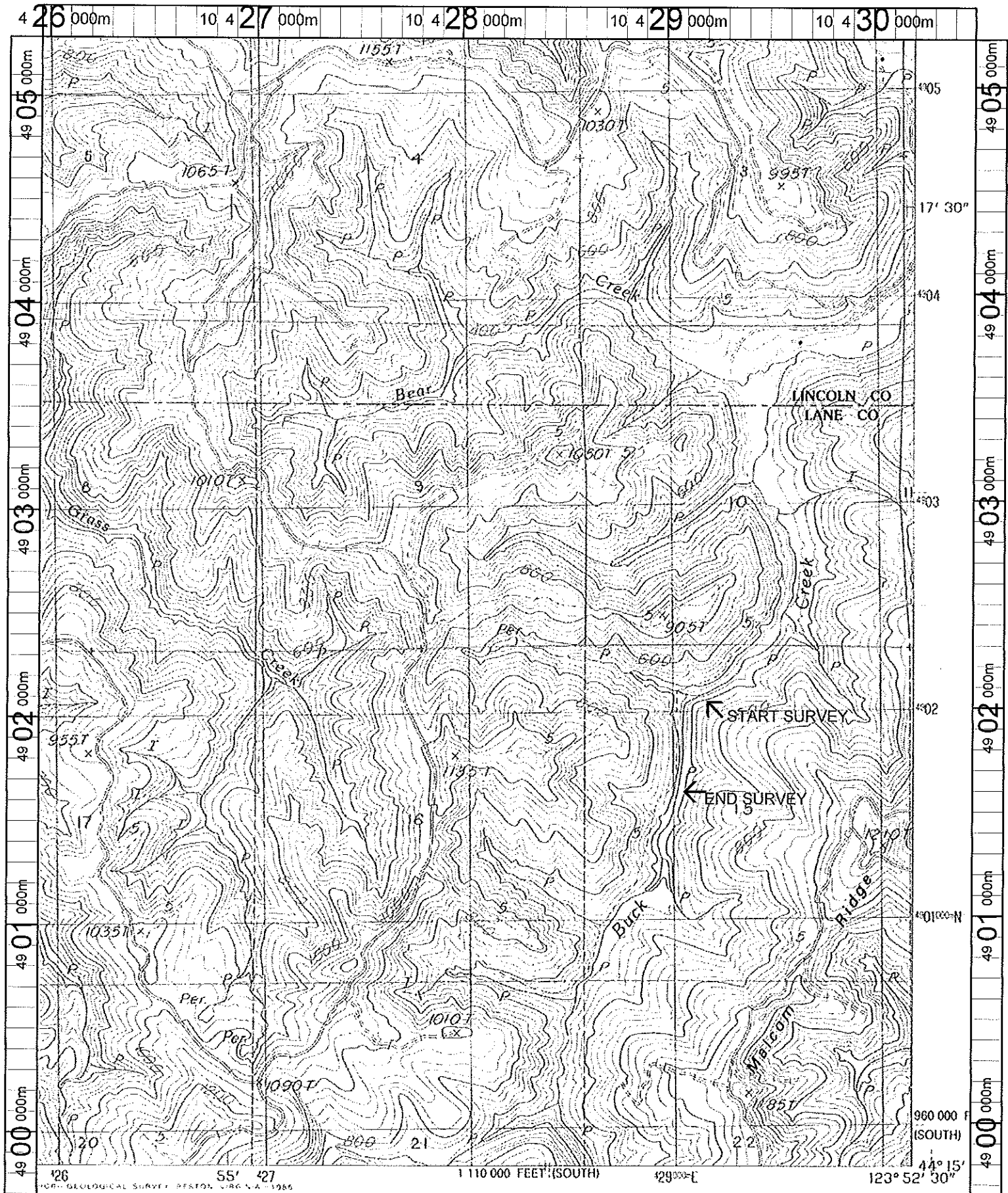
RIPARIAN ZONE VEGETATION

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	
8	LF	1	HS	70.0	60	40	45	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
8	LF	2	HS	30.0	60	40	60	Conifer	0	0	1	0	0	
								Hardwood	1	1	0	0	0	
8	LF	3	HS	25.0	40	30	70	Conifer	0	0	2	0	0	
								Hardwood	0	0	0	0	0	
8	RT	1	HS	25.0	60	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	2	0	0	
8	RT	2	RB	0.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	1	0	0	0	
8	RT	3	HS	40.0	95	55	45	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	0	0	
15	LF	1	HS	55.0	90	40	60	Conifer	0	0	0	0	0	
								Hardwood	6	0	0	1	0	
15	LF	2	HS	20.0	20	30	70	Conifer	1	0	0	0	0	
								Hardwood	5	0	0	0	0	
15	LF	3	HS	20.0	30	40	60	Conifer	0	0	0	0	0	
								Hardwood	7	0	0	0	0	
15	RT	1	HT	0.0	60	55	45	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
15	RT	2	HT	0.0	70	65	35	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	
15	RT	3	HT	0.0	40	50	50	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	
21	LF	1	HS	55.0	20	20	75	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	1	0	
21	LF	2	HS	40.0	30	15	85	Conifer	0	0	0	0	1	
								Hardwood	0	1	0	0	0	
21	LF	3	HS	10.0	0	95	5	Conifer	1	0	0	0	0	
								Hardwood	0	0	0	0	0	
21	RT	1	HS	35.0	40	90	10	Conifer	0	0	0	0	0	
								Hardwood	6	0	1	0	0	
21	RT	2	HS	20.0	90	95	5	Conifer	1	0	0	0	0	
								Hardwood	28	0	0	0	0	
21	RT	3	HS	40.0	30	90	10	Conifer	2	0	0	0	0	
								Hardwood	8	0	0	0	0	



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

Location: 10 428194 E 4902459 N
 Caption: BUCK CREEK RESTORATION SITE - ALSA BASIN