

REACH 1

T11S-R2E-S29SE

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

Valley Width Index avg: 1.3 range: 1.1-1.8

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	490	2,837	0
Secondary	92	223	1

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 5.4	11.1	15.6	0.0
Depth 0.39	0.6	1.1	0.0
W:D ratio	20.3	Entrenchment 1.4	

Stream Flow Type: LF Water Temp: 12.5-12.5°C
Avg. Unit Gradient: 6.1% Habitat Units/100m: 5.5

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	1%	Reach avg: 96%
Undercut Banks	6%	Range: 86-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	72	14.7
Volume (m ³)	146	29.8
Key pieces ($\geq 10m \times 0.6m$)	5	1.0

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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
CASCADE/BEDROCK	1	26	5.5	0.30	140	7	5	5	0	0	15	75
CASCADE/BOULDERS	6	144	5.7	0.43	823	126	4	7	13	29	42	6
POOL-LATERAL SCOUR	2	21	4.1	0.45	92	9	20	18	15	38	8	3
POOL-PLUNGE	1	10	12.8	1.10	128	0	7	13	15	20	15	30
POOL-STRAIGHT SCOUR	2	27	5.4	0.80	145	23	4	14	18	32	18	13
PUDDLED CHANNEL	1	30	1.2	0.03	36	17	5	20	25	30	20	0
RAPID/BOULDERS	12	267	5.2	0.34	1,432	194	5	8	16	32	34	5
RIFFLE	3	42	3.7	0.37	166	29	4	8	22	47	18	2
STEP/BEDROCK	3	12	7.4	0.18	87	0	3	1	0	0	0	97
STEP/BOULDERS	1	2	5.1	0.23	10	7	3	2	0	0	90	5
Total:	32	581	5.4	0.39	3,060	412	Avg: 5	8	14	28	28	17

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Area Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	5	59	6.3	0.72	365	11.94	32	8.8
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	3	42	3.7	0.37	166	5.42	29	17.5
Rapids	12	267	5.2	0.34	1,432	46.81	194	13.5
Cascades	7	170	5.7	0.41	964	31.48	133	13.8
Step/Falls	4	14	6.8	0.20	97	3.17	7	7.2
Dry	1	30	1.2	0.03	36	1.18	17	47.2

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	5	8.6
Pools ≥1m deep:	1	1.7
Complex pools (LWD pieces≥3):	1	1.7
Pool Frequency (channel widths/pool):	10.5	
Residual pool depth (avg)	0.61m	

STREAM SUMMARY

S FK CRABTREE PRE-TX (#101)

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	
32	581	5.4	0.39	3,060	5	8	14	28	28	17	412

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	365	11.9
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	166	5.4
Rapid	1,432	46.8
Cascade	964	31.5
Step	97	3.2
Dry	36	1.2

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RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000 ft	792
Total conifers/1000 ft	1,158
Total conifers >20" dbh/1000 ft	61
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	2.0	1.0	3.3	0.7	1.3	2.3	6.7	4.0
15-30cm	1.3	6.7	5.0	0.7	2.3	0.0	8.7	7.3
30-50cm	0.3	1.3	0.7	0.3	1.7	0.0	2.7	1.7
50-90cm	0.0	0.0	0.7	0.0	0.3	0.0	1.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	3.7	9.0	9.7	1.7	5.7	2.3	6.3	4.3

Canopy closure and ground cover

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	(%)	(%)	(%)
Canopy closure	91	86	88
Shrub cover	20	23	25
Grass/forb cover	68	72	73

Predominant landform in each zone

	Zone 1 0-10 meters	Zone 2 10-20 meters	Zone 3 20-30 meters
	Hillslope	83	100
High terrace	0	0	0
Low terrace	0	0	0
Floodplain	17	0	0
Wetland/meadow	0	0	0
Stream channel	0	0	0
Roadbed/Railroad	0	0	0
Riprap	0	0	0
Surface slope (%)	40	46	48

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	792
Total conifers/1000 ft	1,158
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	6.7	4.0
15-30cm	8.7	7.3
30-50cm	2.7	1.7
50-90cm	1.0	0.0
>90cm	0.0	0.0

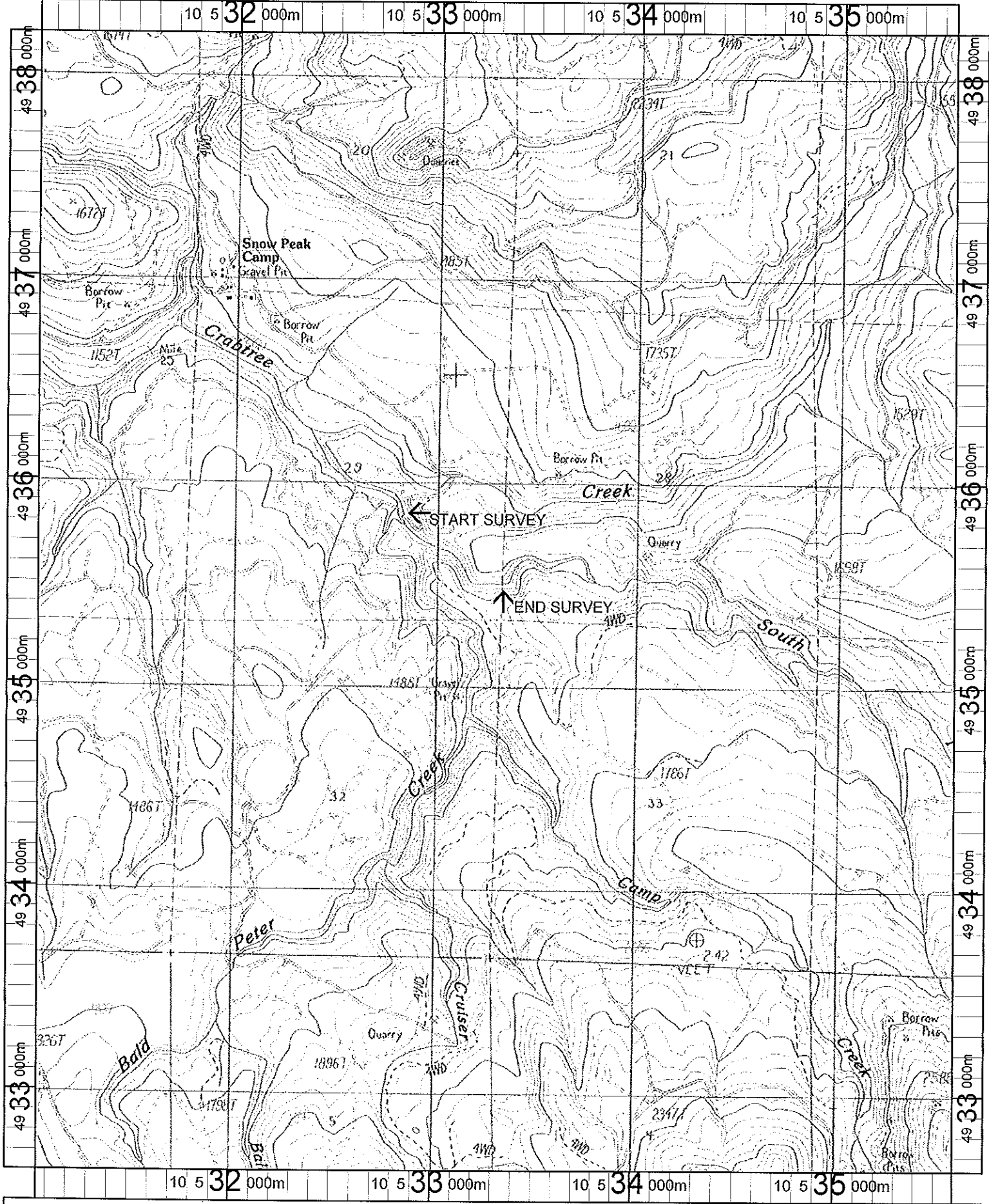
RIPARIAN ZONE VEGETATION

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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	
6	LF	1	HS	20.0	85	15	80	Conifer	1	0	0	0	0	
								Hardwood	1	8	0	0	0	
6	LF	2	HS	40.0	95	20	70	Conifer	2	5	1	0	0	
								Hardwood	0	2	1	0	0	
6	LF	3	HS	40.0	90	35	65	Conifer	0	1	2	0	0	
								Hardwood	1	0	0	0	0	
6	RT	1	HS	55.0	95	15	75	Conifer	2	0	0	0	0	
								Hardwood	0	4	1	0	0	
6	RT	2	HS	40.0	90	20	75	Conifer	2	3	1	0	0	
								Hardwood	0	0	0	0	0	
6	RT	3	HS	50.0	95	15	80	Conifer	1	2	1	0	0	
								Hardwood	1	0	0	0	0	
21	LF	1	FP	0.0	95	50	40	Conifer	0	0	0	0	0	
								Hardwood	2	2	1	0	0	
21	LF	2	HS	55.0	90	25	70	Conifer	0	2	0	1	0	
								Hardwood	1	0	0	0	0	
21	LF	3	HS	50.0	95	35	60	Conifer	0	1	1	0	0	
								Hardwood	2	0	0	0	0	
21	RT	1	HS	55.0	95	10	80	Conifer	2	2	1	0	0	
								Hardwood	0	1	0	0	0	
21	RT	2	HS	50.0	95	10	90	Conifer	2	3	0	0	0	
								Hardwood	0	0	0	0	0	
21	RT	3	HS	50.0	90	20	80	Conifer	1	1	0	0	0	
								Hardwood	0	0	0	0	0	
25	LF	1	HS	60.0	80	20	50	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
25	LF	2	HS	40.0	60	30	65	Conifer	2	1	0	1	0	
								Hardwood	1	0	0	0	0	
25	LF	3	HS	45.0	70	30	70	Conifer	1	1	0	0	0	
								Hardwood	3	0	0	0	0	
25	RT	1	HS	50.0	95	10	80	Conifer	1	2	0	0	0	
								Hardwood	0	3	2	0	0	
25	RT	2	HS	50.0	85	30	60	Conifer	2	1	0	0	0	
								Hardwood	0	0	0	0	0	
25	RT	3	HS	55.0	85	15	80	Conifer	1	1	1	1	0	
								Hardwood	0	0	0	0	0	



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

Location: 10 533307 E 4935414 N
 Caption: SOUTH FORK CRABTREE CREEK RESTORATION
 SITE - S. SANTIAM BASIN