

REACH SUMMARY

REACH 1

T11S-R2E-S29SE

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

Valley Width Index avg: 1.7 range: 1.5-2.0

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	509	3,974	0
Secondary	49	155	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	6.9	Width	10.3	17.1	18.7
Depth	0.42	Height	0.8	1.6	1.9
		W:D ratio	13.1	Entrenchment	1.7

Stream Flow Type: MF Water Temp: 4.0-4.0°C
Avg. Unit Gradient: 4.9% Habitat Units/100m: 4.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	C30	P

Bank Condition and Shade

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

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces (≥3m x 0.15m)	64	12.6
Volume (m ³)	197	38.7
Key pieces (≥10m x 0.6m)	3	0.6

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
CASCADE/BEDROCK	1	19	6.7	0.15	125	0	0	0	0	5	5	90
CASCADE/BOULDERS	7	208	8.2	0.29	1,828	0	1	2	30	32	32	2
POOL-LATERAL SCOUR	4	57	5.6	0.78	327	0	8	9	45	26	6	6
POOL-PLUNGE	1	11	10.3	1.10	110	0	0	5	20	25	5	45
POOL-STRAIGHT SCOUR	2	23	5.9	1.10	133	0	3	5	28	25	38	3
RAPID/BOULDERS	5	108	5.4	0.22	690	0	1	4	38	42	15	0
RIFFLE W/ POCKETS	5	124	6.9	0.30	848	0	0	2	29	30	16	23
STEP/BEDROCK	2	8	7.5	0.07	68	0	0	0	0	0	5	95
Total:	27	558	6.9	0.42	4,129	0	Avg: 2	4	30	29	19	18

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	7	90	6.3	0.91	570	13.81	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	5	124	6.9	0.30	848	20.54	0	0.0
Rapids	5	108	5.4	0.22	690	16.70	0	0.0
Cascades	8	227	8.1	0.27	1,953	47.30	0	0.0
Step/Falls	2	8	7.5	0.07	68	1.65	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

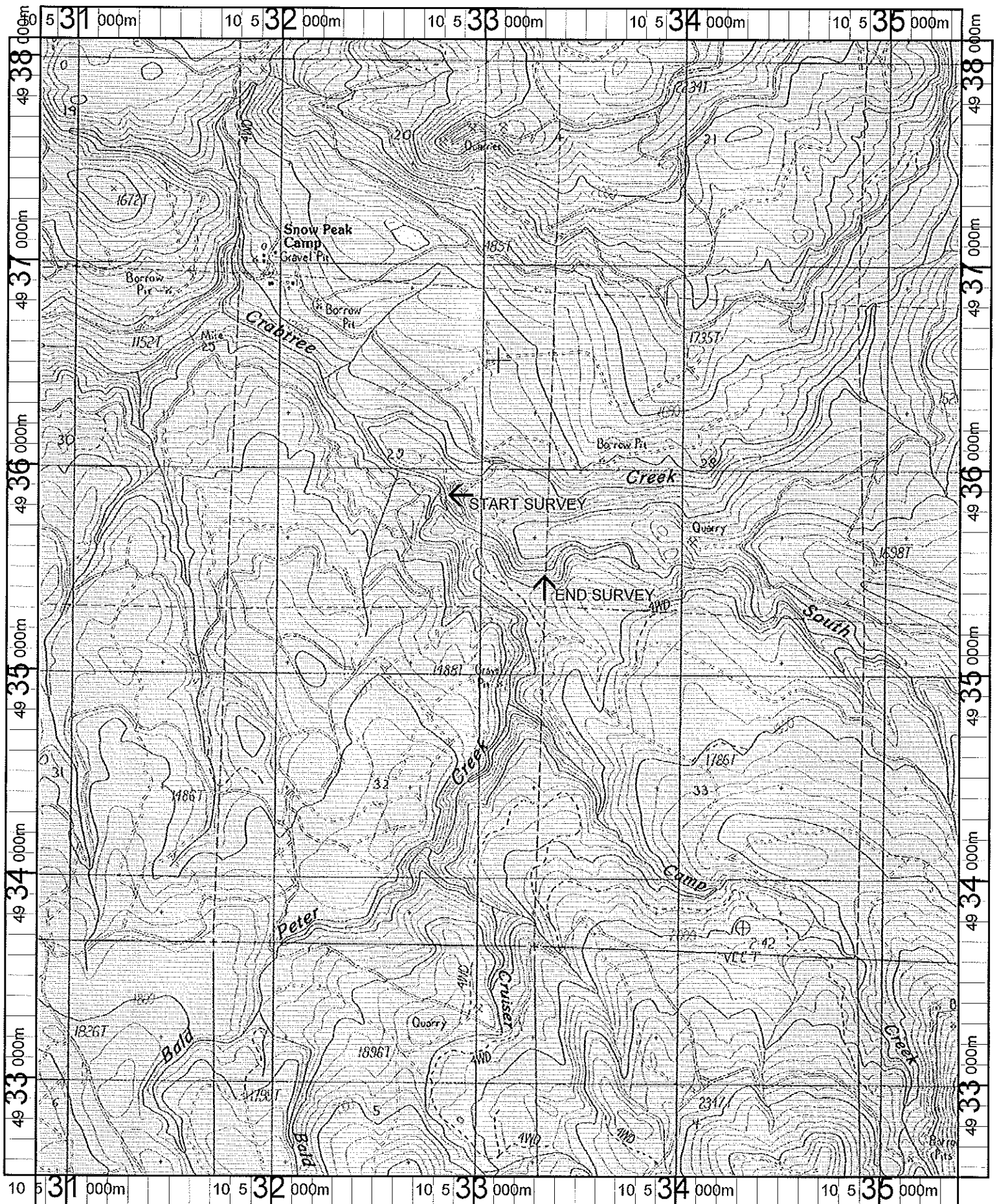
All Pools	<u>Total</u>	<u>#/Km</u>
	7	12.6
Pools ≥1m deep:	4	7.2
Complex pools (LWD pieces ≥3):	2	3.6
Pool Frequency (channel widths/pool):	7.7	
Residual pool depth (avg)	0.58m	

STREAM SUMMARY

SF CRABTREE 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	
27	558	6.9	0.42	4,129	2	4	30	29	19	18	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	570	13.8
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	848	20.5
Rapid	690	16.7
Cascade	1,953	47.3
Step	68	1.6
Dry	0	0.0



Name: KEEL MT
 Date: 5/29/101
 Scale: 1 inch equals 2000 feet

Location: 10 533007 E 4935299 N
 Caption: SOUTH FORK CRABTREE CREEK RESTORATION
 SITE - S. SANTIAM BASIN