

REACH SUMMARY

REACH 1

T20S-R7W-S26NE

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: 7.6 range: 6.0-10.0

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	518	3,213	0
Secondary	8	22	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 5.7	8.7	12.8	14.4
Depth 0.50	Height 0.6	1.1	1.5
	W:D ratio 15.2	Entrenchment 1.5	

Stream Flow Type: MF Water Temp: 6.0-6.0°C  
 Avg. Unit Gradient: 0.7% Habitat Units/100m: 4.9

Riparian, Bank, and Wood Summary

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

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 ( $\geq 3m \times 0.15m$ )	32	6.2
Volume (m <sup>3</sup> )	46	8.9
Key pieces ( $\geq 10m \times 0.6m$ )	2	0.4

HABITAT UNIT SUMMARY

REACH 1 T20S-R7W-S26NE 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-BACKWATER	1	3	3.7	0.40	10	0	10	30	5	5	0	50
POOL-DAMMED	1	16	7.7	0.70	121	0	21	58	16	0	0	5
POOL-ISOLATED	1	6	2.2	0.50	12	0	40	60	0	0	0	0
POOL-LATERAL SCOUR	11	243	6.1	0.75	1,545	0	7	22	16	4	1	50
POOL-PLUNGE	1	14	7.8	0.80	108	0	10	25	10	10	5	40
RIFFLE	10	245	5.8	0.23	1,439	0	1	13	30	15	1	39
STEP/LOG	1	1	2.0	0.04	1	0	20	70	10	0	0	0
<b>Total:</b>	<b>26</b>	<b>526</b>	<b>5.7</b>	<b>0.50</b>	<b>3,235</b>	<b>0</b>	<b>Avg: 7</b>	<b>24</b>	<b>20</b>	<b>8</b>	<b>1</b>	<b>40</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Area Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	3	24	4.5	0.53	143	4.41	0	0.0
Scour Pools	12	256	6.3	0.75	1,652	51.07	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	10	245	5.8	0.23	1,439	44.47	0	0.0
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	1	1	2.0	0.04	1	0.04	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

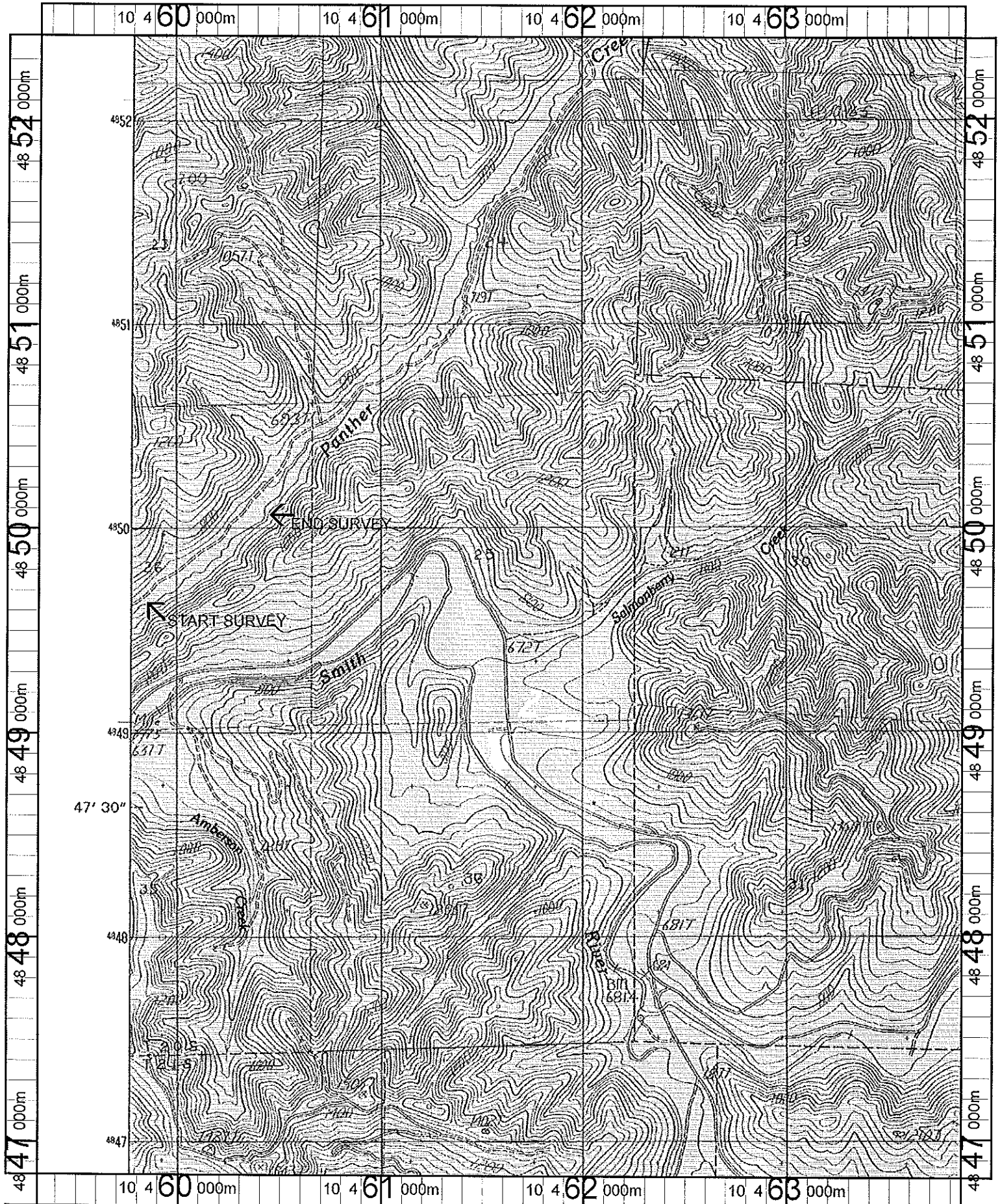
All Pools	<u>Total</u>	<u>#/Km</u>
	15	28.5
Pools ≥1m deep:	1	1.9
Complex pools (LWD pieces ≥3):	2	3.8
Pool Frequency (channel widths/pool):	4.0	
Residual pool depth (avg)	0.58m	

STREAM SUMMARY

PANTHER CREEK PRE-TX

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	
26	526	5.7	0.50	3,235	7	24	20	8	1	40	0

Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Scour Pool	1,652	51.1
Backwater Pools	143	4.4
Glide	0	0.0
Riffle	1,439	44.5
Rapid	0	0.0
Cascade	0	0.0
Step	1	**.*
Dry	0	0.0



Name: BEAVER CREEK  
 Date: 5/30/101  
 Scale: 1 inch equals 2000 feet

Location: 10 461500 E 4849600 N  
 Caption: PANTHER CREEK RESTORATION SITE - SMITH BASIN