

REACH SUMMARY

REACH 1

T1N-R7W-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	100
Moderate V-shape	0	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 5.4 range: 4.0-6.0

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	464	2,676	0
Secondary	134	254	2

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.7	Width	10.4	17.9	19.1
Depth	0.35	Height	0.6	1.2	1.3
		W:D ratio	18.3	Entrenchment	1.8

Stream Flow Type: MF Water Temp: 6.0-6.0°C
 Avg. Unit Gradient: 2.4% Habitat Units/100m: 6.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D30	D15

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)	117	25.2
Volume (m ³)	236	50.9
Key pieces (≥10m x 0.6m)	12	2.6

HABITAT UNIT SUMMARY

REACH 1

T1N-R7W-S10NE

REACH 1

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/BOULDERS	5	79	2.9	0.18	218	0	9	16	24	27	24	0
DRY UNITS	1	9	4.0	0.00	36	0	10	10	30	40	10	0
GLIDE	1	19	4.6	0.30	85	0	5	15	35	40	5	0
POOL-ALCOVE	1	13	1.5	0.05	19	0	50	50	0	0	0	0
POOL-BACKWATER	1	4	2.0	0.40	8	0	0	15	40	35	10	0
POOL-ISOLATED	2	13	1.8	0.33	26	0	55	45	0	0	0	0
POOL-LATERAL SCOUR	11	104	5.5	0.61	590	0	3	18	37	26	13	3
POOL-PLUNGE	1	34	2.1	0.10	70	0	20	20	10	30	20	0
PUDDLED CHANNEL	1	11	0.8	0.05	9	0	0	10	0	20	70	0
RAPID/BOULDERS	8	240	6.2	0.27	1,407	0	0	10	24	38	28	1
RIFFLE	3	68	6.4	0.28	431	0	0	12	27	38	23	0
STEP/BOULDERS	1	5	6.2	0.30	32	0	0	10	15	25	50	0
Total:	36	598	4.7	0.35	2,930	0	Avg: 8	17	26	29	20	1

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	4	29	1.8	0.28	53	1.80	0	0.0
Scour Pools	12	138	5.2	0.57	660	22.53	0	0.0
Glides	1	19	4.6	0.30	85	2.90	0	0.0
Riffles	3	68	6.4	0.28	431	14.71	0	0.0
Rapids	8	240	6.2	0.27	1,407	48.01	0	0.0
Cascades	5	79	2.9	0.18	218	7.44	0	0.0
Step/Falls	1	5	6.2	0.30	32	1.08	0	0.0
Dry	2	20	2.4	0.03	45	1.53	0	0.0

POOL SUMMARY

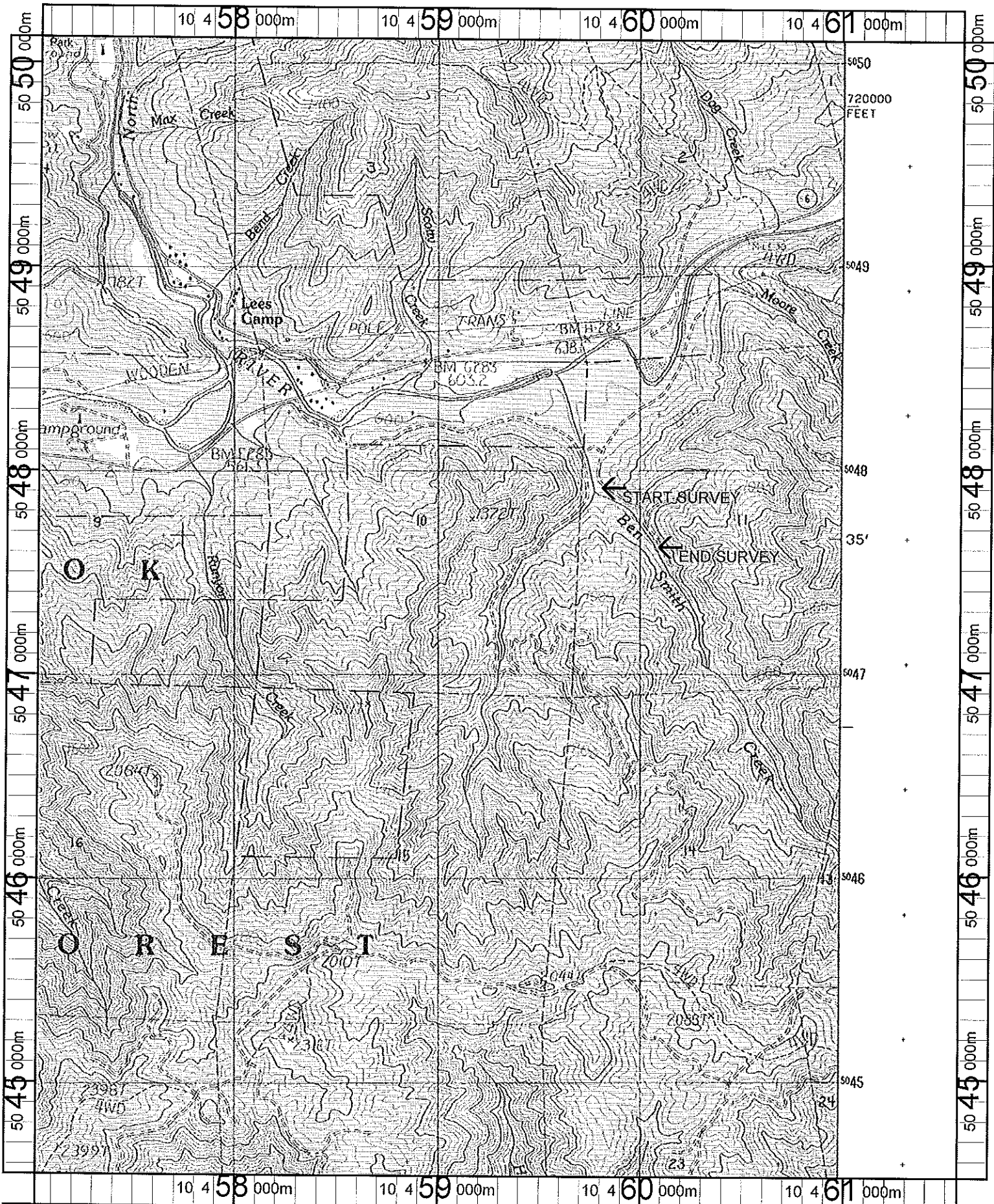
	<u>Total</u>	<u>#/Km</u>
All Pools	16	26.8
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	8	13.4
Pool Frequency (channel widths/pool):	3.6	
Residual pool depth (avg)	0.32m	

STREAM SUMMARY

BEN SMITH CREEK POST-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	
36	598	4.7	0.35	2,930	8	17	26	29	20	1	0

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	660	22.5
Backwater Pools	53	1.8
Glide	85	2.9
Riffle	431	14.7
Rapid	1,407	48.0
Cascade	218	7.4
Step	32	1.1
Dry	45	1.5



Name: JORDAN CREEK
 Date: 5/29/10
 Scale: 1 inch equals 2000 feet

Location: 10 459211 E 5047307 N
 Caption: BEN SMITH RESTORATION SITE - WILSON BASIN