

REACH 1

T5N-R8W-18SE

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

Valley Width Index avg: 9.2 range: 6.0-15.0

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	364	1,450	0
Secondary	82	210	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.6	Width	5.5	7.5	9.7
Depth	0.29	Height	0.4	0.7	1.1
		W:D ratio	14.6	Entrenchment	1.4

Stream Flow Type: MF Water Temp: 7.5-7.5°C  
Avg. Unit Gradient: 2.0% Habitat Units/100m: 8.1

Riparian, Bank, and Wood Summary

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

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)	88	24.2
Volume (m <sup>3</sup> )	172	47.3
Key pieces (≥10m x 0.6m)	4	1.1

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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-ALCOVE	2	20	5.6	0.23	136	0	100	0	0	0	0	0
POOL-BACKWATER	3	11	1.8	0.43	19	0	30	35	23	12	0	0
POOL-ISOLATED	2	8	1.7	0.30	14	0	5	35	58	3	0	0
POOL-LATERAL SCOUR	7	61	4.2	0.59	248	0	9	11	51	14	1	0
POOL-PLUNGE	2	12	6.5	0.63	82	0	5	23	25	48	0	0
POOL-STRAIGHT SCOUR	1	10	4.0	0.50	40	0	10	10	80	0	0	0
RAPID/BOULDERS	3	65	2.9	0.13	229	0	3	10	73	12	2	0
RIFFLE	11	251	3.4	0.13	870	0	3	14	79	4	0	0
STEP/BEDROCK	1	2	0.8	0.05	1	0	85	5	5	5	0	0
STEP/COBBLE	1	5	3.2	0.10	15	0	5	5	90	0	0	0
STEP/LOG	3	2	4.4	0.04	6	0	0	27	73	0	0	0
<b>Total:</b>	<b>36</b>	<b>446</b>	<b>3.6</b>	<b>0.29</b>	<b>1,660</b>	<b>0</b>	<b>Avg:14</b>	<b>16</b>	<b>58</b>	<b>9</b>	<b>0</b>	<b>0</b>

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m <sup>2</sup> )	Percent	Large Boulders Number	#/100m <sup>2</sup>
Dammed & BW Pools	7	39	2.8	0.34	169	10.17	0	0.0
Scour Pools	10	83	4.6	0.59	370	22.26	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	11	251	3.4	0.13	870	52.42	0	0.0
Rapids	3	65	2.9	0.13	229	13.77	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	5	8	3.4	0.05	23	1.39	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	17	38.2
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	4	9.0
Pool Frequency (channel widths/pool):	4.7	
Residual pool depth (avg)	0.41m	

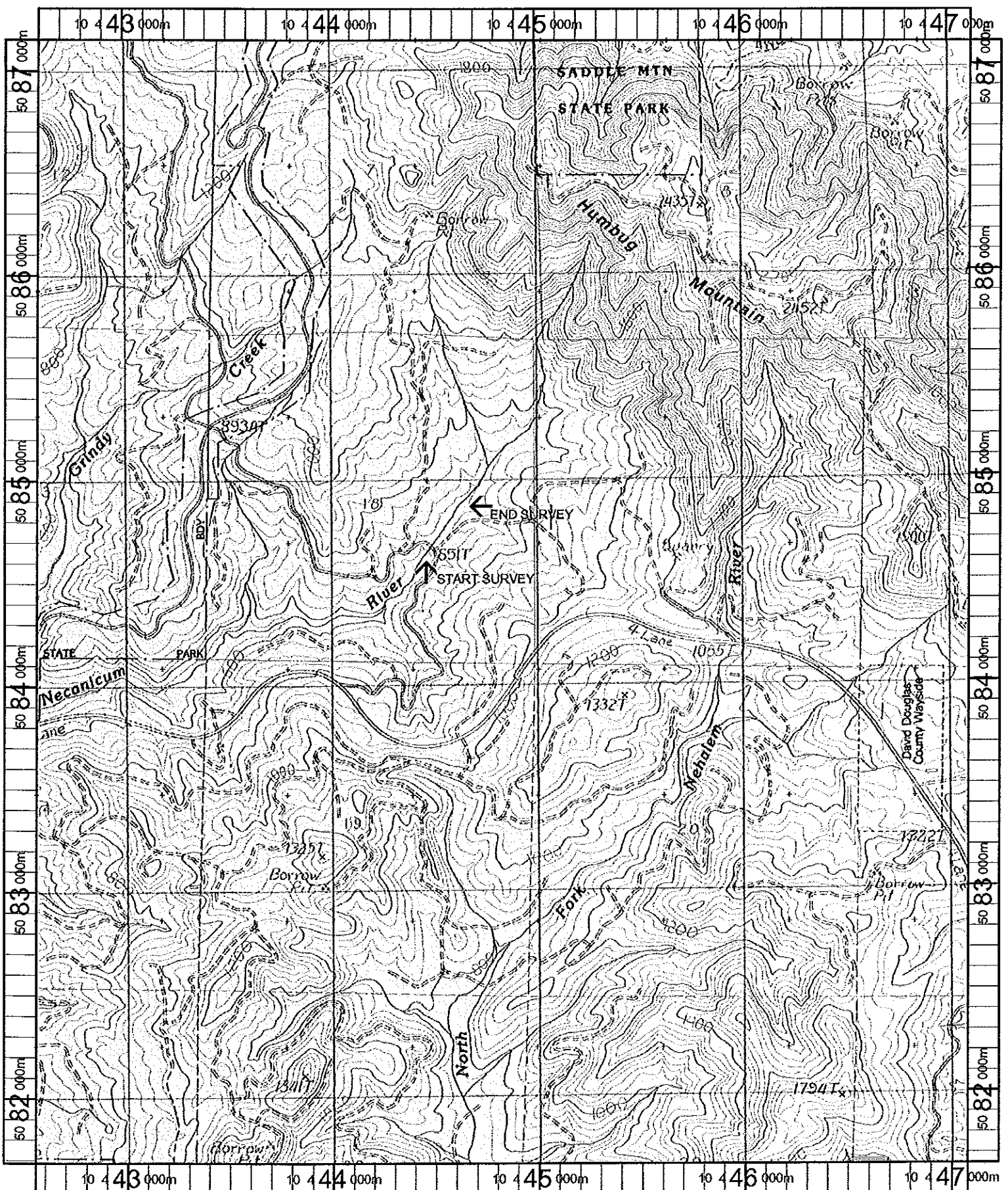
STREAM SUMMARY

UPPER NECANICUM (POST-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	
36	446	3.6	0.29	1,660	14	16	58	9	0	0	0

Wetted Area

Habitat Group	(m <sup>2</sup> )	Percent
Scour Pool	370	22.3
Backwater Pools	169	10.2
Glide	0	0.0
Riffle	870	52.4
Rapid	229	13.8
Cascade	0	0.0
Step	23	1.4
Dry	0	0.0



Name: SADDLE MT  
 Date: 10/16/100  
 Scale: 1 inch equals 2000 feet

Location: 10 44737 E 5084383 N  
 Caption: UPPER NECHANICUM RIVER RESTORATION SITE - NECHANICUM BASIN