

REACH 1

T23S-R10W-8SE

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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: 1.9 range: 1.3-2.3

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	483	2,761	0
Secondary	48	76	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 5.2	Width 9.5	15.7	12.7
Depth 0.57	Height 0.6	1.1	1.2
	W:D ratio 17.4	Entrenchment 1.8	

Stream Flow Type: MF Water Temp: 6.0-6.0°C
 Avg. Unit Gradient: 1.4% Habitat Units/100m: 6.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
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 ($\geq 3m \times 0.15m$)	128	26.5
Volume (m ³)	129	26.7
Key pieces ($\geq 10m \times 0.6m$)	1	0.2

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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	Chbl	Bldr	Bdrk
CASCADE/BOULDERS	1	10	1.2	0.05	12	0	0	0	0	0	10	90
POOL-BACKWATER	4	28	2.1	0.48	58	0	0	23	76	1	0	0
POOL-DAMMED	1	12	6.5	0.72	78	0	0	0	36	36	18	9
POOL-LATERAL SCOUR	6	125	6.6	1.01	737	0	1	16	55	15	0	13
POOL-PLUNGE	2	23	7.3	0.98	169	0	0	5	43	5	13	35
POOL-STRAIGHT SCOUR	2	32	4.1	0.78	130	0	0	0	30	25	5	40
RAPID/BEDROCK	3	56	5.8	0.53	324	0	0	0	10	10	7	73
RAPID/BOULDERS	3	64	6.2	0.47	400	0	0	2	50	38	3	7
RIFFLE	7	146	4.7	0.29	741	0	0	0	49	40	4	7
STEP/BEDROCK	2	34	5.7	0.38	185	0	0	0	25	0	3	73
STEP/LOG	1	1	7.0	0.20	4	0	0	27	73	0	0	0
Total:	32	531	5.2	0.57	2,837	0	Avg: 0	7	46	19	4	24

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	5	40	3.0	0.53	136	4.80	0	0.0
Scour Pools	10	180	6.2	0.96	1,036	36.50	0	0.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	7	146	4.7	0.29	741	26.12	0	0.0
Rapids	6	121	6.0	0.50	724	25.51	0	0.0
Cascades	1	10	1.2	0.05	12	0.42	0	0.0
Step/Falls	3	35	6.1	0.32	189	6.65	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	15	28.2
Pools ≥1m deep:	5	9.4
Complex pools (LWD pieces ≥3):	8	15.1
Pool Frequency (channel widths/pool):	3.7	
Residual pool depth (avg)	0.61m	

STREAM SUMMARY

COUGAR 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	
32	531	5.2	0.57	2,837	0	7	46	19	4	24	0

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	1,036	36.5
Backwater Pools	136	4.8
Glide	0	0.0
Riffle	741	26.1
Rapid	724	25.5
Cascade	12	0.4
Step	189	6.7
Dry	0	0.0

STREAM HABITAT STATUS SHEET

STREAM Cougar Creek Pre-Winter 2000

Entered by: (initial) LB

Analyzed by: _____

BASIN _____

Map Work by: _____

DISTRICT: _____

CONTRACT: _____

CREW: KC/CW

✓	PROCESS	DATE	FILENAME	COMMENTS
✓	REACH	4/24/00	Cougar ER.DBF	NO UTM's or T-S-R
✓	UNIT 1 WINTER HAB	4/25/00	CougarWB UT.DBF	
	UNIT 2	/ /	U2.DBF	
	UNIT CHECK	/ /	GC.DBF	
✓	WOOD	4/24/00	CougarWD WD.DBF	
	RIPARIAN	/ /	RP.DBF	
	CALIBRATION	/ /	CAL.XLS	
	EXPANDED WOOD	/ /	WE.DBF	
	UNIT LINK	/ /	UX.DBF	
	UNIT LINK with WOOD	/ /	UX2.DBF	
	HABITAT PROFILES	/ /	PRO.XLS	
	<i>reminder</i> COR_LENGTH corrected as well as COR_AREA in dbf file			
	<i>reminder</i> SLOPE corrected in dbf file			
	HABITAT REPORT LINK	/ /	LNK.DBF	
	RIPARIAN LINK	/ /	RLK.DBF	
	COMMENT SUMMARY	/ /	COM.XLS	
	Check that report primary channel length is equal to Comment Codes and length			
	HABITAT BAR GRAPHS	/ /	BAR.DBF	
	COVER DOCUMENT	/ /	RPT.DOC	
	MAP SUMMARY	/ /	-----	
	PHOTOS	/ /	-----	

NOTES:

Jones = 2
 BV
 CC = 1
 MF
 JT
 HS = 3

