

REACH 1

T15S-R10W-S12SE

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

Valley Width Index avg: 4.3 range: 3.0-5.3

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	627	3,482	0
Secondary	16	28	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	4.6	Width	10.9	14.3	17.1
Depth	0.39	Height	0.5	0.9	1.4
		W:D ratio	22.1	Entrenchment	1.3

Stream Flow Type: LF Water Temp: 14.5-14.5°C
Avg. Unit Gradient: 0.9% Habitat Units/100m: 4.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	AG	
Riparian Vegetation:	P	D3

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	6%	Reach avg: 79%
Undercut Banks	12%	Range: 39-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	48	7.7
Volume (m^3)	53	8.4
Key pieces ($\geq 10m \times 0.6m$)	2	0.3

REACH 1

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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
GLIDE	1	21	6.0	0.20	124	0	0	15	85	0	0	0
POOL-BACKWATER	2	13	1.8	0.48	23	0	80	18	3	0	0	0
POOL-ISOLATED	1	2	1.8	0.07	4	0	85	10	5	0	0	0
POOL-LATERAL SCOUR	14	396	5.7	0.59	2,481	0	15	34	31	5	0	14
POOL-STRAIGHT SCOUR	1	23	4.2	0.60	97	0	15	20	50	0	0	15
RIFFLE	11	186	3.9	0.14	780	3	1	17	68	3	1	10
Total:	30	642	4.6	0.39	3,510	3	Avg:16	25	45	3	1	11

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	#/100m ²
Dammed & BW Pools	3	16	1.8	0.34	28	0.79	0	0.0
Scour Pools	15	420	5.6	0.59	2,578	73.45	0	0.0
Glides	1	21	6.0	0.20	124	3.54	0	0.0
Riffles	11	186	3.9	0.14	780	22.22	3	0.4
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	0	0	-	-	0	0.00	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	18	28.0
Pools $\geq 1m$ deep:	0	0.0
Complex pools (LWD pieces ≥ 3):	7	10.9
Pool Frequency (channel widths/pool):	3.3	
Residual pool depth (avg)	0.45m	

STREAM SUMMARY

CRAB CREEK PRE-TX (#20)

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
30	642	4.6	0.39	3,510	16	25	45	3	1	11	3

Wetted Area

Habitat Group	(m ²)	Percent
Scour Pool	2,578	73.5
Backwater Pools	28	0.8
Glide	124	3.5
Riffle	780	22.2
Rapid	0	0.0
Cascade	0	0.0
Step	0	0.0
Dry	0	0.0

REACH 1

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1

Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	772
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	20

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	3.3	0.0	3.3	0.0	2.7	0.0	9.3
15-30cm	0.0	0.3	0.0	0.3	0.0	0.3	0.0	1.0
30-50cm	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.7
50-90cm	0.0	0.3	0.0	0.7	0.3	0.7	0.3	1.7
>90cm	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0
Total/100m ²	0.0	4.3	0.0	4.3	0.7	4.0	0.2	4.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	68		68		75	
Shrub cover	20		39		20	
Grass/forb cover	73		56		69	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		67		67
High terrace	50		33		33	
Low terrace	0		0		0	
Floodplain	33		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	4		39		35	

Summary of Riparian Zone (0-30m) for all reaches (3 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	772
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	41

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	9.3
15-30cm	0.0	1.0
30-50cm	0.0	0.7
50-90cm	0.3	1.7
>90cm	0.3	0.0

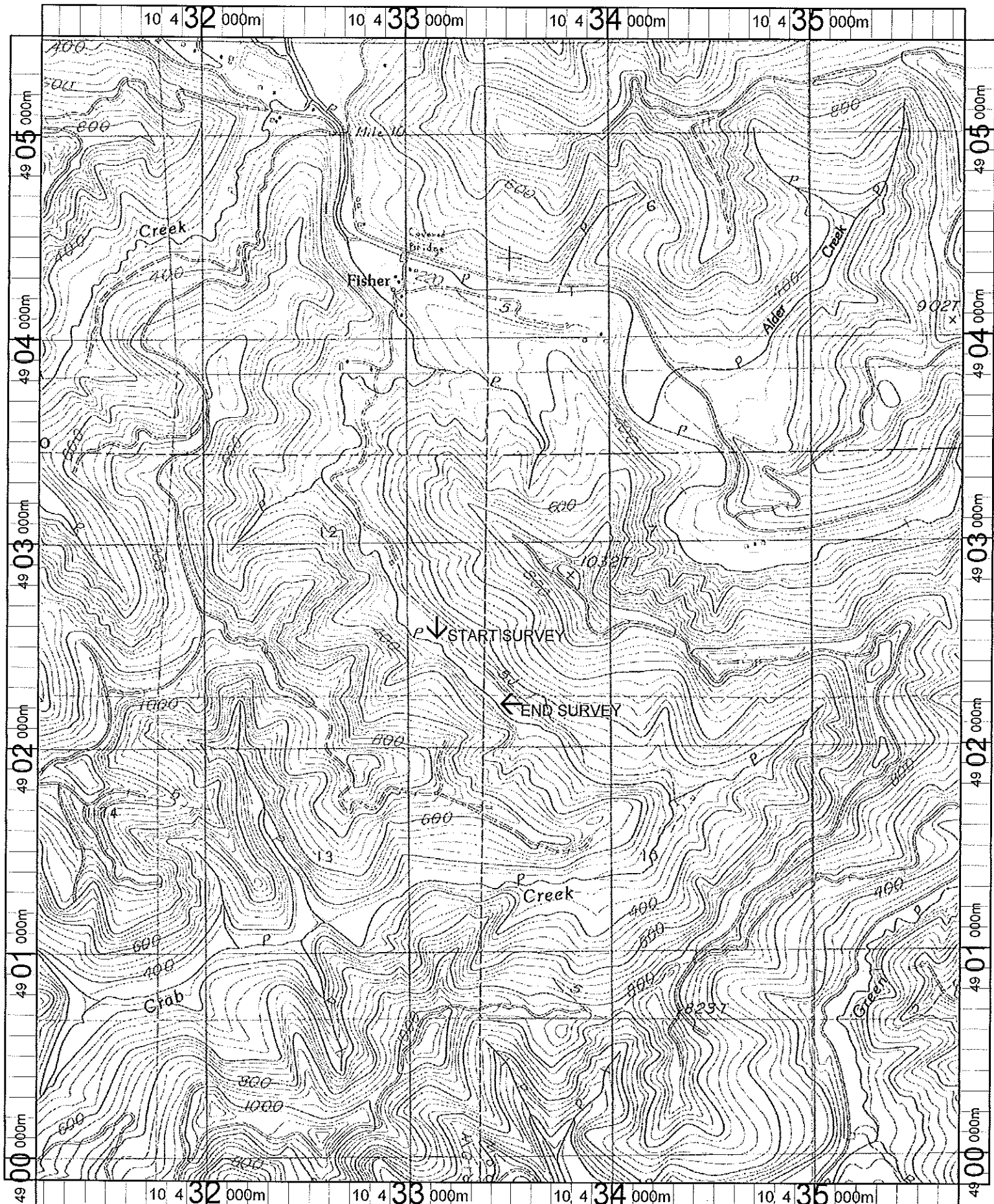
RIPARIAN ZONE VEGETATION

Reach 1

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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
6	RT	1	FP	0.0	30	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
6	RT	2	HS	50.0	95	70	20	Conifer	0	0	0	0	0	
								Hardwood	7	0	0	0	0	
6	RT	3	HS	50.0	80	70	25	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
6	LF	1	HT	0.0	85	10	65	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
6	LF	2	HS	60.0	90	30	60	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	2	0	
6	LF	3	HS	35.0	95	10	75	Conifer	0	0	0	1	0	
								Hardwood	0	0	0	0	0	CEDAR
13	LF	1	HT	0.0	100	25	70	Conifer	0	0	0	0	0	
								Hardwood	7	1	1	1	0	
13	LF	2	HT	0.0	30	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
13	LF	3	HT	0.0	85	0	85	Conifer	0	0	0	0	0	
								Hardwood	1	1	0	0	0	GRAZED BY ELK
13	RT	1	HS	22.0	90	25	70	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
13	RT	2	HS	40.0	95	70	25	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
13	RT	3	HS	35.0	95	30	55	Conifer	0	0	0	0	1	
								Hardwood	0	0	0	0	0	CEDAR
18	LF	1	FP	0.0	10	25	70	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	LF	2	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	GRAZED BY ELK
18	LF	3	HT	0.0	0	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	MEADOW
18	RT	1	HT	0.0	95	15	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	RT	2	HS	85.0	95	25	70	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
18	RT	3	HS	90.0	95	10	75	Conifer	0	0	0	0	0	
								Hardwood	4	0	1	2	0	



Name: FIVE RIVERS
 Date: 1/10/2002
 Scale: 1 inch equals 2000 feet

Location: 10 433459 E 4902666 N
 Caption: CRAB CREEK RESTORATION SITE - ALSEA BASIN