

REACH 1

T13S-R7W-S32

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: 19.0 range: 15.0-20.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	100
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	720	2,715	0
Secondary	25	23	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	3.6	Width	8.0	21.5	9.3
Depth	0.48	Height	0.6	1.1	0.9
		W:D ratio	13.7	Entrenchment	2.4

Stream Flow Type: MF Water Temp: 11.0-11.0°C
 Avg. Unit Gradient: 1.0% Habitat Units/100m: 7.0

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	9%	Reach avg: 72%
Undercut Banks	23%	Range: 28-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	66	9.2
Volume (m ³)	243	33.7
Key pieces ($\geq 10m \times 0.6m$)	13	1.8

HABITAT UNIT SUMMARY

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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
CULVERT CROSSING	1	20	3.0	0.20	60	2	5	11	74	11	0	0
DRY UNITS	1	11	0.4	0.00	4	0	70	30	0	0	0	0
GLIDE	3	46	4.0	0.30	193	0	4	26	33	37	0	0
POOL-BACKWATER	1	10	1.0	0.40	10	0	42	42	11	5	0	0
POOL-BEAVER DAM	1	30	5.0	0.90	150	0	70	10	10	10	0	0
POOL-DAMMED	2	21	5.6	0.85	115	0	68	27	5	0	0	0
POOL-ISOLATED	1	4	2.0	0.40	8	0	90	10	0	0	0	0
POOL-LATERAL SCOUR	19	271	3.8	0.84	1,078	4	20	32	24	23	1	0
POOL-STRAIGHT SCOUR	2	25	3.6	0.63	92	0	11	32	26	31	0	0
RIFFLE	14	251	2.9	0.18	744	4	5	15	40	39	0	0
RIFFLE W/ POCKETS	1	30	4.5	0.20	134	0	0	20	40	40	0	0
STEP/BEAVER DAM	1	1	2.1	0.01	1	0	90	10	0	0	0	0
STEP/COBBLE	4	26	4.9	0.04	147	0	0	3	29	69	0	0
STEP/LOG	1	0	4.0	0.01	2	0	30	30	30	10	0	0
Total:	52	745	3.6	0.48	2,737	10	Avg:20	23	28	29	0	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	5	65	3.8	0.68	283	10.33	0	0.0
Scour Pools	21	296	3.8	0.82	1,170	42.73	4	0.3
Glides	3	46	4.0	0.30	193	7.03	0	0.0
Riffles	15	281	3.0	0.18	878	32.08	4	0.5
Rapids	0	0	-	-	0	0.00	0	0.0
Cascades	0	0	-	-	0	0.00	0	0.0
Step/Falls	6	27	4.3	0.03	150	5.48	0	0.0
Dry	1	11	0.4	0.00	4	0.16	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	26	34.9
Pools ≥1m deep:	5	6.7
Complex pools (LWD pieces ≥3):	8	10.7
Pool Frequency (channel widths/pool):	3.6	
Residual pool depth (avg)	0.67m	

STREAM SUMMARY

SEELEY CREEK #1 (REFERENCE)

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	
52	745	3.6	0.48	2,737	20	23	28	29	0	0	10

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	1,170	42.7
Backwater Pools	283	10.3
Glide	193	7.0
Riffle	878	32.1
Rapid	0	0.0
Cascade	0	0.0
Step	150	5.5
Dry	4	0.2

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (2 transects)

Total hardwoods/1000 ft	671
Total conifers/1000 ft	30
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

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	3.0	0.0	0.5	0.0	2.5	0.0	6.0
15-30cm	0.0	1.0	0.0	1.5	0.0	0.0	0.0	2.5
30-50cm	0.0	0.5	0.5	0.0	0.0	1.5	0.5	2.0
50-90cm	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.0	4.5	0.5	2.0	0.0	4.5	0.2	3.7

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	56		51		66	
Shrub cover	25		40		44	
Grass/forb cover	45		45		54	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	0		0		25
High terrace	0		0		0	
Low terrace	100		75		50	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		25		25	
Riprap	0		0		0	
Surface slope (%)	9		3		5	

Summary of Riparian Zone (0-30m) for all reaches (2 transects)

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

Total hardwoods/1000 ft	671
Total conifers/1000 ft	30
Total conifers >20" dbh/1000 ft	0

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	6.0
15-30cm	0.0	2.5
30-50cm	0.5	2.0
50-90cm	0.0	0.5
>90cm	0.0	0.0

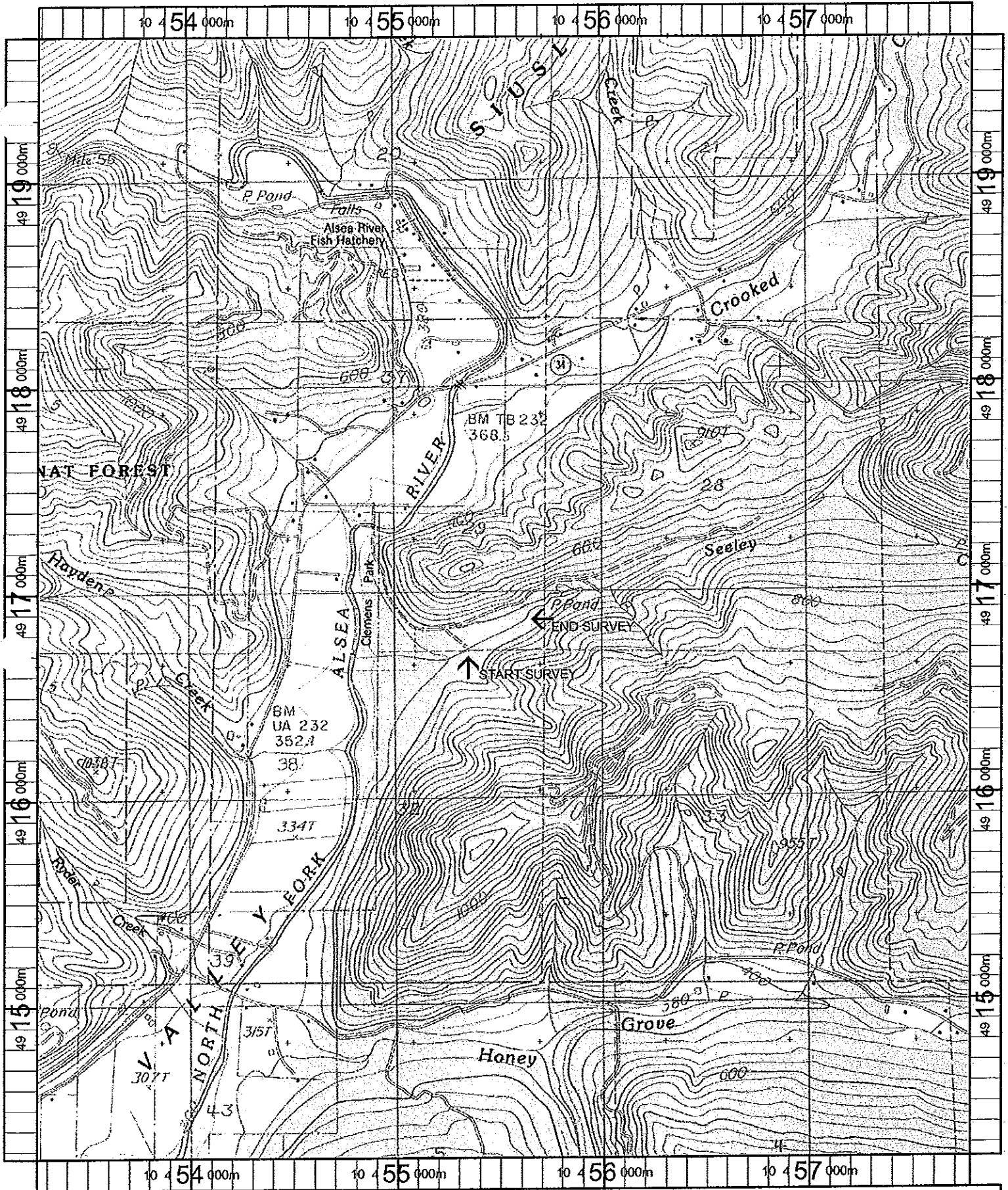
RIPARIAN ZONE VEGETATION

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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	
5	LF	1	LT	11.0	30	0	80	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
5	LF	2	RB	6.0	10	0	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
5	LF	3	RB	0.0	20	45	45	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
5	RT	1	LT	10.0	75	0	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
5	RT	2	LT	5.0	50	60	20	Conifer	0	0	1	0	0	
								Hardwood	0	0	0	0	0	
5	RT	3	LT	4.0	80	40	60	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	0	0	
30	LF	1	LT	13.0	60	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	2	1	0	0	
30	LF	2	LT	2.0	75	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	3	0	0	0	
30	LF	3	LT	5.0	75	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
30	RT	1	LT	0.0	60	80	20	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	
30	RT	2	LT	0.0	70	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	0	0	
30	RT	3	HS	11.0	90	70	30	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	1	0	



Name: ALSEA
 Date: 11/8/100
 Scale: 1 inch equals 2000 feet

Location: 10 455429 E 4916953 N
 Caption: SEELEY CREEK #1 LOWER RESTORATION SITE - ALSEA BASIN