

**1996 TULAMEEN RIVER WATERSHED  
STREAM ASSESSMENT**

**VOLUME 2 - APPENDICES**

**Prepared for:**

**MINISTRY OF ENVIRONMENT, LANDS AND PARKS  
PENTICTON, B.C.**

**July 1997**

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## Overview Assessment - Fish Distribution Summary Form

Watershed Name: Tulameen RiverNTS Maps: 092H07, 092H10 (1:50,000)Watershed Code: 310 3678 620Forest District: Merritt Forest District

Reach No.	Section No.	Data Source	Survey	Method	RB			EB			LT			KO			MW			DC			CC			C			SU		
			juv	ad	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp
1		FISS		UN		K			K											K <sup>LNC</sup>			K <sup>CRH</sup>								
2	A	MELP		UN		S														S			K <sup>CBA</sup>								
2	B	MELP		UN		S														S			K <sup>CBA</sup>								
3	A	MELP				S														S			S								
3	B	MELP				S														S			S								
3	C	FISS		EL		S													K <sup>LNC</sup>			K									
4	A	FISS		SW		S											K			S			K						K <sup>BSU</sup>		
4	B	FISS		SW		S											K			S			K						K <sup>BSU</sup>		
4	C	FISS		EL		K													K <sup>LNC</sup>			K <sup>CRH</sup>									
5	A	MELP				S														S			S								
5	B	MELP				S														S			S								
6	A	FISS		EL		K														K <sup>LNC</sup>			K								
6	B	FISS		EL		K														K <sup>LNC</sup>			K								
6	C	FISS		EL		K														K <sup>LNC</sup>			K								
7	A	MELP	EL	EL	K	K														K <sup>LNC</sup>			K								
7	B	FISS		EL		K														K <sup>LNC</sup>			K								
7	B	FISS	EL	VO	K																										
7	B	MELP	EL	EL	K	K														K <sup>LNC</sup>			K								
7	C	MELP			S															S			S								
8		FISS	VO		K																										
8		FISS		EL		K														K <sup>LNC</sup>			K								
8		MELP		UN	S																								K <sup>MSU</sup>		
9	A	FISS		EL		S																	K								
9	B	FISS		EL		K														K <sup>LNC</sup>			K <sup>CCG</sup>								
9	B	FISS		EL																		K <sup>CRH</sup>									
10		MELP	EL	EL	K	K														K <sup>LNC</sup>			K								
11	A	MELP			S	S														S			S								
11	B	FISS		EL		K														S			K								
11	B	MELP		UN																			K <sup>CBA</sup>								
12		FISS		EL		K																									
13		MELP			S																										



Watershed Name: Tulameen River

NTS Maps: 092H07, 092H10 (1:50,000)

Watershed Code: 310 3678 620

Forest District: Merritt Forest District

[illegible]

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Tulameen River

Sub-basin:

Watershed Code: 310 3678 620NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (025 - 046)Photo scale: 1: 15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
1		2500	650	620	1.2	50	RPcw	DW	LR	FP	N	0	N		N	INIT	1	P
2	A	1400		650	0.0	75	RPcw	DW	MB	MC	N	1	N		S	SHR	1	F
2	B	1700	650			50	RPcw	DW	BC		N	1	N		M	SHR	1	F
3	A	700		650	0.7	50	RPcw	LR	BC		N	1	N		M	MF	2	P
3	B	600				45	RPcw	EB	LR		N	2	N		C	MF	1	P
3	C	3200	680			60	RPcw	DW	MB	LR	N	1	F	E	G		1	P
4	A	900		680	0.7	25	SPb	EB			C	3	F	C	N		1	P
4	B	800				35	CPb	EB	DW		N	2	F		N		1	P
4	C	2500	710			45	RPcw	EB	DW	LR	N	2	F		C	MF	1	P
5	A	2500		710	0.0	40	RPgw	EB	DW	MB	N	1	F		N		1	P
5	B	500	710			50	RPgw	DW	MB	EB	N	1	F		C	MF	2	F
6	A	550		710	0.0	40	RPcw	EB			N	3	F	C	C	MF	1	P
6	B	1600				35	RPgw	EB	MB	LR	N	2	F		C	MF	2	P
6	C	550	710			40	RPgw	EB	MB		N	1	F	C	C	MF	1	G
7	A	1100		710	0.8	*41	RPgw	DW	MB	EB	N	1	F		G		1	F
7	B	1800				50	RPgw	DW	LR		N	1	F		C	INIT	1	F
7	C	1050	740			65	RPgw	DW	MB		N	1	F		M	MF	1	F
8		4400	770	740	0.7	100	RPgw	DW	MB	LR	N	1	F		M	MF	1	F
9	A	3450		770	0.6	100	RPgw	DW	MB	LR	N	1	F		N		1	P
9	B	2000	800			70	RPgw	DW	MB	LR	N	1	F		M	MF	1	P
10		950	830	800	3.2	30	RPcw	LR			N	1	N		C	MF	2	P

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Tulameen River

Sub-basin:

Watershed Code: 310 3678 620NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (025 - 046)Photo scale: 1: 15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
11	A	1200		830	1.0	20	CPb	EB			C	3	F	C	C	MF	2	P
11	B	4600	890			15	CPcw	EB			C	2	F		C	MF	2	P
12		2900	920	890	1.0	25	RPgw	EB			N	3	F		C	MF	2	P
13		2400	950	920	1.3	20	CPcw				N	2	F		C	MF	2	P
14	A	1800		950	0.9	20	RPgw	EB			N	2	A	C	C	MF	2	P
14	B	1500	980			50	RPgw	DW	BC	MB	N	1	F	C	C	MF	1	F
15		2500	1040	980	2.4	20	RPgw	EB	BC	MB	N	2	F	C	C	MF	2	P
16		500	1040	1040	0.0	10	RPcw	EB	BC		N	2	F		C	MF	2	P
17		180	1070	1040	16.7	15	SPr				F	3	N		C	MF		
18		2000	1130	1100	1.5	20	RPgw	DW	MB		N	1	A	E	C	MF	2	P
19	A	2300		1130	1.0	20	RPcw				N	1	F		C	MF	3	P
19	B	1550				40	RPgw	DW	MB	BC	N	2	A	E	C	MF	1	F
19	C	600				25	RPgw				N	2	A	E	C	MF	2	F
19	D	1700				25	RPgw	EB			N	2	F		C	MF	2	F
19	E	1100				20	RPgw	EB	BC		N	1	A		C	MF	2	F
19	F	1400	1220			15	RPgw	EB	BC		N	2	A	E	C	MF	2	G
20	A	2100		1220	2.6	10	RPgw	BC	MC	MB	N	2	A	E	C	MF	2	M
20	B	1350	1310			10	RPgw	BC	MC	MB	N	1	F		C	MF	2	F
21	A	1300		1310	1.8	8*	RPcw				N	2	A	E	C	MF	3	F
21	B	2100	1370			6	RPcw				N	2	A	E	C	YF	2	G
22	A	1000		1370	6.0	4	RPgw				N	2	A	E	C	MF	3	F

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Tulameen River

Sub-basin:

Watershed Code: 310 3678 620

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (025 - 046)

Photo scale: 1: 15,000

[illegible]

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Tulameen River

Sub-basin:

Watershed Code: 310 3678 620NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
1		2500	650	620	1.2		R	LR			N				D	YF,SHR	1	P
2	A	1400		650	0.0		R	LR	MB	DW	N				D	YF	1	P
2	B	1700	650				RPgw	LR			N				D / C	YF	2	P
3	A	700		650	0.7		RPgw				N				C	MF	2	P
3	B	600					R	LR	EB		N				C	MF	1	P
3	C	3200	680				RPgw	MB	DW		N				C	MF	1	P
4	A	900		680	0.7		CPb				C				C	MF	1	P
4	B	800					CPcw				N				C	MF	1	P
4	C	2400	710				RPcw				N				C	MF	1	P
5	A	2500		710	0.0		RPgw	EB	DW		N				C	MF	1	P
5	B	500	710				RPgw	DW	MB		N				C	MF	1	P
6	A	550		710	0.0		RPgw	DW	MB	MC	N				C / D	MF	1	P
6	B	1600					RPgw	DW			N				C / D	MF	2	P
6	C	550	710				RPgw	DW	MB	MC	N				C / D	MF	1	P
7	A	1100		710	0.8		RPgw	DW	MB		N				C / D	MF	1	P
7	B	1800					RPgw	LR			N				C / D	MF	2	P
7	C	1050	740				RPgw	DW			N				C	MF	1	P
8		4400	770	740	0.7		RPgw	DW	MB	MC/LR	N				C	MF	2	P
9	A	3450		770	0.6		RPgw	DW	MB	MC	N				C	MF	1	P
9	B	2000	800				RPgw	LR			N				C	MF	2	P
10		950	830	800	3.2		RPgw	MB			N				C	MF	2	P



### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Tulameen River

Sub-basin:

Watershed Code: 310 3678 620NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
11		5800	890	830	1.0		CPcw				C <sup>(POSS.)</sup>				C	MF	2	P
12		2900	920	890	1.0		CPb				N				C	MF	3	P
13		2400	950	920	1.3		CPb				N				C	MF	3	P
14	A	1800		950	0.9		CPb				N				C	MF	3	P
14	B	1500	980				RPgw	DW	BC		N				C	MF	2	M
15		2500	1040	980	2.4		RPgw	EB	LR		N				C	MF	2	P
16		300	1040	1040	0.0		SPb				C				C	MF	2	P
17		180	1100	1040	33.3		SPr				F	3			C	MF	2	P
18		2000	1130	1100	1.5		RPgw				N				C	MF	3	F
19	A	2300		1130	1.0		RPgw	MC	DW		N				C	MF	1	F
19	B	1550					RPgw				N				C	MF	2	P
19	C	600					RPgw	MC	DW	MB	N				C	MF	2	P
19	D	1700					RPcw				N				C	MF	2	P
19	E	1100					RPgw	DW	MC		N				C	MF	1	F
19	F	1400	1220				RPgw				N				C	MF	2	F
20	A	2100		1220	2.6		RPgw	DW	MB		N				C	MF	1	F
20	B	1350	1310				RPcw				C				C	MF	3	P
21		3400	1370	1310	1.8		RPgw				N				C	MF	2	M
22		6200	1430	1370	1.0		RPgw				N				C / S	MF/SHR	3	M
23		850	1520	1430	10.6		RPgw				N				C	MF	1	M
24	A	600		1520	12.0		CPcw				G <sup>(POSS.)</sup>				C	MF	1	M
24	B	400	1640				L				N							

1996

\*\*\* Falls occurring within reach 17 cause the gradient to be expressed as a slope much greater than actual for the sub-reaches both above and below the falls.

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Tulameen River UTM Coordinates:

Watershed Code: 310 3678 620

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		L	H	Urbanization, banks are barren of vegetation	L	Possible complexing, plant riparian vegetation
2	A	L	H	Sediment deposition	L	No action
2	B	L	H	Unstable bank (LB), increased sediment deposition	L	No action until upper reaches have been stabilized , Level 1 Field Assessment
3	A	L	H	Sediment deposition	L	No action until upper reaches have been stabilized
3	B	L	H	Extensive riffle zones	L	Consider complexing when upper reaches have been stabilized, Level 1 Field Assessment
3	C	L	H	Increased sediment deposition, eroding banks (LB)	L	Level 1 Field Assessment, stabilize bank
4	A	L	H	Eroding bank, road (LB)	L	Level 1 Field Assessment, stabilize bank, plant riparian vegetation
4	B	L	M - H	Slide (RB)	L	Level 1 Field Assessment, stabilize bank
4	C	L	H	Unstable bank above road (LB), extensive riffle zone	L	Level 1 Field Assessment, stabilize bank, instream complexing
5	A	L	H	Banks appear bare and unstable, slide (LB), extensive riffle zone	L	Level 1 Field Assessment, stabilize bank, instream complexing

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Tulameen River UTM Coordinates:

Watershed Code: 310 3678 620

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
5	B	L	H	Slide (LB), road	L	Level 1 Field Assessment, stabilize bank
6	A	L	H	Unstable bank, bare (LB), sediment deposition	L	Level 1 Field Assessment, stabilize bank
6	B	L	H	Unstable bank, road (LB), extensive riffle zones	L	Level 1 Field Assessment, stabilize bank, instream complexing
6	C	L	H	Sediment deposition	L	Level 1 Field Assessment, stabilize bank
7	A	L	H	Sediment deposition instream, vulnerable banks to road	M	Level 1 Field Assessment, armour bank
7	B	L	H	Sediment deposition instream, extensive riffle zones and areas of vulnerable banks	M	Level 1 Field Assessment, armour bank, consider instream complexing
7	C	L	H	Extensive riffle zones, channel is straight	M	Level 1 Field Assessment, consider instream complexing
8		L	H	Increased sediment deposition, vulnerable banks	M	Level 1 Field Assessment, armour vulnerable banks, instream complexing
9	A	L	H	Sediment deposition, vulnerable banks	M	Level 1 Field Assessment, armour vulnerable banks
9	B	L	H	Sediment deposition, 2 slides (LB)	M	Level 1 Field Assessment, armour vulnerable banks

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Tulameen River UTM Coordinates:

Watershed Code: 310 3678 620

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
10		L	H	Sediment deposition	L	Level 1 Field Assessment
11	A	L	H		L	No action
11	B	L	H	Abandoned mines, sedimentation	L	No action
12		L	H	Slides	L	No action
13		L	H		L	No action
14	A	L	M	CC to creek (RB)	M	Plant riparian vegetation
14	B	L	M	CC to creek (RB), slide (LB), road (LB)	M	Plant riparian vegetation in bare riparian zones
15		L	M	Slides (LB)	L	No action
16		L - M	M	Unstable banks	L	No action
17		L	L		L	No action

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Tulameen River UTM Coordinates:

Watershed Code: 310 3678 620

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
18		M - H	L	Sediment deposition	L	No action
19	A	M - H	L	Slide (RB)	M	Level 1 Field Assessment, bank stabilization and
19	B	M	L		L	No action
19	C	M	L	Slides	L	No action
19	D	M	L	2 slides (LB)	L	No action
19	E	M	L	Slide (RB)	L	No action
19	F	M	L	CC, slide	L	No action
20	A	M	L	CC set back up bank (LB)	L	No action
20	B	M	L	Slide	L	No action
21	A	M	L		L	No action

Overview Habitat Summary Form



### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Tulameen River UTM Coordinates:

Watershed Code: 310 3678 620

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
21	B	M - H	L		L	No action
22	A	M - H	L		L	No action
22	B	H	L		L	No action
22	C	H	L		L	No action
22	D	H	L		L	No action
22	E	H	L		L	No action
23		M	L		L	No action
24	A	M	L		L	No action
24	B	H	L		L	No action

Overview Habitat Summary Form

Watershed Name: Arrastra Creek

NTS Maps: 092H07 (1:50,000)

Watershed Code: 310 3678 620 253 460

Forest District: Merritt Forest District

[illegible]

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Arrastra Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 253 460

NTS Maps: 92H07

Air Photo Series: 30BCC96 (026 - 044)

Photo scale: 1:15,000

[illegible]

Watershed Name: Arrastra Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 253 460

NTS Maps: 92H07

Photo scale:

[illegible]

**Overview Assessment - Preliminary Habitat Assessment Form**Watershed Name: Arrastra Creek UTM Coordinates:Watershed Code: 310 3678 620 253 460

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1	A	M - H	H	CC with setback (LB), road (LB). Upstream, CC to creek (LB), slide (RB)	H	Plant riparian vegetation at CC to creek and banks to road.
1	B	M - H	H	CC	H	Plant riparian vegetation at CC to creek
2		M - H	H	Excessive LWD instream, CC (LB) and (RB)	M	Plant riparian vegetation at CC to creek
3		M - H	H	CC, planted with conifer sapplings	M	Plant riparian vegetation at CC to creek
4		M - H	H	Excessive LWD	L	No action
5		M - H	H	CC (LB) and (RB), headwaters are barren	L	Plant riparian vegetation at CC to creek

Overview Habitat Summary Form



Watershed Name: Asp Creek (China Creek)

NTS Maps: 092H07, 092H10 (1:50,000)

Watershed Code: 310 3678 620 023

Forest District: Merritt Forest District

[illegible]

Watershed Name: Asp Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 023

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (027 - 046)

Photo scale: 1:15,000

[illegible]

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Asp Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 023

NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Asp Creek UTM Coordinates:

Watershed Code: 310 3678 620 023

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1	A	H	H	Urbanization, unstable banks	M	Level 1 Field Assessment, bank stabilization
1	B	H	H	Unstable banks	M	Level 1 Field Assessment, bank stabilization
2		M	H		L	No action
3	A	M - H	M	Slide (RB)	M	Level 1 Field Assessment, bank stabilization
3	B	M - H	M	Slide (LB), road (LB), CC with setback (LB)	H	Level 1 Field Assessment, bank stabilization
4		M - H	M	Slide (RB), excessive LWD	M	No action
5		M	L	CC (LB)	L	No action

Overview Habitat Summary Form

[illegible]



## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Champion Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 547

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (044 - 046)

Photo scale: 1:15,000

[illegible]

Watershed Name: Champion Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 547

NTS Maps: 092H07, 092H10

Photo scale:

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Champion Creek UTM Coordinates:

Watershed Code: 310 3678 620 547

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1	A	M	L - M		L	No action
1	B	M	L - M		L	No action
2		L - M	M - H	Unstable bank (RB), excessive LWD instream	L	No action
3		M - H	H	3 CC (LB), excessive LWD, possible logjams	L	Habitat favorable, consider stocking u/s of barrier
4		M - H	L	Slide (RB) and (LB), excessive LWD, possible logjams, CC (RB)	L	Consider bank stabilization, remediation

Overview Habitat Summary Form

Watershed Name: Frenchy Creek

NTS Maps: 092H07 (1:50,000)

Watershed Code: 310 3678 620 253 587

Forest District: Merritt Forest District

[illegible]

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Frenchy Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 253 587

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (025 - 044)

Photo scale: 1:15,000

[illegible]

Watershed Name: Frenchy Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 253 587

NTS Maps: 092H07, 092H10

Photo scale:

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Frenchy Creek UTM Coordinates:

Watershed Code: 310 3678 620 253 587

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		L - M	H	Logjam, excessive LWD, possible barrier, CC	M	Level 1 Field Assessment, determine barrier, LWD manipulation
2		L - M	H	Logjam, CC (high on RB), slide (RB)	M	Level 1 Field Assessment, determine barrier, LWD manipulation
3	A	L - M	H		L	No action
3	B	L - M	M	CC (LB), slide (LB)	H	Level 1 Field Assessment, determine barrier, LWD manipulation, bank stabilization, plant riparian veg.
3	C	L - M	M		L	No action
4	A	M - H	M		L	No action
4	B	H	M		L	No action
5		M - H	L	CC (replanted)	L	No action
6		M	L		L	No action

Overview Habitat Summary Form

Watershed Name: Granite Creek

NTS Maps: 092H07, 092H10 (1:50,000)

Watershed Code: 310 3678 620 253

Forest District: Merritt Forest District

[illegible]



### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Granite CreekSub-basin: N/AWatershed Code: 310 3678 620 253NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (025 - 046)Photo scale: 1:15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
1		600	810	780	5.0	17*	RPcw	LR	DW	FP	N	0	F	E	D	MF	1	P
2	A	3200		810	3.2	20	RPgw	EB	DW	MC	N	2	F	E	M	MF	2	F
2	B	1350				15	CPcw	EB			C	3	F	E	C	MF	1	P
2	C	600	930			25	RPgw	EB	DW		N	1	F	E	M	MF	1	P
3		1500	990	930	4.0	20	CPb	EB	DW		C	1	A	C	C	MF	2	F
4		1100	1050	990	5.5	20	CPb	EB	BC		C/JM	1	A	C	M	MF	2	F
5	A	1500		1050	1.6	20	CPb	EB			N	1	A	E	M	MF	1	F
5	B	1400				19*	CPb	EB	MC	DW	JM	1	A	E	M	MF	1	F
5	C	2900	1140			24*	RPgw	EB	MC	DW	JM	2	A	C	M	MF	2	F
6		900	1170	1140	3.3	12	CPb	EB	MC	DW	N	2	A	C	C	MF	3	P
7		1600	1290	1170	7.5	12	CPb	EB			G/JM	2	A	C	C	MF	2	P
8		1500	1320	1290	2.0	12	CPb				JM	2	A	C	C	MF	3	F
9	A	1550		1320	3.5	6	CPb				N	1	A	C	C	MF	3	F
9	B	700				6	CPb	EB			JM	1	A	C	C	MF	3	F
9	C	2000	1470			6	RPgw	EB	MC	BC	N	1	A	E	C	MF	2	F
10		5000	1530	1470	1.2	4	RPgw	EB			N	2	A	E	C	YF	1	P
11	A	900		1530		2	RPgw	EB			N	1	A	E	N	INIT	1	F
	B	1400	1650		5.2	2	RPgw				N	1	A	E	C	YF	1	F

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Granite CreekSub-basin: N/AWatershed Code: 310 3678 620 253NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
1	A	600	810	780	5.0		CPcw	DW							C	MF	1	U
2	B	8400	930	810	1.4		CPcw								C	MF	2	U
3	C	1500	990	930	4.0		CPcw	EB							C	MF	2	P
4		1100	1050	990	5.5		CPcw	EB							C	MF	2	P
5	A	1500		1050	1.6		CPgw								C	MF	2	F
5	B	1400					CPgw	DW	BC						S / C	SHR/MF	1	M
5	C	2900	1140				CPgw	DW							C	MF	1	M
6		900	1170	1140	3.3		CPgw								S / C	SHR/MF	2	F
7		1600	1290	1170	7.5		CPb	EB							C	MF	2	P
8		1500	1320	1290	2.0		RPgw	EB							C	MF	2	P
9	A	1550		1320	3.5		RPgw	EB							S / C	SHR/MF	2	F
9	B	700					RPgw								S / C	SHR/MF	4	F
9	C	2000	1470				RPgw								S / C	SHR/MF	2	F
10		5000	1530	1470	1.2		RPgw	MC	BC						S	SHR	1	U
11		2300	1650	1530	5.2		RPgw	MC	BC						S	SHR	1	U

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Granite Creek UTM Coordinates:

Watershed Code: 310 3678 620 253

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		L - M	H	Banks armoured with riprap, extensive riffle zone	L	Consider instream complexing
2	A	M	H	Unstable banks, road (LB), 3 slides (RB), possible placer mining	L	No action at present, consider bank stabilization
2	B	L	H	Unstable banks, placer mining present	L	No action
2	C	M	H	Unstable banks, possible placer mining	L	No action
3		M	H		L	No action
4		L - M	H	Barrier logjam (>100 logs), slide (LB) and (RB), excessive LWD instream	M	Assess logjam, most likely too dangerous to manipulate, possibly no action
5	A	L - M	H	LWD instream, slide (RB)	L	Level 1 Field Assessment
5	B	L - M	H	Logjam, excessive LWD in channel	L	Level 1 Field Assessment (assess logjam, determine barrier)
5	C	L - M	M	Logjam, excessive LWD in channel, slide	L	Level 1 Field Assessment (assess logjam, determine barrier)
6		M	M		L	No action

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Granite Creek UTM Coordinates:

Watershed Code: 310 3678 620 253

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
7		M	M	Logjams, excessive LWD, slide	M	Level 1 Field Assessment (assess logjam, determine barrier)
8		M	M	Logjams, excessive LWD	M	Level 1 Field Assessment (assess logjam, determine barrier)
9	A	M	M	Logjams, excessive LWD	M	Level 1 Field Assessment (assess logjam, determine barrier), limited access
9	B	M	M	Logjams, excessive LWD	M	Level 1 Field Assessment (assess logjam, determine barrier), limited access
9	C	M	M	Logjam	M	Level 1 Field Assessment (assess logjam, determine barrier), limited access
10		H	L	CC with sparse vegetation throughout	M	Plant riparian vegetation, limited access
11	A	H	L	CC to creek (RB) and (LB)	H	Plant riparian vegetation
11	B	H	L	CC with sparse riparian vegetation in leavestrip		Plant riparian vegetation

Overview Habitat Summary Form

[illegible]

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Jim Kelly Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 615

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (045 - 046)

Photo scale: 1:15,000

[illegible]



### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Jim Kelly Creek UTM Coordinates:

Watershed Code: 310 3678 620 615

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		M	H	Sediment deposition (placer mining)	L	No action (active placer mining)
2	A	M - H	H	Sediment deposition (placer mining)	L	No action (active placer mining)
2	B	L - M	H	Slide (RB), placer mining, unstable banks	L	No action (active placer mining)
3		L - M	M	Slide (RB), placer mining, unstable banks	L	No action
4		M	L		L	No action
5		L	L		L	No action
6	A	L	L		L	No action
6	B	L	L		L	No action

Overview Habitat Summary Form



Watershed Name: Olivine Creek NTS Maps: 092H07, 092H10 (1:50,000)

Watershed Code: 310 3678 620 426 Forest District: Merritt Forest District

[illegible]

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Olivine CreekSub-basin: N/AWatershed Code: 310 3678 620 426NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (028 - 046)Photo scale: 1:15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
1		400	840	800	10.0	19*	CPcw	EB	JM		C	1	A	C	M	MF	2	M
2		700	920	840	11.4	9*	CPcw	EB	JM		N	1	A	C	M	MF	2	M
3		3610	1200	920	7.8	10	SPbw	EB	JM		F	2	A	C	M	MF	2	F
4		1800	1300	1200	5.6	8*	SPbw	EB	JM		N/JM	1	A	C	C	MF	1	M
5		1100	1380	1300	7.3	6	SPbw	JM			N	1	A	E	S	SHR	1	F
6		2700	1440	1380	2.2	5	SPbw	JM			N	1	F	E	S	SHR	1	P
7		1050	1720	1440	26.7	5	SPbw	EB			G	1	F	E	N	INIT	1	P
Trib.		-	-	-	-	6	CPcw	JM			JM	2	A	C	N	INIT	1	P

Watershed Name: Olivine Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 426

NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Olivine Creek UTM Coordinates:

Watershed Code: 310 3678 620 426

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		H	M	Logjam (side channel)	L	No action
2		H	M		L	No action
3		M - H	M	CC to creek partially regrown (RB), road adjacent to creek, slide, LWD	L	No action
4		L - M	H	Logjam, sediment deposition	L	No action (fish presence unknown, not likely)
5		L - M	H	Logjam, sediment deposition	L	No action (fish presence unknown, not likely)
6		M	M - H	CC to bank (RB), slide	L	No action (fish presence unknown, not likely)
7		L - M	L		L	No action

Overview Habitat Summary Form

## Overview Assessment - Fish Distribution Summary Form

Watershed Name: Offer CreekNTS maps: 092H10, 092H15 (1:50,000)Watershed Code: 310 3678 620 357Forest District: Merritt Forest District

Reach No.	Section No.	Data Source	Survey	Method	RB			EB			LT			KO			MW			DC			CC			C			SU		
			juv	ad	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp	juv	ad	sp
1		FISS		EL		K														K <sup>LNC</sup>			K <sup>CAS</sup>								
1		FISS		EL																		K <sup>CRH</sup>									
1		MELP		EL																											
1		MELP	EL		K																		S								
2		FISS		GN							K												S			K <sup>NSC</sup>		K			
2		FISS		UN		K							K	S		K						K <sup>CAS</sup>			K <sup>PCC</sup>		K <sup>CSU</sup>				
2		FISS		UN																S <sup>LNC</sup>					K <sup>RSC</sup>						
3	A	MELP			S															S <sup>LNC</sup>											
3	B	FISS		UN		K							K							K <sup>LNC</sup>			K <sup>CCG</sup>		K <sup>RSC</sup>		K <sup>CSU</sup>				
3	B	FISS		UN																		K <sup>CAS</sup>									
3	B	MELP		UN																		K <sup>CBA</sup>									
4		MELP			S	S														S <sup>LNC</sup>			S								
5	A	MELP			S															S <sup>LNC</sup>			S								
5	B	FISS		EF/AG		K																K <sup>CBA</sup>									
5	C	FISS		MT																					K <sup>RSC</sup>						
5	C	FISS		EL					K								K						K <sup>CCG</sup>								
5	C	FISS		EL																			K <sup>CAS</sup>								
5	C	MELP		UN																			K <sup>CBA</sup>								
5	C	MELP	EL	EL	K	K														K <sup>LNC</sup>			K								
6	A	FISS		UN		K														S <sup>LNC</sup>			S								
6	B	FISS		UN		K														S <sup>LNC</sup>			S								
6	C	MELP				S														S <sup>LNC</sup>			S								
7	A	FISS		UN		K														S <sup>LNC</sup>			S								
7	B	FISS		UN		K														S <sup>LNC</sup>			S								
8		FISS		UN		K														S <sup>LNC</sup>											
9	A	FISS		EL		K														S <sup>LNC</sup>			K <sup>CAS</sup>			K <sup>RSC</sup>		K <sup>CSU</sup>			
9	B	FISS		EL		K														S <sup>LNC</sup>			K <sup>CCG</sup>								
10	A	FISS		UN		K														S <sup>LNC</sup>			S								
10	B	FISS		UN		K																									
10	B	MELP	EL	EL	K	K														S <sup>LNC</sup>			K								

Watershed Name: Otter Creek

NTS maps: 092H10, 092H15 (1:50,000)

Watershed Code: 310 3678 620 357

Forest District: Merritt Forest District

[illegible]

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Otter CreekSub-basin: N/AWatershed Code: 310 3678 620 357NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (027 - 070)Photo scale: 1:15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower				LR	FP	EB								
1		1000	780	780	0.0	11*	RPcw	LR	FP	EB	N	1	N		S	SHR	1	P
2		5400	780	780	0.0		L											
3	A	1600		780	0.0	25	RPgw	DW	EB	BC	N	1	N		S	SHR	1	F
3	B	800	780			10	RPgw				N	2	N		S	SHR	1	F
4		1000	780	780	0.0		L											
5	A	1400		780	0.7	13	RPcw	BC			N	2	N		S	SHR	2	G
5	B	700				13	RPcw	BC	MC		N	2	F	E	S	SHR	2	G
5	C	620	800			13*	RPcw				N	2	F	E	S	SHR	2	G
6	A	400		800	0.6	13	RPcw				N	2	F	E	S	SHR	2	G
6	B	2100				13	RPcw				N	1	N		S	SHR	2	F
6	C	600	820			13	RPcw				N	1	N		S	SHR	2	F
7	A	250		820	0.0	13	RPcw	LR			N	1	N		S	SHR	2	F
7	B	350	820				L											
8		590	820	820	0.0		L											
9	A	1600		820	0.0	10	RPcw	BC	MC		N	1	N		S	SHR	1	F
9	B	3400	820			10	RPgw				N	1	N		S	SHR	1	F
10	A	2250		820	0.5	6	RPcw	BC	MC		N	1	N		D	MF	1	G
10	B	700				6*	RPcw				N	1	N		D	MF	1	F
10	C	4400				6	RPcw	BC	MC	DW	BD	1	N		D	MF	1	G
10	D	590	860			6	RPcw	DW	BC		N	1	N		D	MF	2	F
11	A	400		860	0.8	6	RPcw				N	1	N		C	MF	2	F

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Otter CreekSub-basin: N/AWatershed Code: 310 3678 620 357NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (027 - 070)Photo scale: 1:15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
11	B	4500	900			5	CPb	EB			N	1	N		C	MF	1	F
12		2800	920	900	0.7	6	RPcw				N	2	N		C	MF	1	F
13	A	200		920		6	RPcw				N	2	N		S	SHR	2	M
13	B	1100					L											
13	C	1300	940		0.8	6	RPcw				N	2	N		S	SHR	1	G
14	A	760		940	0.0	5	RPcw				N	1	N		S	SHR	2	F
14	B	1100				5	RPcw	BC			N	1	N		S	SHR	3	F
14	C	2190	940			5	RPcw	BC			N	1	N		S	SHR	3	M
15	A	2200		940	0.4	5	RPcw	BC			N	1	N		S	SHR	2	M
15	B	1300				5	RPcw				N	1	N		N	INIT	1	M
15	C	1950	960			5	RPcw	BC			N	1	N		C	MF	1	M
16	A	2200		960	1.1	2*	RPcw	BC			N	1	N		S	SHR	3	F
16	B	1600	1000			2	RPcw	BC			N	1	N		S	SHR	3	M
17		4750	1060	1000	1.3	2	RPcw				N	1	N		S	SHR	3	F
18		500	1060	1060	0.0		L											
19		5100	1120	1060	1.2	2	RPcw				N	1	N		S	SHR	2	F



### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Otter CreekSub-basin: N/AWatershed Code: 310 3678 620 357NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes	Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower													
1		1000	780	780	0.0		R	LR			N			S	SHR	1	P
2		5400	780	780	0.0		L				N						
3	A	1600		780	0.0		RPgw	DW	MB	MC	U			G		1	F
3	B	800	780				RPcw							S	SHR	1	P
4		1000	780	780	0.0		L				N						
5	A	1400		780	0.7		RPcw				N			G		1	M
5	B	700					RPgw				N			S	SHR	1	M
5	C	620	800				RPgw				N			S	SHR	1	M
6	A	400		800	0.6		RPgw				U			G / S		1	U
6	B	2100					RPgw	BC	DW		U			G / S		1	M
6	C	600	820				RPgw				U			S	SHR	2	F
7	A	250		820	0.0		R				N			S	SHR	1	F
7	B	350	820				P	LR			N					1	P
8		590	820	820	0.0		L				N						
9	A	1600		820	0.0		RPgw				U			S	SHR	1	F
9	B	3400	820				RPgw	DW	MB		U			S	SHR	1	F
10	A	2250		820	0.5		RPgw	MC			U			S	SHR	4	M
10	B	700					R	LR			U			S	SHR	2	P
10	C	4400					RPgw	MC	DW		U			G / C	/M <sup>(RIPAR)</sup>	1	M
10	D	590	860				RPcw				U			S	SHR	4	F
11	A	400		860	0.8		RPcw				U			S	SHR	3	F
11	B	4500	900				RPcw				U			S	SHR	3	F
12		2800	920	900	0.7		RPcw				U			S	SHR	1	P

### Overview Assessment - Habitat Condition Summary Form

Watershed Name: Otter CreekSub-basin: N/AWatershed Code: 310 3678 620 357NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
13		2600	940	920	0.8		RPcw	DW			N				G / S	SHR	1	P
14	A	760		940	0.0		RPcw	BC			U				S	SHR	3	G
14	B	1100					RPcw				U				S	SHR	2	F
14	C	2190	940				RPcw				U				G		1	P
15	A	2200		940	0.4		RPcw	BC			U				S	SHR	1	M
15	B	1300					RPcw	BC			U				S	SHR	1	M
15	C	1950	960				RPcw	BC			U				S	SHR	1	M
16	A	1390		960	1.2		RPcw	BC			U				S	SHR	1	F
16	B	2000	1000				RPcw	BC			U				S	SHR	1	F
17		4750	1060	1000	1.3		RPcw	BC			U				S	SHR	2	F
18		500	1060	1060	0.0		L											
19		5100	1120	1060	1.2		RPcw				U				G / S	SHR	1	F

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Otter Creek UTM Coordinates:

Watershed Code: 310 3678 620 357

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		L - M	L	Urbanization, barren riparian zones	L	Plant riparian vegetation
2		H	L		L	No action
3	A	L - M	L	Intermittent flow	L	No action, ensure minimum flow, water quality
	B	M - H	L		L	No action, water quality
4		H	L		L	No action, water quality
5	A	H	L		L	No action, water quality
5	B	H	L		L	No action, water quality
5	C	H	L		L	No action, water quality
6	A	M	L	Roads and bridges washed out by flood	L	No action, water quality
6	B	M	L	Roads and bridges washed out by flood	L	No action, water quality

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Otter Creek UTM Coordinates:

Watershed Code: 310 3678 620 357

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
6	C	M	L	Roads and bridges washed out by flood, intermittent flow	L	Ensure minimum flow, water quality
7	A	M	L	Roads and bridges washed out by flood, intermittent flow	L	No action, ensure minimum flow
7	B	M	L		L	No action
8		H	L		L	No action
9	A	M	L	Intermittent flow	L	No action, ensure minimum flow
9	B	M - H	L		L	No action
10	A	M - H	L		L	No action
10	B	M - H	L		L	No action
10	C	M - H	L		L	No action
10	D	M - H	L		L	No action

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Otter Creek UTM Coordinates:

Watershed Code: 310 3678 620 357

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
11	A	M - H	L	Road and railway	L	No action
11	B	H	L	Numerous slides (LB), appears to be unstable upslope of road, barren riparian zone at road	M	Plant riparian vegetation, water quality
12		H	L		L	No action
13	A	H	L		L	No action
13	B	H	L		L	No action
13	C	H	L		L	No action
14	A	M	L		L	No action
14	B	M	L		L	No action, water quality
14	C	M	L		L	No action
15	A	M	L		L	No action, water quality

Overview Habitat Summary Form

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Otter Creek UTM Coordinates:

Watershed Code: 310 3678 620 357 NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
15	B	M	L	Cattle	L	Water quality, consider fencing and water troughs
15	C	M	L	Cattle	L	Water quality, consider fencing and water troughs
16	A	H	L	Cattle	L	Water quality, consider fencing and water troughs
16	B	H	L	Cattle	L	Water quality, consider fencing and water troughs
17		M - H	L		L	No action
18		M - H	L		L	No action
19		M - H	L		L	No action

Overview Habitat Summary Form



## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Podunk Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 796

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (026 - 043)

Photo scale: 1:15,000

[illegible]



Watershed Name: Podunk Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 796

NTS Maps: 092H07, 092H10

Photo scale:

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Podunk Creek UTM Coordinates:

Watershed Code: 310 3678 620 796

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1	A	H	H	LWD instream	L	No action
1	B	H	H	Logjam, excessive LWD instream	L	No action
2	A	M - L	H		L	No action
2	B	M	H	Logjam, CC with setback (LB)	L	No action
3	A	M - H	M	CC with setback (RB)	L	No action
3	B	M - H	M	CC with setback (RB)	L	Level 1 Field Assessment, consider complexing with LWD
4		M	M	CC with setback (LB)	L	No action
5		M - H	L		L	No action
6		M - H	L	CC with setback (RB)	L	No action
7		M	L		L	No action

Overview Habitat Summary Form

**Overview Assessment - Preliminary Habitat Assessment Form**Watershed Name: Podunk Creek UTM Coordinates:Watershed Code: 310 3678 620 796

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
8		M - L	L	CC with setback (RB)	L	No action

Overview Habitat Summary Form

Watershed Name: Spearing Creek

NTS Maps: 092H15 (1:50,000)

Watershed Code: 310 3678 620 357 468

Forest District: Merritt Forest District

[illegible]

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Spearing Creek

Sub-basin: N/A

Watershed Code: 310 3678 620

NTS Maps: 092H07, 092H10

Air Photo Series: 30BCC96 (033 - 035)

Photo scale: 1:15,000

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Spearing Creek UTM Coordinates:

Watershed Code: 310 3678 620 357 468

NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		L - M	L	Flow is intermittent, unstable bank (LB), slide above road (RB)	M	Plant riparian vegetation at slide for stabilization, ensure minimum flow
2		M	L		M	Fish inventory, (presence unknown)
3		M	L	Slide at railroad (RB), unstable bank (LB), rock slide (LB)	M	Fish inventory, Level 1 Field Assessment, consider bank stabilization
4		M	L	CC to marsh (RB)	M	Plant riparian vegetation
5		M	L		L	Conduct fish inventory, (presence unknown)
6		M	L	Intermittent flow	L	No action
7		L	L		L	No action
8		L	L			No action

Overview Habitat Summary Form

[illegible]

## Overview Assessment - Habitat Condition Summary Form

Watershed Name: Vuich CreekSub-basin: N/AWatershed Code: 310 3678 620 647NTS Maps: 092H07, 092H10Air Photo Series: 30BCC96 (043 - 045)Photo scale: 1:15,000

Reach Number	Section Code	Length (m)	Elevation (m)		Gradient (%)	W <sub>b</sub> (m)	Channel Type	Disturbance Types			Barriers	Pools Code	LWD Codes		Riparian Type	Stand Structure	Canopy Closure	Offchannel Habitats
			Upper	Lower														
1		1620	1200	1160	2.5	15	CPb				N	2	F	E	C	MF	1	P
2	A	1410		1200	4.3	15	CPb	EB			N	2	F	E	C	MF	1	F
2	B	450	1280			13	SPr	EB	MC		C/F	3	F	E	C	MF	0	P
3		580	1280	1280	0.0	*12.5	RPgw	DW	BC		N	1	F	E	C	MF	1	F
4	A	1650		1280	2.0	12	RPgw	DW	BC	MC	N	1	F	E	M	MF	1	F
4	B	2300	1360			*10	CPb	BC	MC		N	1	F	E	M	MF	2	F
5		1300	1390	1360	2.3	5	RPgw	BC	MC		N	1	F	E	C	YF	3	G
6		3900	1510	1390	3.1	5	RPgw	EB	MC	BC	N	1	N		C	YF	3	G
7		2100	1845	1510	16.0	5	SPb				G	2	N		C	MF	2	P
TRIB						3	RPgw						A	E	C	YF	2	F
						3	RPgw	EB	BC				A	E	N	INIT	0	F



Watershed Name: Vuich Creek

Sub-basin: N/A

Watershed Code: 310 3678 620 647

NTS Maps: 092H07, 092H10

Air Photo Series:

Photo scale:

[illegible]

### Overview Assessment - Preliminary Habitat Assessment Form

Watershed Name: Vuich Creek UTM Coordinates:

Watershed Code: 310 3678 620 467 NTS maps:

Reach	Section	Habitat Value	Upslope Impact Potential	Major Impacts	Priority	Restoration Opportunities
1		L - M	M	CC (LB), unstable bank (RB), sedimentation	L	Level 1 Field Assessment, consider bank stabilization
2	A	L - M	M	Sedimentation	L	No action
2	B	L - M	M	Sedimentation	L	No action
3		M - H	M	Slide, unstable banks	L	No action
4	A	M - H	M	Unstable banks	L	No action
4	B	M - H	L - M	Unstable banks	L	No action
5		H	L		L	No action
6		H	L		L	No action
7		M	L		L	No action
Tributary		M	L	CC to creek	M	Plant riparian vegetation

Overview Habitat Summary Form

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Recent Aerial Photographs (Form 2A)						
Tulameen River	IRC - Min. of For. Merritt	1996	30BCC96025	85	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96025	86	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96025	87	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96025	103	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96025	104	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96025	105	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96026	95	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	96	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	122	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	123	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	81	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	82	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	83	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	84	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	85	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	86	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	87	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	88	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	89	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96028	115	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	116	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	117	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	118	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	119	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	120	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	121	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	122	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	123	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	124	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	90	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	91	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	114	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	115	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	116	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96044	94	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	95	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	96	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	97	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96044	115	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	116	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	117	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	135	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	136	1:15,000	COL

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Tulameen River	IRC - Min. of For. Merritt	1996	30BCC96044	137	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	138	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	139	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	140	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	141	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	69	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	70	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	72	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96045	73	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	74	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	75	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	76	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96045	92	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	93	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	94	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	114	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	115	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	116	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	130	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	131	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	55	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	56	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	57	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	66	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96046	67	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	68	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	69	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	70	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96046	71	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96046	72	1:15,000	
Arrastra Creek	IRC - Min. of For. Merritt	1996	30BCC96026	125	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	126	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	83	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	84	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96043	85	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	122	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	123	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	124	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	80	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96044	81	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96044	82	1:15,000	COL
Asp Creek	IRC - Min. of For. Merritt	1996	30BCC96027	79	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96027	80	1:15,000	COL

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Asp Creek	IRC - Min. of For. Merritt	1996	30BCC96027	130	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96027	131	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	74	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	75	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	76	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	128	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	129	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	130	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	140	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	141	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	70	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	71	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	133	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	134	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	51	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	52	1:15,000	COL
Champion Creek	IRC - Min. of For. Merritt	1996	30BCC96044	119	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	120	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	121	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	89	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	90	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	116	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	117	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	68	1:15,000	COL
Frenchy Creek	IRC - Min. of For. Merritt	1996	30BCC96046	69	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96025	114	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96025	115	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	86	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	87	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	130	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96026	131	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96026	132	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96043	80	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	81	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	130	1:15,000	COL
Granite Creek	IRC - Min. of For. Merritt	1996	30BCC96044	131	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96025	109	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96025	110	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	88	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96026	89	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	90	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	129	1:15,000	COL

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Granite Creek	IRC - Min. of For. Merritt	1996	30BCC96026	130	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	80	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	81	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	82	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	125	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	126	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	127	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	81	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	82	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	129	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	130	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	131	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	79	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	80	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	81	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	126	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	127	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	55	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	56	1:15,000	COL
Jim Kelly Creek	IRC - Min. of For. Merritt	1996	30BCC96045	92	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	93	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	94	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	110	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	111	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	112	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	113	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	73	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96046	74	1:15,000	COL
Olivine Creek	IRC - Min. of For. Merritt	1996	30BCC96028	118	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	119	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	118	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96045	119	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	120	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	63	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	64	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96046	65	1:15,000	
Otter Creek	IRC - Min. of For. Merritt	1996	30BCC96027	85	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96027	86	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96027	123	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96027	124	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	81	1:15,000	

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Otter Creek	IRC - Min. of For. Merritt	1996	30BCC96028	82	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	83	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	121	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	122	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96028	123	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96029	105	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96029	106	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96029	107	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96029	140	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96029	141	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96029	142	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96030	90	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96030	91	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96030	92	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96030	126	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96030	127	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96030	128	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96032	175	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96032	176	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96032	177	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96033	122	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	123	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	198	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96033	199	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96033	200	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	201	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	202	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	203	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	204	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	205	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	206	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96034	23	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	24	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	25	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	26	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	27	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	28	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	190	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	191	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	192	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96034	193	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96034	194	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96034	195	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96035	27	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96035	28	1:15,000	COL

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Otter Creek	IRC - Min. of For. Merritt	1996	30BCC96035	29	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96036	84	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96036	85	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96036	150	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96036	151	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96037	85	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96037	86	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96038	84	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96038	85	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96038	150	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96038	151	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96070	141	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96070	142	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96070	143	1:15,000	
Podunk Creek	IRC - Min. of For. Merritt	1996	30BCC96026	99	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	100	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	118	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	119	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96026	120	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	90	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	91	1:15,000	COL
Spearing Creek	IRC - Min. of For. Merritt	1996	30BCC96033	204	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96033	205	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	18	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96034	19	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	20	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	21	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96034	22	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96035	17	1:15,000	
	IRC - Min. of For. Merritt	1996	30BCC96035	18	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96035	19	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96035	20	1:15,000	
Vuich Creek	IRC - Min. of For. Merritt	1996	30BCC96043	110	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96043	111	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	96	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	97	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	114	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	115	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96044	116	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	93	1:15,000	COL
	IRC - Min. of For. Merritt	1996	30BCC96045	94	1:15,000	COL



## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
<b>Historical Aerial Photographs (Form 2B)</b>						
Tulameen River	IRC - Min. of Envir. Victoria.	1979	BC79030	247	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79030	248	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	52	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	53	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	69	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	70	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	154	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	155	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	173	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	174	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	175	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	191	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	192	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	205	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	206	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	207	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	208	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	209	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	210	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	189	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	190	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	191	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	192	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	193	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	201	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	202	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	217	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	218	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	219	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	220	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	221	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	222	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	223	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	224	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	225	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	226	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	227	1:20,000	BW
	UBC Geography library	1966	BC5206	122	1:31,680	BW
	UBC Geography library	1966	BC5206	123	1:31,680	BW
	UBC Geography library	1966	BC5206	124	1:31,680	BW
Arrastra Creek	UBC Geography library	1966	BC5206	195	1:31,680	BW
	UBC Geography library	1966	BC5206	196	1:31,680	BW

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Arrastra Creek	UBC Geography library	1966	BC5206	197	1:31,680	BW
	UBC Geography library	1966	BC5206	198	1:31,680	BW
	UBC Geography library	1966	BC5206	199	1:31,680	BW
	UBC Geography library	1966	BC5206	200	1:31,680	BW
Asp Creek	UBC Geography library	1966	BC5189	243	1:31,680	BW
	UBC Geography library	1966	BC5189	244	1:31,680	BW
	UBC Geography library	1966	BC5189	245	1:31,680	BW
	UBC Geography library	1966	BC5189	246	1:31,680	BW
	UBC Geography library	1966	BC5210	38	1:31,680	BW
	UBC Geography library	1966	BC5210	41	1:31,680	BW
	UBC Geography library	1966	BC5210	91	1:31,680	BW
	UBC Geography library	1966	BC5210	92	1:31,680	BW
	UBC Geography library	1966	BC5210	93	1:31,680	BW
Champion Creek	IRC - Min. of Envir. Victoria.	1979	BC79031	170	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	171	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	193	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	194	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	201	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	202	1:20,000	BW
Frenchy Creek	UBC Geography library	1966	BC5210	14	1:31,680	BW
	UBC Geography library	1966	BC5210	15	1:31,680	BW
	UBC Geography library	1966	BC5210	16	1:31,680	BW
	UBC Geography library	1966	BC5210	17	1:31,680	BW
Granite Creek	UBC Geography library	1966	BC5210	14	1:31,680	BW
	UBC Geography library	1966	BC5210	15	1:31,680	BW
	UBC Geography library	1966	BC5210	16	1:31,680	BW
	UBC Geography library	1966	BC5210	17	1:31,680	BW
	UBC Geography library	1966	BC5210	18	1:31,680	BW
	UBC Geography library	1966	BC5210	19	1:31,680	BW
	UBC Geography library	1966	BC5210	20	1:31,680	BW
	UBC Geography library	1966	BC5210	21	1:31,680	BW
	UBC Geography library	1966	BC5210	22	1:31,680	BW
	UBC Geography library	1966	BC5210	23	1:31,680	BW
Jim Kelly Creek	IRC - Min. of Envir. Victoria.	1979	BC79031	190	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	191	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	192	1:20,000	BW
	UBC Geography library	1947	BC603	17	1:31,680	BW
	UBC Geography library	1947	BC603	18	1:31,680	BW
	UBC Geography library	1947	BC603	19	1:31,680	BW
	UBC Geography library	1947	BC603	20	1:31,680	BW

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Jim Kelly Creek	UBC Geography library	1947	BC603	21	1:31,680	BW
Olivine Creek	IRC - Min. of Envir. Victoria.	1979	BC79045	221	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	222	1:20,000	BW
Otter Creek	IRC - Min. of Envir. Victoria.	1979	BC79045	224	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	225	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	301	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79045	302	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	28	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	29	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	30	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	104	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	105	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	141	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	142	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	143	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	213	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	214	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	254	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	255	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79048	256	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	25	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	26	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	73	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	74	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	111	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	112	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	113	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	114	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	115	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	173	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79049	174	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79103	188	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79103	189	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79124	28	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79124	29	1:20,000	BW
Podunk Creek	IRC - Min. of Envir. Victoria.	1979	BC79030	247	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79030	248	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	52	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	53	1:20,000	BW
Vuich Creek	IRC - Min. of Envir. Victoria.	1979	BC79031	175	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	176	1:20,000	BW

## Appendix A: Aerial Photograph Identification

STREAM NAME	REFERENCE	DATE	PHOTO SERIES	PHOTO NUMBER	SCALE	BW / COL
Vuich Creek	IRC - Min. of Envir. Victoria.	1979	BC79031	191	1:20,000	BW
	IRC - Min. of Envir. Victoria.	1979	BC79031	192	1:20,000	BW

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tulameen River	1	7	A	1-Oct	1	114	31 LNC	77	5.31			
					1		LNC	100	12.56			
					1		LNC	104	14.55			
					1		LNC	75	4.39			
					1		LNC	63	2.80			
					1		LNC	82	7.27			
					1		LNC	63	3.50			
					1		LNC	81	6.50			
					1		LNC	64	2.88			
					1		LNC	55	1.77			
					1		LNC	36	0.55			
					1		LNC	35	0.66			
					1		LNC	39	0.70			
					1		LNC	34	0.47			
					1		LNC	34	0.50			
					1		LNC	37	0.63			
					1		LNC	34	0.32			
					1		LNC	30	0.40			
					1		LNC	30	0.25			
					1		LNC	34	0.38			
					1		LNC	31	0.33			
					1		LNC	34	0.45			
					1		LNC	34	0.32			
					1		LNC	30	0.33			
					1		LNC	30	0.32			
					1		LNC	26	0.20			
					1		LNC	85	5.61			
					1		LNC	67	3.46			
					1		LNC	83	6.12			
					1		LNC	67	3.11			
					1		LNC	67	3.50			
					2		LNC	31	0.43			
					2		LNC	35	0.55			
					1		5 RB	49	1.19	1.01		
					1		RB	190	72.49	1.06	294	3+
					1		RB	55	1.81	1.09		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tulameen River	1	7	A		1		RB	56	1.90	1.08		
					1		RB	56	1.71	0.97		
					1		76 CC	108	16.60			
					1		CC	125	30.51			
					1		CC	115	17.30			
					1		CC	113	17.12			
					1		CC	90	10.00			
					1		CC	133	38.22			
					1		CC	90	8.20			
					1		CC	101	15.07			
					1		CC	92	9.52			
					1		CC	91	8.71			
					1		CC	70	3.92			
					1		CC	72	4.18			
					1		CC	80	6.00			
					1		CC	95	11.49			
					2		CC	97	9.86			
					2		CC	65	3.72			
					2		CC	81	6.66			
					2		CC	63	2.97			
					2		CC	67	3.21			
					2		CC	85	7.63			
					2		CC	73	4.80			
					2		CC	74	4.62			
					2		CC	62	2.82			
					2		CC	100	11.85			
					2		CC	55	1.94			
					2		CC	58	2.54			
					2		CC	75	4.72			
					2		CC	35	0.85			
					2		CC	124	28.42			
					2		CC	103	13.32			
					2		CC	116	21.04			
					2		CC	90	8.76			
					2		CC	91	9.31			
					2		CC	65	3.43			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tulameen River	1	7	A		2		CC	58	2.46			
					2		CC	76	5.12			
					2		CC	83	6.53			
					2		CC	101	12.67			
					2		CC	120	20.97			
					2		CC	75	4.51			
					2		CC	61	3.12			
					2		CC	73	2.56			
					2		CC	60	2.25			
					2		CC	71	3.81			
					2		CC	32	0.46			
					2		CC	81	6.00			
					2		CC	35	0.59			
					2		CC	32	0.37			
					2		CC	33	0.45			
					2		CC	35	0.51			
					2		CC	35	0.60			
					2		CC	37	0.72			
					2		CC	35	0.54			
					2		CC	58	2.13			
					2		CC	62	2.88			
					2		CC	61	2.90			
					2		CC	61	3.25			
					2		CC	31	0.30			
					2		CC	30	0.26			
					2		CC	115	21.44			
					2		CC	72	4.71			
					2		CC	99	11.75			
					2		CC	99	10.50			
					2		CC	86	7.44			
					2		CC	78	5.60			
					2		CC	71	4.36			
					2		CC	72	4.00			
					2		CC	82	6.21			
					2		CC	76	4.99			
					2		CC	76	5.59			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch		Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number Age <sup>4</sup>	
Tulameen River	1	7	A		2		CC		40	0.82			
					2		CC		75	5.87			
					2		CC		32	0.42			
					2		CC		36	0.51			
					2		CC		33	0.36			
					2		CC		35	0.40			
Tulameen River	2	7	B	4-Oct	1	66	3	LNC	24	0.18			
					1			LNC	91	7.53			
					1			LNC	64	2.74			
					1		10	RB	53	1.36	0.91		
					1			RB	47	0.95	0.92		
					1			RB	51	1.31	0.99		
					1			RB	46	1.26	1.29		
					1			RB	59	2.34	1.14		
					1			RB	151	29.41	0.85	344	2+
					1			RB	148	27.40	0.85	345	3+
					1			RB	130	19.22	0.87	346	2+
					2			RB	125	17.05	0.87	347	2+
					2			RB	113	15.33	1.06	348	2+
					1		53	CC	95	10.71			
					1			CC	92	9.70			
					1			CC	76	5.02			
					1			CC	71	3.90			
					1			CC	114	18.09			
					1			CC	107	13.58			
					1			CC	86	8.13			
					1			CC	90	8.77			
					1			CC	82	5.95			
					1			CC	85	7.86			
					1			CC	70	3.64			
					1			CC	66	3.50			
					1			CC	90	9.95			
					1			CC	32	0.40			
					1			CC	82	6.80			



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tulameen River	2	7	B		1		CC	93	8.24			
					1		CC	70	3.73			
					1		CC	38	0.66			
					1		CC	36	0.54			
					1		CC	88	8.12			
					1		CC	90	8.76			
					1		CC	89	7.55			
					1		CC	62	2.60			
					1		CC	70	3.29			
					1		CC	38	0.57			
					1		CC	85	6.04			
					1		CC	65	3.25			
					1		CC	39	0.51			
					1		CC	39	0.52			
					1		CC	77	4.93			
					1		CC	89	8.00			
					1		CC	76	5.48			
					1		CC	93	8.86			
					1		CC	75	4.39			
					1		CC	80	5.65			
					1		CC	66	3.00			
					1		CC	29	0.28			
					1		CC	34	0.42			
					1		CC	48	0.63			
					2		CC	110	14.60			
					2		CC	116	17.82			
					2		CC	86	7.73			
					2		CC	74	4.43			
					2		CC	81	5.63			
					2		CC	97	11.49			
					2		CC	109	15.49			
					2		CC	70	3.90			
					2		CC	85	7.05			
					2		CC	98	7.58			
					2		CC	87	7.70			
					2		CC	71	3.98			

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tulameen River	2	7	B		2		CC	35	0.48			
					2		CC	34	0.48			
Tualmeen River	3	10		24-Sep	1	87	11 LNC	100	9.14			
					1		LNC	87	6.96			
					1		LNC	77	5.74			
					1		LNC	123	17.12			
					1		LNC	85	6.36			
					1		LNC	89	6.80			
					1		LNC	109	12.28			
					1		LNC	88	6.66			
					2		LNC	92	7.55			
					2		LNC	120	14.10			
					2		LNC	105	10.09			
					1	42	RB	154	44.40	1.22	14	3+
					1		RB	164	48.97	1.11	15	3+
					1		RB	148	40.20	1.24	16	2+
					1		RB	188	68.82	1.04	17	2+
					1		RB	147	32.56	1.03	18	2+
					1		RB	148	33.40	1.03	19	
					1		RB	149	35.16	1.06	20	3+
					1		RB	128	21.90	1.04	21	2+
					1		RB	128	31.85	1.52	22	2+
					1		RB	125	18.76	0.96	23	2+
					1		RB	113	16.67	1.16	24	1+
					1		RB	112	14.14	1.01	25	1+
					1		RB	57	2.47	1.33		
					1		RB	59	2.67	1.30		
					1		RB	47	1.67	1.61		
					1		RB	138	25.91	0.99		
					1		RB	104	11.79	1.05		
					1		RB	106	12.95	1.09		
					1		RB	110	14.70	1.10		
					1		RB	108	12.60	1.00		
					1		RB	110	12.13	0.91		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tualmeen River	3	10			1		RB	53	1.60	1.07		
					1		RB	43	1.09	1.37		
					1		RB	51	1.58	1.19		
					1		RB	45	1.10	1.21		
					1		RB	46	1.24	1.27		
					1		RB	45	1.08	1.19		
					1		RB	86	8.44	1.33		
					1		RB	62	2.54	1.07		
					1		RB	47	1.08	1.04		
					1		RB	47	1.14	1.10		
					1		RB	31	0.48	1.61		
					1		RB	82	6.61	1.20		
					1		RB	37	1.13	2.23		
					2		RB	63	3.09	1.24		
					2		RB	133	24.27	1.03		
					2		RB	115	17.46	1.15	30	1+
					2		RB	140	31.82	1.16	31	na
					2		RB	52	1.87	1.33		
					2		RB	40	0.56	0.88		
					2		RB	37	0.46	0.91		
					2		RB	64	2.63	1.00		
					1	34	CC	165	68.82			
					1		CC	142	50.89			
					1		CC	89	8.76			
					1		CC	90	7.73			
					1		CC	75	5.74			
					1		CC	89	8.48			
					1		CC	72	4.45			
					1		CC	82	5.90			
					1		CC	75	5.17			
					1		CC	81	6.72			
					1		CC	64	3.25			
					1		CC	85	7.90			
					1		CC	91	7.83			
					1		CC	93	9.57			
					1		CC	91	8.08			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Tualmeen River	3	10			1		CC	77	4.87				
					1		CC	74	4.72				
					1		CC	81	5.91				
					1		CC	83	6.49				
					1		CC	76	4.92				
					1		CC	86	7.16				
					1		CC	72	4.03				
					1		CC	78	4.85				
					1		CC	87	8.02				
					2		CC	69	3.90				
					2		CC	80	5.38				
					2		CC	86	7.06				
					2		CC	72	4.46				
					2		CC	88	7.76				
					2		CC	84	7.74				
					2		CC	85	7.22				
					2		CC	87	8.20				
					2		CC	67	3.99				
					2		CC	74	5.10				
Tulameen River	4	14	B	28-Sep	1	63	63	RB	166	41.70	0.91	186	3+
					1		RB	136	24.18	0.96	187	2+	
					1		RB	123	18.74	1.01	188	2+	
					1		RB	133	19.94	0.85	189	2+	
					1		RB	112	17.18	1.22	190	2+	
					1		RB	102	10.29	0.97	191	1+	
					1		RB	80	6.80	1.33	192	1+	
					1		RB	85	6.20	1.01	193	1+	
					1		RB	92	7.72	0.99	194	1+	
					1		RB	94	8.85	1.07	195	1+	
					1		RB	154	42.05	1.15	196	3+	
					1		RB	143	31.10	1.06	197	3+	
					1		RB	117	15.73	0.98	198	1+	
					1		RB	122	19.19	1.06	199	2+	
					1		RB	135	25.87	1.05	200	2+	

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Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Tulameen River	4	14	B		1		RB	130	20.82	0.95	201	2+
					1		RB	121	19.30	1.09	202	2+
					1		RB	106	13.68	1.15	203	2+
					1		RB	88	7.76	1.14	204	1+
					1		RB	100	9.58	0.96	205	1+
					1		RB	105	13.18	1.14	206	1+
					1		RB	98	10.24	1.09	207	1+
					1		RB	38	0.67	1.22		
					1		RB	37	0.52	1.03		
					1		RB	38	0.68	1.24		
					1		RB	47	1.09	1.05		
					1		RB	36	0.60	1.29		
					1		RB	98	8.20	0.87		
					1		RB	93	8.03	1.00		
					1		RB	86	6.30	0.99		
					1		RB	38	0.89	1.62		
					1		RB	83	7.65	1.34		
					1		RB	83	7.52	1.32		
					1		RB	76	5.00	1.14		
					1		RB	102	11.29	1.06		
					1		RB	108	2.70	0.21		
					1		RB	87	8.16	1.24		
					1		RB	94	9.67	1.16		
					1		RB	80	5.64	1.10		
					1		RB	112	12.15	0.86		
					1		RB	132	26.65	1.16	208	2+
					1		RB	99	10.25	1.06	209	1+
					1		RB	107	14.28	1.17	210	1+
					1		RB	125	17.83	0.91	211	2+
					1		RB	40	1.02	1.59		
					1		RB	44	0.98	1.15		
					1		RB	35	0.40	0.93		
					1		RB	37	0.48	0.95		
					1		RB	39	0.72	1.21		
					1		RB	50	1.53	1.22		
					1		RB	115	15.28	1.00	212	2+

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Tulameen River	4	14	B		1		RB	120	21.04	1.22	213	2+	
					1		RB	118	17.79	1.08	214	1+	
					1		RB	107	14.25	1.16	215	1+	
					1		RB	116	15.35	0.98	216	2+	
					1		RB	105	11.58	1.00	217	1+	
					1		RB	105	11.08	0.96			
					1		RB	93	8.14	1.01			
					1		RB	77	5.50	1.20			
					1		RB	82	5.84	1.06			
					1		RB	85	6.39	1.04			
					1		RB	74	4.89	1.21			
					2		RB	90	8.51	1.17			
Tulameen River	5	21	A	25-Sep	1	73	73	RB	157	44.48	1.15	33	na
					1		RB	241	112.73	0.81	34	na	
					1		RB	164	50.57	1.15	35	na	
					1		RB	167	57.39	1.23	36	na	
					1		RB	148	32.49	1.00	37	3+	
					1		RB	152	39.40	1.12	38	3+	
					1		RB	128	22.62	1.08	39	2+	
					1		RB	135	29.25	1.19	40	2+	
					1		RB	140	27.99	1.02	41	2+	
					1		RB	132	25.24	1.10	42	2+	
					1		RB	124	19.87	1.04	43	2+	
					1		RB	122	20.96	1.15	44	2+	
					1		RB	137	28.11	1.09	45	2+	
					1		RB	127	22.22	1.08	46	2+	
					1		RB	127	21.00	1.03	47	2+	
					1		RB	110	16.23	1.22	48	1+	
					1		RB	114	19.68	1.33	49	1+	
					1		RB	105	14.93	1.29	50	1+	
					1		RB	105	14.95	1.29			
					1		RB	89	8.26	1.17			
					1		RB	101	14.34	1.39			
					1		RB	105	14.07	1.22			

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Tulameen River	5	21	A		1		RB	93	10.43	1.30		
					1		RB	91	7.51	1.00		
					1		RB	95	10.93	1.27		
					1		RB	93	9.27	1.15		
					1		RB	108	17.23	1.37		
					1		RB	112	18.58	1.32		
					1		RB	98	8.79	0.93		
					1		RB	105	12.56	1.08		
					1		RB	105	13.36	1.15		
					1		RB	102	10.87	1.02		
					1		RB	92	7.88	1.01		
					1		RB	105	13.46	1.16		
					1		RB	89	7.80	1.11		
					1		RB	98	11.10	1.18		
					1		RB	88	6.80	1.00		
					1		RB	84	6.21	1.05		
					1		RB	108	13.49	1.07		
					1		RB	88	7.39	1.08		
					1		RB	96	10.92	1.23		
					1		RB	84	6.16	1.04		
					1		RB	90	9.49	1.30		
					1		RB	83	5.72	1.00		
					1		RB	86	5.99	0.94		
					1		RB	90	8.03	1.10		
					1		RB	92	9.00	1.16		
					1		RB	96	8.76	0.99		
					1		RB	82	5.67	1.03		
					1		RB	103	10.78	0.99		
					1		RB	70	5.03	1.47		
					1		RB	70	4.56	1.33		
					1		RB	70	3.84	1.12		
					1		RB	73	4.68	1.20		
					1		RB	68	3.25	1.03		
					1		RB	76	4.79	1.09		
					1		RB	73	3.92	1.01		
					1		RB	68	3.88	1.23		

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Tulameen River	5	21	A		1		RB	37	0.43	0.85			
					1		RB	32	0.31	0.95			
					2		RB	110	17.83	1.34	51	1+	
					2		RB	138	30.93	1.18	52	2+	
					2		RB	120	20.36	1.18	53	2+	
					2		RB	100	10.62	1.06	54	1+	
					2		RB	141	35.34	1.26	55	2+	
					2		RB	157	34.09	0.88	56	3+	
					2		RB	88	8.65	1.27	57	1+	
					2		RB	72	3.96	1.06	58	1+	
					2		RB	77	4.58	1.00	59	1+	
					2		RB	70	3.48	1.01	60	0+	
					2		RB	36	0.42	0.90			
					2		RB	34	0.40	1.02			
					2		RB	34	0.44	1.12			
Arrastra Creek	1	1	A	29-Sep	1	70	70	RB	105	10.84	0.94	249	1+
					1		RB	110	14.24	1.07	250	2+	
					1		RB	162	48.01	1.13	251	na	
					1		RB	148	37.12	1.15	252	3+	
					1		RB	128	19.52	0.93	253	2+	
					1		RB	139	28.60	1.06	254	2+	
					1		RB	186	80.22	1.25	255	4+	
					1		RB	168	45.44	0.96	256	2+	
					1		RB	135	22.36	0.91	257	2+	
					1		RB	107	15.18	1.24	258	2+	
					1		RB	100	10.98	1.10	259	1+	
					1		RB	132	23.00	1.00			
					1		RB	128	21.70	1.03			
					1		RB	104	11.49	1.02			
					1		RB	102	11.25	1.06			
					1		RB	110	16.17	1.21			
					1		RB	100	10.69	1.07			
					1		RB	75	3.90	0.92			
					1		RB	90	8.07	1.11			



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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Arrastra Creek	1	1	A		1		RB	91	7.58	1.01		
					1		RB	98	10.89	1.16		
					1		RB	84	5.33	0.90		
					1		RB	73	3.96	1.02		
					1		RB	85	7.04	1.15		
					1		RB	75	4.38	1.04		
					1		RB	80	5.78	1.13		
					1		RB	120	15.22	0.88		
					1		RB	113	14.73	1.02		
					1		RB	99	8.09	0.83		
					1		RB	117	15.76	0.98	260	2+
					1		RB	130	20.65	0.94	261	2+
					1		RB	72	4.25	1.14	262	1+
					1		RB	117	14.94	0.93		
					1		RB	96	9.97	1.13		
					1		RB	96	9.33	1.05		
					1		RB	99	20.00	2.06		
					1		RB	92	7.86	1.01		
					1		RB	95	9.94	1.16		
					1		RB	95	9.97	1.16		
					1		RB	73	5.06	1.30		
					1		RB	87	6.36	0.97		
					1		RB	88	7.19	1.06		
					1		RB	108	14.03	1.11		
					1		RB	112	15.10	1.07		
					1		RB	98	9.08	0.96		
					1		RB	103	11.41	1.04		
					1		RB	107	11.30	0.92		
					1		RB	115	13.62	0.90		
					1		RB	94	8.93	1.08		
					1		RB	97	9.78	1.07		
					1		RB	97	8.47	0.93		
					1		RB	83	6.31	1.10		
					1		RB	87	7.24	1.10		
					1		RB	69	3.13	0.95		
					1		RB	81	5.21	0.98		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Arrastra Creek	1	1	A		1		RB	92	7.84	1.01			
					1		RB	95	8.11	0.95			
					1		RB	87	7.22	1.10			
					1		RB	105	9.76	0.84			
					1		RB	90	6.10	0.84			
					1		RB	40	0.58	0.91			
					1		RB	31	0.24	0.81			
					1		RB	38	0.49	0.89			
					1		RB	37	0.39	0.77			
					2		RB	100	9.22	0.92			
					2		RB	96	9.50	1.07			
					2		RB	104	11.30	1.00			
					2		RB	89	7.61	1.08			
					2		RB	94	9.74	1.17			
					2		RB	133	23.17	0.98	263	3+	
Arrastra Creek	2	1	B	29-Sep	1	72	72	RB	155	31.59	0.85	234	2+
					1		RB	165	47.50	1.06	235	3+	
					1		RB	190	71.81	1.05	236	4+	
					1		RB	183	62.81	1.02	237	na	
					1		RB	137	25.23	0.98	238	2+	
					1		RB	148	20.90	0.64	239	2+	
					1		RB	110	11.78	0.89	240	1+	
					1		RB	133	21.48	0.91	241	2+	
					1		RB	123	17.71	0.95	242	1+	
					1		RB	116	14.53	0.93	243	1+	
					1		RB	116	16.97	1.09	244	2+	
					1		RB	96	8.25	0.93	245	1+	
					1		RB	80	5.07	0.99	246	1+	
					1		RB	96	8.08	0.91			
					1		RB	68	3.67	1.17			
					1		RB	36	0.49	1.05			
					1		RB	30	0.23	0.85			
					1		RB	33	0.29	0.81			
					1		RB	128	21.00	1.00			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Arrastra Creek	2	1	B		1		RB	117	14.20	0.89		
					1		RB	118	15.32	0.93		
					1		RB	170	43.43	0.88	247	3+
					1		RB	140	26.54	0.97		
					1		RB	101	12.89	1.25		
					1		RB	105	12.40	1.07		
					1		RB	132	20.28	0.88		
					1		RB	104	12.79	1.14		
					1		RB	98	10.30	1.09		
					1		RB	84	6.62	1.12		
					1		RB	105	11.69	1.01		
					1		RB	64	1.96	0.75		
					1		RB	92	7.43	0.95		
					1		RB	81	5.83	1.10		
					1		RB	71	4.07	1.14		
					1		RB	74	3.81	0.94		
					1		RB	71	4.04	1.13		
					1		RB	103	8.91	0.82		
					1		RB	93	7.67	0.95		
					1		RB	70	3.67	1.07		
					1		RB	153	31.28	0.87		
					1		RB	116	16.54	1.06		
					1		RB	111	13.77	1.01		
					1		RB	108	12.04	0.96		
					1		RB	116	15.90	1.02		
					1		RB	92	8.21	1.05		
					1		RB	109	11.83	0.91		
					1		RB	116	14.39	0.92		
					1		RB	100	9.88	0.99		
					1		RB	111	15.59	1.14		
					1		RB	102	11.01	1.04		
					1		RB	103	10.90	1.00		
					1		RB	91	7.35	0.98		
					1		RB	77	4.82	1.06		
					1		RB	94	8.14	0.98		
					1		RB	78	4.37	0.92		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Arrastra Creek	2	1	B		1		RB	100	9.76	0.98			
					1		RB	76	4.96	1.13			
					1		RB	96	9.16	1.04			
					1		RB	75	4.41	1.05			
					1		RB	72	3.71	0.99			
					1		RB	73	3.27	0.84			
					1		RB	69	3.26	0.99			
					1		RB	38	0.39	0.71			
					1		RB	32	0.26	0.79			
					1		RB	39	0.46	0.78			
					1		RB	32	0.22	0.67			
					1		RB	30	0.22	0.81			
					2		RB	83	6.88	1.20			
					2		RB	178	58.76	1.04	248	3+	
					2		RB	108	10.83	0.86			
					2		RB	114	14.93	1.01			
					2		RB	83	5.66	0.99			
Arrastra Creek	3	3		29-Sep	1	80	80	RB	90	8.30	1.14	218	na
					1		RB	113	12.68	0.88	219	1+	
					1		RB	180	64.30	1.10	220	na	
					1		RB	146	33.00	1.06	221	2+	
					1		RB	90	8.25	1.13	222	1+	
					1		RB	101	10.99	1.07			
					1		RB	72	4.30	1.15			
					1		RB	90	8.62	1.18			
					1		RB	82	7.06	1.28			
					1		RB	33	0.46	1.28			
					1		RB	70	3.39	0.99	223	1+	
					1		RB	135	28.21	1.15	224	2+	
					1		RB	100	10.84	1.08	225	1+	
					1		RB	112	13.42	0.96	226	1+	
					1		RB	113	14.67	1.02			
					1		RB	120	19.54	1.13			
					1		RB	100	10.90	1.09	227	1+	

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Arrastra Creek	3	3			1		RB	99	9.46	0.97		
					1		RB	100	10.95	1.10	228	1+
					1		RB	96	9.76	1.10		
					1		RB	70	3.80	1.11		
					1		RB	99	9.31	0.96		
					1		RB	90	7.50	1.03		
					1		RB	67	3.26	1.08		
					1		RB	90	8.10	1.11		
					1		RB	124	20.03	1.05		
					1		RB	170	59.30	1.21	229	3+
					1		RB	157	39.56	1.02	230	3+
					1		RB	113	13.57	0.94		
					1		RB	115	14.94	0.98		
					1		RB	93	8.57	1.07		
					1		RB	67	3.22	1.07		
					1		RB	37	0.50	0.99		
					1		RB	134	25.40	1.06	231	2+
					1		RB	99	11.08	1.14	232	1+
					1		RB	101	9.37	0.91		
					1		RB	103	11.75	1.08		
					1		RB	36	0.42	0.90		
					1		RB	77	5.68	1.24		
					1		RB	90	8.18	1.12		
					1		RB	113	14.87	1.03		
					1		RB	95	9.23	1.08		
					1		RB	110	14.22	1.07		
					1		RB	32	0.26	0.79		
					1		RB	104	9.61	0.85		
					1		RB	78	5.50	1.16		
					1		RB	64	3.04	1.16		
					1		RB	74	3.74	0.92		
					1		RB	37	0.31	0.61		
					1		RB	37	0.52	1.03		
					1		RB	35	0.81	1.89		
					1		RB	34	0.41	1.04		
					1		RB	37	0.55	1.09		

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Arrastra Creek	3	3			1		RB	29	0.24	0.98			
					1		RB	37	0.52	1.03			
					1		RB	134	20.91	0.87			
					1		RB	83	5.84	1.02			
					1		RB	90	7.67	1.05			
					1		RB	100	10.00	1.00			
					1		RB	100	9.71	0.97			
					1		RB	81	5.14	0.97			
					1		RB	96	8.04	0.91			
					1		RB	81	4.99	0.94			
					1		RB	41	0.77	1.12			
					1		RB	37	0.56	1.11			
					1		RB	38	0.78	1.42			
					1		RB	29	0.34	1.39			
					1		RB	33	0.51	1.42			
					1		RB	37	0.43	0.85			
					2		RB	94	8.40	1.01			
					2		RB	153	46.17	1.29			
					2		RB	170	53.96	1.10	233	4+	
					2		RB	120	19.85	1.15			
					2		RB	105	12.76	1.10			
					2		RB	88	6.30	0.92			
					2		RB	38	0.71	1.29			
					2		RB	35	0.27	0.63			
					2		RB	40	0.75	1.17			
					2		RB	32	0.28	0.85			
					2		RB	30	0.34	1.26			
Asp Creek	1	1	A	1-Oct	1	194	194	RB	110	15.25	1.15	295	2+
					1			RB	158	41.93	1.06	296	2+
					1			RB	158	44.23	1.12	297	2+
					1			RB	160	54.36	1.33	298	3+
					1			RB	167	67.63	1.45	299	3+
					1			RB	185	76.52	1.21	300	4+
					1			RB	141	31.01	1.11	301	2+

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Asp Creek	1	1	A		1		RB	141	31.21	1.11	302	2+
					1		RB	146	35.93	1.15	303	3+
					1		RB	142	29.62	1.03	304	na
					1		RB	107	14.25	1.16	305	1+
					1		RB	84	6.24	1.05	306	1+
					1		RB	113	17.32	1.20	307	2+
					1		RB	95	9.66	1.13		
					1		RB	93	9.09	1.13		
					1		RB	82	7.22	1.31		
					1		RB	88	7.87	1.15		
					1		RB	55	1.79	1.08		
					1		RB	48	1.05	0.95		
					1		RB	50	1.52	1.22		
					1		RB	57	2.09	1.13		
					1		RB	53	1.93	1.30		
					1		RB	55	2.35	1.41		
					1		RB	45	1.38	1.51		
					1		RB	46	0.94	0.97		
					1		RB	45	1.31	1.44		
					1		RB	140	30.45	1.11		
					1		RB	70	4.32	1.26		
					1		RB	75	5.92	1.40		
					1		RB	110	16.47	1.24		
					1		RB	128	19.58	0.93		
					1		RB	121	23.08	1.30		
					1		RB	105	12.22	1.06		
					1		RB	77	5.49	1.20		
					1		RB	88	6.55	0.96		
					1		RB	108	13.58	1.08		
					1		RB	83	7.74	1.35		
					1		RB	94	11.24	1.35		
					1		RB	96	11.19	1.26		
					1		RB	100	13.94	1.39		
					1		RB	75	5.00	1.19		
					1		RB	88	7.39	1.08		
					1		RB	65	3.45	1.26		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	1	1	A		1		RB	84	5.66	0.95		
					1		RB	90	7.48	1.03		
					1		RB	71	4.81	1.34		
					1		RB	85	6.37	1.04		
					1		RB	71	3.70	1.03		
					1		RB	52	1.89	1.34		
					1		RB	38	0.72	1.31		
					1		RB	45	1.06	1.16		
					1		RB	42	0.71	0.96		
					1		RB	62	2.68	1.12		
					1		RB	50	1.06	0.85		
					1		RB	55	2.04	1.23		
					1		RB	47	1.78	1.71		
					1		RB	47	1.05	1.01		
					1		RB	54	1.53	0.97		
					1		RB	46	0.98	1.01		
					1		RB	45	1.49	1.64		
					1		RB	47	1.15	1.11		
					1		RB	50	1.39	1.11		
					1		RB	47	1.17	1.13		
					1		RB	40	0.67	1.05		
					1		RB	42	0.62	0.84		
					1		RB	40	0.53	0.83		
					1		RB	43	0.66	0.83		
					1		RB	34	0.37	0.94		
					1		RB	35	0.46	1.07		
					1		RB	70	3.55	1.03		
					1		RB	48	1.07	0.97		
					1		RB	80	7.77	1.52		
					1		RB	53	1.61	1.08		
					1		RB	90	7.35	1.01		
					1		RB	100	12.56	1.26		
					1		RB	97	8.10	0.89		
					1		RB	85	6.57	1.07		
					1		RB	75	4.73	1.12		
					1		RB	39	0.73	1.23		



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	1	1	A		1		RB	47	1.21	1.17		
					1		RB	85	6.93	1.13		
					1		RB	41	0.64	0.93		
					1		RB	50	1.27	1.02		
					1		RB	71	5.05	1.41		
					1		RB	45	0.88	0.97		
					1		RB	38	0.45	0.82		
					1		RB	66	3.68	1.28		
					1		RB	53	1.66	1.12		
					1		RB	47	1.05	1.01		
					1		RB	81	6.40	1.20		
					1		RB	54	1.46	0.93		
					1		RB	74	3.93	0.97		
					1		RB	48	0.97	0.88		
					1		RB	93	7.68	0.95		
					1		RB	88	6.77	0.99		
					1		RB	80	4.67	0.91		
					1		RB	76	5.03	1.15		
					1		RB	134	26.97	1.12		
					1		RB	77	5.25	1.15		
					1		RB	63	3.74	1.50		
					1		RB	76	4.41	1.00		
					1		RB	35	0.23	0.54		
					1		RB	81	5.50	1.03		
					1		RB	61	1.82	0.80		
					1		RB	88	6.70	0.98		
					1		RB	48	1.42	1.28		
					1		RB	46	1.55	1.59		
					1		RB	58	1.83	0.94		
					1		RB	78	4.58	0.97		
					1		RB	86	6.79	1.07		
					1		RB	35	0.45	1.05		
					1		RB	74	3.86	0.95		
					1		RB	96	11.13	1.26		
					1		RB	47	1.17	1.13		
					1		RB	128	21.21	1.01		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	1	1	A		1		RB	78	6.26	1.32		
					1		RB	41	0.84	1.22		
					1		RB	75	5.19	1.23		
					1		RB	91	7.56	1.00		
					1		RB	40	0.81	1.27		
					1		RB	37	0.44	0.87		
					1		RB	52	1.61	1.15		
					1		RB	53	1.43	0.96		
					1		RB	41	0.80	1.16		
					1		RB	41	0.68	0.99		
					1		RB	72	3.33	0.89		
					1		RB	37	0.48	0.95		
					1		RB	46	1.08	1.11		
					1		RB	42	0.53	0.72		
					1		RB	43	0.62	0.78		
					1		RB	36	0.40	0.86		
					1		RB	45	0.85	0.93		
					1		RB	48	1.31	1.18		
					1		RB	42	0.69	0.93		
					1		RB	46	1.14	1.17		
					1		RB	49	1.18	1.00		
					1		RB	38	1.78	3.24		
					1		RB	42	0.78	1.05		
					1		RB	38	0.58	1.06		
					1		RB	43	0.80	1.01		
					1		RB	43	0.66	0.83		
					1		RB	48	0.93	0.84		
					1		RB	57	1.93	1.04		
					1		RB	44	0.80	0.94		
					1		RB	47	1.08	1.04		
					1		RB	45	1.08	1.19		
					1		RB	45	0.46	0.50		
					1		RB	39	0.54	0.91		
					1		RB	50	1.30	1.04		
					1		RB	45	0.84	0.92		
					1		RB	50	1.26	1.01		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	1	1	A		1		RB	51	1.35	1.02		
					1		RB	40	0.73	1.14		
					1		RB	54	1.71	1.09		
					1		RB	41	0.67	0.97		
					1		RB	41	0.69	1.00		
					1		RB	42	0.75	1.01		
					1		RB	48	1.24	1.12		
					1		RB	43	1.03	1.30		
					1		RB	37	0.66	1.30		
					1		RB	40	0.67	1.05		
					1		RB	41	0.67	0.97		
					2		RB	100	13.12	1.31		
					2		RB	51	1.43	1.08		
					2		RB	49	1.31	1.11		
					2		RB	48	0.99	0.90		
					2		RB	48	0.95	0.86		
					2		RB	70	3.60	1.05		
					2		RB	43	0.80	1.01		
					2		RB	50	1.00	0.80		
					2		RB	48	1.04	0.94		
					2		RB	52	1.21	0.86		
					2		RB	53	1.38	0.93		
					2		RB	44	1.11	1.30		
					2		RB	72	8.70	2.33		
					2		RB	93	10.31	1.28		
					2		RB	96	6.42	0.73		
					2		RB	93	10.00	1.24		
					2		RB	48	1.42	1.28		
					2		RB	45	0.90	0.99		
					2		RB	86	6.64	1.04		
					2		RB	41	0.64	0.93		
					2		RB	38	0.54	0.98		
					2		RB	80	44.69	8.73		
					2		RB	43	0.73	0.92		
					2		RB	47	1.04	1.00		
					2		RB	92	11.54	1.48		

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Asp Creek	1	1	A		2		RB	52	1.59	1.13			
					2		RB	40	0.64	1.00			
					2		RB	40	0.68	1.06			
					2		RB	125	19.08	0.98			
					2		RB	122	23.60	1.30			
					2		RB	164	55.94	1.27	308	3+	
					2		RB	202	94.66	1.15	309	4+	
Asp Creek	2	3	A	30-Sep	1	141	141	RB	93	7.58	0.94	279	1+
					1		RB	80	4.56	0.89	280	1+	
					1		RB	146	35.65	1.15	281	2+	
					1		RB	145	37.70	1.24	282	2+	
					1		RB	140	27.49	1.00	283	2+	
					1		RB	125	21.84	1.12	284	2+	
					1		RB	126	19.88	0.99	285	1+	
					1		RB	115	15.92	1.05	286	2+	
					1		RB	87	7.90	1.20	287	1+	
					1		RB	124	21.44	1.12	288	2+	
					1		RB	77	5.83	1.28	289	1+	
					1		RB	125	20.75	1.06	290	2+	
					1		RB	100	12.86	1.29	291	1+	
					1		RB	79	4.52	0.92			
					1		RB	87	6.94	1.05			
					1		RB	99	10.60	1.09			
					1		RB	121	21.06	1.19			
					1		RB	73	3.58	0.92			
					1		RB	43	0.58	0.73			
					1		RB	76	4.28	0.97			
					1		RB	62	2.66	1.12			
					1		RB	80	6.09	1.19			
					1		RB	83	5.31	0.93			
1		RB	83	5.22	0.91								
1		RB	72	4.29	1.15								
1		RB	64	2.77	1.06								
1		RB	110	12.20	0.92								

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	2	3	A		1		RB	72	3.71	0.99		
					1		RB	48	1.20	1.09		
					1		RB	75	4.31	1.02		
					1		RB	79	4.24	0.86		
					1		RB	69	3.72	1.13		
					1		RB	69	3.69	1.12		
					1		RB	72	3.84	1.03		
					1		RB	46	1.20	1.23		
					1		RB	37	0.55	1.09		
					1		RB	43	1.16	1.46		
					1		RB	67	3.80	1.26		
					1		RB	40	0.91	1.42		
					1		RB	34	0.64	1.63		
					1		RB	40	0.78	1.22		
					1		RB	70	3.24	0.94		
					1		RB	47	1.34	1.29		
					1		RB	70	3.31	0.97		
					1		RB	35	0.46	1.07		
					1		RB	37	0.79	1.56		
					1		RB	46	1.15	1.18		
					1		RB	33	0.42	1.17		
					1		RB	43	0.31	0.39		
					1		RB	43	0.95	1.19		
					1		RB	42	0.98	1.32		
					1		RB	37	0.50	0.99		
					1		RB	41	0.61	0.89		
					1		RB	40	0.86	1.34		
					1		RB	42	0.79	1.07		
					1		RB	48	1.04	0.94		
					1		RB	40	0.58	0.91		
					1		RB	45	0.98	1.08		
					1		RB	50	1.43	1.14		
					1		RB	40	0.86	1.34		
					1		RB	35	0.44	1.03		
					1		RB	46	0.94	0.97		
					1		RB	42	0.74	1.00		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	2	3	A		1		RB	30	0.32	1.19		
					1		RB	43	0.95	1.19		
					1		RB	45	1.03	1.13		
					1		RB	39	0.58	0.98		
					1		RB	44	0.84	0.99		
					1		RB	43	0.96	1.21		
					1		RB	40	0.65	1.02		
					1		RB	36	0.42	0.90		
					1		RB	43	0.87	1.09		
					1		RB	42	0.77	1.04		
					1		RB	36	0.60	1.29		
					1		RB	39	0.61	1.03		
					1		RB	38	0.64	1.17		
					1		RB	38	0.74	1.35		
					1		RB	42	0.47	0.63		
					1		RB	30	0.32	1.19		
					1		RB	42	0.46	0.62		
					1		RB	40	0.76	1.19		
					1		RB	31	0.43	1.44		
					1		RB	42	0.66	0.89		
					1		RB	41	0.65	0.94		
					1		RB	44	0.94	1.10		
					1		RB	40	0.65	1.02		
					1		RB	39	0.56	0.94		
					1		RB	42	0.85	1.15		
					1		RB	73	4.38	1.13		
					1		RB	32	0.38	1.16		
					1		RB	40	0.80	1.25		
					1		RB	73	4.40	1.13		
					1		RB	74	4.32	1.07		
					1		RB	45	0.90	0.99		
					1		RB	37	0.58	1.15		
					1		RB	68	3.45	1.10		
					1		RB	68	3.82	1.21		
					1		RB	77	4.45	0.97		
					1		RB	111	12.54	0.92		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Asp Creek	2	3	A		1		RB	71	3.90	1.09		
					1		RB	87	6.48	0.98		
					1		RB	80	5.20	1.02		
					1		RB	70	3.77	1.10		
					1		RB	69	4.10	1.25		
					1		RB	83	5.73	1.00		
					1		RB	103	10.56	0.97		
					1		RB	75	4.08	0.97		
					1		RB	66	3.28	1.14		
					1		RB	74	3.78	0.93		
					1		RB	85	6.27	1.02		
					1		RB	64	2.97	1.13		
					1		RB	46	0.98	1.01		
					1		RB	44	0.92	1.08		
					1		RB	42	0.74	1.00		
					1		RB	40	0.68	1.06		
					1		RB	45	0.98	1.08		
					1		RB	64	2.27	0.87		
					1		RB	47	1.08	1.04		
					1		RB	40	0.60	0.94		
					1		RB	43	0.68	0.86		
					1		RB	40	0.61	0.95		
					1		RB	37	0.60	1.18		
					1		RB	39	0.62	1.05		
					1		RB	42	0.81	1.09		
					1		RB	41	0.64	0.93		
					1		RB	34	0.35	0.89		
					2		RB	45	1.27	1.39		
					2		RB	36	0.42	0.90		
					2		RB	74	4.92	1.21		
					2		RB	82	5.71	1.04		
					2		RB	89	4.81	0.68		
					2		RB	100	9.47	0.95		
					2		RB	85	6.51	1.06		
					2		RB	72	3.70	0.99		
					2		RB	68	2.99	0.95		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Asp Creek	2	3	A		2		RB	47	1.12	1.08			
					2		RB	37	0.62	1.22			
					2		RB	37	0.62	1.22			
					2		RB	39	0.75	1.26			
					2		RB	145	28.28	0.93	292	2+	
					2		RB	127	22.42	1.09	293	2+	
Asp Creek	3	4		30-Sep	1	72	72	RB	95	8.17	0.95	264	1+
					1		RB	117	16.92	1.06	265	2+	
					1		RB	189	67.32	1.00	266	na	
					1		RB	139	29.60	1.10	267	3+	
					1		RB	156	44.58	1.17	268	3+	
					1		RB	125	23.55	1.21	269	2+	
					1		RB	138	30.86	1.17	270	3+	
					1		RB	118	19.15	1.17	271	1+	
					1		RB	114	18.43	1.24	272	1+	
					1		RB	107	15.79	1.29	273	2+	
					1		RB	65	2.65	0.96	274	1+	
					1		RB	136	32.46	1.29	275	3+	
					1		RB	113	16.03	1.11	276	2+	
					1		RB	97	9.14	1.00	277	1+	
					1		RB	112	16.20	1.15	278	2+	
					1		RB	105	10.58	0.91			
					1		RB	95	10.02	1.17			
					1		RB	108	15.34	1.22			
					1		RB	40	0.57	0.89			
					1		RB	97	11.80	1.29			
					1		RB	91	8.70	1.15			
					1		RB	88	6.98	1.02			
					1		RB	67	3.93	1.31			
					1		RB	74	4.68	1.15			
					1		RB	68	3.15	1.00			
					1		RB	70	3.78	1.10			
					1		RB	70	3.78	1.10			
					1		RB	40	0.55	0.86			



Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number Age <sup>4</sup>
Asp Creek	3	4			1		RB	38	0.54	0.98	
					1		RB	41	0.61	0.89	
					1		RB	39	0.52	0.88	
					1		RB	42	0.70	0.94	
					1		RB	48	0.94	0.85	
					1		RB	41	0.69	1.00	
					1		RB	45	0.88	0.97	
					1		RB	44	0.51	0.60	
					1		RB	43	0.67	0.84	
					1		RB	67	3.05	1.01	
					1		RB	100	11.13	1.11	
					1		RB	117	16.51	1.03	
					1		RB	124	18.38	0.96	
					1		RB	103	10.65	0.97	
					1		RB	98	10.63	1.13	
					1		RB	114	14.12	0.95	
					1		RB	117	18.40	1.15	
					1		RB	114	16.43	1.11	
					1		RB	82	4.85	0.88	
					1		RB	90	7.65	1.05	
					1		RB	95	8.81	1.03	
					1		RB	96	10.38	1.17	
					1		RB	93	8.25	1.03	
					1		RB	96	9.13	1.03	
					1		RB	71	4.04	1.13	
					1		RB	76	4.52	1.03	
					1		RB	89	6.60	0.94	
					1		RB	70	4.06	1.18	
					1		RB	64	3.44	1.31	
					1		RB	75	4.75	1.13	
					1		RB	42	0.70	0.94	
					1		RB	62	2.51	1.05	
					1		RB	43	0.80	1.01	
					1		RB	36	0.35	0.75	
					1		RB	42	0.82	1.11	
					1		RB	40	0.59	0.92	

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Asp Creek	3	4			1		RB	38	0.45	0.82			
					2		RB	100	9.58	0.96			
					2		RB	39	0.53	0.89			
					2		RB	36	0.54	1.16			
					2		RB	94	8.25	0.99			
					2		RB	96	8.33	0.94			
					2		RB	124	21.14	1.11			
					2		RB	97	10.17	1.11			
Champion Creek	1	1		8-Oct	1	22	22	RB	138	27.90	1.06	441	2+
					1		RB	115	15.83	1.04	442	2+	
					1		RB	123	18.52	1.00	443	2+	
					1		RB	159	38.85	0.97	444	na	
					1		RB	99	10.23	1.05	445	1+	
					1		RB	118	18.96	1.15	446	2+	
					1		RB	137	26.66	1.04	447	3+	
					1		RB	116	14.58	0.93	448	2+	
					1		RB	105	10.62	0.92	449	1+	
					1		RB	131	25.63	1.14	450	2+	
					1		RB	86	6.64	1.04	451	1+	
					1		RB	124	18.54	0.97	452	2+	
					1		RB	119	19.50	1.16	453	2+	
					1		RB	160	9.43	0.23			
					1		RB	80	6.00	1.17			
					1		RB	105	14.70	1.27	454	1+	
					2		RB	93	9.53	1.18			
					2		RB	110	14.59	1.10			
					2		RB	93	10.39	1.29			
					2		RB	118	16.44	1.00			
					2		RB	130	25.76	1.17	455	2+	
					2		RB	130	25.58	1.16			
Frenchy Creek	1	3	B	5-Oct	1	81	81	RB	96	10.42	1.18	375	1+
					1		RB	123	20.59	1.11	376	2+	

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Frenchy Creek	1	3	B		1		RB	130	25.54	1.16	377	2+
					1		RB	117	20.21	1.26	378	1+
					1		RB	81	4.65	0.87	379	1+
					1		RB	166	47.23	1.03	380	3+
					1		RB	146	34.52	1.11	381	3+
					1		RB	115	13.64	0.90	382	1+
					1		RB	133	27.85	1.18	383	2+
					1		RB	94	7.34	0.88	384	1+
					1		RB	120	15.37	0.89	385	2+
					1		RB	59	2.06	1.00		
					1		RB	142	31.35	1.09		
					1		RB	82	6.22	1.13		
					1		RB	104	13.91	1.24		
					1		RB	81	7.03	1.32		
					1		RB	107	11.71	0.96		
					1		RB	97	9.87	1.08		
					1		RB	113	15.53	1.08		
					1		RB	101	11.06	1.07		
					1		RB	70	3.28	0.96		
					1		RB	82	7.28	1.32		
					1		RB	68	3.50	1.11		
					1		RB	128	22.34	1.07		
					1		RB	71	3.87	1.08		
					1		RB	64	3.10	1.18		
					1		RB	77	5.01	1.10		
					1		RB	122	20.64	1.14		
					1		RB	79	5.57	1.13		
					1		RB	69	3.86	1.18		
					1		RB	95	10.78	1.26		
					1		RB	115	16.77	1.10		
					1		RB	89	8.70	1.23		
					1		RB	94	9.26	1.11		
					1		RB	75	4.20	1.00		
					1		RB	93	9.58	1.19		
					1		RB	106	13.87	1.16		
					1		RB	83	7.65	1.34		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Frenchy Creek	1	3	B		1		RB	102	11.84	1.12		
					1		RB	140	32.24	1.17		
					1		RB	176	62.90	1.15	386	2+
					1		RB	159	47.30	1.18	387	4+
					1		RB	155	43.86	1.18	388	3+
					1		RB	103	11.14	1.02		
					1		RB	120	16.64	0.96		
					1		RB	95	8.26	0.96		
					1		RB	70	3.79	1.10		
					1		RB	132	27.00	1.17		
					1		RB	84	5.70	0.96		
					1		RB	69	3.19	0.97		
					1		RB	92	9.07	1.16		
					1		RB	85	7.25	1.18		
					1		RB	90	6.76	0.93		
					1		RB	85	7.44	1.21		
					1		RB	74	4.56	1.13		
					1		RB	99	11.52	1.19		
					1		RB	69	4.15	1.26		
					1		RB	77	5.52	1.21		
					1		RB	70	3.51	1.02		
					1		RB	140	33.59	1.22		
					1		RB	113	14.24	0.99		
					1		RB	78	4.28	0.90		
					1		RB	69	3.16	0.96		
					1		RB	71	3.13	0.87		
					1		RB	104	12.53	1.11		
					1		RB	65	3.11	1.13		
					1		RB	70	3.75	1.09		
					2		RB	90	8.05	1.10		
					2		RB	132	27.81	1.21		
					2		RB	117	20.32	1.27		
					2		RB	69	3.64	1.11		
					2		RB	64	2.88	1.10		
					2		RB	66	2.35	0.82		
					2		RB	97	9.05	0.99		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Frenchy Creek	1	3	B		2		RB	34	0.46	1.17			
					2		RB	114	17.05	1.15			
					2		RB	95	8.95	1.04			
					2		RB	160	41.42	1.01			
					2		RB	171	51.07	1.02			
					2		RB	132	25.06	1.09			
					2		RB	188	77.63	1.17	389	na	
Frenchy Creek	2	4	B	5-Oct	1	47	47	RB	128	18.70	0.89	390	2+
					1			RB	130	24.70	1.12	391	2+
					1			RB	136	24.26	0.96	392	2+
					1			RB	88	7.68	1.13	393	1+
					1			RB	62	2.77	1.16		
					1			RB	119	14.89	0.88	394	1+
					1			RB	142	34.16	1.19	395	3+
					1			RB	147	34.00	1.07	396	3+
					1			RB	110	13.88	1.04	397	2+
					1			RB	138	15.28	0.58		
					1			RB	123	19.51	1.05		
					1			RB	93	9.94	1.24		
					1			RB	104	13.33	1.19		
					1			RB	88	6.73	0.99	398	2+
					1			RB	96	8.52	0.96		
					1			RB	128	21.47	1.02		
					1			RB	122	20.38	1.12		
					1			RB	113	15.01	1.04		
					1			RB	142	28.80	1.01		
					1			RB	81	5.28	0.99		
					1			RB	100	12.43	1.24		
					1			RB	94	9.72	1.17		
					1			RB	127	20.54	1.00		
					1			RB	90	9.31	1.28		
					1			RB	115	17.98	1.18		
					1			RB	61	2.30	1.01		
					1			RB	91	9.52	1.26		

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Frenchy Creek	2	4	B		1		RB	112	16.95	1.21		
					1		RB	102	10.72	1.01		
					1		RB	103	12.85	1.18		
					1		RB	72	4.71	1.26		
					1		RB	68	2.22	0.71		
					1		RB	68	3.18	1.01		
					1		RB	67	3.00	1.00		
					1		RB	95	9.45	1.10		
					1		RB	60	2.55	1.18		
					1		RB	104	18.67	1.66		
					2		RB	85	8.19	1.33		
					2		RB	82	5.65	1.02		
					2		RB	80	6.22	1.21		
					2		RB	68	3.75	1.19		
					2		RB	85	6.00	0.98		
					2		RB	66	2.62	0.91		
					2		RB	88	8.16	1.20		
					2		RB	108	15.63	1.24		
					2		RB	135	28.34	1.15		
					2		RB	132	24.88	1.08	399	2+
Frenchy Creek	3	5		5-Oct	1	77	76	RB	81	6.89	1.30	
					1			RB	153	33.04	0.92	400 3+
					1			RB	116	14.88	0.95	401 1+
					1			RB	141	34.47	1.23	402 2+
					1			RB	83	7.58	1.33	
					1			RB	62	2.70	1.13	
					1			RB	113	14.46	1.00	
					1			RB	90	7.62	1.05	
					1			RB	60	2.24	1.04	
					1			RB	133	26.15	1.11	
					1			RB	141	29.62	1.06	
					1			RB	113	17.79	1.23	
					1			RB	128	24.66	1.18	
					1			RB	87	8.70	1.32	

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Frenchy Creek	3	5			1		RB	60	2.42	1.12		
					1		RB	101	10.50	1.02		
					1		RB	115	18.39	1.21		
					1		RB	60	2.56	1.19		
					1		RB	71	3.48	0.97		
					1		RB	81	6.44	1.21		
					1		RB	72	4.59	1.23		
					1		RB	92	6.92	0.89		
					1		RB	98	8.83	0.94		
					1		RB	71	3.22	0.90		
					1		RB	71	4.36	1.22		
					1		RB	123	19.84	1.07		
					1		RB	111	13.86	1.01		
					1		RB	69	2.95	0.90		
					1		RB	63	2.44	0.98		
					1		RB	103	10.97	1.00		
					1		RB	130	25.20	1.15		
					1		RB	130	25.23	1.15		
					1		RB	73	4.60	1.18		
					1		RB	120	21.97	1.27		
					1		RB	142	29.24	1.02		
					1		RB	65	2.51	0.91		
					1		RB	100	11.38	1.14	403	1+
					1		RB	148	33.41	1.03	404	2+
					1		RB	110	13.20	0.99	405	2+
					1		RB	115	15.22	1.00		
					1		RB	99	11.32	1.17		
					1		RB	61	2.47	1.09		
					1		RB	67	3.47	1.15		
					1		RB	64	3.04	1.16		
					1		RB	145	29.46	0.97	406	3+
					1		RB	110	16.82	1.26		
					1		RB	147	28.69	0.90	407	3+
					1		RB	128	25.26	1.20	408	2+
					1		RB	64	3.00	1.14		
					1		RB	61	2.65	1.17		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Frenchy Creek	3	5			1		RB	118	14.68	0.89		
					1		RB	82	5.49	1.00		
					1		RB	64	3.07	1.17		
					1		RB	67	3.64	1.21		
					1		RB	67	3.51	1.17		
					1		RB	96	9.98	1.13		
					1		RB	95	9.95	1.16		
					1		RB	65	3.39	1.23		
					1		RB	61	2.57	1.13		
					1		RB	65	2.94	1.07		
					1		RB	61	2.75	1.21		
					1		RB	65	3.16	1.15		
					1		RB	105	12.81	1.11		
					2		RB	66	3.40	1.18		
					2		RB	85	6.44	1.05		
					2		RB	104	11.86	1.05		
					2		RB	67	3.00	1.00		
					2		RB	71	3.57	1.00		
					2		RB	66	3.36	1.17		
					2		RB	80	5.06	0.99		
					2		RB	142	35.47	1.24		
					2		RB	62	2.73	1.15		
					2		RB	70	3.97	1.16		
					2		RB	125	20.75	1.06		
					2		RB	121	17.62	0.99		
					2		RB	145	32.81	1.08		
					1		1 EB	122	20.50		409	1+
Granite Creek	1	1		2-Oct	1	44	3 LNC	105	13.21			
					1		LNC	82	6.06			
					1		LNC	65				
					1		35 RB	42	0.99	1.34		
					1		RB	33	0.43	1.20		
					1		RB	55	1.57	0.94		
					1		RB	40	0.67	1.05		



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Granite Creek	1	1			1		RB	58	2.08	1.07		
					1		RB	47	1.09	1.05		
					1		RB	45	0.98	1.08		
					1		RB	48	0.98	0.89		
					1		RB	38	0.55	1.00		
					1		RB	43	0.75	0.94		
					1		RB	39	0.56	0.94		
					1		RB	44	0.90	1.06		
					1		RB	22	0.12	1.13		
					1		RB	45	0.87	0.95		
					1		RB	55	1.69	1.02		
					1		RB	49	1.13	0.96		
					1		RB	46	0.91	0.93		
					1		RB	36	0.39	0.84		
					1		RB	284	284.60	1.24	315	3+
					1		RB	47	0.98	0.94		
					1		RB	25	0.11	0.70		
					1		RB	41	0.68	0.99		
					1		RB	34	0.27	0.69		
					1		RB	164	45.26	1.03	310	2+
					1		RB	131	23.60	1.05	311	2+
					1		RB	145	29.08	0.95	312	2+
					1		RB	206	100.94	1.15	313	3+
					2		RB	34	0.36	0.92		
					2		RB	42	0.72	0.97		
					2		RB	40	0.55	0.86		
					2		RB	34	0.42	1.07		
					2		RB	51	1.58	1.19		
					2		RB	39	0.64	1.08		
					2		RB	35	0.40	0.93		
					2		RB	152	40.45	1.15	314	2+
					1	6	CC	86	7.67			
					1		CC	85	6.85			
					1		CC	92	8.55			
					1		CC	94	9.86			
					1		CC	76	5.23			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Granite Creek	1	1			2		CC	78	5.10				
Granite Creek	2	5	B	6-Oct	1	37	37	RB	178	55.80	0.99	421	3+
					1		RB	148	31.15	0.96	422	2+	
					1		RB	184	57.32	0.92	423	3+	
					1		RB	170	48.16	0.98	424	3+	
					1		RB	135	27.07	1.10	425	2+	
					1		RB	131	26.24	1.17	426	2+	
					1		RB	92	9.94	1.28	427	1+	
					1		RB	75	4.01	0.95			
					1		RB	85	6.92	1.13			
					1		RB	86	6.10	0.96			
					1		RB	100	10.50	1.05			
					1		RB	79	5.63	1.14			
					1		RB	113	13.43	0.93			
					1		RB	49	1.11	0.94			
					1		RB	128	21.73	1.04			
					1		RB	144	30.25	1.01			
					1		RB	142	30.64	1.07	428	3+	
					1		RB	138	24.94	0.95	429	na	
					1		RB	143	26.10	0.89			
					1		RB	111	14.39	1.05			
					1		RB	118	20.19	1.23			
					1		RB	110	13.50	1.01			
					1		RB	83	5.91	1.03			
					1		RB	108	12.58	1.00			
					1		RB	119	15.02	0.89			
					1		RB	130	18.64	0.85			
					1		RB	121	18.65	1.05			
					1		RB	111	14.40	1.05			
2		RB	124	16.76	0.88								
2		RB	99	10.92	1.13								
2		RB	137	24.13	0.94								
2		RB	122	17.61	0.97								
2		RB	110	14.93	1.12								

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Granite Creek	2	5	B		2		RB	118	19.34	1.18			
					2		RB	128	17.38	0.83			
					2		RB	122	20.42	1.12			
					2		RB	200	68.68	0.86	430	4+	
Granite Creek	3	5	C	6-Oct	1	61	61	RB	75	4.77	1.13		
					1		RB	91	5.78	0.77			
					1		RB	105	10.24	0.88	410	1+	
					1		RB	112	14.91	1.06	411	2+	
					1		RB	105	13.28	1.15	412	1+	
					1		RB	192	70.82	1.00	413	3+	
					1		RB	200	76.30	0.95	414	3+	
					1		RB	168	50.51	1.07	415	na	
					1		RB	150	32.70	0.97	416	2+	
					1		RB	140	30.87	1.13	417	na	
					1		RB	120	18.35	1.06	418	2+	
					1		RB	142	29.49	1.03	419	2+	
					1		RB	140	24.50	0.89	420	3+	
					1		RB	98	10.31	1.10			
					1		RB	129	18.20	0.85			
					1		RB	102	11.23	1.06			
					1		RB	100	8.86	0.89			
					1		RB	95	8.90	1.04			
					1		RB	117	16.21	1.01			
					1		RB	100	8.59	0.86			
					1		RB	118	17.24	1.05			
					1		RB	135	22.89	0.93			
					1		RB	137	24.40	0.95			
					1		RB	74	3.95	0.97			
					1		RB	74	3.73	0.92			
					1		RB	91	8.73	1.16			
1		RB	116	14.29	0.92								
1		RB	95	8.38	0.98								
1		RB	100	8.83	0.88								
1		RB	85	6.59	1.07								

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>						
Granite Creek	3	5	C		1		RB	93	7.36	0.92								
					1		RB	46	0.86	0.88								
					1		RB	82	5.00	0.91								
					1		RB	90	7.62	1.05								
					1		RB	39	0.52	0.88								
					1		RB	75	4.60	1.09								
					1		RB	92	9.03	1.16								
					1		RB	105	10.94	0.95								
					2		RB	48	1.18	1.07								
					2		RB	118	14.48	0.88								
					2		RB	121	20.74	1.17								
					2		RB	107	13.38	1.09								
					2		RB	123	17.38	0.93								
					2		RB	129	22.46	1.05								
					2		RB	100	10.23	1.02								
					2		RB	70	3.62	1.06								
					2		RB	37	0.45	0.89								
					Granite Creek	4	11		6-Oct	1	14	14	RB	128	21.03	1.00	431	2+
										1			RB	88	8.30	1.22	432	1+
1	RB	114	14.36	0.97						433			1+					
1	RB	118	17.32	1.05						434			1+					
1	RB	178	70.43	1.25						435			2+					
1	RB	173	58.07	1.12						436			2+					
1	RB	160	45.48	1.11						437			2+					
1	RB	110	16.14	1.21						438			1+					
1	RB	105	15.21	1.31						439			1+					
1	RB	105	13.60	1.17						440			1+					
1	RB	100	10.54	1.05														
1	RB	112	15.74	1.12														
1	RB	145	34.60	1.13														
2	RB	132	18.50	0.80														
Jim Kelly Creek	1	2	A	27-Sep						1	54	54	RB	126	18.28	0.91	163	2+

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Jim Kelly Creek	1	2	A		1		RB	160	39.68	0.97	164	3+
					1		RB	120	17.75	1.03	165	1+
					1		RB	196	75.34	1.00	166	4+
					1		RB	209	87.62	0.96	167	4+
					1		RB	140	27.96	1.02	168	2+
					1		RB	120	18.16	1.05		
					1		RB	151	32.93	0.96	169	3+
					1		RB	105	11.63	1.00	170	1+
					1		RB	100	9.47	0.95	171	1+
					1		RB	97	9.11	1.00	172	1+
					1		RB	150	36.33	1.08	173	2+
					1		RB	158	40.69	1.03	174	na
					1		RB	118	16.86	1.03		
					1		RB	105	10.57	0.91		
					1		RB	97	11.05	1.21		
					1		RB	120	14.50	0.84		
					1		RB	131	20.09	0.89		
					1		RB	108	12.98	1.03		
					1		RB	145	36.13	1.19	175	2+
					1		RB	114	17.68	1.19	176	1+
					1		RB	113	15.86	1.10	177	1+
					1		RB	124	20.73	1.09	178	2+
					1		RB	136	26.48	1.05	179	3+
					1		RB	135	25.40	1.03	180	2+
					1		RB	82	7.00	1.27		
					1		RB	87	8.10	1.23		
					1		RB	85	6.57	1.07		
					1		RB	85	7.15	1.16		
					1		RB	91	8.42	1.12		
					1		RB	88	6.76	0.99		
					1		RB	117	14.14	0.88	181	1+
					1		RB	132	24.52	1.07	182	2+
					1		RB	113	15.66	1.09	183	1+
					1		RB	92	9.18	1.18	184	1+
					1		RB	114	14.05	0.95	185	1+
					1		RB	117	17.55	1.10		

## Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Jim Kelly Creek	1	2	A		1		RB	94	10.64	1.28			
					1		RB	117	15.40	0.96			
					1		RB	97	8.61	0.94			
					1		RB	85	6.50	1.06			
					1		RB	91	7.97	1.06			
					1		RB	87	6.85	1.04			
					1		RB	87	6.27	0.95			
					1		RB	77	4.87	1.07			
					1		RB	78	5.65	1.19			
					1		RB	92	8.72	1.12			
					2		RB	100	9.52	0.95			
					2		RB	110	14.92	1.12			
					2		RB	103	10.27	0.94			
					2		RB	95	11.03	1.29			
					2		RB	95	9.27	1.08			
					2		RB	97	9.60	1.05			
					2		RB	99	9.54	0.98			
Jim Kelly Creek	2	2	B	10-Oct	1	15	15	RB	149	39.15	1.18	481	2+
					1			RB	140	30.10	1.10	182	2+
					1			RB	147	31.85	1.00	483	2+
					1			RB	170	48.48	0.99	484	2+
					1			RB	153	37.93	1.06	485	2+
					1			RB	79	5.81	1.18		
					1			RB	34	0.34	0.87		
					1			RB	39	0.48	0.81		
					1			RB	37	0.45	0.89		
					1			RB	40	0.66	1.03		
					1			RB	41	0.65	0.94		
					1			RB	40	0.60	0.94		
					1			RB	39	0.48	0.81		
					1			RB	43	0.72	0.91		
					2			RB	138	29.75	1.13	486	2+

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Olivine Creek	1	1		23-Sep	1	37	37	RB	157	34.59	0.89	1	na
					1		RB	109	12.26	0.95	2	1+	
					1		RB	68	3.14	1.00			
					1		RB	74	4.00	0.99			
					1		RB	40	0.51	0.80			
					1		RB	60	2.30	1.06			
					1		RB	60	2.26	1.05			
					1		RB	49	0.75	0.64			
					1		RB	42	0.74	1.00			
					1		RB	41	0.77	1.12			
					1		RB	45	0.71	0.78			
					1		RB	35	0.37	0.86			
					1		RB	47	0.72	0.69			
					1		RB	42	0.75	1.01			
					1		RB	47	1.11	1.07			
					1		RB	47	1.37	1.32			
					1		RB	35	0.38	0.89			
					1		RB	41	0.80	1.16			
					1		RB	35	0.38	0.89			
					1		RB	31	0.23	0.77			
					2		RB	105	12.73	1.10			
					2		RB	130	25.55	1.16			
					2		RB	111	15.97	1.17			
					2		RB	33	0.40	1.11			
					2		RB	42	0.81	1.09			
					2		RB	47	1.58	1.52			
					2		RB	39	0.60	1.01			
					2		RB	35	0.44	1.03			
					2		RB	40	0.58	0.91			
					2		RB	32	0.53	1.62			
					2		RB	43	0.67	0.84			
					2		RB	43	0.68	0.86			
					2		RB	47	1.05	1.01			
					3		RB	85	5.74	0.93			
					3		RB	45	0.82	0.90			
					3		RB	43	0.53	0.67			

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Olivine Creek	1	1			3		RB	40	0.66	1.03			
Olivine Creek	1 (sc)	1		23-Sep	1	11	11	RB	134	22.70	0.94	3	3+
					1			RB	161	41.68	1.00	4	na
					1			RB	81	6.40	1.20	5	2+
					1			RB	90	9.19	1.26	6	2+
					1			RB	83	6.45	1.13	7	1+
					1			RB	73	4.47	1.15		
					1			RB	68	3.01	0.96		
					1			RB	67	3.24	1.08		
					1			RB	37	0.52	1.03		
					1			RB	36	0.46	0.99		
					1			RB	41	0.73	1.06		
Olivine Creek	2	2		23-Sep	1	56	56	RB	205	72.65	0.84	8	4+
					1			RB	139	28.70	1.07	9	3+
					1			RB	122	22.92	1.26	10	3+
					1			RB	148	31.55	0.97	11	na
					1			RB	138	28.75	1.09	12	2+
					1			RB	132	27.06	1.18	13	2+
					1			RB	116	15.57	1.00		
					1			RB	104	11.23	1.00		
					1			RB	106	11.73	0.98		
					1			RB	105	13.30	1.15		
					1			RB	132	21.52	0.94		
					1			RB	122	17.41	0.96		
					1			RB	112	12.24	0.87		
					1			RB	108	12.84	1.02		
					1			RB	104	10.98	0.98		
					1			RB	105	10.33	0.89		
					1			RB	110	13.60	1.02		
					1			RB	111	17.20	1.26		
					1			RB	110	13.02	0.98		
					1			RB	115	16.55	1.09		



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Olivine Creek	2	2			1		RB	100	11.20	1.12		
					1		RB	109	13.07	1.01		
					1		RB	80	5.98	1.17		
					1		RB	78	6.12	1.29		
					1		RB	102	10.90	1.03		
					1		RB	95	8.93	1.04		
					1		RB	108	12.05	0.96		
					1		RB	90	6.40	0.88		
					1		RB	90	6.36	0.87		
					1		RB	37	1.56	3.08		
					1		RB	47	1.42	1.37		
					1		RB	35	0.60	1.40		
					1		RB	34	0.56	1.42		
					1		RB	37	0.50	0.99		
					1		RB	42	0.75	1.01		
					1		RB	32	0.33	1.01		
					1		RB	38	0.64	1.17		
					1		RB	36	0.75	1.61		
					1		RB	42	0.75	1.01		
					1		RB	32	0.44	1.34		
					1		RB	38	0.48	0.87		
					1		RB	40	0.65	1.02		
					1		RB	33	0.40	1.11		
					1		RB	88	8.24	1.21		
					1		RB	34	0.60	1.53		
					1		RB	40	0.72	1.13		
					1		RB	34	0.40	1.02		
					1		RB	40	0.71	1.11		
					2		RB	195	48.40	0.65		
					2		RB	142	34.26	1.20		
					2		RB	133	28.94	1.23		
					2		RB	90	9.26	1.27		
					2		RB	106	13.52	1.14		
					2		RB	98	10.03	1.07		
					2		RB	43	0.83	1.04		
					2		RB	33	0.37	1.03		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	1	1		9-Oct	1	182	182	CC	90	9.48		
					1			CC	83	7.21		
					1			CC	84	7.32		
					1			CC	45	0.70		
					1			CC	92	9.97		
					1			CC	79	5.96		
					1			CC	100	12.31		
					1			CC	86	7.68		
					1			CC	111	17.95		
					1			CC	85	7.45		
					1			CC	92	13.82		
					1			CC	82	6.55		
					1			CC	121	26.88		
					1			CC	100	13.60		
					1			CC	110	14.88		
					1			CC	122	25.35		
					1			CC	96	10.95		
					1			CC	85	7.74		
					1			CC	104	12.65		
					1			CC	108	16.03		
					1			CC	79	6.47		
					1			CC	90	8.69		
					1			CC	85	6.95		
					1			CC	86	7.93		
					1			CC	84	7.08		
					1			CC	98	11.23		
					1			CC	87	8.34		
					1			CC	91	9.25		
					1			CC	76	4.65		
					1			CC	51	1.57		
					1			CC	98	11.73		
					1			CC	80	5.64		
					1			CC	88	7.78		
					1			CC	85	7.48		
					1			CC	89	8.65		
					1			CC	80	5.86		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	1	1			1		CC	46	0.99			
					1		CC	84	6.42			
					1		CC	93	11.06			
					1		CC	85	6.33			
					1		CC	79	5.75			
					1		CC	76	4.84			
					1		CC	93	8.68			
					1		CC	50	1.35			
					1		CC	48	1.28			
					1		CC	86	8.81			
					1		CC	86	7.75			
					1		CC	86	11.55			
					1		CC	100	13.32			
					1		CC	86	6.52			
					1		CC	39	0.53			
					1		CC	86	7.99			
					1		CC	78	5.95			
					1		CC	80	5.46			
					1		CC	88	7.65			
					1		CC	78	6.12			
					1		CC	91	9.82			
					1		CC	88	7.30			
					1		CC	81	5.90			
					1		CC	82	11.15			
					1		CC	86	7.61			
					1		CC	112	17.50			
					1		CC	91	8.61			
					1		CC	78	5.97			
					1		CC	85	9.07			
					1		CC	82	6.49			
					1		CC	82	7.15			
					1		CC	95	10.81			
					1		CC	98	12.46			
					1		CC	111	17.96			
					1		CC	94	9.60			
					1		CC	71	3.96			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	1	1			1		CC	48	1.27			
					1		CC	50	1.25			
					1		CC	48	1.08			
					1		CC	84	7.45			
					1		CC	122	24.41			
					1		CC	83	7.40			
					1		CC	98	11.40			
					1		CC	65	2.88			
					1		CC	82	6.18			
					1		CC	85	6.71			
					1		CC	115	19.25			
					1		CC	89	8.06			
					1		CC	100	13.13			
					1		CC	84	6.66			
					1		CC	123	24.04			
					1		CC	90	9.12			
					1		CC	80	8.92			
					1		CC	45	1.00			
					1		CC	78	6.75			
					1		CC	79	5.64			
					1		CC	84	7.03			
					1		CC	75	4.97			
					1		CC	86	7.53			
					1		CC	45	1.09			
					1		CC	80	5.79			
					1		CC	94	8.71			
					1		CC	83	7.32			
					1		CC	80	5.72			
					1		CC	85	4.23			
					1		CC	85	7.53			
					1		CC	72	3.82			
					1		CC	83	7.04			
					1		CC	73	4.00			
					1		CC	121	22.70			
					1		CC	85	8.29			
					1		CC	86	7.47			

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Otter Creek	1	1			1		CC	46	1.13			
					1		CC	46	1.12			
					1		CC	86	6.90			
					1		CC	50	1.22			
					1		CC	108	15.15			
					1		CC	75	5.44			
					1		CC	86	7.63			
					1		CC	87	8.73			
					1		CC	50	1.44			
					1		CC	45	1.07			
					1		CC	49	1.27			
					1		CC	45	1.16			
					1		CC	44	0.94			
					1		CC	42	0.77			
					1		CC	43	0.81			
					1		CC	50	1.35			
					1		CC	40	0.79			
					1		CC	41	0.72			
					1		CC	75	4.92			
					1		CC	46	1.05			
					1		CC	43	0.85			
					1		CC	47	1.09			
					1		CC	41	0.79			
					1		CC	43	0.95			
					1		CC	94	9.42			
					1		CC	43	0.81			
					1		CC	48	1.25			
					1		CC	45	1.08			
					1		CC	73	1.11			
					1		CC	45	0.95			
					1		CC	38	0.65			
					1		CC	74	4.18			
					1		CC	40	0.72			
					1		CC	43	1.00			
					1		CC	45	0.94			
					2		CC	137	36.80			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	1	1			2		CC	76	4.96			
					2		CC	81	6.12			
					2		CC	80	6.09			
					2		CC	68	3.41			
					2		CC	85	7.80			
					2		CC	95	10.04			
					2		CC	91	9.42			
					2		CC	85	7.27			
					2		CC	88	8.49			
					2		CC	78	5.53			
					2		CC	84	7.48			
					2		CC	90	9.94			
					2		CC	90	9.34			
					2		CC	94	9.86			
					2		CC	101	12.85			
					2		CC	86	7.58			
					2		CC	76	5.44			
					2		CC	77	4.50			
					2		CC	78	5.99			
					2		CC	105	16.43			
					2		CC	75	4.39			
					2		CC	76	5.56			
					2		CC	74	4.44			
					2		CC	46	1.25			
					2		CC	43	1.00			
					2		CC	46	1.47			
					2		CC	46	1.25			
					2		CC	84	7.45			
					2		CC	45	1.00			
					2		CC	94	9.05			
					2		CC	61	2.54			
					2		CC	82	6.52			
					2		CC	47	1.12			
					2		CC	46	1.16			
					2		CC	45	1.10			
					2		CC	46	1.22			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	1	1			2		CC	45	1.25			
					2		CC	47	1.28			
Otter Creek	2	5	C	2-Oct	1	242	11	LNC	43	0.61		
					1			LNC	43	0.81		
					1			LNC	49	1.02		
					1			LNC	46	1.23		
					1			LNC	46	1.07		
					1			LNC	41	0.77		
					2			LNC	47	1.07		
					2			LNC	35	0.56		
					2			LNC	49	1.06		
					2			LNC	45	0.86		
					2			LNC	42	0.88		
					1	32	RB	66	2.67	0.93		
					1		RB	72	3.70	0.99		
					1		RB	75	3.68	0.87	316	0+
					1		RB	134	23.64	0.98	317	2+
					1		RB	62	2.75	1.15		
					1		RB	65	2.51	0.91		
					1		RB	68	3.00	0.95		
					1		RB	55	1.61	0.97		
					1		RB	64	3.06	1.17		
					1		RB	66	2.99	1.04		
					1		RB	59	1.80	0.88		
					1	RB	120	17.73	1.03	318	2+	
					1	RB	58	2.02	1.04			
					1	RB	64	3.07	1.17			
					1	RB	64	2.96	1.13			
					1	RB	67	2.96	0.98			
					1	RB	66	2.87	1.00			
					1	RB	50	1.19	0.95			
					1	RB	54	1.59	1.01			
					1	RB	64	2.33	0.89			
					1	RB	65	2.76	1.01			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	2	5	C		1		RB	63	2.39	0.96		
					1		RB	65	2.79	1.02		
					1		RB	60	2.51	1.16		
					1		RB	51	1.33	1.00		
					1		RB	39	0.47	0.79		
					1		RB	65	3.06	1.11		
					1		RB	57	1.49	0.80		
					1		RB	61	2.55	1.12		
					2		RB	69	3.04	0.93		
					2		RB	59	2.23	1.09		
					2		RB	95	8.51	0.99		
					1		199 CC	90	9.80			
					1		CC	81	5.96			
					1		CC	81	6.92			
					1		CC	103	14.43			
					1		CC	85	6.91			
					1		CC	73	5.60			
					1		CC	67	3.46			
					1		CC	83	7.29			
					1		CC	79	5.18			
					1		CC	95	13.50			
					1		CC	88	8.96			
					1		CC	82	7.33			
					1		CC	98	13.86			
					1		CC	67	3.32			
					1		CC	104	13.33			
					1		CC	91	9.91			
					1		CC	88	9.43			
					1		CC	82	6.30			
					1		CC	76	5.09			
					1		CC	95	10.81			
					1		CC	85	7.71			
					1		CC	61	2.36			
					1		CC	65	3.26			
					1		CC	38	3.48			
					1		CC	85	7.58			



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	2	5	C		1		CC	67	3.56			
					1		CC	90	8.24			
					1		CC	80	6.49			
					1		CC	76	5.54			
					1		CC	69	3.94			
					1		CC	85	2.77			
					1		CC	85	6.60			
					1		CC	82	7.14			
					1		CC	70	3.78			
					1		CC	73	4.24			
					1		CC	86	7.63			
					1		CC	73	4.46			
					1		CC	87	8.00			
					1		CC	96	10.97			
					1		CC	32	0.38			
					1		CC	85	7.72			
					1		CC	83	6.25			
					1		CC	61	2.62			
					1		CC	72	3.88			
					1		CC	75	5.43			
					1		CC	52	1.43			
					1		CC	79	5.42			
					1		CC	82	6.72			
					1		CC	60	2.33			
					1		CC	55	1.50			
					1		CC	49	1.38			
					1		CC	31	0.30			
					1		CC	28	0.23			
					1		CC	71	4.11			
					1		CC	81	7.00			
					1		CC	77	4.98			
					1		CC	69	3.78			
					1		CC	88	8.30			
					1		CC	62	2.78			
					1		CC	55	2.08			
					1		CC	54	1.91			

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	2	5	C		1		CC	86	8.49			
					1		CC	65	3.12			
					1		CC	85	8.14			
					1		CC	86	7.87			
					1		CC	72	3.28			
					1		CC	70	4.17			
					1		CC	47	1.39			
					1		CC	60	2.20			
					1		CC	31	0.28			
					1		CC	52	1.62			
					1		CC	30	0.31			
					1		CC	69	3.79			
					1		CC	110	14.88			
					1		CC	54	1.55			
					1		CC	90	9.37			
					1		CC	77	5.99			
					1		CC	51	1.48			
					1		CC	57	1.76			
					1		CC	31	0.34			
					1		CC	30	0.32			
					1		CC	88	8.37			
					1		CC	57	2.11			
					1		CC	61	2.48			
					1		CC	53	1.45			
					1		CC	54	1.76			
					1		CC	55	1.17			
					1		CC	91	8.65			
					1		CC	80	6.53			
					1		CC	66	3.30			
					1		CC	55	1.91			
					1		CC	27	0.18			
					1		CC	83	7.28			
					1		CC	75	4.82			
					1		CC	81	5.80			
					1		CC	55	1.58			
					1		CC	82	7.09			

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	2	5	C		1		CC	65	2.92			
					1		CC	51	1.50			
					1		CC	32	0.37			
					1		CC	61	2.71			
					1		CC	62	2.82			
					1		CC	57	1.96			
					1		CC	30	0.25			
					1		CC	80	6.74			
					1		CC	61	2.12			
					1		CC	71	4.00			
					1		CC	25	2.02			
					1		CC	26	2.35			
					1		CC	30	0.31			
					1		CC	68	3.20			
					1		CC	52	1.47			
					1		CC	32	0.35			
					1		CC	64	3.11			
					1		CC	51	1.68			
					1		CC	55	1.87			
					1		CC	52	1.39			
					1		CC	30	0.23			
					1		CC	31	0.26			
					1		CC	59	2.10			
					1		CC	65	2.27			
					1		CC	47	1.20			
					1		CC	33	0.42			
					1		CC	61	2.42			
					1		CC	101	1.45			
					1		CC	62	2.70			
					1		CC	96	10.57			
					1		CC	50	1.36			
					1		CC	28	0.22			
					1		CC	57	2.10			
					1		CC	30	0.21			
					1		CC	53	1.82			
					1		CC	59	1.91			

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	2	5	C		1		CC	111	17.37			
					1		CC	84	7.65			
					1		CC	29	0.25			
					1		CC	98	12.33			
					1		CC	93	10.13			
					1		CC	55	1.54			
					1		CC	62	2.50			
					1		CC	55	1.63			
					1		CC	52	1.64			
					1		CC	75	2.09			
					1		CC	88	8.66			
					1		CC	86	7.55			
					1		CC	29	0.30			
					1		CC	20	0.18			
					1		CC	34	0.38			
					1		CC	30	0.28			
					1		CC	28	0.20			
					1		CC	30	0.21			
					1		CC	31	0.31			
					1		CC	31	0.26			
					1		CC	26	0.21			
					1		CC	30	0.22			
					1		CC	30	0.31			
					1		CC	36	0.47			
					1		CC	27	0.20			
					1		CC	27	0.23			
					2		CC	70	5.04			
					2		CC	60	2.09			
					2		CC	60	2.00			
					2		CC	109	15.51			
					2		CC	98	11.86			
					2		CC	86	8.28			
					2		CC	81	7.04			
					2		CC	70	3.78			
					2		CC	70	4.02			
					2		CC	81	7.04			

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Otter Creek	2	5	C		2		CC	61	2.82				
					2		CC	81	8.10				
					2		CC	86	7.84				
					2		CC	99	12.90				
					2		CC	85	8.87				
					2		CC	95	10.67				
					2		CC	70	4.37				
					2		CC	65	3.85				
					2		CC	69	3.81				
					2		CC	88	7.90				
					2		CC	90	7.45				
					2		CC	75	4.52				
					2		CC	59	2.19				
					2		CC	108	15.18				
					2		CC	82	6.11				
					2		CC	72	4.71				
					2		CC	60	3.75				
					2		CC	65	3.06				
					2		CC	69	3.65				
					2		CC	60	2.11				
					2		CC	58	2.14				
					2		CC	30	0.30				
					2		CC	55	1.44				
					2		CC	60	2.00				
					2		CC	55	1.60				
					2		CC	55	1.46				
					2		CC	56	1.09				
					2		CC	30	0.28				
					2		CC	30	0.31				
					2		CC	31	0.31				
Otter Creek	3	10	B	4-Oct	1	72	37	RB	120	16.39	0.95	349	1+
					1			RB	170	44.87	0.91	450	2+
					1			RB	111	12.80	0.94	351	1+
					1			RB	178	69.14	1.23	352	2+



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	3	10	B		1		RB	117	15.32	0.96	353	1+
					1		RB	97	8.45	0.93	354	1+
					1		RB	111	12.75	0.93	355	1+
					1		RB	105	12.02	1.04	356	1+
					1		RB	89	6.31	0.90	357	1+
					1		RB	57	1.68	0.91		
					1		RB	56	1.54	0.88		
					1		RB	54	1.31	0.83		
					1		RB	81	5.50	1.03		
					1		RB	50	1.25	1.00		
					1		RB	53	1.51	1.01		
					1		RB	39	0.49	0.83		
					1		RB	46	0.83	0.85		
					1		RB	51	1.13	0.85		
					1		RB	58	1.75	0.90		
					1		RB	88	5.97	0.88		
					1		RB	50	1.14	0.91		
					1		RB	62	2.11	0.89		
					1		RB	53	1.66	1.12		
					1		RB	84	6.80	1.15	358	1+
					1		RB	53	1.52	1.02		
					1		RB	47	1.12	1.08		
					1		RB	45	0.93	1.02		
					1		RB	51	1.20	0.90		
					1		RB	105	9.35	0.81	359	1+
					2		RB	50	1.58	1.26		
					2		RB	47	0.78	0.75		
					2		RB	50	1.51	1.21		
					2		RB	55	1.55	0.93		
					2		RB	88	6.64	0.97		
					2		RB	120	17.00	0.98	360	1+
					2		RB	115	13.41	0.88	361	1+
					2		RB	167	40.73	0.87	362	2+
					1	35	CC	74	4.48			
					1		CC	84	4.43			
					1		CC	89	9.08			

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Otter Creek	3	10	B		1		CC	99	9.97			
					1		CC	91	10.00			
					1		CC	90	8.50			
					1		CC	82	8.14			
					1		CC	84	7.25			
					1		CC	79	5.35			
					1		CC	55	1.75			
					1		CC	94	9.49			
					1		CC	83	7.89			
					1		CC	95	7.12			
					1		CC	81	7.25			
					1		CC	82	6.94			
					1		CC	54	1.58			
					1		CC	55	1.92			
					1		CC	73	4.00			
					1		CC	55	1.70			
					1		CC	54	1.58			
					1		CC	64	2.62			
					1		CC	94	9.90			
					1		CC	80	6.22			
					1		CC	50	1.43			
					1		CC	84	6.44			
					1		CC	70	4.28			
					1		CC	87	7.93			
					1		CC	58	1.96			
					1		CC	63	2.29			
					1		CC	29	0.24			
					2		CC	82	8.80			
					2		CC	60	1.90			
					2		CC	62	2.90			
					2		CC	90	8.52			
					2		CC	64	2.53			
Otter Creek	4	11	B	4-Oct	1	51	40	RB	123	16.77	0.90	363
					1			RB	59	1.97		



Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	4	11	B		1		RB	61	2.11	0.93		
					1		RB	62	2.52	1.06		
					1		RB	58	1.72	0.88		
					1		RB	49	1.22	1.04		
					1		RB	73	3.55	0.91		
					1		RB	69	3.45	1.05		
					1		RB	73	3.84	0.99		
					1		RB	126	21.21	1.06	364	1+
					1		RB	168	47.05	0.99	365	2+
					1		RB	188	69.21	1.04	366	2+
					1		RB	98	11.03	1.17	367	1+
					1		RB	108	12.45	0.99	368	1+
					1		RB	70	3.32	0.97		
					1		RB	63	2.66	1.06		
					1		RB	67	1.80	0.60		
					1		RB	58	2.22	1.14		
					1		RB	112	12.87	0.92	369	1+
					1		RB	132	20.96	0.91	370	1+
					1		RB	57	1.57	0.85		
					1		RB	65	3.25	1.18		
					1		RB	65	3.04	1.11		
					1		RB	73	3.84	0.99		
					1		RB	63	2.62	1.05		
					1		RB	63	2.24	0.90		
					1		RB	63	2.97	1.19		
					1		RB	76	3.97	0.90		
					1		RB	102	10.45	0.98	371	1+
					1		RB	74	4.45	1.10		
					1		RB	71	3.65	1.02		
					1		RB	113		0.00	372	1+
					2		RB	72	3.59	0.96		
					2		RB	57	1.07	0.58		
					2		RB	77	5.12	1.12		
					2		RB	63	2.95	1.18		
					2		RB	62	2.95	1.24		
					2		RB	62	2.34	0.98		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	4	11	B		2		RB	100	9.86	0.99	373	1+
					2		RB	162	40.30	0.95	374	2+
					1		11 CC	78	5.04			
					1		CC	87	7.91			
					1		CC	87	9.15			
					1		CC	38	0.64			
					1		CC	36	0.45			
					1		CC	43	0.79			
					1		CC	36	0.46			
					2		CC	85	7.46			
					2		CC	73	3.68			
					2		CC	40	0.73			
					2		CC	40	0.68			
Otter Creek	5	11	B	3-Oct	1	73	7 LNC	55	1.70			
					1		LNC	56	2.08			
					1		LNC	59	2.84			
					1		LNC	60	2.63			
					1		LNC	46	1.30			
					1		LNC	42	0.99			
					1		LNC	45	0.90			
					1		41 RB	182	71.91	1.19	329	3+
					1		RB	193	80.00	1.11	330	3+
					1		RB	226	127.84	1.11	331	na
					1		RB	195	82.88	1.12	332	2+
					1		RB	180	68.19	1.17	333	2+
					1		RB	190	77.14	1.12	334	2+
					1		RB	195	81.63	1.10	335	na
					1		RB	192	70.37	0.99	336	2+
					1		RB	195	90.70	1.22	337	2+
					1		RB	215	102.00	1.03		
					1		RB	191	78.87	1.13		
					1		RB	192	80.00	1.13		
					1		RB	147	33.84	1.07	338	2+
					1		RB	175	64.28	1.20		

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	5	11	B		1		RB	174	61.80	1.17		
					1		RB	179	68.95	1.20		
					1		RB	132	28.78	1.25	339	2+
					1		RB	125	19.75	1.01	340	1+
					1		RB	141	26.10	0.93	341	2+
					1		RB	122	17.69	0.97	342	1+
					1		RB	117	16.98	1.06	343	2+
					1		RB	121	22.13	1.25		
					1		RB	113	17.96	1.24		
					1		RB	83	5.83	1.02		
					1		RB	80	6.01	1.17		
					1		RB	71	3.66	1.02		
					1		RB	72	4.74	1.27		
					1		RB	71	4.42	1.23		
					1		RB	99	12.12	1.25		
					1		RB	115	17.56	1.15		
					1		RB	79	5.07	1.03		
					1		RB	78	5.59	1.18		
					1		RB	63	2.95	1.18		
					1		RB	78	5.62	1.18		
					1		RB	65	3.44	1.25		
					1		RB	82	5.42	0.98		
					2		RB	79	5.42	1.10		
					2		RB	69	4.31	1.31		
					2		RB	159	50.49	1.26		
					2		RB	177	66.15	1.19		
					2		RB	202	90.56	1.10		
					1	23	CC	83	6.94			
					1		CC	126	26.55			
					1		CC	91	10.45			
					1		CC	79	8.01			
					1		CC	84	8.21			
					1		CC	79	6.06			
					1		CC	72	4.40			
					1		CC	78	6.62			
					1		CC	72	5.06			

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	5	11	B		1		CC	98	12.67			
					1		CC	81	6.95			
					1		CC	76	5.49			
					1		CC	78	5.48			
					1		CC	80	6.31			
					1		CC	79	5.05			
					1		CC	62	2.42			
					1		CC	61	2.73			
					1		CC	54	2.19			
					2		CC	69	3.77			
					2		CC	42	1.14			
					2		CC	39	0.82			
					2		CC	43	0.81			
					2		CC	40	0.76			
					1		2 RSC	115	13.40			
					1		RSC					
Otter Creek	6	16	A	3-Oct	1	58	54	RB	55	1.75	1.05	
					1			RB	47	0.90	0.87	
					1			RB	69	2.84	0.86	
					1			RB	59	2.64	1.29	
					1			RB	64	2.53	0.97	
					1			RB	60	2.51	1.16	
					1			RB	65	2.83	1.03	
					1			RB	51	1.66	1.25	
					1			RB	45	0.90	0.99	
					1			RB	63	2.77	1.11	
					1			RB	54	1.45	0.92	
					1			RB	66	2.78	0.97	
					1			RB	72	4.29	1.15	
					1			RB	63	2.57	1.03	
					1			RB	68	3.53	1.12	
					1			RB	109	10.61	0.82	319 1+
					1			RB	96	9.25	1.05	320 1+
					1			RB	100	9.08	0.91	321 1+

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Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Otter Creek	6	16	A		1		RB	94	8.15	0.98	322	1+
					1		RB	98	7.50	0.80	323	1+
					1		RB	94	8.09	0.97	324	1+
					1		RB	88	7.47	1.10	325	1+
					1		RB	98	8.58	0.91		
					1		RB	104	9.86	0.88		
					1		RB	85	6.96	1.13		
					1		RB	80	4.67	0.91		
					1		RB	68	2.67	0.85		
					1		RB	47	1.40	1.35		
					1		RB	53	1.67	1.12		
					1		RB	65	2.99	1.09		
					1		RB	63	2.52	1.01		
					1		RB	59	2.41	1.17		
					1		RB	66	3.48	1.21		
					1		RB	64	2.67	1.02		
					1		RB	57	2.18	1.18		
					1		RB	50	1.30	1.04		
					1		RB	49	1.25	1.06		
					1		RB	35	0.51	1.19		
					1		RB	42	0.98	1.32		
					2		RB	58	2.42	1.24		
					2		RB	56	2.08	1.18		
					2		RB	49	1.15	0.98		
					2		RB	53	1.60	1.07		
					2		RB	60	2.34	1.08		
					2		RB	56	1.97	1.12		
					2		RB	61	2.34	1.03		
					2		RB	49	1.32	1.12		
					2		RB	61	2.26	1.00		
					2		RB	86	6.55	1.03		
					2		RB	145	14.03	0.46	326	2+
					2		RB	97	8.83	0.97	327	1+
					2		RB	104	11.31	1.01	328	1+
					2		RB	92	8.73	1.12		
					2		RB	84	5.60	0.94		

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Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
Otter Creek	6	16	A		2		2 CC	72	5.39			
					2		CC	36	1.56			
					1		2 RSC	84	6.42			
					1		RSC	55	1.67			
Podunk Creek	1	2		26-Sep	1	85	85 RB	126	23.32	1.17	61	1+
					1		RB	138	33.20	1.26	62	3+
					1		RB	87	8.40	1.28	63	1+
					1		RB	113	14.02	0.97	64	1+
					1		RB	94	9.06	1.09	65	1+
					1		RB	79	6.25	1.27	66	1+
					1		RB	93	9.36	1.16	67	1+
					1		RB	83	7.06	1.23	68	1+
					1		RB	83	6.81	1.19	69	1+
					1		RB	132	45.83	1.99	70	2+
					1		RB	75	5.21	1.23	71	1+
					1		RB	77	5.01	1.10	72	0+
					1		RB	134	20.47	0.85	73	2+
					1		RB	68	3.74	1.19		
					1		RB	97	11.08	1.21	74	1+
					1		RB	195	79.99	1.08	75	3+
					1		RB	130	19.77	0.90	76	2+
					1		RB	115	14.18	0.93	77	1+
					1		RB	115	16.52	1.09	78	1+
					1		RB	110	12.39	0.93	79	1+
					1		RB	152	24.37	0.69	80	2+
					1		RB	78	4.71	0.99		
					1		RB	74	4.44	1.10		
					1		RB	73	3.78	0.97		
					1		RB	86	7.24	1.14		
					1		RB	68	2.93	0.93		
					1		RB	72	3.05	0.82		
					1		RB	65	3.34	1.22		
					1		RB	62	2.85	1.20		
					1		RB	99	13.35	1.38		

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Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Podunk Creek	1	2			1		RB	95	9.01	1.05		
					1		RB	110	16.20	1.22		
					1		RB	113	20.82	1.44		
					1		RB	100	9.54	0.95		
					1		RB	88	7.47	1.10		
					1		RB	104	13.79	1.23		
					1		RB	86	6.66	1.05		
					1		RB	118	14.92	0.91		
					1		RB	97	10.70	1.17		
					1		RB	86	7.57	1.19		
					1		RB	68	2.85	0.91		
					1		RB	80	5.23	1.02		
					1		RB	58	2.56	1.31		
					1		RB	73	4.16	1.07		
					1		RB	126	20.72	1.04		
					1		RB	117	13.73	0.86		
					1		RB	102	11.22	1.06		
					1		RB	118	18.70	1.14		
					1		RB	159	36.31	0.90	81	3+
					1		RB	155	37.82	1.02	82	3+
					1		RB	112	16.62	1.18		
					1		RB	112	14.12	1.01		
					1		RB	1113	12.20	0.00		
					1		RB	88	6.74	0.99		
					1		RB	93	8.88	1.10		
					1		RB	82	6.10	1.11		
					1		RB	75	4.82	1.14		
					1		RB	63	3.15	1.26		
					1		RB	74	4.21	1.04		
					1		RB	69	4.11	1.25		
					1		RB	71	4.42	1.23		
					1		RB	68	3.57	1.14		
					1		RB	63	3.07	1.23		
					1		RB	83	6.22	1.09		
					1		RB	92	7.48	0.96		
					1		RB	93	11.84	1.47		

Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>	
Podunk Creek	1	2			1		RB	106	13.68	1.15			
					1		RB	132	24.09	1.05	83	2+	
					1		RB	94	8.15	0.98			
					1		RB	102	9.89	0.93			
					1		RB	93	8.06	1.00			
					1		RB	93	9.46	1.18			
					2		RB	116	13.90	0.89			
					2		RB	69	3.91	1.19			
					2		RB	82	7.41	1.34			
					2		RB	87	6.53	0.99			
					2		RB	102	11.15	1.05			
					2		RB	87	6.47	0.98			
					2		RB	85	5.75	0.94			
					2		RB	82	6.00	1.09			
					2		RB	77	5.88	1.29			
					2		RB	108	15.90	1.26			
					2		RB	118	15.91	0.97			
					2		RB	138	32.75	1.25	84	2+	
					2		RB	140	30.48	1.11	85	2+	
					Podunk Creek	2	3		26-Sep	1	46	46	RB
1		RB	145	40.17						1.32	87	2+	
1		RB	130	27.93						1.27	88	2+	
1		RB	122	23.15						1.27	89	1+	
1		RB	128	29.59						1.41	90	2+	
1		RB	108	15.66						1.24	91	1+	
1		RB	121	17.70						1.00	92	1+	
1		RB	132	28.84						1.25	93	2+	
1		RB	156	42.41						1.12	94	3+	
1		RB	147	34.46						1.08	95	2+	
1		RB	106	13.42						1.13			
1		RB	93	9.04						1.12			
1		RB	98	10.21						1.08			
1		RB	107	15.41						1.26			
1		RB	130	23.21						1.06	96	2+	



Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Podunk Creek	2	3			1		RB	132	22.89	1.00	97	2+	
					1		RB	98	10.04	1.07	98	1+	
					1		RB	109	13.91	1.07	99	1+	
					1		RB	146	36.35	1.17	100	3+	
					1		RB	151	38.17	1.11	101	3+	
					1		RB	124	19.38	1.02	102	2+	
					1		RB	129	18.44	0.86	103	2+	
					1		RB	108	15.08	1.20	104	1+	
					1		RB	115	17.07	1.12	105	1+	
					1		RB	82	5.31	0.96			
					1		RB	57	2.01	1.09			
					1		RB	110	11.48	0.86	106	1+	
					1		RB	127	21.19	1.03	107	1+	
					1		RB	125	22.75	1.16	108	1+	
					1		RB	107	14.76	1.20	109	1+	
					1		RB	107	13.92	1.14			
					1		RB	115	18.23	1.20	110	1+	
					1		RB	114	14.92	1.01	111	2+	
					1		RB	93	7.63	0.95			
					1		RB	95	10.46	1.22	112	1+	
					2		RB	93	7.62	0.95	113	1+	
					2		RB	155	42.41	1.14	114	3+	
					2		RB	118	19.91	1.21	115	1+	
					2		RB	95	10.03	1.17			
					2		RB	99	9.70	1.00			
					2		RB	98	12.66	1.35			
					2		RB	93	9.44	1.17			
					2		RB	95	7.91	0.92			
					2		RB	85	7.93	1.29			
					2		RB	62	2.95	1.24			
					2		RB	66	2.78	0.97			
Podunk Creek	3	4		27-Sep	1	55	55	RB	80	6.43	1.26	116	1+
					1		RB	152	31.69	0.90	117	3+	
					1		RB	167	53.96	1.16	118	na	

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Podunk Creek	3	4			1		RB	108	16.44	1.31	119	1+
					1		RB	110	13.70	1.03	120	1+
					1		RB	119	20.27	1.20	121	2+
					1		RB	134	24.93	1.04	122	2+
					1		RB	77	6.09	1.33	123	1+
					1		RB	128	25.00	1.19	124	2+
					1		RB	105	14.83	1.28	125	1+
					1		RB	125	23.47	1.20	126	1+
					1		RB	85	7.39	1.20	127	1+
					1		RB	114	16.66	1.12		
					1		RB	85	6.87	1.12		
					1		RB	102	13.71	1.29		
					1		RB	137	29.27	1.14	128	2+
					1		RB	118	21.30	1.30		
					1		RB	122	21.13	1.16		
					1		RB	125	20.09	1.03		
					1		RB	170	60.14	1.22	129	na
					1		RB	136	25.79	1.03	130	3+
					1		RB	182	58.83	0.98	131	3+
					1		RB	124	23.67	1.24		
					1		RB	113	15.70	1.09		
					1		RB	121	17.47	0.99		
					1		RB	113	15.30	1.06		
					1		RB	76	5.57	1.27		
					1		RB	111	15.67	1.15		
					1		RB	159	47.55	1.18	132	2+
					1		RB	154	47.89	1.31	133	4+
					1		RB	110	17.99	1.35		
					1		RB	100	12.78	1.28		
					1		RB	103	13.53	1.24		
					1		RB	113	16.07	1.11		
					1		RB	153	34.73	0.97	134	na
					1		RB	83	6.72	1.18		
					1		RB	95	10.70	1.25		
					1		RB	122	18.51	1.02	135	2+
					1		RB	77	4.70	1.03	136	1+

## Appendix B: Tulameen River Watershed Fish Inventory

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
					1		RB	75	5.23	1.24	137	1+
					1		RB	112	15.19	1.08	138	1+
					1		RB	90	8.53	1.17	139	1+
					1		RB	115	17.00	1.12		
					1		RB	133	24.05	1.02	140	1+
					1		RB	86	7.42	1.17		
					1		RB	127	21.33	1.04		
					1		RB	91	7.67	1.02		
					1		RB	91	7.66	1.02		
					2		RB	95	10.06	1.17		
					2		RB	79	5.64	1.14		
					2		RB	77	5.57	1.22		
					2		RB	115	18.58	1.22		
					2		RB	130	26.57	1.21		
					2		RB	126	26.84	1.34		
					2		RB	101	11.35	1.10		
Spearing Creek	1	1		6-Nov	1	1	1 RB	178	60.00	1.06	444	na ?
Vuich Creek	1	3		9-Oct	1	37	37 RB	75	4.88	1.16		
					1		RB	95	8.44	0.98		
					1		RB	120	18.00	1.04		
					1		RB	75	4.59	1.09		
					1		RB	90	7.45	1.02		
					1		RB	90	8.34	1.14	466	1+
					1		RB	120			467	2+
					1		RB	190	78.59	1.15	468	5+
					1		RB	115	21.25	1.40	469	2+
					1		RB	158	46.46	1.18	470	3+
					1		RB	166	48.67	1.06	471	3+
					1		RB	121	19.55	1.10	472	2+
					1		RB	173	61.67	1.19	473	3+
					1		RB	104	13.29	1.18	474	1+
					1		RB	155	34.82	0.94	475	3+
					1		RB	160	42.26	1.03	476	3+

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Vuich Creek	1	3			1		RB	110	14.21	1.07	477	1+	
					1		RB	148	30.06	0.93	478	2+	
					1		RB	88	6.72	0.99	479	1+	
					1		RB	153	41.00	1.14	480	3+	
					1		RB	135	32.33	1.31			
					1		RB	141	34.46	1.23			
					1		RB	100	11.53	1.15			
					1		RB	144	32.18	1.08			
					1		RB	123	18.22	0.98			
					1		RB	119	16.62	0.99			
					1		RB	110	15.15	1.14			
					1		RB	116	16.09	1.03			
					1		RB	149	32.96	1.00			
					1		RB	129	22.77	1.06			
					1		RB	124	20.67	1.08			
					1		RB	114	15.48	1.04			
					2		RB	146	30.43	0.98			
					2		RB	134	24.18	1.00			
					2		RB	139	27.15	1.01			
					2		RB	101	10.06	0.98			
					2		RB	134	23.84	0.99			
Vuich Creek	2	4	B	27-Sep	1	79	79	RB	147	38.03	1.20	141	3+
					1		RB	135	28.64	1.16	142	2+	
					1		RB	184	75.78	1.22	143	na	
					1		RB	95	8.56	1.00	144	1+	
					1		RB	148	39.83	1.23	145	2+	
					1		RB	173	56.48	1.09	146	na	
					1		RB	134	31.53	1.31	147	3+	
					1		RB	148	32.62	1.01	148	3+	
					1		RB	145	34.06	1.12	149	2+	
					1		RB	147	33.18	1.04	150	3+	
					1		RB	114	15.37	1.04	151	1+	
					1		RB	129	24.10	1.12	152	2+	
					1		RB	101	9.90	0.96	153	1+	

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
					1		RB	98	10.13	1.08	154	1+
					1		RB	143	32.18	1.10	155	3+
					1		RB	141	30.70	1.10	156	3+
					1		RB	123	18.86	1.01	157	2+
					1		RB	126	22.70	1.13		
					1		RB	83	5.84	1.02		
					1		RB	100	10.84	1.08		
					1		RB	71	4.60	1.29		
					1		RB	112	13.06	0.93		
					1		RB	86	7.89	1.24		
					1		RB	115	15.94	1.05		
					1		RB	112	20.01	1.42		
					1		RB	122	21.43	1.18		
					1		RB	123	20.18	1.08		
					1		RB	104	11.43	1.02		
					1		RB	87	8.35	1.27		
					1		RB	113	14.38	1.00		
					1		RB	101	12.02	1.17		
					1		RB	101	10.45	1.01		
					1		RB	73	3.90	1.00		
					1		RB	75	3.88	0.92		
					1		RB	108	16.94	1.34		
					1		RB	73	4.51	1.16		
					1		RB	82	6.08	1.10		
					1		RB	87	7.05	1.07		
					1		RB	128	24.23	1.16	158	2+
					1		RB	130	25.19	1.15	159	2+
					1		RB	150	37.94	1.12	160	3+
					1		RB	123	19.08	1.03		
					1		RB	106	13.37	1.12		
					1		RB	94	9.79	1.18		
					1		RB	70	4.65	1.36		
					1		RB	64	3.08	1.17		
					1		RB	95	10.52	1.23		
					1		RB	139	29.98	1.12		
					1		RB	90	7.42	1.02		

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale		
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>	
Vuich Creek	2	4	B		1		RB	73	4.46	1.15			
					1		RB	120	16.18	0.94			
					1		RB	125	22.80	1.17			
					1		RB	117	16.38	1.02			
					1		RB	102	10.98	1.03			
					1		RB	104	12.13	1.08			
					1		RB	99	11.44	1.18			
					1		RB	112	14.75	1.05			
					1		RB	115	13.01	0.86			
					2		RB	140	29.28	1.07			
					2		RB	105	14.09	1.22			
					2		RB	96	10.52	1.19			
					2		RB	110	13.02	0.98			
					2		RB	116	20.54	1.32			
					2		RB	162	39.06	0.92	161	3+	
					2		RB	122	22.09	1.22			
					2		RB	105	11.94	1.03			
					2		RB	133	23.22	0.99	162	2+	
					2		RB	122	17.90	0.99			
					2		RB	102	12.11	1.14			
					2		RB	90	8.95	1.23			
					2		RB	92	8.85	1.14			
					2		RB	96	9.90	1.12			
					2		RB	101	10.83	1.05			
					2		RB	103	10.59	0.97			
					2		RB	110	14.32	1.08			
					2		RB	98	10.94	1.16			
					2		RB	97	9.30	1.02			
					2		RB	83	6.18	1.08			
					2		RB	85	7.34	1.20			
Vuich Creek	3	tributary		9-Oct	1	37	37	RB	88	8.90	1.31	456	1+
					1		RB	123	24.35	1.31	457	na	
					1		RB	38	0.68	1.24			
					1		RB	120	19.16	1.11	458	1+	

Appendix B: Tulameen River Watershed Fish Inventory

Stream	Sample	Reach	Section	Date	Pass	Total	Species <sup>2</sup>	Fork Length	Weight	Condition Factor <sup>3</sup>	Scale	
Name	Site No.	Number	Number	(1996)	Number <sup>1</sup>	Catch	Catch	(mm)	(g)	(g/cm <sup>3</sup> )	Number	Age <sup>4</sup>
Vuich Creek	3	tributary			1		RB	124	21.29	1.12	459	2+
					1		RB	128	26.13	1.25	460	2+
					1		RB	36	0.49	1.05		
					1		RB	42	0.78	1.05		
					1		RB	41	0.65	0.94		
					1		RB	39	0.70	1.18		
					1		RB	39	0.60	1.01		
					1		RB	41	0.66	0.96		
					1		RB	42	0.79	1.07		
					1		RB	70	4.35	1.27		
					1		RB	75	5.55	1.32		
					1		RB	92	8.00	1.03	461	1+
					1		RB	93	9.67	1.20		
					1		RB	95	10.63	1.24		
					1		RB	72	3.81	1.02		
					1		RB	69	3.79	1.15		
					1		RB	97	11.95	1.31		
					1		RB	118	20.14	1.23	462	2+
					1		RB	104	11.73	1.04		
					1		RB	108	13.72	1.09		
					1		RB	108	13.26	1.05		
					1		RB	115	18.10	1.19		
					1		RB	92	9.52	1.22		
					1		RB	88	9.01	1.32		
					1		RB	100	11.41	1.14		
					1		RB	66	3.73	1.30		
					2		RB	81	6.99	1.32		
					2		RB	72	4.81	1.29		
					2		RB	116	16.44	1.05	463	1+
					2		RB	125	28.65	1.47	464	2+
					2		RB	128	21.78	1.04	465	2+
					2		RB	100	12.22	1.22		
					2		RB	126	20.70	1.03		

Stream Name	Sample Site No.	Reach Number	Section Number	Date (1996)	Pass Number <sup>1</sup>	Total Catch	Species <sup>2</sup> Catch	Fork Length (mm)	Weight (g)	Condition Factor <sup>3</sup> (g/cm <sup>3</sup> )	Scale Number	Age <sup>4</sup>
1	Pass Number: number of passes made by electroshocker											
2	Species Abbreviations			RB	Rainbow trout							
				EB	Brook trout							
				SC	sculpin							
				LNC	Longnose dace							
				RSC	Redsided shiner							
3	Condition Factor (g/cm <sup>2</sup> ):			As described by IEC Beak Consultants - A value used to incorporate length and weight measurements of the Rainbow trout. It has been determined as: (Weight (g) x 100)/ (Length (cm)) <sup>3</sup> . (Klak, 1941; Ricker, 1975)								
4	Age as determined by scale analysis											



STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL WIDTH (m)	BANKFUL DEPTH (m)	WETTED WIDTH (m)	WETTED DEPTHS (cm)			AVERAGE DEPTH (m)
Tulameen River	1	0	1-Oct-96	46.8	4.0	14.4	32.0	54.0	56.0	47.3
Tulameen River	1	10	1-Oct-96	45.6	4.0	13.1	21.0	42.0	48.0	37.0
Tulameen River	1	20	1-Oct-96	45.0	4.0	16.9	12.0	26.0	41.0	26.3
Tulameen River	1	30	1-Oct-96	35.9	4.0	16.5	18.0	23.0	41.0	27.3
Tulameen River	1	40	1-Oct-96	41.1	4.0	18.1	15.0	38.0	47.0	33.3
Tulameen River	1	50	1-Oct-96	41.4	4.0	15.9	25.0	48.0	57.0	43.3
Tulameen River	1	60	1-Oct-96	38.7	4.0	16.7	36.0	50.0	57.0	47.7
Tulameen River	1	70	1-Oct-96	40.5	4.0	17.3	38.0	69.0	82.0	63.0
Tulameen River	1	80	1-Oct-96	36.4	3.5	20.0	32.0	43.0	49.0	41.3
Tulameen River	1	90	1-Oct-96	37.1	3.5	20.4	31.0	33.0	25.0	29.7
Tulameen River	1	100	1-Oct-96	38.4	3.5	20.5	40.0	42.0	40.0	40.7
Tulameen River	2	0	4-Oct-96	28.0	1.5	16.4	44.0	35.0	38.0	39.0
Tulameen River	2	10	4-Oct-96	29.7	1.5	16.5	27.0	46.0	28.0	33.7
Tulameen River	2	20	4-Oct-96	28.7	1.5	15.5	29.0	41.0	38.0	36.0
Tulameen River	2	30	4-Oct-96	30.3	1.5	13.9	37.0	40.0	47.0	41.3
Tulameen River	2	40	4-Oct-96	29.9	1.5	12.1	31.0	53.0	33.0	39.0
Tulameen River	2	50	4-Oct-96	29.8	1.5	13.0	22.0	31.0	48.0	33.7
Tulameen River	2	60	4-Oct-96	31.6	10.5	11.0	43.0	49.0	38.0	43.3
Tulameen River	2	70	4-Oct-96	22.9	1.5	10.7	37.0	60.0	32.0	43.0
Tulameen River	2	80	4-Oct-96	31.2	1.5	10.6	35.0	51.0	34.0	40.0
Tulameen River	2	90	4-Oct-96	32.6	1.5	10.9	38.0	53.0	28.0	39.7
Tulameen River	2	100	4-Oct-96	35.1	1.4	18.0	77.0	46.0	75.0	66.0
Tulameen River	3	0	24-Sep-96	24.4	2.0	16.9	60.0	110.0	120.0	96.7
Tulameen River	3	10	24-Sep-96	37.9	2.0	14.2	60.0	80.0	120.0	86.7
Tulameen River	3	20	24-Sep-96	42.2	2.0	15.2	50.0	75.0	95.0	73.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Tulameen River	3	30	24-Sep-96	49.8	5.0	17.8	80.0	70.0	90.0	80.0
Tulameen River	3	40	24-Sep-96	54.8	4.0	16.8	50.0	65.0	70.0	61.7
Tulameen River	3	50	24-Sep-96	65.8	3.0	16.2	40.0	30.0	50.0	40.0
Tulameen River	3	60	24-Sep-96	69.6	3.0	16.7	40.0	35.0	45.0	40.0
Tulameen River	3	70	24-Sep-96	76.2	2.0	18.3	40.0	50.0	30.0	40.0
Tulameen River	3	80	24-Sep-96	57.4	2.0	18.2	40.0	50.0	30.0	40.0
Tulameen River	3	90	24-Sep-96	54.2	2.0	18.8	35.0	40.0	60.0	45.0
Tulameen River	3	100	24-Sep-96	51.9	2.0	18.6	40.0	50.0	30.0	40.0
Tulameen River	4	100	28-Sep-96	68.6	1.5	18.6	30.0	40.0	34.0	34.7
Tulameen River	4	90	28-Sep-96	75.3	1.5	15.7	20.0	40.0	36.0	32.0
Tulameen River	4	80	28-Sep-96	64.3	1.5	15.0	36.0	45.0	30.0	37.0
Tulameen River	4	70	28-Sep-96	59.6	1.4	19.0	25.0	42.0	44.0	37.0
Tulameen River	4	60	28-Sep-96	56.6	1.5	13.3	30.0	36.0	40.0	35.3
Tulameen River	4	50	29-Sep-96	46.9	1.5	12.0	27.0	40.0	51.0	39.3
Tulameen River	4	40	28-Sep-96	44.8	1.5	13.5	26.0	31.0	40.0	32.3
Tulameen River	4	30	29-Sep-96	38.0	1.5	12.9	26.0	28.0	41.0	31.7
Tulameen River	4	20	28-Sep-96	35.4	1.5	13.7	20.0	22.0	51.0	31.0
Tulameen River	4	10	28-Sep-96	31.0	1.6	9.1	20.0	35.0	30.0	28.3
Tulameen River	4	0	28-Sep-96	30.0	2.0	8.0	20.0	55.0	55.0	8.0
Tulameen River	5	0	25-Sep-96	6.0	2.0	4.6	110.0	108.0	100.0	106.0
Tulameen River	5	10	25-Sep-96	6.8	0.5	5.5	15.0	20.0	10.0	15.0
Tulameen River	5	20	25-Sep-96	10.1	1.0	3.7	25.0	20.0	30.0	25.0
Tulameen River	5	30	25-Sep-96	10.8	0.6	3.8	26.0	21.0	16.0	21.0
Tulameen River	5	40	25-Sep-96	11.1	1.0	6.3	17.0	21.0	26.0	21.3
Tulameen River	5	50	25-Sep-96	8.3	1.6	7.1	11.0	47.0	39.0	32.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Tulameen River	5	60	25-Sep-96	6.0	1.0	5.6	20.0	35.0	41.0	32.0
Tulameen River	5	70	25-Sep-96	7.8	0.5	7.8	11.0	26.0	31.0	22.7
Tulameen River	5	80	25-Sep-96	7.1	0.4	5.9	13.0	19.0	19.0	17.0
Tulameen River	5	90	25-Sep-96	7.9	0.4	7.9	7.0	21.0	23.0	17.0
Tulameen River	5	100	25-Sep-96	8.9	0.4	8.9	15.0	7.0	27.0	16.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Tulameen River	1	0	1-Oct-96	10	<i>Populus trichocarpa</i> <i>Thuja plicata</i>	0	
Tulameen River	1	10	1-Oct-96	0		0	
Tulameen River	1	20	1-Oct-96	0		0	
Tulameen River	1	30	1-Oct-96	0		0	
Tulameen River	1	40	1-Oct-96	0		0	
Tulameen River	1	50	1-Oct-96	0		0	
Tulameen River	1	60	1-Oct-96	0		2	<i>Thuja plicata</i> (juv)
Tulameen River	1	70	1-Oct-96	20	<i>Populus trichocarpa</i>	5	<i>Acer circinatum</i> <i>Thuja plicata</i> (juv)
Tulameen River	1	80	1-Oct-96	25	<i>Populus trichocarpa</i>	0	
Tulameen River	1	90	1-Oct-96	2	<i>Thuja plicata</i>	1	<i>Cornus stolonifera</i>
Tulameen River	1	100	1-Oct-96	0		2	<i>Alnus sinuata</i>
Tulameen River	2	0	4-Oct-96	0		5	<i>Alnus sinuata</i>
Tulameen River	2	10	4-Oct-96	0		0	
Tulameen River	2	20	4-Oct-96	0		0	
Tulameen River	2	30	4-Oct-96	0		0	
Tulameen River	2	40	4-Oct-96	0		0	
Tulameen River	2	50	4-Oct-96	0		0	
Tulameen River	2	60	4-Oct-96	0		0	
Tulameen River	2	70	4-Oct-96	0		0	
Tulameen River	2	80	4-Oct-96	0		0	
Tulameen River	2	90	4-Oct-96	0		0	
Tulameen River	2	100	4-Oct-96	0		1	<i>Salix sp.</i>
Tulameen River	3	0	24-Sep-96	1	<i>Populus trichcarpa</i>	0	
Tulameen River	3	10	24-Sep-96	0		0	
Tulameen River	3	20	24-Sep-96	0		0	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Tulameen River	3	30	24-Sep-96	1	<i>Pinus contorta</i>	0	
Tulameen River	3	40	24-Sep-96	1	<i>Pinus contorta</i>	0	
Tulameen River	3	50	24-Sep-96	<1	<i>Pinus contorta</i>	0	
Tulameen River	3	60	24-Sep-96	1	<i>Pinus contorta</i>	<1	<i>Alnus sinuata</i>
Tulameen River	3	70	24-Sep-96	5	<i>P. menziesii</i> <i>Pinus contorta</i> <i>P. menziesii</i>	1	<i>Salix sp.</i>
Tulameen River	3	80	24-Sep-96	0		0	
Tulameen River	3	90	24-Sep-96	1	<i>Pinus contorta</i>	0	
Tulameen River	3	100	24-Sep-96	1	<i>Populus trichocarpa</i>	0	
Tulameen River	4	100	28-Sep-96	10	<i>Picea sitchensis</i>	0	
Tulameen River	4	90	28-Sep-96	10	<i>Picea sitchensis</i>	0	
Tulameen River	4	80	28-Sep-96	20	<i>Picea sitchensis</i>	0	
Tulameen River	4	70	28-Sep-96	0		3	<i>Alnus sinuata</i>
Tulameen River	4	60	28-Sep-96	5	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Tulameen River	4	50	29-Sep-96	15	<i>Picea sitchensis</i>	4	<i>Alnus sinuata</i>
Tulameen River	4	40	28-Sep-96	10	<i>Picea sitchensis</i>	2	<i>Alnus sinuata</i>
Tulameen River	4	30	29-Sep-96	0		2	<i>Alnus sinuata</i>
Tulameen River	4	20	28-Sep-96	0		1	<i>Alnus sinuata</i>
Tulameen River	4	10	28-Sep-96	0		0	
Tulameen River	4	0	28-Sep-96	0		0	
Tulameen River	5	0	25-Sep-96	10	<i>Pinus contorta</i>	1	<i>Salix sp.</i>
Tulameen River	5	10	25-Sep-96	10	<i>Pinus contorta</i>	1	<i>Salix sp.</i>
Tulameen River	5	20	25-Sep-96	40	<i>Pinus contorta</i>	5	<i>Equisetum sp.</i>
Tulameen River	5	30	25-Sep-96	15	<i>Pinus contorta</i>	10	grass
Tulameen River	5	40	25-Sep-96	20	<i>Pinus contorta</i>	0	
Tulameen River	5	50	25-Sep-96	10	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Tulameen River	5	60	25-Sep-96	25	<i>Pinus contorta</i>	10	<i>Salix sp.</i>
Tulameen River	5	70	25-Sep-96	15	<i>Pinus contorta</i>	10	<i>Salix sp.</i>
Tulameen River	5	80	25-Sep-96	10	<i>Pinus contorta</i>	10	<i>Salix sp.</i> grass
Tulameen River	5	90	25-Sep-96	10	<i>Pinus contorta</i>	10	<i>Salix sp.</i>
Tulameen River	5	100	25-Sep-96	2	<i>Pinus contorta</i>	10	<i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Tulameen River	1	0	1-Oct-96	0	0			70	20	10	
Tulameen River	1	10	1-Oct-96	0	0			70	20	10	
Tulameen River	1	20	1-Oct-96	0	0			70	20	10	
Tulameen River	1	30	1-Oct-96	0	0			70	20	10	
Tulameen River	1	40	1-Oct-96	1	5		5	65	20	10	
Tulameen River	1	50	1-Oct-96	2	5		10	50	20	20	
Tulameen River	1	60	1-Oct-96	4	15		10	50	20	20	
Tulameen River	1	70	1-Oct-96	0	0		10	50	20	20	
Tulameen River	1	80	1-Oct-96	0	0		10	50	25	15	
Tulameen River	1	90	1-Oct-96	0	0		5	50	30	15	
Tulameen River	1	100	1-Oct-96	0	0		5	50	30	15	
Tulameen River	2	0	4-Oct-96	2	0		10	60	20	10	
Tulameen River	2	10	4-Oct-96	0	0		10	60	20	10	
Tulameen River	2	20	4-Oct-96	0	0		10	50	30	10	
Tulameen River	2	30	4-Oct-96	0	0		10	50	30	10	
Tulameen River	2	40	4-Oct-96	0	0	40		30	20	10	
Tulameen River	2	50	4-Oct-96	0	0		10	50	30	10	
Tulameen River	2	60	4-Oct-96	0	0		20	40	30	10	
Tulameen River	2	70	4-Oct-96	0	0	10		40	30	20	
Tulameen River	2	80	4-Oct-96	0	0			40	40	20	
Tulameen River	2	90	4-Oct-96	1	1			40	40	20	
Tulameen River	2	100	4-Oct-96	0	0			50	40	10	
Tulameen River	3	0	24-Sep-96	2	2	10	5	25	45	15	
Tulameen River	3	10	24-Sep-96	1	2		1	30	39	30	
Tulameen River	3	20	24-Sep-96	4	10		1	35	29	35	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Tulameen River	3	30	24-Sep-96	3	0		5	40	15	40	
Tulameen River	3	40	24-Sep-96	2	0		5	50	15	30	
Tulameen River	3	50	24-Sep-96	4	0		10	40	30	20	
Tulameen River	3	60	24-Sep-96	5	<1		10	40	30	20	
Tulameen River	3	70	24-Sep-96	4	5			50	20	30	
Tulameen River	3	80	24-Sep-96	4	0		5	75	10	10	
Tulameen River	3	90	24-Sep-96	3	0		5	60	20	15	
Tulameen River	3	100	24-Sep-96	1	0			60	20	20	
Tulameen River	4	100	28-Sep-96	0	0		30	60	10		
Tulameen River	4	90	28-Sep-96	>20	0		20	70	10		
Tulameen River	4	80	28-Sep-96	1	5		20	70	10		
Tulameen River	4	70	28-Sep-96	0	0		5	30	60	5	
Tulameen River	4	60	28-Sep-96	>10	0		5	45	40	10	
Tulameen River	4	50	29-Sep-96	2	0		10	40	40	10	
Tulameen River	4	40	28-Sep-96	2	1		15	35	30	20	
Tulameen River	4	30	29-Sep-96	2	0		10	40	35	15	
Tulameen River	4	20	28-Sep-96	1	0		15	40	35	10	
Tulameen River	4	10	28-Sep-96	1	0		10	50	40		
Tulameen River	4	0	28-Sep-96	0	0	10	20	10	50	10	
Tulameen River	5	0	25-Sep-96	1	5	10		45	25	20	
Tulameen River	5	10	25-Sep-96	2	5	50	10	10	30		
Tulameen River	5	20	25-Sep-96	3	15		5	70	20	5	
Tulameen River	5	30	25-Sep-96	2	10		20	40	30	10	
Tulameen River	5	40	25-Sep-96	1	10		10	40	40	10	
Tulameen River	5	50	25-Sep-96	0	0	10	40	45	5		



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Tulameen River	5	60	25-Sep-96	1	10	20	35	40	5		
Tulameen River	5	70	25-Sep-96	0	0		15	70	10	5	
Tulameen River	5	80	25-Sep-96	2	15		20	60	15	5	
Tulameen River	5	90	25-Sep-96	0	0		15	70	10	5	
Tulameen River	5	100	25-Sep-96	0	0		10	70	10	10	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Tulameen River	1	0	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Cut bank, 4m vertical, with root OH. Flood plane at 4m.
Tulameen River	1	10	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Cut bank, 4m vertical, with root OH. Flood plane at 4m.
Tulameen River	1	20	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Cut bank, 4m vertical, with root OH. Flood plane at 4m.
Tulameen River	1	30	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. for 2m. Flood plane at 4m. R: Cut bank, 4m vertical, with root OH. Flood plane at 4m.
Tulameen River	1	40	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. for 2m. Flood plane at 4m. R: Cut bank, 4m vertical, with root OH. Flood plane at 4m.
Tulameen River	1	50	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Cut bank, 4m vertical, with root OH. Some large areas sloughing into flow. Flood plane at 4m.
Tulameen River	1	60	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. Small woody debris deposited atop bank. R: Undercut bank, 4m vertical. Bank is sloughing such that large pieces are breaking off. Flood plane at 4m.
Tulameen River	1	70	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Cut bank, 3m vertical, with extensive root and <i>Acer circinatum</i> OH. Flood plane at 3m. Rootwad atop bank.
Tulameen River	1	80	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Undercut bank, 2.5m vertical, with root OH. Moss atop bank. Flood plane (at 4m): <i>Comus stolonifera</i> .
Tulameen River	1	90	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Undercut slightly with root OH. Moss atop bank (dry). Flood plane: <i>Thuja plicata</i> , <i>Picea sitchensis</i> and <i>Alnus sinuata</i> .
Tulameen River	1	100	L: Cobble bar (bare) sloping to grass and <i>Salix</i> sp. Flood plane at 4m. R: Cut slightly with root OH. Dry moss present. Sloping flood plane: <i>Alnus sinuata</i> (juvenile).
Tulameen River	2	0	L: Steep slope, eroding and unstable. Small woody debris lining bank. Cutblock to wetted width. R: Steep slope, eroding and unstable. Small woody debris lining bank. Cutblock to wetted width.
Tulameen River	2	10	L: Slope bank, vegetative OH at 6m vertical and 4m horizontal, some areas sloughing into stream. Bedrock exposed. R: Sloping cobble, <2% to rooted bank. Flood plane: slope > 45% to grass field at 5m horizontal.
Tulameen River	2	20	L: Steep eroding bedrock and fallen rock. Little vegetation. Unstable. Flow is adjacent to road. R: Cobble slope to sloughing moss bank, stable. Flood plane is grass field.
Tulameen River	2	30	L: Bedrock stable to 3m, above is unstable, eroding, little vegetation. R: Sloping cobble to moss sloughing, to grass field beyond. Appears stable due to rooted vegetation.
Tulameen River	2	40	L: Bedrock, bank eroding at 3m vertical, fallen rock, <i>Alnus sinuata</i> , <i>Rosa</i> sp. and <i>Salix</i> sp. R: Cobble slope to cut bank. Slough.
Tulameen River	2	50	L: Riprap bank. <i>Salix</i> sp. and <i>Alnus sinuata</i> from road to bankful width. R: Cutbank, 0.1m vertical, (lining slough), <i>Alnus sinuata</i> and <i>Populus trichocarpa</i> .
Tulameen River	2	60	L: Slope, unstable and eroding. Fallen rock. Vegetation is at 4m vertical, (road). R: Riprap, with sand deposits, lining bank.
Tulameen River	2	70	L: Slope to road > 60%. vegetation sloughing, rock eroding and sloughing into flow. R: Cobble slope to cutbank with vegetative OH. Grass slope to field.
Tulameen River	2	80	L: Riprap to road, 6m vertical and 3m horizontal. Few <i>Acer circinatum</i> , <i>Alnus sinuata</i> and <i>Salix</i> sp. up bank. R: Cobble sloping to sand sloping to grass field.
Tulameen River	2	90	L: Riprap to road, 6m vertical and 3m horizontal. Few <i>Acer circinatum</i> , <i>Alnus sinuata</i> and <i>Salix</i> sp. up bank. R: Cobble sloping to sand sloping to grass field.
Tulameen River	2	100	L: Unstable rock (riprap), sloughing gravel sized pieces into stream. Slope to road: >60%. <i>Salix</i> sp. and <i>Alnus sinuata</i> . R: Cobble/gravel slope (1%) to cut bank. <i>Salix</i> sp. OH. Woody debris deposits line bank.
Tulameen River	3	0	L: Sloping cobble to sloping, eroded, unstable, unvegetated slide. Road at 15m vertical and 6m horizontal. R: Undercut (2m horizontal) with root OH, some riparian vegetation, no OH. Flood plane at 2m.
Tulameen River	3	10	L: Sloping cobble/gravel to steep slope (eroded, no vegetation, slide) to road. Vegetation at 20m vertical. R: Cut bank with <i>Salix</i> sp. and <i>Alnus sinuata</i> OH.
Tulameen River	3	20	L: Cobble/gravel bar to steep eroding, unveg. slope to road at 8m vertical and 2m horizontal. Vegetation at 20m vertical. R: Cut bank, 5m vertical. Flood plane is stand of <i>Pseudosuga menziesii</i> for 75m to 100m.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Tulameen River	3	30	L: Cobble slope to steep, eroded, little vegetation upslope, ( <i>Pseudosuga menziesii</i> ). Road at 5m vertical. R: Cut bank, 5.5m vertical.
Tulameen River	3	40	L: Cobble/gravel bar to steep, unvegetated slope to road (5m vertical). Vegetation at 20m upslope (other side of road). R: Slight cobble/gravel slope to cutbank with root OH. One large and many small woody debris deposited atop bank, (dry).
Tulameen River	3	50	L: Gravel/cobble bar to road at 3m vertical and 2m horizontal. Vegetation on far side of road. R: Cut bank with root OH. LWD atop bank (dry). Flood plane: <i>P. menziesii</i> , <i>Pinus contorta</i> .
Tulameen River	3	60	L: Cobble to steep, unstable vegetated slope ( <i>P. menziesii</i> , <i>P. contorta</i> ). R: Cobble slope to undercut bank and root OH. Woody debris atop bank.
Tulameen River	3	70	L: Cobble/gravel bar ( <i>Salix</i> sp.) to road to steep slope with few <i>P. contorta</i> , unstable. R: Sloping cobble, to undercut bank with root OH. Small woody debris deposits atop bank.
Tulameen River	3	80	L: Cobble/gravel bar ( <i>Salix</i> sp., <i>P. trichocarpa</i> , <i>A. sinuata</i> , <i>P. menziesii</i> ) to road to eroding, unstable, steep slope. R: Cobble slope (<1%) to undercut bank with LWD and root OH. (0% WW cover). Flood plane mature and juv. <i>P. menziesii</i> .
Tulameen River	3	90	L: Cobble slope to flood plane: sand deposits, <i>P. contorta</i> , <i>P. menziesii</i> , <i>P. trichocarpa</i> . R: Cut bank, 2.5m vertical with rootwad OH. (0% WW cover). Flood plane: juv. <i>P. menziesii</i> .
Tulameen River	3	100	L: Cobble slope to flood plane. Flood plane: <i>P. menziesii</i> , <i>P. contorta</i> , <i>P. trichocarpa</i> . Road up slope. R: Cobble slope (<1%) to undercut bank, 2m vertical with OH LWD (0% WW cover).
Tulameen River	4	100	L: Undercut at 1.5m vertical with rootwad and vegetation OH. Trees sloughing over. R: Undercut, 3m vertical, unstable. Flood plane: clearcut sloping 10m to road.
Tulameen River	4	90	L: Undercut at 1.5m vertical with rootwad and vegetation OH. Trees sloughing over. R: Undercut, 3m vertical, unstable. Flood plane: clearcut sloping 10m to road.
Tulameen River	4	80	L: Cobble slope to cut bank. Flood plane: >10m, <i>P. sitchensis</i> , <i>A. sinuata</i> . R: Undercut, 3m vertical, unstable. Flood plane: clearcut sloping 10m to road. LWD jam on mid channel bar (dry).
Tulameen River	4	70	L: Cut bank. Flood plane (10m), <i>Populus trichocarpa</i> , <i>P. sitchensis</i> , <i>Thuja plicata</i> . R: Cut bank, sloughing, eroding, appears to be sliding down bank. <i>A. sinuata</i> .
Tulameen River	4	60	L: Undercut bank, 1m vertical, with root and vegetative OH: <i>A. sinuata</i> and <i>Thuja plicata</i> . R: Cut bank, sloughing, eroding, appears to be sliding down bank. <i>A. sinuata</i> .
Tulameen River	4	50	L: Undercut bank, 1m vertical, with root and vegetative OH: <i>A. sinuata</i> and <i>Thuja plicata</i> . R: Cut bank, sloughing, eroding, appears to be sliding down bank. <i>A. sinuata</i> .
Tulameen River	4	40	L: Undercut bank, 1m vertical, with root and vegetative OH: <i>A. sinuata</i> and <i>Thuja plicata</i> . Rootwad undercut. R: Gravel/cobble bar to cut bank to sloping flood plane. <i>A. sinuata</i> , <i>Acer circinatum</i> and <i>Epilobium angustifolium</i> .
Tulameen River	4	30	L: Slope to flood plane: > 10m. <i>A. sinuata</i> OH. Undercutting beneath and tree sloughing. R: Cobble island to dry channel to cut bank. <i>Alnus sinuata</i> , <i>E. angustifolium</i> and <i>Salix</i> sp.
Tulameen River	4	20	L: Undercut bank root OH. Little vegetative OH. R: Cobble/gravel sloping to boulder riprap placed for bridge stabilization.
Tulameen River	4	10	L: Slope (<1%) to flood plane. Little vegetation ( <i>Alnus sinuata</i> , <i>Rubus parviflorus</i> , <i>Acer circinatum</i> ) R: Bare boulder riprap to road.
Tulameen River	4	0	L: Riprap to cement wall beneath bridge. R: Riprap to cement wall beneath bridge.
Tulameen River	5	0	L: Under cut bank with sloping flood plane, woody debris along bank, <i>Salix</i> sp. and root OH. R: Bedrock bank with steep slope, no flood plane. <i>P. contorta</i> atop vegetated bank.
Tulameen River	5	10	L: Undercut bank with <i>Salix</i> sp. OH. Woody debris build up along bank. R: Bedrock lining pool (10m), no flood plane. Moss on bedrock, up slope: <i>Pinus contorta</i> .
Tulameen River	5	20	L: Undercut, 1m vertical and 1m horizontal, root and vegetative OH. <i>Pinus contorta</i> sloughing. R: Sloping gravel/cobble bar deposited atop vegetation.
Tulameen River	5	30	L: Steep, undercut bank, sloughing. Flow beneath bank here. R: Cobble slope to flood plane (10m) at 0.6m vertical. Flood plane: <i>P. contorta</i> and <i>P. sitchensis</i> . Slopes beyond.
Tulameen River	5	40	L: Undercut, moss sloughing to steep slope, unstable, clay deposit near bank. Underground flow. Sink holes. R: Gradually increasing slope with vegetation for 25m.
Tulameen River	5	50	L: Bedrock with <i>salix</i> sp. OH., and <i>Pinus contorta</i> . R: Gravel slope (dry) to undercut bank, 0.1m horizontal with <i>Salix</i> sp. OH. Flood plane slopes gradually: <i>P. contorta</i> .

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Tulameen River	5	60	L: Steep bedrock (3m vertical), with <i>Salix</i> sp. R: Cobble slope to flood plane, some woody debris deposits.
Tulameen River	5	70	L: Undercut bank, (0.10m horizontal), to steep bedrock, fallen rock, sloughing moss and grasses. R: Cut bank (0.4m vertical) with <i>Salix</i> sp., moss and grass OH.
Tulameen River	5	80	L: Slope to 1m wide flood plane with <i>Salix</i> sp. OH. R: Cut bank (0.4m vertical) with <i>Salix</i> sp., moss and grass OH.
Tulameen River	5	90	L: Undercut (0.4m horizontal) with <i>Salix</i> sp. and root OH. Flood plane: sloping, stable. R: Undercut (0.2m horizontal), with <i>Salix</i> sp., moss and grass OH. No flood plane, confined, steep, stable.
Tulameen River	5	100	L: Undercut (0.4m horizontal) with <i>Salix</i> sp. and root OH. Flood plane: sloping, stable. R: Undercut (0.2m horizontal), with <i>Salix</i> sp., moss and grass OH. No flood plane, confined, steep, stable

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Arrastra Creek	1	0	29-Sep-96	10.9	1.4	9.5	16.0	13.0	14.0	14.3
Arrastra Creek	1	10	29-Sep-96	11.5	1.4	6.9	19.0	25.0	14.0	19.3
Arrastra Creek	1	20	29-Sep-96	9.4	1.3	4.2	13.0	24.0	14.0	17.0
Arrastra Creek	1	30	29-Sep-96	10.0	1.4	6.1	21.0	22.0	10.0	17.7
Arrastra Creek	1	40	29-Sep-96	11.2	0.7	6.4	8.0	14.0	27.0	16.3
Arrastra Creek	1	50	29-Sep-96	14.0	1.0	8.7	9.0	15.0	28.0	17.3
Arrastra Creek	1	60	29-Sep-96	11.7	1.3	8.3	8.0	17.0	9.0	11.3
Arrastra Creek	1	70	29-Sep-96	9.0	1.3	7.5	22.0	24.0	19.0	21.7
Arrastra Creek	1	80	29-Sep-96	7.8	1.5	6.5	18.0	10.0	28.0	18.7
Arrastra Creek	1	90	29-Sep-96	8.9	1.4	4.7	21.0	26.0	23.0	23.3
Arrastra Creek	1	100	29-Sep-96	11.4	1.4	4.1	26.0	33.0	36.0	31.7
Arrastra Creek	2	0	29-Sep-96	7.7	0.9	4.3	21.0	21.0	18.0	20.0
Arrastra Creek	2	10	29-Sep-96	8.4	0.9	4.0	22.0	20.0	15.0	19.0
Arrastra Creek	2	20	29-Sep-96	9.1	1.5	4.5	20.0	21.0	20.0	20.3
Arrastra Creek	2	30	29-Sep-96	8.7	1.5	4.3	24.0	23.0	25.0	24.0
Arrastra Creek	2	40	29-Sep-96	8.9	1.5	4.9	21.0	16.0	12.0	16.3
Arrastra Creek	2	50	29-Sep-96	6.2	0.5	3.2	16.0	17.0	15.0	16.0
Arrastra Creek	2	60	29-Sep-96	5.0	0.5	4.5	16.0	10.0	17.0	14.3
Arrastra Creek	2	70	29-Sep-96	8.3	0.5	3.3	10.0	16.0	19.0	15.0
Arrastra Creek	2	80	29-Sep-96	5.7	0.5	5.7	16.0	13.0	6.0	11.7
Arrastra Creek	2	90	29-Sep-96	8.2	0.5	3.8	10.0	6.0	9.0	8.3
Arrastra Creek	2	100	29-Sep-96	6.8	0.4	6.0	26.0	7.0	2.0	11.7
Arrastra Creek	3	0	29-Sep-96	14.5	0.3	7.5	max	8.0		8.0
Arrastra Creek	3	10	29-Sep-96	16.0	0.4	3.7	max	16.0		16.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Arrastra Creek	3	20	29-Sep-96	8.6	0.7	3.8	5.0	9.0		7.0
Arrastra Creek	3	30	29-Sep-96	6.1	0.7	2.3	max	14.0		14.0
Arrastra Creek	3	40	29-Sep-96	15.0	1.0	3.4	max	8.0		8.0
Arrastra Creek	3	50	29-Sep-96	6.0	0.7	2.9	max	15.0		15.0
Arrastra Creek	3	60	29-Sep-96	4.8	0.9	1.8	max	8.0		8.0
Arrastra Creek	3	70	29-Sep-96	7.1	0.4	0.8	9.0	15.0		12.0
Arrastra Creek	3	80	29-Sep-96	5.9	0.5	2.1	max	12.0		12.0
Arrastra Creek	3	90	29-Sep-96	10.1	0.4	3.3	max	8.0		8.0
Arrastra Creek	3	100	29-Sep-96	12.4	0.4	3.7	max	11.0		11.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Arrastra Creek	1	0	29-Sep-96	30	<i>Picea sitchensis</i> <i>P. menziesii</i>	25	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	1	10	29-Sep-96	10	<i>Picea sitchensis</i>	15	<i>Alnus sinuata</i>
Arrastra Creek	1	20	29-Sep-96	20	<i>Populus trichocarpa</i>	15	<i>Alnus sinuata</i>
Arrastra Creek	1	30	29-Sep-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	1	40	29-Sep-96	20	<i>Picea sitchensis</i> <i>Populus trichocarpa</i>	20	<i>Alnus sinuata</i>
Arrastra Creek	1	50	29-Sep-96	40	<i>Populus trichocarpa</i>	0	
Arrastra Creek	1	60	29-Sep-96	40	<i>Picea sitchensis</i>	5	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	1	70	29-Sep-96	0		10	<i>Alnus sinuata</i>
Arrastra Creek	1	80	29-Sep-96	10	<i>Populus trichocarpa</i>	15	<i>Alnus sinuata</i>
Arrastra Creek	1	90	29-Sep-96	5	<i>Picea sitchensis</i>	20	<i>Alnus sinuata</i>
Arrastra Creek	1	100	29-Sep-96	10	<i>Picea sitchensis</i>	25	<i>Alnus sinuata</i>
Arrastra Creek	2	0	29-Sep-96	30	<i>Picea sitchensis</i> <i>Populus trichocarpa</i>	50	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	2	10	29-Sep-96	40	<i>Populus trichocarpa</i> <i>Picea sitchensis</i>	15	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	2	20	29-Sep-96	10	<i>Picea sitchensis</i>	2	<i>Salix sp.</i> <i>Alnus sinuata</i>
Arrastra Creek	2	30	29-Sep-96	5	<i>Picea sitchensis</i> (juv)	20	<i>Salix sp.</i>
Arrastra Creek	2	40	29-Sep-96	10	<i>Populus trichocarpa</i>	20	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	2	50	29-Sep-96	0		25	<i>Salix sp.</i>
Arrastra Creek	2	60	29-Sep-96	0		left bank 30	<i>Alnus sinuata</i> <i>Alnus sinuata</i>
Arrastra Creek	2	70	29-Sep-96	0		50	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	2	80	29-Sep-96	0		2	<i>Salix sp.</i> (one small)
Arrastra Creek	2	90	29-Sep-96	0		60	<i>Alnus sinuata</i>
Arrastra Creek	2	100	29-Sep-96	70	<i>Picea sitchensis</i>	15	<i>Alnus sinuata</i>
Arrastra Creek	3	0	29-Sep-96	40	<i>Picea sitchensis</i>	90	<i>A. sinuata</i> , <i>Salix sp</i> <i>Sambucus sp. S</i>
Arrastra Creek	3	10	29-Sep-96	20	<i>Picea sitchensis</i>	90	<i>Alnus sinuata</i> <i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Arrastra Creek	3	20	29-Sep-96	10	<i>Picea sitchensis</i>	25	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	3	30	29-Sep-96	0		90	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	3	40	29-Sep-96	5	<i>Picea sitchensis</i> (juv)	90	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	3	50	29-Sep-96	0		50	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	3	60	29-Sep-96	0		15	<i>Salix sp.</i>
Arrastra Creek	3	70	29-Sep-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Arrastra Creek	3	80	29-Sep-96	1	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Arrastra Creek	3	90	29-Sep-96	0		15	<i>Salix sp.</i> <i>Alnus sinuata</i>
Arrastra Creek	3	100	29-Sep-96	0		20	<i>Salix sp.</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Arrastra Creek	1	0	29-Sep-96	1	1		10	20	60	10	
Arrastra Creek	1	10	29-Sep-96	0	0		20	30	30	20	
Arrastra Creek	1	20	29-Sep-96	2	0		15	40	30	15	
Arrastra Creek	1	30	29-Sep-96	1	0		15	30	40	15	
Arrastra Creek	1	40	29-Sep-96	1	0		8	30	40	22	
Arrastra Creek	1	50	29-Sep-96	1	5		10	30	40	20	
Arrastra Creek	1	60	29-Sep-96	1	0			30	40	30	
Arrastra Creek	1	70	29-Sep-96	0	0		4	11	60	25	
Arrastra Creek	1	80	29-Sep-96	1	0		5	25	50	20	
Arrastra Creek	1	90	29-Sep-96	3	0		5	10	60	15	
Arrastra Creek	1	100	29-Sep-96	2	10		5	10	65	20	
Arrastra Creek	2	0	29-Sep-96	2	0			30	40	30	
Arrastra Creek	2	10	29-Sep-96	8	0			10	70	20	
Arrastra Creek	2	20	29-Sep-96	5	30 (live)			20	60	20	
Arrastra Creek	2	30	29-Sep-96	2	5		5	30	40	25	
Arrastra Creek	2	40	29-Sep-96	0			5	50	30	15	
Arrastra Creek	2	50	29-Sep-96	2	5			15	65	20	
Arrastra Creek	2	60	29-Sep-96	4	5			30	40	30	
Arrastra Creek	2	70	29-Sep-96	>10	10			10	10	80	
Arrastra Creek	2	80	29-Sep-96	>15	60		10		70	20	
Arrastra Creek	2	90	29-Sep-96	>10	10				70	30	
Arrastra Creek	2	100	29-Sep-96	3	0				90	10	
Arrastra Creek	3	0	29-Sep-96	10 (jam)	50			20	60	20	
Arrastra Creek	3	10	29-Sep-96	7 (jam)	20			10	80	10	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Arrastra Creek	3	20	29-Sep-96	2	5			10	40	50	
Arrastra Creek	3	30	29-Sep-96	3	5			5	15	80	
Arrastra Creek	3	40	29-Sep-96	4	7			10	80	10	
Arrastra Creek	3	50	29-Sep-96	>10 (jam)	30			30	40	30	
Arrastra Creek	3	60	29-Sep-96	1	0			30	50	20	
Arrastra Creek	3	70	29-Sep-96	2	0			50	30	20	
Arrastra Creek	3	80	29-Sep-96	2	<5			30	40	30	
Arrastra Creek	3	90	29-Sep-96	5	<5			30	40	30	
Arrastra Creek	3	100	29-Sep-96	2	0			30	40	30	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Arrastra Creek	1	0	L: Sleep slope to slightly cut bank (dry), root and vegetative OH. Flood plane at 2m (vertical) spans 5m to road. R: Undercut bank 1m (vertical), appears rounded due to sloughing of moss layer. LWD atop bank.
Arrastra Creek	1	10	L: Cutbank (1.5m vertical) with veg. OH and small woody debris deposits, unstable. Flood plane to foot of clearcut (20m). R: Undercut with root OH., vegetation layer sloughing, woody debris deposits. Flood plane sloped for 5m to steep hill.
Arrastra Creek	1	20	L: Slope 2% to flood plane (4m) then further to clearcut. R: Gravel/cobble/sand deposit from flow to foot of bank. 3m flood plane, slope increases to >60% , vegetated, stable.
Arrastra Creek	1	30	L: Undercut with root OH., sloughing <i>Alnus sinuata</i> . Flood plane (slope of < 5%) at 1.4m vertical. R: Cobble/gravel slope (dry) to <i>Salix</i> sp., LWD (1) on bank. No flood plane: bank to very steep slope.
Arrastra Creek	1	40	L: Cutbank 0.7m (vertical) with root and <i>Alnus sinuata</i> . Mature <i>Populus trichocarpa</i> (5) on edge of undercut bank. Sm. side channel 0.3m wide and 5cm deep. R: Undercut bank with sloughing <i>A. sinuata</i> . LWD (length: 10m) creates bank (dry). Numerous woody debris deposits.
Arrastra Creek	1	50	L: Undercut 0.5 (vertical) with root OH. (dry). Flood plane: few <i>P. trichocarpa</i> and <i>P. sitchensis</i> , many <i>Alnus sinuata</i> R: Undercut at water level, slope: >60% (forested). Some sloughing at 5m. Med. and sm. woody debris line bank.
Arrastra Creek	1	60	L: Slope bank with vegetative OH. R: Cutbank. At 55m: Undercutting <i>P. sitchensis</i> (mature) rootwad OH. with pooling. Tree will eventually fall across creek.
Arrastra Creek	1	70	L: Slope to flood plane. Riparian OH.: <i>Salix</i> sp. and <i>Alnus sinuata</i> . R: Undercut bank, 0.4m (vertical), with small woody debris and some vegetation OH. Steep slope, no flood plane.
Arrastra Creek	1	80	L: Cobble slope to 0.2m undercut bank with vegetation and root OH. R: Sloped sand and boulder deposited to undercut bank, 0.4m (horizontal), dry.
Arrastra Creek	1	90	L: Sloping cobble (dry) to flood plane at 2m: woody debris deposited on bank. R: Bank slopes to > 60% , vegetated, woody debris deposited on bank.
Arrastra Creek	1	100	L: Sloped cobble/gravel point bar (bare) to flood plane at 2m (vert.), <i>P. trichocarpa</i> , <i>P. sitchensis</i> , <i>A. sinuata</i> and <i>Salix</i> sp. R: Undercut 1m vertical with riparian vegetation and root OH.
Arrastra Creek	2	0	L: Sloping bank, abundant riparian vegetation. R: Cobble/gravel to flood plane.
Arrastra Creek	2	10	L: Undercut 1m. vertical with root and <i>Alnus sinuata</i> OH. Sm. and med. woody debris atop bank, 3 LWD. R: Gravel slope to 1m cutbank (vertical) and rooted vegetation OH, 3m to road.
Arrastra Creek	2	20	L: Undercut with fallen trees, Woody debris (all sizes) lining and atop bank. R: Gravel (dry) slope to vegetation and further (3-4m) to road.
Arrastra Creek	2	30	L: Undercut to 0.3m (horizontal) with extensive root and <i>Salix</i> sp. OH. Excellent habitat during high flows. R: Sloping cobble/gravel to LWD (parallel to flow) at rooted vegetation: <i>Salix</i> sp. <i>Alnus sinuata</i> and <i>Populus trichocarpa</i> .
Arrastra Creek	2	40	L: Slightly undercut bank to 1.5m vertical, root and riparian vegetation OH. Cobble (dry) to cut bank. R: Sloped cobble/gravel to vegetation for 1m to road. <i>P. sitchensis</i> , <i>Populus trichocarpa</i> (1), <i>Equisetum</i> sp. and grass.
Arrastra Creek	2	50	L: Cut with vegetation OH. Woody debris deposited atop bank. At 50m: tributary confluence (width: 3.2 m, ave. depth: 0.1 m) R: Riprap, (0.3m diameter riprap armour).
Arrastra Creek	2	60	L: Gravel/cobble slope to slightly undercut bank with OH vegetation. LWD atop bank. At 65m: Side channel re-enters. R: Riprap, (0.3m diameter riprap armour).
Arrastra Creek	2	70	L: Logjam, created side channel. R: Riprap, (0.3m diameter riprap armour).
Arrastra Creek	2	80	L: Logjam, 2.5m high, good cover for fish. Side channel branches at logjam. R: Riprap, (0.3m diameter riprap armour).
Arrastra Creek	2	90	L: Undercut 0.4m (horiz.) with root and riparian vegetation OH. Pooling and sand deposits. Small woody debris deposits. R: Gravel/sand deposits, some woody debris deposits atop bank intermingled with <i>Alnus sinuata</i> . Bank slopes to road.
Arrastra Creek	2	100	L: Undercut bank, 0.3m (horizontal), with grass and root OH. 90% of flow beneath undercut bank. R: Bank is LWD with sand fill and atop: <i>Salix</i> sp., <i>Alnus sinuata</i> , <i>Lupinus</i> sp., <i>Equisetum</i> sp. and <i>E. angustifolium</i> .
Arrastra Creek	3	0	L: Sloping bank, abundant riparian vegetation. R: Cobble/gravel to flood plane.
Arrastra Creek	3	10	L: Slope to flood plane: side channel branches meandering throughout abundant vegetation. R: Flat flood plane with vegetation throughout.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Arrastra Creek	3	20	L: Cutbank (0.2 m vertical) with vegetative OH. Flat flood plane. R: Sloping (1%) to vegetation. Island: Sand with woody debris deposit, separating stagnant pond from main channel.
Arrastra Creek	3	30	L: Sloping sand/gravel. Flood plane almost flat, young <i>Pseudotsuga menziesii</i> forest. Some <i>Alnus sinuata</i> and <i>Salix</i> sp. R: Undercut bank with abundant <i>Alnus sinuata</i> OH. Excellent habitat. Side channel enters here.
Arrastra Creek	3	40	L: 0.4m cutbank, mature riparian vegetation. Stand of young <i>Picea sitchensis</i> . (island) R: Undercut bank, <i>Alnus sinuata</i> and LWD OH. AT 45m: stump in mid-channel.
Arrastra Creek	3	50	L: Cobble/gravel deposit for 5m. (bank washed out by flood). At 55m: log jam diverts flow to L channel. R: Cobble/gravel to flood plane. At 42m: 0.8m step created by logjam, diverts flow to right channel (rejoin 10m d/s).
Arrastra Creek	3	60	L: Sloping cobble/gravel, small woody debris deposits. R: Sloping moss covered cobble. Flood plane is flat.
Arrastra Creek	3	70	L: Cobble/sand slope to <i>Salix</i> sp. OH. Flood plane flat, deposit of cobble/sand during flood. Side channel. R: Sloping gravel (5m horizontal) with <i>Salix</i> sp. to stagnant pond (10m wide). Stumps atop bank and on flood plane.
Arrastra Creek	3	80	L: Sloping gravel bank to flat vegetated flood plane. R: Sloping gravel bank to flat vegetated flood plane.
Arrastra Creek	3	90	L: Sloping gravel/cobble to <i>Salix</i> sp. OH. Sm. and med. woody debris jam, no cover (will be washed away during high flows). R: Sloping gravel bank to flat vegetated flood plane.
Arrastra Creek	3	100	L: Sloping gravel/cobble (dry) to slightly undercut bank with <i>Salix</i> sp. OH. R: Sloping gravel/cobble bank to flat vegetated flood plane.

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Asp Creek	1	0	1-Oct-96	6.0	2.0	1.9	10.0	19.0	31.0	20.0
Asp Creek	1	10	1-Oct-96	4.9	2.0	1.4	17.0	25.0	40.0	27.3
Asp Creek	1	20	1-Oct-96	5.1	2.0	5.1	5.0	15.0	17.0	12.3
Asp Creek	1	30	1-Oct-96	3.9	2.0	2.4	13.0	24.0	24.0	20.3
Asp Creek	1	40	1-Oct-96	5.5	2.0	4.1	7.0	15.0	25.0	15.7
Asp Creek	1	50	1-Oct-96	5.0	2.0	2.3	19.0	12.0	10.0	13.7
Asp Creek	1	60	1-Oct-96	6.0	2.0	5.2	15.0	11.0	12.0	12.7
Asp Creek	1	70	1-Oct-96	5.7	2.0	3.6	20.0	26.0	25.0	23.7
Asp Creek	1	80	1-Oct-96	5.0	2.0	3.5	12.0	17.0	22.0	17.0
Asp Creek	1	90	1-Oct-96	5.1	2.0	4.5	12.0	14.0	27.0	17.7
Asp Creek	1	100	1-Oct-96	6.0	2.0	5.1	20.0	16.0	12.0	16.0
Asp Creek	2	0	30-Sep-96	9.6	0.2	6.3	10.0	18.0	24.0	17.3
Asp Creek	2	10	30-Sep-96	5.2	0.3	3.1	11.0	12.0	18.0	13.7
Asp Creek	2	20	30-Sep-96	4.9	0.3	3	12.0	12.0	13.0	12.3
Asp Creek	2	30	30-Sep-96	5.0	0.3	2.8	18.0	18.0	10.0	15.3
Asp Creek	2	40	30-Sep-96	3.9	0.3	2.8	22.0	18.0	18.0	19.3
Asp Creek	2	50	30-Sep-96	6.8	0.3	4.1	7.0	13.0	8.0	9.3
Asp Creek	2	60	30-Sep-96	4.2	0.3	3.1	10.0	13.0	8.0	10.3
Asp Creek	2	70	30-Sep-96	5.2	0.4	4.7	12.0	8.0	13.0	11.0
Asp Creek	2	80	30-Sep-96	5.0	0.4	3.1	8.0	8.0	9.0	8.3
Asp Creek	2	90	30-Sep-96	5.6	0.3	3.5	11.0	18.0	18.0	15.7
Asp Creek	2	100	30-Sep-96	5.2	0.4	5.2	4.0	7.0	11.0	7.3
Asp Creek	3	0	30-Sep-96	6.2	0.2	4.2	9.0	9.0	11.0	9.7
Asp Creek	3	10	30-Sep-96	4.8	0.3	1.5	10.0	15.0	12.0	12.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Asp Creek	3	20	30-Sep-96	4.6	0.3	2.3	11.0	13.0	12.0	12.0
Asp Creek	3	30	30-Sep-96	4.7	0.4	2.7	9.0	21.0	12.0	14.0
Asp Creek	3	40	30-Sep-96	6.1	0.3	4.5	5.0	11.0	10.0	8.7
Asp Creek	3	50	30-Sep-96	6.6	0.4	3.3	25.0	33.0	14.0	24.0
Asp Creek	3	60	30-Sep-96	5.0	0.3	3.2	10.0	1.0	6.0	5.7
Asp Creek	3	70	30-Sep-96	5.6	0.4	5.4	8.0	2.0	9.0	6.3
Asp Creek	3	80	30-Sep-96	5.4	0.5	3.3	22.0	26.0	17.0	21.7
Asp Creek	3	90	30-Sep-96	4.9	1.0	2.9	21.0	17.0	3.0	13.7
Asp Creek	3	100	30-Sep-96	7.1	0.7	3	2.0	21.0	21.0	14.7

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Asp Creek	1	0	1-Oct-96	15	<i>Picea sitchensis</i>	20	<i>Cornus stolonifera</i>
Asp Creek	1	10	1-Oct-96	0		30	<i>Alnus sinuata</i>
Asp Creek	1	20	1-Oct-96	20	<i>Populus trichocarpa</i>	45	<i>Alnus sinuata</i> <i>Cornus stolonifera</i>
Asp Creek	1	30	1-Oct-96	5	<i>Alnus sinuata</i>	25	<i>Alnus sinuata</i> <i>Cornus stolonifera</i>
Asp Creek	1	40	1-Oct-96	15	<i>Picea sitchensis</i>	5	<i>Alnus sinuata</i> <i>Cornus stolonifera</i>
Asp Creek	1	50	1-Oct-96	50	<i>Populus trichocarpa</i> <i>P. menziesii</i>	20	<i>P. tremuloides</i> <i>Cornus stolonifera</i>
Asp Creek	1	60	1-Oct-96	80	<i>Populus trichocarpa</i>	40	<i>Acer circinatum</i> <i>Cornus stolonifera</i>
Asp Creek	1	70	1-Oct-96	50	<i>P. menziesii</i> <i>Alnus sinuata</i>	75	<i>Cornus stolonifera</i> <i>Alnus sinuata</i>
Asp Creek	1	80	1-Oct-96	50	<i>Picea sitchensis</i> <i>P. menziesii</i>	80	<i>Alnus sinuata</i> <i>Cornus stolonifera</i>
Asp Creek	1	90	1-Oct-96	0		30	<i>Cornus stolonifera</i>
Asp Creek	1	100	1-Oct-96	30	<i>Picea sitchensis</i>	25	<i>Cornus stolonifera</i> <i>Alnus sinuata</i>
Asp Creek	2	0	30-Sep-96	15	<i>Alnus sinuata</i>	5	<i>Alnus sinuata</i>
Asp Creek	2	10	30-Sep-96	20	<i>Alnus sinuata</i>	80	<i>Alnus sinuata</i>
Asp Creek	2	20	30-Sep-96	30	<i>Populus trichocarpa</i>	10	<i>Alnus sinuata</i>
Asp Creek	2	30	30-Sep-96	25	<i>Populus trichocarpa</i> <i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Asp Creek	2	40	30-Sep-96	10	<i>Picea sitchensis</i>	15	<i>Alnus sinuata</i>
Asp Creek	2	50	30-Sep-96	10	<i>Populus trichocarpa</i>	25	<i>Alnus sinuata</i>
Asp Creek	2	60	30-Sep-96	15	<i>Populus trichocarpa</i>	80	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Asp Creek	2	70	30-Sep-96	10	<i>Populus trichocarpa</i>	70	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Asp Creek	2	80	30-Sep-96	10	<i>Populus trichocarpa</i>	70	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Asp Creek	2	90	30-Sep-96	0		30	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Asp Creek	2	100	30-Sep-96	30	<i>Populus trichocarpa</i>	6	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Asp Creek	3	0	30-Sep-96	0		40	<i>A. sinuata, C. undulatum</i>
Asp Creek	3	10	30-Sep-96	0		70	<i>Lonicera sp.</i> <i>Alnus sinuata</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Asp Creek	3	20	30-Sep-96	10	<i>Picea sitchensis</i>	99	<i>Alnus sinuata</i>
Asp Creek	3	30	30-Sep-96	10	<i>Picea sitchensis</i>	95	<i>Alnus sinuata</i> <i>Lonicera sp.</i>
Asp Creek	3	40	30-Sep-96	0		25	<i>A.sinuata</i> , <i>Salix sp.</i> <i>Acer circinatum</i>
Asp Creek	3	50	30-Sep-96	40	<i>Picea sitchensis</i>	95	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Asp Creek	3	60	30-Sep-96	30	<i>Picea sitchensis</i>	90	<i>Alnus sinuata</i> <i>Rubus parviflorus</i>
Asp Creek	3	70	30-Sep-96	15	<i>Picea sitchensis</i>	80	<i>Alnus sinuata</i>
Asp Creek	3	80	30-Sep-96	10	<i>Picea sitchensis</i>	70	<i>Alnus sinuata</i>
Asp Creek	3	90	30-Sep-96	50	<i>Picea sitchensis</i>	40	<i>Rubus parviflorus</i> <i>Lonicera sp.</i>
Asp Creek	3	100	30-Sep-96	20	<i>Picea sitchensis</i>	40	<i>Alnus sinuata</i> (juv.)



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Asp Creek	1	0	1-Oct-96	2	0			10	70	20	
Asp Creek	1	10	1-Oct-96	2	5		5	30	40	20	
Asp Creek	1	20	1-Oct-96	0	0		5	55	30	10	
Asp Creek	1	30	1-Oct-96	3	0		5	60	25	10	
Asp Creek	1	40	1-Oct-96	2	10			40	40	20	
Asp Creek	1	50	1-Oct-96	1	5			40	40	20	
Asp Creek	1	60	1-Oct-96	6	5		5	30	45	20	
Asp Creek	1	70	1-Oct-96	0	0		30	20	50		
Asp Creek	1	80	1-Oct-96	1 med.	0		15	45	30	10	
Asp Creek	1	90	1-Oct-96	2	5		15	45	20	20	
Asp Creek	1	100	1-Oct-96	6	5		40	30	20	10	
Asp Creek	2	0	30-Sep-96	0	0		5	10	70	15	
Asp Creek	2	10	30-Sep-96	1	5		2	40	50	8	
Asp Creek	2	20	30-Sep-96	3	1			40	40	20	
Asp Creek	2	30	30-Sep-96	3	1		10	25	45	20	
Asp Creek	2	40	30-Sep-96	1	0		10	20	50	20	
Asp Creek	2	50	30-Sep-96	2	10		15	30	45	10	
Asp Creek	2	60	30-Sep-96	0	0		10	30	50	10	
Asp Creek	2	70	30-Sep-96	0	0		10	40	40	10	
Asp Creek	2	80	30-Sep-96	0	0		10	40	40	10	
Asp Creek	2	90	30-Sep-96	1	10		10	50	40		
Asp Creek	2	100	30-Sep-96	4	20		10	50	40		
Asp Creek	3	0	30-Sep-96	1	0		30	30	40		
Asp Creek	3	10	30-Sep-96	1	0		30	30	40		

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Asp Creek	3	20	30-Sep-96	4	20		30	40	30		
Asp Creek	3	30	30-Sep-96	1	0		20	30	40	10	
Asp Creek	3	40	30-Sep-96	0	0		15	50	25	10	
Asp Creek	3	50	30-Sep-96	2	20		5	30	40	25	
Asp Creek	3	60	30-Sep-96	2	5		5	30	40	25	
Asp Creek	3	70	30-Sep-96	2	10		30	30	30	10	
Asp Creek	3	80	30-Sep-96	1	2		10	30	50	10	
Asp Creek	3	90	30-Sep-96	3	20		50	30	20		
Asp Creek	3	100	30-Sep-96	2	5		50	30	20		

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Asp Creek	1	0	L: Gravel point bar (bare) to private residence. R: Slightly undercut (0.2m vert.), moss sloughing. Flood plane to 25% slope. At -20m: logjam (init. damage due to beaver)
Asp Creek	1	10	L: Gravel point bar to flood plane (2-3m), then steep slope to private residence (house). R: Undercut (0.6m vert. and .35m horiz.), with root OH. moss and <i>Equisetum</i> sp.
Asp Creek	1	20	L: Cut to 0.2m (vert.), with veg. OH. Small woody debris deposits. <i>Populus tremuloides</i> . R: 1.5m cutbank (vert.), Some vegetation OH. Numerous <i>Equisetum</i> sp.
Asp Creek	1	30	L: Eroding, 3m cutbank with small rooted OH, bedrock upper bank, confined. R: Gravel/cobble point bar to vegetated slope. Flood plane at 1-2m.
Asp Creek	1	40	L: Undercut at 0.5m (vert.), bank eroding, root OH. Unstable woody debris deposits. LWD (2) jammed along bank, unstable. R: Sloped bank with extensive flood plane: <i>A. sinuata</i> , <i>Populus tremuloides</i> and <i>Equisetum</i> sp.
Asp Creek	1	50	L: Cutbank with few roots and vegetative OH. ( <i>S. albus</i> ). Small woody debris jam. R: Cut at 5cm, slope at 0.10m to flood plane. <i>Equisetum</i> sp.
Asp Creek	1	60	L: Gravel slope (<2%) to flat flood plane. <i>Equisetum</i> sp. Woody debris atop bank. R: Cutbank 4m (vertical) eroded and unstable. Woody debris atop bank.
Asp Creek	1	70	L: Gravel point bar d/s of large boulder (2m dia.) and assoc. pool. Flood plane >5m., Rush, <i>A. sinuata</i> and <i>C. stolonifera</i> . R: Cut 0.2m vertical, with sloughing moss, Good cover. Flood plane is >5m. At 75m: pool.
Asp Creek	1	80	L: Undercut (0.7m horizontal at 0.4m vertical), extensive <i>P. trichocarpa</i> root OH., small woody debris jam. R: Slope to flood plane: <i>A. sinuata</i> , <i>C. stolonifera</i> , <i>A. circinatum</i> and <i>Equisetum</i> sp. At 82m: rock weir across creek.
Asp Creek	1	90	L: Cut, lined with woody debris, vegetation OH. R: Slope bank, moss and <i>Equisetum</i> sp., some woody debris.
Asp Creek	1	100	L: Cutbank 4m (vert.), some areas undercut with root OH., Flood plane is 15% slope for 3m then >60 % (veg. and stable). R: Sloping with small woody debris deposits to 4m flood plane: <i>Equisetum</i> sp., <i>C. stolonifera</i> and <i>Betula occidentalis</i> .
Asp Creek	2	0	L: Slope (3%) to road. Appears to old road to creek, possible historic stream crossing. R: Slope (<1%) to flood plane: <i>Alnus sinuata</i> .
Asp Creek	2	10	L: Undercut to 0.2m (horizontal) with grass and vegetative OH. Numerous pieces of sm. woody debis. R: Sloping to riparian OH. to flood plane.
Asp Creek	2	20	L: Sloping cobble/gravel to cutbank, protected by numerous small woody debris deposits. R: Cut bank protected by 0.5m diameter LWD. Flat flood plane at 0.5m.
Asp Creek	2	30	L: Cobble slope to 0.2m (vertical) cutbank. Flood plane. <i>Cornus stolonifera</i> . R: Slightly undercut with extensive woody debris deposited, good cover. 7m flood plane: <i>A. sinuata</i> and <i>C. stolonifera</i> .
Asp Creek	2	40	L: Gradual cut, vegetated. Flood plane at 1m. R: Cut with gravel build up, LWD atop bank. At 35m: undercut.
Asp Creek	2	50	L: Undercut/eroded, numerous woody debris deposits. At 50m: old road. R: Gradual slope. Flood plane at 5m vertical. <i>Populus trichocarpa</i> .
Asp Creek	2	60	L: Undercut with root and vegetation OH. R: Gravel/cobble slope (vegetated point bar) to flood plane. <i>Populus trichocarpa</i> (3 mature) 1m from wetted width.
Asp Creek	2	70	L: Slope to flood plane at 1m (horizontal) to road at 5m (horizontal), <i>A. sinuata</i> , <i>P. trichocarpa</i> . R: Undercut (1m vertical and 0.5m horizontal), moss sloughing, root and vegetation OH.
Asp Creek	2	80	L: Slope to flood plane at 1m (horizontal) to road at 5m (horizontal), <i>A. sinuata</i> , <i>P. trichocarpa</i> . R: Undercut (1m vertical and 0.5m horizontal), moss sloughing, root and vegetation OH.
Asp Creek	2	90	L: Slope, woody debris deposit from high flows, Flood plane: stumps. R: Eroding cutbank, 8m (vertical), numerous areas of sloughing, old decaying LWD.
Asp Creek	2	100	L: Eroding slope to bedrock. R: Fallen rock, slide at 100m.
Asp Creek	3	0	L: Undercut bank with root and vegetation OH. Channel fairly confined. R: Sloping cobble/gravel with boulders (point bar). Vegetation and root OH.
Asp Creek	3	10	L: Slightly cut bank with moss and riparian vegetation starting to slough. Cobble lined. <i>Rubus parviflorus</i> abundant. R: Bank is lined with moss and <i>A. sinuata</i> OH., slope to flood plane at 5m. One LWD (rotted) atop bank.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Asp Creek	3	20	L: Slope with LWD lining gravel deposit behind. Vegetation OH.: <i>Salix</i> sp., <i>A. sinuata</i> and <i>Lonicera</i> sp. R: Undercut with moss sloughing. LWD lining lower bank (wet), pooling beneath bank and LWD, Excellent habitat.
Asp Creek	3	30	L: Gravel point bar, sloped (15%) for 4m then flood plane. LWD on bank. Good cover during high flows. R: Lined with boulders, slope is 30%, then flat flood plane (3 metres) to 45% slope. Gravel deposit behind boulder.
Asp Creek	3	40	L: Sloped (20%) for 2m to flood plane: flat and vegetated. R: Slope to 1m flood plane, creek confined further by 35% forested slope: <i>Picea sitchensis</i>
Asp Creek	3	50	L: Cobble/gravel slope (<2%) to a 6m vegetated flood plane: <i>Alnus sinuata</i> and <i>Lonicera</i> sp. R: Undercut bank, lined with LWD and sloughing moss. Fallen <i>A. sinuata</i> provides cover, excellent habitat.
Asp Creek	3	60	L: Cobble (dry) sloping to slightly cut (0.1m vertical), vegetated bank to vegetated flood plane (6m). R: Cobble/boulder with moss overgrowth, <i>Equisetum</i> sp. and <i>Alnus sinuata</i> , confined.
Asp Creek	3	70	L: Cutbank 1m (vertical) moss over growth of LWD embedded in bank. R: Cut to 0.1m (vertical) to slope (15%) to forested area ( <i>Picea sitchensis</i> ).
Asp Creek	3	80	L: Slightly cut (1m vertical) then sloping to 4m flood plane. <i>Alnus sinuata</i> flood plane. R: Cutbank 4.0m (vertical) with root and vegetation OH.
Asp Creek	3	90	L: Cutbank 1m (vertical) with LWD lining bank (dry), vegetative OH. 5m flood plane. R: LWD lined bank (1m vertical), vegetative OH. 3m flood plane to slope (15%).
Asp Creek	3	100	L: Sloping gradually to 25% (3m flood plane). One LWD fallen along bank above water level. R: LWD makes up bank set back by 1m of cobble. Flood plane: <i>P. sitchensis</i> , <i>P. menziesii</i> stand.

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Champion Creek	1	0	8-Oct-96	17.3	2.0	4.3	29.0	41.0	21.0	30.3
Champion Creek	1	10	8-Oct-96	12.6	2.0	6.3	22.0	46.0	15.0	27.7
Champion Creek	1	20	8-Oct-96	11.7	2.0	3.9	18.0	38.0	21.0	25.7
Champion Creek	1	30	8-Oct-96	10.1	3.0	6	18.0	8.0	7.0	11.0
Champion Creek	1	40	8-Oct-96	9.9	3.0	4.4	31.0	25.0	25.0	27.0
Champion Creek	1	50	8-Oct-96	9.1	3.0	5.8	32.0	42.0	13.0	29.0
Champion Creek	1	60	8-Oct-96	11.3	3.0	4.9	8.0	22.0	29.0	19.7
Champion Creek	1	70	8-Oct-96	11.9	3.0	5.7	16.0	8.0	3.0	9.0
Champion Creek	1	80	8-Oct-96	13.5	2.5	7.4	23.0	9.0	43.0	25.0
Champion Creek	1	90	8-Oct-96	13.3	3.0	6.3	38.0	72.0	47.0	52.3
Champion Creek	1	100	8-Oct-96	13.4	4.0	6.9	24.0	48.0	30.0	34.0
Champion Creek	2	0	29-Sep-96	6.0	2.0	4.5	max	27.0		27.0
Champion Creek	2	10	29-Sep-96	5.5	2.0	3.4	max	39.0		39.0
Champion Creek	2	20	29-Sep-96	8.7	2.0	2.4	max	20.0		20.0
Champion Creek	2	30	29-Sep-96	8.0	2.0	6.5	max	39.0		39.0
Champion Creek	2	40	29-Sep-96	4.9	0.6	3.7	max	24.0		24.0
Champion Creek	2	50	29-Sep-96	8.3	0.6	4.2	max	74.0		74.0
Champion Creek	2	60	29-Sep-96	8.0	0.8	3.8	max	13.0		13.0
Champion Creek	2	70	29-Sep-96	9.3	1.0	3.7	max	47.0		47.0
Champion Creek	2	80	29-Sep-96	7.9	1.0	3.2	max	21.0		21.0
Champion Creek	2	90	29-Sep-96	10.7	1.0	6.3	max	55.0		55.0
Champion Creek	2	100	29-Sep-96	7.6	1.2	2.8	max	37.0		37.0
Champion Creek	3	0	28-Sep-96	7.6	0.4	3.7	max	16.0		16.0
Champion Creek	3	10	28-Sep-96	8.9	0.5	3.9	max	35.0		35.0
Champion Creek	3	20	28-Sep-96	10.6	0.5	3.7	max	31.0		31.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Champion Creek	3	30	28-Sep-96	6.5	0.5	3.1	max	16.0		16.0
Champion Creek	3	40	28-Sep-96	6.3	0.5	3.4	max	34.0		34.0
Champion Creek	3	50	28-Sep-96	7.2	0.6	3.4	max	16.0		16.0
Champion Creek	3	60	28-Sep-96	4.5	0.6	3.5	max	16.0		16.0
Champion Creek	3	70	28-Sep-96	4.5	0.5	3.4	max	19.0		19.0
Champion Creek	3	80	28-Sep-96	8.0	0.6	3.6	max	30.0		30.0
Champion Creek	3	90	28-Sep-96	10.4	1.5	2.8	max	43.0		43.0
Champion Creek	3	100	28-Sep-96	9.5	0.5	3.1	max	5.0		5.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Champion Creek	1	0	8-Oct-96	0		5	<i>Alnus sinuata</i>
Champion Creek	1	10	8-Oct-96	5	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Champion Creek	1	20	8-Oct-96	10	<i>Picea sitchensis</i> <i>P. menziesii</i>	15	<i>Alnus sinuata</i>
Champion Creek	1	30	8-Oct-96	20	<i>Picea sitchensis</i> <i>P. menziesii</i>	10	<i>Alnus sinuata</i>
Champion Creek	1	40	8-Oct-96	20	<i>Picea sitchensis</i>	5	<i>Thuja plicata</i> (juv.)
Champion Creek	1	50	8-Oct-96	10	<i>Picea sitchensis</i>	15	<i>Alnus sinuata</i> <i>Thuja plicata</i> (juv.)
Champion Creek	1	60	8-Oct-96	15	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Champion Creek	1	70	8-Oct-96	15	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Champion Creek	1	80	8-Oct-96	15	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Champion Creek	1	90	8-Oct-96	5	<i>Picea sitchensis</i>	1	<i>Alnus sinuata</i>
Champion Creek	1	100	8-Oct-96	10	<i>Picea sitchensis</i>	15	<i>Alnus sinuata</i>
Champion Creek	2	0	29-Sep-96	0		10	<i>Alnus sinuata</i>
Champion Creek	2	10	29-Sep-96	10	<i>Picea sitchensis</i>	5	<i>Alnus sinuata</i>
Champion Creek	2	20	29-Sep-96	0		0	
Champion Creek	2	30	29-Sep-96	0		15	<i>Alnus sinuata</i>
Champion Creek	2	40	29-Sep-96	10	<i>Picea sitchensis</i>	25	<i>Alnus sinuata</i>
Champion Creek	2	50	29-Sep-96	0		0	
Champion Creek	2	60	29-Sep-96	0		5	<i>Alnus sinuata</i>
Champion Creek	2	70	29-Sep-96	0		5	<i>Alnus sinuata</i> <i>P. sitchensis</i> (juv.)
Champion Creek	2	80	29-Sep-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Champion Creek	2	90	29-Sep-96	15	<i>Picea sitchensis</i>	20	<i>Alnus sinuata</i>
Champion Creek	2	100	29-Sep-96	25	<i>Picea sitchensis</i>	10	<i>Thuja plicata</i> (juv) <i>Rosa sp.</i> grass
Champion Creek	3	0	28-Sep-96	1	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Champion Creek	3	10	28-Sep-96	2	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Champion Creek	3	20	28-Sep-96	10	<i>Picea sitchensis</i>	1	<i>E. angustifolium</i> grass/herb layer

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Champion Creek	3	30	28-Sep-96	20	<i>Picea sitchensis</i> (sloughing)	10	grass/herb layer
Champion Creek	3	40	28-Sep-96	0		10	<i>Salix</i> sp.
Champion Creek	3	50	28-Sep-96	25	<i>Picea sitchensis</i> (sloughing)	20	<i>Alnus sinuata</i> <i>P. sitchensis</i> (juv.)
Champion Creek	3	60	28-Sep-96	20	<i>Picea sitchensis</i>	5	<i>Salix</i> sp.
Champion Creek	3	70	28-Sep-96	5	<i>Picea sitchensis</i>	15	<i>Salix</i> sp.
Champion Creek	3	80	28-Sep-96	0		40	<i>Salix</i> sp.
Champion Creek	3	90	28-Sep-96	0		10	<i>Salix</i> sp. <i>P. sitchensis</i> (juv.)
Champion Creek	3	100	28-Sep-96	10	<i>Picea sitchensis</i>	5	<i>Alnus sinuata</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Champion Creek	1	0	8-Oct-96	1	0		30	30	30	10	
Champion Creek	1	10	8-Oct-96	1	0		30	30	20	20	
Champion Creek	1	20	8-Oct-96	1	0	25	30	30	10	5	
Champion Creek	1	30	8-Oct-96	0	0	80	10	5	5		
Champion Creek	1	40	8-Oct-96	0	0	80	5	10	5		
Champion Creek	1	50	8-Oct-96	0	0	60		25	5	10	
Champion Creek	1	60	8-Oct-96	0	0	100					
Champion Creek	1	70	8-Oct-96	1	0	95	3	2			
Champion Creek	1	80	8-Oct-96	2	7	100					
Champion Creek	1	90	8-Oct-96	2	0	40	20	20		20	
Champion Creek	1	100	8-Oct-96	5	5	90	5		5		
Champion Creek	2	0	29-Sep-96	0	0		40	30	30		
Champion Creek	2	10	29-Sep-96	2	1		40	30	30		
Champion Creek	2	20	29-Sep-96	1	20		40	30	30		
Champion Creek	2	30	29-Sep-96	2	0	30	30	20	20		
Champion Creek	2	40	29-Sep-96	3	10	40		10	10	40	
Champion Creek	2	50	29-Sep-96	2	0	40	30	20	10		
Champion Creek	2	60	29-Sep-96	0	0	100					
Champion Creek	2	70	29-Sep-96	2	5	100					
Champion Creek	2	80	29-Sep-96	3	5	20	30	10	20	20	
Champion Creek	2	90	29-Sep-96	5	20	90	10				
Champion Creek	2	100	29-Sep-96	0	0	80		5	15		
Champion Creek	3	0	28-Sep-96	1	0		15	40	30		
Champion Creek	3	10	28-Sep-96	3	0	25	25	20	20	10	
Champion Creek	3	20	28-Sep-96	2	0	25	25	20	20	10	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Champion Creek	3	30	28-Sep-96	2	0	50	20	10	20		
Champion Creek	3	40	28-Sep-96	2	0		40	10	30	20	
Champion Creek	3	50	28-Sep-96	3	0	50	20	20	8	2	
Champion Creek	3	60	28-Sep-96	2	5	10	10	40	30	10	
Champion Creek	3	70	28-Sep-96	2	5		30	20	40	10	
Champion Creek	3	80	28-Sep-96	6	10			10	90		
Champion Creek	3	90	28-Sep-96	>20	80		10	40	40	20	
Champion Creek	3	100	28-Sep-96	4	10			50	40	10	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Champion Creek	1	0	L: Slope to 40%, sand and gravel slide. Bank sloughing to 15m. <i>Thuja plicata</i> . R: Sloping (60%). <i>Alnus sinuata</i> , <i>Thuja plicata</i> .
Champion Creek	1	10	L: Boulder and sand slope to 1m cutbank with root OH. to 45% vegetated slope. R: Bedrock bank, vertical. Few <i>Thuja plicata</i> on bedrock.
Champion Creek	1	20	L: Cobble (dry) sloping to 0.5m cutbank with <i>A. sinuata</i> OH. and to slope (45%): <i>Thuja plicata</i> . R: Bedrock bank, vertical. Few <i>Thuja plicata</i> on bedrock.
Champion Creek	1	30	L: Cut bank to 0.5m (vert.), sloping vegetated area. <i>A. sinuata</i> , <i>Thuja plicata</i> and <i>P. sitchensis</i> . R: Bedrock bank, vertical.
Champion Creek	1	40	L: Cut (1m) with root OH. and moss sloughing over top. Vegetated slope (60%) behind bank. R: Bedrock bank, vertical.
Champion Creek	1	50	L: Cut with moss sloughing, appears stable, some sloughing of trees. R: Bedrock bank, vertical.
Champion Creek	1	60	L: 80% slope with <i>Thuja plicata</i> , <i>Tsuga heterophylla</i> , and <i>Pinus contorta</i> . At 61m: Sloughing slightly, debris deposits. R: Bedrock bank, vertical. Some sloughing of small sharp rocks.
Champion Creek	1	70	L: Bedrock bank, vertical. R: Bedrock bank, vertical. Some sloughing of small sharp rocks.
Champion Creek	1	80	L: Bedrock, vertical. Moss and few small saplings. R: Bedrock, vertical. Some small rocks sloughing.
Champion Creek	1	90	L: Bedrock, vertical. Moss and few small saplings. R: Bedrock, vertical. Some small rocks sloughing.
Champion Creek	1	100	L: Bedrock, vertical. Moss and few small saplings. R: Bedrock, vertical. Some small rocks sloughing. Few <i>A. sinuata</i> at 15m vertical.
Champion Creek	2	0	L: Bedrock with moss. R: Bedrock with moss, confined pool.
Champion Creek	2	10	L: Bedrock with vegetation ( <i>Alnus sinuata</i> ) at 2m (vertical). R: Bedrock with vegetation ( <i>Alnus sinuata</i> ) at 2m (vertical)
Champion Creek	2	20	L: Steep slope, gravel deposit from wetted width to undercut vegetated OH. R: Boulder/cobble slope to cutbank with <i>A. sinuata</i> OH.
Champion Creek	2	30	L: Bedrock, steep to forest: <i>P. sitchensis</i> , R: Bedrock, boulder confined with <i>A. sinuata</i> OH.
Champion Creek	2	40	L: Boulder bank with Vegetation OH. R: Undercut, some moss and grass sloughing (dry). Tributary enters between 40 and 50m.
Champion Creek	2	50	L: Sloping (60%) grass. R: Cutbank to 2m vertical to grass slope.
Champion Creek	2	60	L: Bedrock (vertical), some sloughing. Vegetation atop bedrock. R: Bedrock (vertical), some sloughing of rock and grass. 1m falls between 50-60m (bedrock).
Champion Creek	2	70	L: Bedrock, steep, confining, some vegetation. R: Bedrock, steep, confining, vegetation not vigorous (under bridge).
Champion Creek	2	80	L: Bedrock to cutbank at 0.5m to steep bank with two <i>Picea sitchensis</i> . R: Gravel and wood debris deposit atop eroded bank.
Champion Creek	2	90	L: Steep, no flood plane, eroded with vegetation sloughing. Erosion from small water course (dry). R: 0.5m cutbank (vertical) with vegetation OH. (appears fairly stable). Steep bedrock to veg. atop bank.
Champion Creek	2	100	L: Bedrock channel confined. Some cobble and gravel deposited. R: Undercut bank, 0.5m vertical, (0.4m horizontal), to slope (30% for 10m).
Champion Creek	3	0	L: Cutbank with moss sloughing over. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> and <i>Alnus sinuata</i> (full age compliment). R: Dry cobble/boulder to cutbank with grass and sm. <i>Salix</i> sp. OH. 2m zone( <i>P. sitchensis</i> ) to cutblock (slope 25%)
Champion Creek	3	10	L: Cutbank with moss sloughing over. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> and <i>Alnus sinuata</i> (full age compliment). R: Dry cobble/boulder to cutbank with grass and sm. <i>Salix</i> sp. OH. 2m zone( <i>P. sitchensis</i> ) to cutblock (slope 25%)
Champion Creek	3	20	L: Cutbank with moss sloughing over. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> and <i>Alnus sinuata</i> (full age compliment). R: Dry cobble/boulder to cutbank with grass and sm. <i>Salix</i> sp. OH. 2m zone( <i>P. sitchensis</i> ) to cutblock (slope 25%)

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Champion Creek	3	30	L: Cutbank with moss sloughing over. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> and <i>Alnus sinuata</i> (full age compliment). R: Undercut with vegetation OH. <i>P. sitchensis</i> leaning into stream. Leave strip (3m): three <i>P. sitchensis</i> .
Champion Creek	3	40	L: Cobble/boulder (dry) slope to cutbank. Flood plane (3m) . R: Cutbank with vegetation atop. Sloping flood plane.
Champion Creek	3	50	L: Bedrock with moss sloughing, grass and one <i>Alnus sinuata</i> , <i>Salix</i> sp. and numerous LWD further up bank. R: Cobble to cutbank (0.4m), vegetative OH: <i>Alnus sinuata</i> and <i>Picea sitchensis</i> .
Champion Creek	3	60	L: Bank is bedrock with moss OH. Riparian: <i>Salix</i> sp., <i>Rosa</i> sp. R: Cobble slope to vegetation OH: moss, grass and <i>Alnus sinuata</i> . Extensive flood plane.
Champion Creek	3	70	L: Bank slightly cut with <i>P. sitchensis</i> and <i>Albus sinuata</i> OH. Flood plane: 30% slope. R: LWD embedded into bank, (cut). <i>Salix</i> sp OH. Flood plane: <i>P. sitchensis</i> forested area (extensive).
Champion Creek	3	80	L: Bank slightly cut with <i>P. sitchensis</i> and <i>Albus sinuata</i> OH. Flood plane: 30% slope. R: LWD embedded into cutbank (2 pc.). <i>Salix</i> sp. OH. Flood plane: <i>P. sitchensis</i> forested area (extensive).
Champion Creek	3	90	L: Cut bank, 0.3m vertical. Moss, <i>Acer circinatum</i> , <i>Alnus sinuata</i> . Very steep upper bank. R: 0.5m undercut bank. Sloping flood plane.
Champion Creek	3	100	L: Cutbank, with <i>Salix</i> sp. OH. Steep slope, no flood plane. Numerous pieces of LWD high up slope. R: 1.5m cutbank, small channel undercutting, root and <i>Salix</i> sp. OH. Sloughing <i>P. sitchensis</i> .

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Frenchy Creek	1	0	5-Oct-96	10.0	0.8	7.1	8.0	26.0	18.0	17.3
Frenchy Creek	1	10	5-Oct-96	9.0	1.0	5.6	10.0	15.0	26.0	17.0
Frenchy Creek	1	20	5-Oct-96	8.4	1.5	5.6	29.0	21.0	17.0	22.3
Frenchy Creek	1	30	5-Oct-96	6.7	0.5	5.9	13.0	15.0	26.0	18.0
Frenchy Creek	1	40	5-Oct-96	6.8	2.0	5.6	21.0	32.0	22.0	25.0
Frenchy Creek	1	50	5-Oct-96	6.0	1.5	4.8	20.0	12.0	14.0	15.3
Frenchy Creek	1	60	5-Oct-96	5.7	1.5	4.1	23.0	15.0	18.0	18.7
Frenchy Creek	1	70	5-Oct-96	5.4	2.0	5	21.0	20.0	8.0	16.3
Frenchy Creek	1	80	5-Oct-96	8.5	0.8	7.7	10.0	26.0	20.0	18.7
Frenchy Creek	1	90	5-Oct-96	10.6	1.0	10.6	16.0	16.0	14.0	15.3
Frenchy Creek	1	100	5-Oct-96	9.6	1.3	9.6	79.0	72.0	32.0	61.0
Frenchy Creek	2	0	5-Oct-96	4.3	2.0	4.3	(pool) 54.0	(pool) 41.0	28.0	41.0
Frenchy Creek	2	10	5-Oct-96	4.8	2.0	4.8	64.0	36.0	73.0	57.7
Frenchy Creek	2	20	5-Oct-96	4.2	2.0	4.2	28.0	39.0	40.0	35.7
Frenchy Creek	2	30	5-Oct-96	4.6	2.0	4.6	60.0	83.0	94.0	79.0
Frenchy Creek	2	40	5-Oct-96	3.7	2.0	3.7	25.0	22.0	12.0	19.7
Frenchy Creek	2	50	5-Oct-96	3.9	2.0	3.9	37.0	51.0	45.0	44.3
Frenchy Creek	2	60	5-Oct-96	3.4	2.0	2.4	13.0	23.0	28.0	21.3
Frenchy Creek	2	70	5-Oct-96	3.6	2.0	3.6	72.0	47.0	33.0	50.7
Frenchy Creek	2	80	5-Oct-96	4.5	2.0	3.4	75.0	48.0	28.0	50.3
Frenchy Creek	2	90	5-Oct-96	4.8	2.0	4.8	30.0	36.0	20.0	28.7
Frenchy Creek	2	100	5-Oct-96	4.7	2.0	2.5	62.0	38.0	21.0	40.3
Frenchy Creek	3	0	5-Oct-96	3.9	1.5	3.9	7.0	9.0	9.0	8.3
Frenchy Creek	3	10	5-Oct-96	3.0	1.5	1.6	31.0	24.0	14.0	23.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Frenchy Creek	3	20	5-Oct-96	3.3	2.0	3.3	11.0	23.0	14.0	16.0
Frenchy Creek	3	30	5-Oct-96	8.0	2.0	6.1	32.0	28.0	32.0	30.7
Frenchy Creek	3	40	5-Oct-96	2.5	1.5	2.5	12.0	11.0	10.0	11.0
Frenchy Creek	3	50	5-Oct-96	3.4	0.5	3.4	7.0	8.0	12.0	9.0
Frenchy Creek	3	60	5-Oct-96	3.1	0.7	2.6	14.0	16.0	11.0	13.7
Frenchy Creek	3	70	5-Oct-96	6.6	0.7	3.2	23.0	14.0	13.0	16.7
Frenchy Creek	3	80	5-Oct-96	3.3	0.9	3.3	12.0	16.0	22.0	16.7
Frenchy Creek	3	90	5-Oct-96	2.9	0.8	2.9	11.0	10.0	6.0	9.0
Frenchy Creek	3	100	5-Oct-96	4.1	1.0	4.1	9.0	19.0	18.0	15.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Frenchy Creek	1	0	5-Oct-96	1	<i>Picea sitchensis</i>	0	<i>Salix sp.</i>
Frenchy Creek	1	10	5-Oct-96	2	<i>Picea sitchensis</i>	0	<i>Salix sp.</i>
Frenchy Creek	1	20	5-Oct-96	2	<i>Picea sitchensis</i>	0	<i>Salix sp.</i>
Frenchy Creek	1	30	5-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Frenchy Creek	1	40	5-Oct-96	0		5	<i>Picea sitchensis</i> (juv)
Frenchy Creek	1	50	5-Oct-96	5	<i>Picea sitchensis</i>	5	<i>Picea sitchensis</i> (juv) <i>Salix sp.</i>
Frenchy Creek	1	60	5-Oct-96	5	<i>Picea sitchensis</i>	5	<i>Picea sitchensis</i> (juv) <i>Salix sp.</i>
Frenchy Creek	1	70	5-Oct-96	2	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Frenchy Creek	1	80	5-Oct-96	10	<i>Picea sitchensis</i>	15	<i>Salix sp.</i>
Frenchy Creek	1	90	5-Oct-96	10	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Frenchy Creek	1	100	5-Oct-96	10	<i>Picea sitchensis</i>	10	<i>Picea sitchensis</i> (juv)
Frenchy Creek	2	0	5-Oct-96	0		30	<i>Salix sp.</i>
Frenchy Creek	2	10	5-Oct-96	0		15	<i>Salix sp.</i>
Frenchy Creek	2	20	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	2	30	5-Oct-96	0		15	<i>Salix sp.</i>
Frenchy Creek	2	40	5-Oct-96	0		15	<i>Salix sp.</i>
Frenchy Creek	2	50	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	2	60	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	2	70	5-Oct-96	0		15	<i>Salix sp.</i>
Frenchy Creek	2	80	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	2	90	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	2	100	5-Oct-96	0		30	<i>Salix sp.</i>
Frenchy Creek	3	0	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	3	10	5-Oct-96	2	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Frenchy Creek	3	20	5-Oct-96	15	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Frenchy Creek	3	30	5-Oct-96	0		5	<i>Salix sp.</i>
Frenchy Creek	3	40	5-Oct-96	0		5	<i>Salix sp.</i>
Frenchy Creek	3	50	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	3	60	5-Oct-96	0		10	<i>Salix sp.</i>
Frenchy Creek	3	70	5-Oct-96	5	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Frenchy Creek	3	80	5-Oct-96	5	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Frenchy Creek	3	90	5-Oct-96	10	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Frenchy Creek	3	100	5-Oct-96	10	<i>Picea sitchensis</i>	15	<i>Salix sp.</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Frenchy Creek	1	0	5-Oct-96	1	10		15	40	30	15	
Frenchy Creek	1	10	5-Oct-96	2	10		40	30	20	10	
Frenchy Creek	1	20	5-Oct-96	2	0		25	30	30	15	
Frenchy Creek	1	30	5-Oct-96	1 5 (med)	7	10	20	30	20	20	
Frenchy Creek	1	40	5-Oct-96	2	10	15	30	30	15	10	
Frenchy Creek	1	50	5-Oct-96	1 3 (med)	7		20	40	10	30	
Frenchy Creek	1	60	5-Oct-96	2 (med)	2		20	40	10	30	
Frenchy Creek	1	70	5-Oct-96	0			30	30	25	15	
Frenchy Creek	1	80	5-Oct-96	5 (med)	5		25	30	30	15	
Frenchy Creek	1	90	5-Oct-96	9	15		15	50	25	10	
Frenchy Creek	1	100	5-Oct-96	6	25		20	30	40	10	
Frenchy Creek	2	0	5-Oct-96	1	5				70	20	10
Frenchy Creek	2	10	5-Oct-96	1	5				70	15	15
Frenchy Creek	2	20	5-Oct-96	1 (med)	2				70	20	10
Frenchy Creek	2	30	5-Oct-96	2	10				10	50	40
Frenchy Creek	2	40	5-Oct-96	0	0				80	20	
Frenchy Creek	2	50	5-Oct-96	0	0				80	20	
Frenchy Creek	2	60	5-Oct-96	2	10				80	20	
Frenchy Creek	2	70	5-Oct-96	7	30				50	50	
Frenchy Creek	2	80	5-Oct-96	0	0				70	30	
Frenchy Creek	2	90	5-Oct-96	1	5				85	15	
Frenchy Creek	2	100	5-Oct-96	1	5				80	20	
Frenchy Creek	3	0	5-Oct-96	1	5			40	40	20	
Frenchy Creek	3	10	5-Oct-96	0	0	20		40	30	10	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Frenchy Creek	3	20	5-Oct-96	0	0			25	50	25	
Frenchy Creek	3	30	5-Oct-96	0	0			20	50	30	
Frenchy Creek	3	40	5-Oct-96	0	0			20	50	30	
Frenchy Creek	3	50	5-Oct-96	0	0			40	40	20	
Frenchy Creek	3	60	5-Oct-96	0	0			40	40	20	
Frenchy Creek	3	70	5-Oct-96	0	0		5	30	50	15	
Frenchy Creek	3	80	5-Oct-96	1	5		15	40	30	15	
Frenchy Creek	3	90	5-Oct-96	1	5		10	40	40	10	
Frenchy Creek	3	100	5-Oct-96	1	5		10	40	30	20	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Frenchy Creek	1	0	L: 20% slope for 200m, <i>Epilobium angustifolium</i> , burned logs and stumps, few small <i>Picea sitchensis</i> sprouts. R: 1.5m cutbank. <i>Picea sitchensis</i> stand, many fallen logs. Slope to flood plain >10m.
Frenchy Creek	1	10	L: 20% slope for 200m, <i>Epilobium angustifolium</i> , burned logs and stumps, few small <i>Picea sitchensis</i> sprouts. R: 1.5m cutbank. <i>Picea sitchensis</i> stand, many fallen logs. Slope to flood plain >10m.
Frenchy Creek	1	20	L: 0.7m cutbank, <i>Salix</i> sp. OH. Clearcut to bank, 25% slope, <i>Epilobium angustifolium</i> , <i>Equisetum</i> sp. Numerous LWD. R: Bank is undercut and rounded with sloughing moss. <i>Salix</i> sp. OH.
Frenchy Creek	1	30	L: Cutbank, 5m steep slope logged with sm & med woody debris. R: Slope bank to moss, <i>Lupinus</i> sp. Woody debris atop bank. Mature <i>Picea sitchensis</i> stand on flood plane.
Frenchy Creek	1	40	L: Bedrock with some vegetation, numerous <i>Picea sitchensis</i> saplings. R: Cobble, gravel slope to slightly cut bank to flood plane: stand of mature <i>Picea sitchensis</i> .
Frenchy Creek	1	50	L: 6m drop, boulder lined. <i>Salix</i> sp. OH. Clearcut covered by <i>Epilobium angustifolium</i> and <i>Picea sitchensis</i> saplings. R: Sloping bank maintains a mature <i>Picea sitchensis</i> stand. Fallen trees are abundant but logging is not apparent.
Frenchy Creek	1	60	L: Undercut to 0.7 m, moss sloughing to 4m flood plane. R: Sloped gravel deposit to cutbank with moss OH. Flood plane is >10m: <i>Picea sitchensis</i> stand.
Frenchy Creek	1	70	L: Undercut to 1.0 m, <i>Salix</i> sp. OH atop sloughing moss. R: Undercut to 0.6m. <i>Salix</i> sp. OH atop sloughing moss. Flood plane is <i>Picea sitchensis</i> stand.
Frenchy Creek	1	80	L: 0.5m cutbank, juvenile <i>Picea sitchensis</i> OH. Flood plane (6m) to 45% slope to road. Clearcut from road to creek. R: Cut bank to 0.5m vertical with moss OH.
Frenchy Creek	1	90	L: Cut to 0.3m with few <i>Salix</i> sp. OH along bank. Flood plane: previously burned with abundant <i>Epilobium angustifolium</i> . R: Small logjam on cut bank with sloughing moss.
Frenchy Creek	1	100	L: 0.5m cutbank with juvenile <i>Picea sitchensis</i> OH. Flood plane (6m) to 45% slope to road. Clearcut from road to creek. R: Undercut bank to 1m vertical. Root OH.
Frenchy Creek	2	0	L: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m. R: Sandy slope to flood plane.
Frenchy Creek	2	10	L: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m. R: Sandy slope. Appears to be cattle crossing (bank width: 10m)
Frenchy Creek	2	20	L: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m. R: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. At 1.5m cutbank. Flood plane at 2m.
Frenchy Creek	2	30	L: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m. R: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m.
Frenchy Creek	2	40	L: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m. R: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. From 30-60m bank is extremely wet and mossy. Runoff from bank beneath moss dripping into creek. Slope of mossy slope is 25%, plateau atop bank at 4-5m vertical.
Frenchy Creek	2	50	L: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. Flood plane at 2m. R: Undercut with moss sloughing, grass and <i>Salix</i> sp. OH. At 1 and 2 m: bank has sloughed into stream. At 1.5 cutbank. Flood plane at 2m. Bank slope increases to 45% with <i>Pinus contorta</i> and <i>Picea sitchensis</i> .
Frenchy Creek	2	60	L: Undercut with moss sloughing over bank with <i>Salix</i> sp. R: Gravel deposit, <i>Salix</i> sp. OH. LWD along bank.
Frenchy Creek	2	70	L: Undercut with <i>Salix</i> sp. OH. R: Sand slope to undercut at 65m. LWD: rootwads due to bank sloughing, built up along R bank.
Frenchy Creek	2	80	L: Extremely undercut, mossy bank sloughing with grass and <i>Salix</i> sp. OH. R: Gravel, sand point bar with grass and <i>Salix</i> sp. atop slope. Flood plane at 2m with <i>Equisetum</i> sp.
Frenchy Creek	2	90	L: Undercut to 0.1m vertical, grass and <i>Salix</i> sp. OH. R: Undercut to 0.1 vertical with moss sloughing, appears rounded. LWD and <i>Salix</i> sp. OH.
Frenchy Creek	2	100	L: Undercut with moss sloughing. Grass, <i>Salix</i> sp. and <i>Alnus sinuata</i> OH. R: Gravel, sand pointbar with grass and <i>Salix</i> sp. OH.
Frenchy Creek	3	0	L: 0.1m cutbank with sloughing moss and <i>Salix</i> sp. OH. R: Undercut 0.2m with moss sloughing over, appears rounded. <i>Salix</i> sp. OH
Frenchy Creek	3	10	L: Bedrock with moss sloughing and <i>Salix</i> sp. OH. Bank appears silty. R: Undercut. Flood plane at 0.5m for >20m, <i>Salix</i> sp. dominates.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Frenchy Creek	3	20	L: Undercut to 0.1m with <i>Salix</i> sp. OH. Flood plane flat for 10m then 20% slope. <i>Salix</i> sp. dominates flood plane. R: Slight gravel / sand point bar to moss sloughing over 0.1m cutbank. Flood plane >10m dominated by <i>Salix</i> sp.
Frenchy Creek	3	30	L: Gravel / sand point bar with grass and <i>Lupinus</i> sp. growth. R: Cut bank with <i>Salix</i> sp. OH and sloughing moss (appears rounded).
Frenchy Creek	3	40	L: Undercut to 0.1m with slope of 20%, <i>Salix</i> sp. dominates. R: Slight gravel/ sand point bar to sloughing moss. Flood plane dominated by <i>Salix</i> sp.
Frenchy Creek	3	50	L: Undercut to 0.1m with slope of 20%, <i>Salix</i> sp. dominates. R: Slight gravel/ sand point bar to sloughing moss. Flood plane dominated by <i>Salix</i> sp.
Frenchy Creek	3	60	L: Undercut to 0.1m with slope of 20%, <i>Salix</i> sp. dominates R: Slight gravel/ sand point bar to sloughing moss. Flood plane dominated by <i>Salix</i> sp.
Frenchy Creek	3	70	L: 2m vertical undercut bank with moss growth sloughing over. Bank eroding. R: Gravel point bar, sloughing moss and <i>Salix</i> sp.
Frenchy Creek	3	80	L: 2m vertical undercut bank with moss growth sloughing over. <i>Salix</i> sp. OH. R: Down slope from clearcut and road. Juvenile <i>Pseudotsuga menziesii</i> , <i>Picea sitchensis</i> , and mature <i>Pinus contorta</i> .
Frenchy Creek	3	90	L: Cut bank. Flood plane at 1m. <i>Salix</i> sp. dominates, <i>Picea sitchensis</i> . R: Down slope from clearcut and road. Juvenile <i>Pseudotsuga menziesii</i> , <i>Picea sitchensis</i> , and mature <i>Pinus contorta</i> .
Frenchy Creek	3	100	L: Cut bank. Flood plane at 1m. <i>Salix</i> sp. dominates. <i>Picea sitchensis</i> . R: Down slope from clearcut and road. Juvenile <i>Pseudotsuga menziesii</i> , <i>Picea sitchensis</i> , and mature <i>Pinus contorta</i> .

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Granite Creek	1	0	2-Oct-96	17.2	2.0	7.6	36.0	29.0	23.0	29.3
Granite Creek	1	10	2-Oct-96	13.6	2.0	7.9	22.0	23.0	29.0	24.7
Granite Creek	1	20	2-Oct-96	15.4	2.0	6.5	27.0	35.0	31.0	31.0
Granite Creek	1	30	2-Oct-96	16.3	2.0	7.9	22.0	23.0	24.0	23.0
Granite Creek	1	40	2-Oct-96	15.6	2.0	7.0	12.0	35.0	23.0	23.3
Granite Creek	1	50	2-Oct-96	16.0	2.0	7.0	19.0	30.0	43.0	30.7
Granite Creek	1	60	2-Oct-96	16.2	2.0	7.7	21.0	25.0	24.0	23.3
Granite Creek	1	70	2-Oct-96	19.1	2.0	8.7	13.0	33.0	26.0	24.0
Granite Creek	1	80	2-Oct-96	17.3	2.0	10.4	22.0	21.0	26.0	23.0
Granite Creek	1	90	2-Oct-96	18.3	2.5	10.4	24.0	26.0	19.0	23.0
Granite Creek	1	100	2-Oct-96	18.7	3.0	11.5	16.0	18.0	25.0	19.7
Granite Creek	2	0	6-Oct-96	24.6	2.0	8.6	21.0	34.0	26.0	27.0
Granite Creek	2	10	6-Oct-96	21.6	1.5	8.1	15.0	25.0	32.0	24.0
Granite Creek	2	20	6-Oct-96	20.1	2.0	6.6	56.0	39.0	30.0	41.7
Granite Creek	2	30	6-Oct-96	16.6	2.0	6.0	17.0	26.0	23.0	22.0
Granite Creek	2	40	6-Oct-96	15.2	1.5	11.1	42.0	17.0	7.0	22.0
Granite Creek	2	50	6-Oct-96	16.5	2.0	10.5	20.0	24.0	12.0	18.7
Granite Creek	2	60	6-Oct-96	19.3	1.5	11.6	32.0	16.0	5.0	17.7
Granite Creek	2	70	6-Oct-96	20.1	1.5	7.3	38.0	24.0	30.0	30.7
Granite Creek	2	80	6-Oct-96	21.9	1.0	7.4	23.0	33.0	32.0	29.3
Granite Creek	2	90	6-Oct-96	19.4	1.5	6.1	33.0	38.0	40.0	37.0
Granite Creek	2	100	6-Oct-96	23.6	1.5	9.2	20.0	22.0	24.0	22.0
Granite Creek	3	0	6-Oct-96	24.3	1.3	4.1	24.0	24.0	35.0	27.7
Granite Creek	3	10	6-Oct-96	20.7	1.3	4.6	36.0	38.0	24.0	32.7
Granite Creek	3	20	6-Oct-96	16.9	1.5	9.9	21.0	13.0	24.0	19.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Granite Creek	3	30	6-Oct-96	13.6	1.5	6.3	25.0	36.0	43.0	34.7
Granite Creek	3	40	6-Oct-96	19.9	1.5	5.1	26.0	44.0	64.0	44.7
Granite Creek	3	50	6-Oct-96	29.0	1.5	10.8	19.0	12.0	21.0	17.3
Granite Creek	3	60	6-Oct-96	33.5	1.5	10.9	17.0	40.0	37.0	31.3
Granite Creek	3	70	6-Oct-96	31.3	1.2	5.8	45.0	35.0	30.0	36.7
Granite Creek	3	80	6-Oct-96	27.7	1.5	9.3	16.0	25.0	37.0	26.0
Granite Creek	3	90	6-Oct-96	22.4	2.0	6.1	32.0	28.0	27.0	29.0
Granite Creek	3	100	6-Oct-96	20.5	2.0	10.1	28.0	12.0	24.0	21.3
Granite Creek	4	0	6-Oct-96	1.3	0.6	1.3	8.0	9.0	11.0	9.3
Granite Creek	4	10	6-Oct-96	1.9	0.6	1.5	5.0	10.0	7.0	7.3
Granite Creek	4	20	6-Oct-96	2.0	0.6	2.0	18.0	20.0	19.0	19.0
Granite Creek	4	30	6-Oct-96	2.5	0.6	1.3	15.0	8.0	6.0	9.7
Granite Creek	4	40	6-Oct-96	2.6	0.6	1.0	5.0	11.0	22.0	12.7
Granite Creek	4	culvert	6-Oct-96	3.4	0.6	3.4	26.0	48.0	38.0	37.3
Granite Creek	4	50	6-Oct-96	3.4	0.6	3.4	8.0	10.0	16.0	11.3
Granite Creek	4	60	6-Oct-96	2.5	0.6	2.0	18.0	20.0	10.0	16.0
Granite Creek	4	70	6-Oct-96	2.5	0.6	1.6	16.0	22.0	9.0	15.7
Granite Creek	4	80	6-Oct-96	2.0	0.5	1.6	10.0	8.0	11.0	9.7
Granite Creek	4	90	6-Oct-96	2.4	0.7	2.4	22.0	20.0	6.0	16.0
Granite Creek	4	100	6-Oct-96	1.8	0.7	1.8	12.0	10.0	11.0	11.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Granite Creek	1	0	2-Oct-96	15	<i>Populus trichocarpa</i>	0	
Granite Creek	1	10	2-Oct-96	0		5	
Granite Creek	1	20	2-Oct-96	5	<i>Populus trichocarpa</i>	0	
Granite Creek	1	30	2-Oct-96	0		0	
Granite Creek	1	40	2-Oct-96	5	<i>Populus trichocarpa</i>	0	
Granite Creek	1	50	2-Oct-96	10	<i>Populus trichocarpa</i>	0	
Granite Creek	1	60	2-Oct-96	10	<i>Populus trichocarpa</i>	0	
Granite Creek	1	70	2-Oct-96	10	<i>Populus trichocarpa</i>	0	
Granite Creek	1	80	2-Oct-96	20	<i>Populus trichocarpa</i>	0	
Granite Creek	1	90	2-Oct-96	10	<i>Populus trichocarpa</i>	0	
Granite Creek	1	100	2-Oct-96	5	<i>Populus trichocarpa</i> <i>Alnus sinuata</i>	0	
Granite Creek	2	0	6-Oct-96	0		15	<i>Alnus sinuata</i> <i>Salix sp.</i>
Granite Creek	2	10	6-Oct-96	0		0	<i>Alnus sinuata</i> <i>Salix sp.</i>
Granite Creek	2	20	6-Oct-96	0		0	
Granite Creek	2	30	6-Oct-96	0		0	
Granite Creek	2	40	6-Oct-96	0		10	
Granite Creek	2	50	6-Oct-96	0		15	
Granite Creek	2	60	6-Oct-96	0		10	
Granite Creek	2	70	6-Oct-96	2	<i>Picea sitchensis</i>	15	
Granite Creek	2	80	6-Oct-96	0		10	
Granite Creek	2	90	6-Oct-96	2	<i>Picea sitchensis</i>	15	
Granite Creek	2	100	6-Oct-96	0		20	
Granite Creek	3	0	6-Oct-96	0		1	<i>Alnus sinuata</i>
Granite Creek	3	10	6-Oct-96	5	<i>Populus trichocarpa</i>	2	<i>Alnus sinuata</i>
Granite Creek	3	20	6-Oct-96	40	<i>Picea sitchensis</i> <i>Populus trichocarpa</i>	10	<i>Alnus sinuata</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Granite Creek	3	30	6-Oct-96	10	<i>Picea sitchensis</i>	5	<i>Cornus stolonifera</i>
Granite Creek	3	40	6-Oct-96	10	<i>Picea sitchensis</i>	2	<i>Alnus sinuata</i> (juv)
Granite Creek	3	50	6-Oct-96	0		0	
Granite Creek	3	60	6-Oct-96	0		10	<i>Alnus sinuata</i> (juv)
Granite Creek	3	70	6-Oct-96	60	<i>Picea sitchensis</i> <i>Alnus sinuata</i>	10	<i>Cornus stolonifera</i> <i>Alnus sinuata</i>
Granite Creek	3	80	6-Oct-96	20	<i>Picea sitchensis</i> <i>Alnus sinuata</i>	5	<i>Alnus sinuata</i>
Granite Creek	3	90	6-Oct-96	0		0	
Granite Creek	3	100	6-Oct-96	0		0	
Granite Creek	4	0	6-Oct-96	20	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Granite Creek	4	10	6-Oct-96	0		20	<i>Salix sp.</i>
Granite Creek	4	20	6-Oct-96	0		1	<i>Picea sitchensis</i>
Granite Creek	4	30	6-Oct-96	20	<i>Picea sitchensis</i> (sloughing)	20	<i>Salix sp.</i>
Granite Creek	4	40	6-Oct-96	20	<i>Picea sitchensis</i>	25	<i>Salix sp.</i>
Granite Creek	4	culvert	6-Oct-96	2	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Granite Creek	4	50	6-Oct-96	0		0	
Granite Creek	4	60	6-Oct-96	0		0.5	<i>Salix sp.</i>
Granite Creek	4	70	6-Oct-96	0		5	<i>Salix sp.</i>
Granite Creek	4	80	6-Oct-96	0		0	
Granite Creek	4	90	6-Oct-96	0		0	
Granite Creek	4	100	6-Oct-96	0		10	<i>Salix sp.</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Granite Creek	1	0	2-Oct-96	0	0			35	45	20	
Granite Creek	1	10	2-Oct-96	0	0		2	60	30	8	
Granite Creek	1	20	2-Oct-96	0	0		5	60	30	5	
Granite Creek	1	30	2-Oct-96	0	0		5	65	30		
Granite Creek	1	40	2-Oct-96	0	0		20	40	30	10	
Granite Creek	1	50	2-Oct-96	0	0		10	30	40	20	
Granite Creek	1	60	2-Oct-96	0	0		10	30	40	20	
Granite Creek	1	70	2-Oct-96	0	0		2	40	40	18	
Granite Creek	1	80	2-Oct-96	1	0		2	38	40	20	
Granite Creek	1	90	2-Oct-96	2	1		5	40	40	15	
Granite Creek	1	100	2-Oct-96	0	0		5	50	30	15	
Granite Creek	2	0	6-Oct-96	2	10		10	30	40	15	5
Granite Creek	2	10	6-Oct-96	2	0		15	40	30	15	
Granite Creek	2	20	6-Oct-96	0	0		15	40	30	15	
Granite Creek	2	30	6-Oct-96	1	2		15	40	30	15	
Granite Creek	2	40	6-Oct-96	2 (med)	0		10	60	30		
Granite Creek	2	50	6-Oct-96	2	0		5	40	40	15	
Granite Creek	2	60	6-Oct-96	1	1		5	30	40	25	
Granite Creek	2	70	6-Oct-96	2	0		20	30	40	10	
Granite Creek	2	80	6-Oct-96	1	0		20	30	40	10	
Granite Creek	2	90	6-Oct-96	1	10		10	40	40	10	
Granite Creek	2	100	6-Oct-96	5	10		15	40	40	5	
Granite Creek	3	0	6-Oct-96	4	0		5	30	40	25	
Granite Creek	3	10	6-Oct-96	5	0		5	30	40	25	
Granite Creek	3	20	6-Oct-96	6	0		10	40	30	20	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Granite Creek	3	30	6-Oct-96	0	0		5	20	50	25	
Granite Creek	3	40	6-Oct-96	2	0		5	30	30	30	5
Granite Creek	3	50	6-Oct-96	4	0		5	25	45	20	5
Granite Creek	3	60	6-Oct-96	10	0		5	20	50	20	5
Granite Creek	3	70	6-Oct-96	2	0		5	20	20	40	15
Granite Creek	3	80	6-Oct-96	5	5		10	30	30	20	10
Granite Creek	3	90	6-Oct-96	3 (sm)	15		20	30	20	20	10
Granite Creek	3	100	6-Oct-96	1	10		30	40	10	10	10
Granite Creek	4	0	6-Oct-96	0	0			10	60	30	
Granite Creek	4	10	6-Oct-96	2 (sm.)	0			10	60	30	
Granite Creek	4	20	6-Oct-96	2	5			40	50	10	
Granite Creek	4	30	6-Oct-96	10 (lg) 7 (med)	20			30	50	20	
Granite Creek	4	40	6-Oct-96	2 (med)	2				50	50	
Granite Creek	4	culvert	6-Oct-96	0	0		5	60	20	15	
Granite Creek	4	50	6-Oct-96	4 (med)	0		5	70		25	
Granite Creek	4	60	6-Oct-96	3	20			15	15	70	
Granite Creek	4	70	6-Oct-96	2	10			10	20	70	
Granite Creek	4	80	6-Oct-96	4 (lg) 9 (med)	15			10	20	70	
Granite Creek	4	90	6-Oct-96	12	30			10	10	80	
Granite Creek	4	100	6-Oct-96	3 (med)	15		25	20		55	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Granite Creek	1	0	L: Riprap, 4 mature <i>P. trichocarpa</i> at 4m vertical, otherwise bare. R: Gravel point bar (bare) possibly bulldozed into place.
Granite Creek	1	10	L: Cobble slope with small <i>Salix</i> sp. growth, <i>A. sinuata</i> (juv.) and <i>P. sitchensis</i> (juv.). R: Riprap to road, bare. One <i>P. trichocarpa</i> and one <i>P. manziesii</i> between road and riprap.
Granite Creek	1	20	L: Bare slope to flood plane. <i>P. trichocarpa</i> and <i>A. sinuata</i> in flood plane. R: Riprap to road, bare. Three <i>P. trichocarpa</i> between road and bank.
Granite Creek	1	30	L: Bare slope to flood plane. <i>P. trichocarpa</i> and <i>A. sinuata</i> in flood plane. R: Riprap to road, bare. Three <i>P. trichocarpa</i> between road and bank.
Granite Creek	1	40	L: Bare slope to flood plane. <i>P. trichocarpa</i> and <i>A. sinuata</i> in flood plane. R: Riprap to road, bare. One <i>P. sitchensis</i> between road and bank.
Granite Creek	1	50	L: Slope (2%) to flood plane (5-6m). <i>Salix</i> sp. and <i>A. sinuata</i> . R: Steep (60%) riprap, confined. <i>P. trichocarpa</i> on upper bank.
Granite Creek	1	60	L: Bare slope (2%) to flood plane for 10m: young vegetation mature <i>P. trichocarpa</i> . R: Riprap. Sand and gravel deposited above riprap to trees.
Granite Creek	1	70	L: Cobble slope to flood plane. Few young <i>P. tremuloides</i> and <i>Salix</i> sp. R: Cobble slope to gravel bank to mature <i>P. sitchensis</i> and <i>P. manziesii</i> . One small <i>A. circinatum</i> .
Granite Creek	1	80	L: Gravel/sand slope (3%) to riparian veg. at 5m (horizontal), <i>P. trichocarpa</i> and <i>A. sinuata</i> atop bank. R: Cobble slope to gravel bank to mature <i>P. sitchensis</i> and <i>P. manziesii</i> .
Granite Creek	1	90	L: Sloping (2%) sand/gravel to flood plane: sand deposits with <i>P. trichocarpa</i> , <i>A. sinuata</i> and <i>P. sitchensis</i> (juv.). R: Cobble slope (60%) to gravel deposit to cutbank. <i>P. sitchensis</i> and <i>P. trichocarpa</i> atop bank.
Granite Creek	1	100	L: Gradual slope to flood plane for 10m then to 60% slope. Flood plane: sand deposit, <i>P. sitchensis</i> , <i>P. trichocarpa</i> . R: Cobble/gravel slope to cutbank, 1m cut (vertical) with root and vegetation OH.: <i>A. sinuata</i> and <i>C. stolonifera</i>
Granite Creek	2	0	L: Cobble / gravel slope to vegetative strip ( <i>Cornus stolonifera</i> and <i>Salix</i> sp.) Upper slope eroding - rock fall at base. R: 2m undercut bank with sloughing <i>Alnus sinuata</i> in wetted width - good cover for fish.
Granite Creek	2	10	L: Cobble / gravel slope to vegetative strip ( <i>Cornus stolonifera</i> and <i>Salix</i> sp.) Upper slope eroding - rock fall at base. R: 2m cut bank with sloughing <i>Alnus sinuata</i> in wetted width - good cover for fish. 4m opening in bank at 10m - inflow of water during high flows, numerous small and medium woody debris deposits, overgrown with grass.
Granite Creek	2	20	L: Sloping cobble / gravel to vegetation to a 40m stand of <i>Picea sitchensis</i> . Road inclining. R: 2m cut bank with young vegetation. Atop bank are small and medium woody debris deposits, no fish value.
Granite Creek	2	30	L: Cobble / gravel point bar to vegetation at 70m to a dry, unstable, unvegetated eroding bank, slope >70% to road. R: 2m cut bank, young vegetation. Medium woody debris deposits atop bank. Minimal root OH. Boulder/cobble armouring.
Granite Creek	2	40	L: Sloping cobble / gravel to vegetation to stand of <i>Picea sitchensis</i> . R: 2m cut bank, young vegetation. Medium woody debris deposits atop bank. Minimal root OH. Boulder/cobble armouring.
Granite Creek	2	50	L: Undercut such that <i>Alnus sinuata</i> has sloughed, so as to protect bank, scour a pool and provide excellent cover. R: Sloped cobble / gravel bar to 1m cut bank with <i>Alnus sinuata</i> and <i>Cornus stolonifera</i> OH.
Granite Creek	2	60	L: Undercut with dead <i>Cornus stolonifera</i> OH. Bank is sloughing with extensive root OH. R: Cobble / gravel bar to vegetation and LWD deposits, no fish value.
Granite Creek	2	70	L: Undercut with dead <i>Cornus stolonifera</i> OH. Bank is sloughing with extensive root OH. R: Cobble / gravel bar to vegetation and LWD deposits, no fish value.
Granite Creek	2	80	L: 2m cutbank, small woody debris deposits along and atop bank. Bank is sloughing, root OH. R: Cobble / gravel bar, sloping to vegetation, LWD.
Granite Creek	2	90	L: 2m cutbank with root and riparian vegetation OH. LWD high on bank protruding out 0.10m. R: Sloping cobble / gravel bar, to young vegetation to a semi-mature <i>Pinus contorta</i> stand.
Granite Creek	2	100	L: Undercut 1m vertical with grass OH. Few <i>Alnus sinuata</i> (bare) sloughing. Flood plane is at 1m, dominated by <i>Alnus sinuata</i> , <i>Picea sitchensis</i> and <i>Salix</i> sp. R: Cobble / gravel bar with numerous LWD sloping to flood plane dominated by <i>Salix</i> sp. and juvenile <i>Populus trichocarpa</i> .
Granite Creek	3	0	L: Steep bank, cobble deposit. Vegetation at 1m vertical and 1m horizontal. Small woody debris deposit backed up at veg. R: Sloped gravel / cobble point bar with no vegetation, to LWD and vegetation at bankful height.
Granite Creek	3	10	L: 1m cutbank with numerous root OH, atop is a branch / root debris deposit. Top layer is sloughing, overhanging, which provides excellent cover for fish. R: Cobble / gravel point bar, slope to vegetation, LWD deposit atop vegetation.
Granite Creek	3	20	L: 1m undercut bank with rootwad OH. Eroding and unstable. Vegetative riparian layer sloughing over into stream. R: Cobble / gravel point bar, slope to vegetation, LWD deposit atop vegetation.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Granite Creek	3	30	L: Cobble / gravel bar to small stagnant back channel to 1.5m undercut bank with root OH. R: Slope to vegetated bank.
Granite Creek	3	40	L: Cut at island, extensive root OH, dry gravel / sand bar to wetted width. R: Undercut at 1m vertical, flow is beneath bank with extensive root OH. Small woody debris deposited atop bank.
Granite Creek	3	50	L: Vegetated island with small woody debris deposited with LWD here. Small dry channel on far side of island. <i>Populus trichocarpa</i> and <i>Alnus sinuata</i> dominate island vegetation. R: 1m undercut with extensive root OH, slight pooling beneath OH.
Granite Creek	3	60	L: Gravel bar slope to flood plane. R: Undercut to 1m. Sloughing <i>Pinus contorta</i> , extensive root OH, <i>Alnus sinuata</i> and <i>Salix</i> sp. OH.
Granite Creek	3	70	L: Sloping gravel / sand bar to flood plane. R: 1.5m undercut bank, sloughing of bank causing trees to lean and fall into stream (canopy cover and LWD).
Granite Creek	3	80	L: Sloping cobble, gravel, sand point bar to flood plane. R: 2m undercut bank, with root OH. Bank is unstable and sloughing. Large debris deposit atop bank.
Granite Creek	3	90	L: Sloping to flood plane with <i>Salix</i> sp. OH. Flood plane is flat to road. R: 4m cutbank with <i>Pinus contorta</i> sloughing across wetted width (RC). Bank is eroding and unstable.
Granite Creek	3	100	L: Sloping cobble point bar to flood plane to road (flat). <i>Alnus sinuata</i> , <i>Salix</i> sp. <i>Cornus stolonifera</i> in riparian zone. R: 4m cutbank with root OH, juvenile <i>Pinus contorta</i> atop bank. Erosion evident. Cement-like clay with embedded gravel and some cobble from wetted width to cutbank.
Granite Creek	4	0	L: Gravel point bar slope to vegetation. R: Undercut with moss sloughing and <i>Salix</i> sp. OH.
Granite Creek	4	10	L: Undercut with moss sloughing and <i>Salix</i> sp. OH. R: Undercut with moss sloughing and <i>Salix</i> sp. OH.
Granite Creek	4	20	L: Undercut with moss sloughing and <i>Salix</i> sp. OH. Flood plane (at <1m vertical) is clearcut. R: Undercut with moss sloughing and <i>Salix</i> sp. OH. At 18m: cobble / sand point bar.
Granite Creek	4	30	L: Gravel slope to cut bank, dry. R: Undercut with moss sloughing, grass and root OH. Flow is at right bank.
Granite Creek	4	40	L: Sand slope to vegetation. At 38 to 40m: log under moss. <i>Salix</i> sp. OH. R: 1m vertical sloughed moss over undercut (0.5m horizontal). 4m <i>Picea sitchensis</i> stand from wetted width to clearcut.
Granite Creek	4	culvert	L: Undercut - some raw rock (rip rap) deposited. R: Undercut with moss, grass, <i>Salix</i> sp. OH.
Granite Creek	4	50	L: Sloped - fallen rock from road, some grass. Eroding and unstable. R: Sloped - fallen rock from road, some grass, few <i>Salix</i> sp. Eroding and unstable.
Granite Creek	4	60	L: Undercut with grass OH. R: Undercut. At 60m: sand point bar sloping to moss, grass and <i>Cirsium undulatum</i> .
Granite Creek	4	70	L: Undercut with moss sloughing, appears round. Flat flood plane at 0.6m is clearcut. R: Gravel and sand point bar.
Granite Creek	4	80	L: Undercut to 0.10m vertical, with moss sloughing and grass OH. R: Sand point bar sloping to <i>Salix</i> sp. OH.
Granite Creek	4	90	L: Undercut to 0.10m vertical, with moss sloughing and grass OH. LWD R: Sand point bar sloping to <i>Salix</i> sp. OH. LWD
Granite Creek	4	100	L: Undercut to 0.10m vertical, with moss sloughing and grass OH. R: Sand point bar sloping to <i>Salix</i> sp. OH.

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Jim Kelly Creek	1	0	27-Sep-96	8.7	0.6	4.4	30.0	30.0		30.0
Jim Kelly Creek	1	10	27-Sep-96	6.7	0.5	5.5	80.0	80.0	95.0	85.0
Jim Kelly Creek	1	20	27-Sep-96	9.1	0.6	5.3	30.0	25.0	36.0	30.3
Jim Kelly Creek	1	30	27-Sep-96	9.3	0.6	5.2	15.0	42.0	40.0	32.3
Jim Kelly Creek	1	40	27-Sep-96	10.1	0.7	10.1	30.0	30.0		30.0
Jim Kelly Creek	1	50	27-Sep-96	9.0	0.6	6.4	45.0	50.0	40.0	45.0
Jim Kelly Creek	1	60	27-Sep-96	10.6	0.5	9.4	20.0	35.0	40.0	31.7
Jim Kelly Creek	1	70	27-Sep-96	10.8	0.6	8.9	40.0	20.0	50.0	36.7
Jim Kelly Creek	1	80	27-Sep-96	11.2	0.7	11.2	50.0	40.0	25.0	38.3
Jim Kelly Creek	1	90	27-Sep-96	11.0	0.8	11.0	60.0	40.0		50.0
Jim Kelly Creek	1	100	27-Sep-96	8.0	3.2	8.0	max	300.0		300.0
Jim Kelly Creek	2	0	10-Oct-96	9.9	2.0	6.4	17.0	37.0	17.0	23.7
Jim Kelly Creek	2	10	10-Oct-96	11.1	1.5	4.7	16.0	10.0	22.0	16.0
Jim Kelly Creek	2	20	10-Oct-96	11.9	1.5	7.4	25.0	21.0	13.0	19.7
Jim Kelly Creek	2	30	10-Oct-96	11.5	1.0	8.3	18.0	19.0	19.0	18.7
Jim Kelly Creek	2	40	10-Oct-96	11.9	1.0	8.9	7.0	26.0	15.0	16.0
Jim Kelly Creek	2	50	10-Oct-96	12.4	1.0	8.4	5.0	14.0	19.0	12.7
Jim Kelly Creek	2	60	10-Oct-96	13.4	1.0	9.0	9.0	12.0	14.0	11.7
Jim Kelly Creek	2	70	10-Oct-96	12.4	1.0	7.9	10.0	27.0	40.0	25.7
Jim Kelly Creek	2	80	10-Oct-96	10.1	1.5	5.1	36.0	36.0	12.0	28.0
Jim Kelly Creek	2	90	10-Oct-96	9.9	1.5	3.2	22.0	33.0	22.0	25.7
Jim Kelly Creek	2	100	10-Oct-96	10.3	1.5	5.7	24.0	16.0	24.0	21.3
Jim Kelly Creek	3	0	10-Oct-96	21.7	2.0	3.2	38.0	49.0	35.0	40.7
Jim Kelly Creek	3	10	10-Oct-96	16.3	2.0	5.6	33.0	10.0	16.0	19.7

STREAM NAME	SITE	CROSS SECTION	DATE	BANKFUL		WETTED	WETTED DEPTHS			AVERAGE
		(m)		WIDTH (m)	DEPTH (m)	WIDTH (m)	(cm)			DEPTH (m)
Jim Kelly Creek	3	20	10-Oct-96	20.2	2.0	4.1	13.0	25.0	21.0	19.7
Jim Kelly Creek	3	30	10-Oct-96	20.1	2.0	5.5	34.0	33.0	20.0	29.0
Jim Kelly Creek	3	40	10-Oct-96	19.5	3.0	6.5	43.0	53.0	55.0	50.3
Jim Kelly Creek	3	50	10-Oct-96	28.4	3.0	6.8	13.0	18.0	22.0	17.7
Jim Kelly Creek	3	60	10-Oct-96	24.2	3.0	4.7	19.0	29.0	27.0	25.0
Jim Kelly Creek	3	70	10-Oct-96	19.6	3.0	4.9	15.0	23.0	22.0	20.0
Jim Kelly Creek	3	80	10-Oct-96	14.9	3.0	6.2	22.0	37.0	29.0	29.3
Jim Kelly Creek	3	90	10-Oct-96	15.7	3.0	4.3	20.0	15.0		17.5
Jim Kelly Creek	3	100	10-Oct-96	13.7	3.0	5.0	9.0	10.0		9.5

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Jim Kelly Creek	1	0	27-Sep-96	0		0	
Jim Kelly Creek	1	10	27-Sep-96	40	<i>Picea sitchensis</i> <i>P. menziesii</i>	10	<i>Alnus sinuata</i>
Jim Kelly Creek	1	20	27-Sep-96	15	<i>P. trichocarpa</i> <i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Jim Kelly Creek	1	30	27-Sep-96	10	<i>Picea sitchensis</i>	0	
Jim Kelly Creek	1	40	27-Sep-96	5	<i>Picea sitchensis</i> <i>P. menziesii</i>	5	<i>Alnus sinuata</i> grass
Jim Kelly Creek	1	50	27-Sep-96	5	<i>Picea sitchensis</i>	20	<i>Picea sitchensis</i> (juv.) <i>P. menziesii</i>
Jim Kelly Creek	1	60	27-Sep-96	20	<i>Picea sitchensis</i> <i>Thuja plicata</i>	15	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Jim Kelly Creek	1	70	27-Sep-96	15	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Jim Kelly Creek	1	80	27-Sep-96	10	<i>Tsuga heterophylla</i>	4	<i>Alnus sinuata</i>
Jim Kelly Creek	1	90	27-Sep-96	0		10	<i>Alnus sinuata</i> (juv.) <i>Acer circinatum</i>
Jim Kelly Creek	1	100	27-Sep-96	20	<i>P. menziesii</i> <i>Picea sitchensis</i>	10	<i>Alnus sinuata</i> <i>Acer circinatum</i>
Jim Kelly Creek	2	0	10-Oct-96	10	<i>Picea sitchensis</i>	5	<i>Alnus sinuata</i>
Jim Kelly Creek	2	10	10-Oct-96	10	<i>Picea sitchensis</i>	5	<i>Alnus sinuata</i>
Jim Kelly Creek	2	20	10-Oct-96	5	<i>Picea sitchensis</i>	15	<i>Alnus sinuata</i>
Jim Kelly Creek	2	30	10-Oct-96	15	<i>Picea sitchensis</i> (sloughing)	10	<i>Alnus sinuata</i>
Jim Kelly Creek	2	40	10-Oct-96	0		2	<i>Alnus sinuata</i> <i>Salix sp.</i> / grass
Jim Kelly Creek	2	50	10-Oct-96	5	<i>Picea sitchensis</i>	2	Fern
Jim Kelly Creek	2	60	10-Oct-96	5	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Jim Kelly Creek	2	70	10-Oct-96	0		10	<i>Alnus sinuata</i>
Jim Kelly Creek	2	80	10-Oct-96	0		10	<i>Alnus sinuata</i>
Jim Kelly Creek	2	90	10-Oct-96	5	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Jim Kelly Creek	2	100	10-Oct-96	20	<i>Picea sitchensis</i> <i>P. menziesii</i>	5	<i>Alnus sinuata</i> <i>Thuja plicata</i> (juv.)
Jim Kelly Creek	3	0	10-Oct-96	0		5	<i>Alnus sinuata</i>
Jim Kelly Creek	3	10	10-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Jim Kelly Creek	3	20	10-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Jim Kelly Creek	3	30	10-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Jim Kelly Creek	3	40	10-Oct-96	30	<i>P. sitchensis</i> (sloughing)	3	<i>Alnus sinuata</i>
Jim Kelly Creek	3	50	10-Oct-96	10	<i>P. sitchensis</i> (sloughing)	10	<i>Salix sp.</i> <i>Alnus sinuata</i>
Jim Kelly Creek	3	60	10-Oct-96	0		5	<i>Salix sp.</i>
Jim Kelly Creek	3	70	10-Oct-96	10	<i>P. sitchensis</i>	10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Jim Kelly Creek	3	80	10-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Jim Kelly Creek	3	90	10-Oct-96	0		15	<i>Alnus sinuata</i> <i>Salix sp.</i>
Jim Kelly Creek	3	100	10-Oct-96	0		15	<i>Alnus sinuata</i> <i>Salix sp.</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Jim Kelly Creek	1	0	27-Sep-96	0		30	30	20	10	10	
Jim Kelly Creek	1	10	27-Sep-96	0		30	10		20	20	
Jim Kelly Creek	1	20	27-Sep-96	1	2 (4m dia.)	70	10	10	10		
Jim Kelly Creek	1	30	27-Sep-96	2	0	40		30	20	10	
Jim Kelly Creek	1	40	27-Sep-96	2	5	50	20	20	8	2	
Jim Kelly Creek	1	50	27-Sep-96	0		40		30	20	10	
Jim Kelly Creek	1	60	27-Sep-96	0		50	10	30	10		
Jim Kelly Creek	1	70	27-Sep-96	0		30	10	50	10		
Jim Kelly Creek	1	80	27-Sep-96	0		30	10	40	15	5	
Jim Kelly Creek	1	90	27-Sep-96	1	1	25		25	30	20	
Jim Kelly Creek	1	100	27-Sep-96	0		100					
Jim Kelly Creek	2	0	10-Oct-96	2	0		15	40	30	15	
Jim Kelly Creek	2	10	10-Oct-96	2	0		15	40	30	15	
Jim Kelly Creek	2	20	10-Oct-96	0	0		10	40	30	20	
Jim Kelly Creek	2	30	10-Oct-96	5	0		5	50	35	10	
Jim Kelly Creek	2	40	10-Oct-96	3	6	10		50	30	10	
Jim Kelly Creek	2	50	10-Oct-96	1	3	15		30	40	15	
Jim Kelly Creek	2	60	10-Oct-96	1	0	5	15	50	20	10	
Jim Kelly Creek	2	70	10-Oct-96	0	0	10	5	20	50	15	
Jim Kelly Creek	2	80	10-Oct-96	2	0	30	10	25	25	10	
Jim Kelly Creek	2	90	10-Oct-96	0	(med.)	25	15	30	20	10	
Jim Kelly Creek	2	100	10-Oct-96	0	0	40	10	20	20	10	
Jim Kelly Creek	3	0	10-Oct-96	0	0		5	40	30	25	
Jim Kelly Creek	3	10	10-Oct-96	0	0		5	40	30	25	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Jim Kelly Creek	3	20	10-Oct-96	1	1		5	30	40	25	
Jim Kelly Creek	3	30	10-Oct-96	0	0		5	30	40	25	
Jim Kelly Creek	3	40	10-Oct-96	>10	30 logjam			30	40	30	
Jim Kelly Creek	3	50	10-Oct-96	>10	30 logjam			40	40	20	
Jim Kelly Creek	3	60	10-Oct-96	0	0		10	40	30	20	
Jim Kelly Creek	3	70	10-Oct-96	2	5		10	40	30	20	
Jim Kelly Creek	3	80	10-Oct-96	6	5		15	35	30	20	
Jim Kelly Creek	3	90	10-Oct-96	1	0		15	35	30	20	
Jim Kelly Creek	3	100	10-Oct-96	1	10			30	40	30	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Jim Kelly Creek	1	0	L: Cobble/boulder midchannel bar, no vegetation. R: Bedrock 5.5m (vertical) with moss, grass and <i>Alnus sinuata</i> OH.
Jim Kelly Creek	1	10	L: Dry cobble slope to 1m cutbank with root, moss and <i>Equisetum</i> sp. sloughing. Flood plane: 45% slope, <i>Alnus sinuata</i> . R: Steep bedrock. Confined, no flood plane. Some vegetation at 6m: <i>Acer circinatum</i> and few small <i>Alnus sinuata</i> .
Jim Kelly Creek	1	20	L: Sloped bedrock to 2m, forested above. R: Cobble build up sloping to bedrock, fallen rock. Moss, <i>Alnus sinuata</i> , <i>P. sitchensis</i> and grasses. One snag sloughing.
Jim Kelly Creek	1	30	L: Sloped bedrock to 2m, moss. At 2m: forested area. Fallen trees atop bank. R: Cobble point bar (deposit) to base of bedrock slope, some fallen rock, moist, mossy, <i>P. sitchensis</i> , <i>P. menziesii</i> .
Jim Kelly Creek	1	40	L: Sloped bedrock to 2m, moss. At 2m: forested area. Fallen trees atop bank. R: Cobble point bar to base of bedrock slope, moist. Moss, <i>Alnus sinuata</i> , <i>Acer circinatum</i> and <i>Arnica latifolia</i> .
Jim Kelly Creek	1	50	L: Sloped bedrock to 2m, moss. At 2m: forested area. Fallen trees atop bank. R: Cobble point bar to base of bedrock slope, moist. Moss, <i>Alnus sinuata</i> , <i>Acer circinatum</i> and <i>Arnica latifolia</i> .
Jim Kelly Creek	1	60	L: Bedrock (slope 60%) with moss. Few <i>P. sitchensis</i> and <i>Thuja plicata</i> (juv.) R: Bedrock (slope 60%) with moss. <i>Alnus sinuata</i> , <i>P. menziesii</i> and <i>Tsuga heterophylla</i> (juv.).
Jim Kelly Creek	1	70	L: Bedrock (slope 60%) with moss. Few <i>P. sitchensis</i> and <i>Thuja plicata</i> (juv.) R: Bedrock (slope 60%) with moss. <i>Alnus sinuata</i> , <i>P. menziesii</i> and <i>Tsuga heterophylla</i> (juv.).
Jim Kelly Creek	1	80	L: Bedrock (slope 60%) with moss. Few <i>P. sitchensis</i> and <i>Thuja plicata</i> (juv.) R: Bedrock (slope 60%) with moss. <i>Alnus sinuata</i> , <i>P. menziesii</i> and <i>Tsuga heterophylla</i>
Jim Kelly Creek	1	90	L: Steep, confined bedrock, fallen rock and moss. Riparian <i>Alnus sinuata</i> , <i>P. sitchensis</i> at 6m (vertical) up bank. R: Bedrock steep, confined, moss and <i>Pteridium aquilinum pubescens</i> stabilizing fallen rock. Young <i>Tsuga heterophylla</i> and three snags atop bank (>6m). One <i>Thuja plicata</i> (juv.) 5m up bank.
Jim Kelly Creek	1	100	L: Steep bedrock with moss and riparian vegetation, (pool). R: Steep bedrock with moss (sloughing), appears rounded, extremely vigorous.
Jim Kelly Creek	2	0	L: Gravel/sand bar to undercut bank with root OH. R: Gravel/sand bar to undercut bank with root OH., with LWD atop slope (dry).
Jim Kelly Creek	2	10	L: Gravel/sand bar to undercut bank with root OH. R: Gravel/sand bar to undercut bank with root OH., with LWD atop slope (dry). Gravel sloughing.
Jim Kelly Creek	2	20	L: Gravel/sand bar to undercut bank with root OH. R: Gravel/sand bar to undercut bank with root OH., with LWD atop slope (dry).
Jim Kelly Creek	2	30	L: Undercut (0.2m horizontal) with fallen trees OH., Eleven trees sloughing upslope of flood plane. R: 1m undercut, sloughing bank. Sink hole.
Jim Kelly Creek	2	40	L: Cutbank sloughing, Some LWD OH. R: Cutbank (0.7m vertical), appears rounded. Slope of flood plane: 6%.
Jim Kelly Creek	2	50	L: Cutbank sloughing, Some LWD OH. R: Bedrock to moss/herb layer, steep forested slope.
Jim Kelly Creek	2	60	L: Cobble/gravel slope (dry) to cut bank (0.1m) with root and vegetated OH., to forested slope (30%) R: Bedrock to moss/herb layer, steep forested slope (15%).
Jim Kelly Creek	2	70	L: Gravel/cobble slope to 0.15m undercut bank (vertical) with moss sloughing over. Slope forested (50%) R: Bedrock with sand deposit, moss and herb layer to forested slope. <i>Pinus contorta</i>
Jim Kelly Creek	2	80	L: Cobble/gravel slope (dry) to cut bank (0.1m) with root and vegetated OH., to forested slope (30%) R: Bedrock to moss/herb layer, steep forested slope.
Jim Kelly Creek	2	90	L: Bedrock with sand deposits and moss. R: Bedrock sloughing, cobble with moss and vegetated OH.
Jim Kelly Creek	2	100	L: Bedrock with moss to cutbank with moss OH. Forested slope is 60% . R: Bedrock, moss, fern, <i>Pinus contorta</i> . Vegetation sloughing. Feeder trickle enters here over bedrock.
Jim Kelly Creek	3	0	L: Cut bank with vegetative OH. R: Cobble/gravel slope to <i>Alnus sinuata</i> .
Jim Kelly Creek	3	10	L: Cut bank with vegetative OH. R: Cobble/gravel slope to <i>Alnus sinuata</i> .

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Jim Kelly Creek	3	20	L: Cobble/gravel/sand point bar to <i>Salix</i> sp. R: Cobble/gravel/sand bar sloping to vegetation OH.
Jim Kelly Creek	3	30	L: Cobble/gravel/sand bar to <i>Salix</i> sp. Flood plane: <i>Alnus sinuata</i> and immature <i>Pinus contorta</i> . R: Cobble/gravel slope to 0.1m undercut bank with <i>Salix</i> sp. OH.
Jim Kelly Creek	3	40	L: Cobble/gravel/sand bar sloping to vegetation. R: Cobble to logjam, LWD OH., atop cut bank.
Jim Kelly Creek	3	50	L: Cobble/gravel bar to vegetated flat flood plane. R: Cobble/gravel bar to vegetation.
Jim Kelly Creek	3	60	L: Cobble/gravel/sand point bar to vegetated slope. R: Cobble slope to 0.1m undercut bank with vegetive OH. Very little riparian shrub OH.
Jim Kelly Creek	3	70	L: Cobble/gravel/sand point bar to vegetation. R: Undercut bank with <i>P. sitchensis</i> root OH., At 65m: feeder inlet right bank.
Jim Kelly Creek	3	80	L: Cobble/gravel/sand point bar to vegetation. R: Undercut bank.
Jim Kelly Creek	3	90	L: Sloping bar to vegetated flood plane. R: Undercut with 0.3m with vegetated OH.
Jim Kelly Creek	3	100	L: Sloping bar to vegetated flood plane. R: Sloughing wall of clay/silt just above 100m.

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS (cm)			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)					
Olivine Creek	1	0	23-Sep-96	20.0	1.0	3	max	12.0		12.0
Olivine Creek	1	10	23-Sep-96	20.0	1.5	3	max	12.0		12.0
Olivine Creek	1	20	23-Sep-96	21.8	1.8	3.5	max	15.0		15.0
Olivine Creek	1	30	23-Sep-96	17.5	1.7	2.8	max	10.0		10.0
Olivine Creek	1	40	23-Sep-96	17.5	1.5	2.1	max	11.0		11.0
Olivine Creek	1	50	23-Sep-96	11.5	3.3	2.7	max	8.0		8.0
Olivine Creek	1	60	23-Sep-96	23.0	1.3	2.1	max	20.0		20.0
Olivine Creek	1	70	23-Sep-96	17.5	1.3	3.1	max	5.0		5.0
Olivine Creek	1	80	23-Sep-96	13.7	1.8	3.2	max	30.0		30.0
Olivine Creek	1	90	23-Sep-96	19.4	1.4	3.3	max	10.0		10.0
Olivine Creek	1	100	23-Sep-96	30.0	1.3	3.1	max	10.0		10.0
Olivine Creek	2	0	23-Sep-96	8.8	1.0	4.5	max	9.0		9.0
Olivine Creek	2	10	23-Sep-96	6.1	1.0	2.4	max	8.0		8.0
Olivine Creek	2	20	23-Sep-96	8.8	1.4	2.9	max	11.0		11.0
Olivine Creek	2	30	23-Sep-96	11.5	2.4	3.8	max	40.0		40.0
Olivine Creek	2	40	23-Sep-96	13.3	3.0	2.8	max	10.0		10.0
Olivine Creek	2	50	23-Sep-96	9.1	2.3	3.4	max	10.0		10.0
Olivine Creek	2	60	23-Sep-96	6.8	2.0	5.8	max	10.0		10.0
Olivine Creek	2	70	23-Sep-96	7.0	2.4	2.7	max	60.0		60.0
Olivine Creek	2	80	23-Sep-96	6.6	2.5	5.6	max	40.0		40.0
Olivine Creek	2	90	23-Sep-96	8.5	2.3	3.4	max	10.0		10.0
Olivine Creek	2	100	23-Sep-96	8.9	2.0	4	max	20.0		20.0
Olivine Creek	3	0	7-Oct-96	6.6	2.0	3.0	22.0	26.0	13.0	20.3
Olivine Creek	3	10	7-Oct-96	13.0	1.9	3.0	9.0	14.0	0.0	7.7
Olivine Creek	3	20	7-Oct-96	15.6	2.0	2.7	34.0	42.0	18.0	31.3

Stream Name	Site	Cross Section (m)	Date	Bankful		Wetted Width (m)	Wetted Depths			Average Depth (m)
				Width (m)	Depth (m)		(cm)			
Olivine Creek	3	30	7-Oct-96	7.6	2.0	3.0	16.0	10.0	16.0	14.0
Olivine Creek	3	40	7-Oct-96	5.1	2.0	1.7	19.0	25.0	29.0	24.3
Olivine Creek	3	50	7-Oct-96	7.2	2.0	2.1	17.0	15.0	10.0	14.0
Olivine Creek	3	60	7-Oct-96	5.8	2.0	3.4	8.0	15.0	13.0	12.0
Olivine Creek	3	70	7-Oct-96	6.3	2.0	2.1	14.0	20.0	10.0	14.7
Olivine Creek	3	80	7-Oct-96	7.1	2.0	3.6	10.0	15.0	11.0	12.0
Olivine Creek	3	90	7-Oct-96	7.5	2.0	2.7	10.0	19.0	19.0	16.0
Olivine Creek	3	100	7-Oct-96	6.2	2.0	3.2	20.0	8.0	10.0	12.7
Olivine Creek (T)	4	0	7-Oct-96	4.3	1.7	2.0	16.0	25.0	15.0	18.7
Olivine Creek (T)	4	10	7-Oct-96	7.6	1.6	2.8	15.0	8.0	10.0	11.0
Olivine Creek (T)	4	20	7-Oct-96	4.1	1.6	2.3	6.0	16.0	10.0	10.7
Olivine Creek (T)	4	30	7-Oct-96	3.8	1.7	1.1	7.0	14.0	19.0	13.3
Olivine Creek (T)	4	40	7-Oct-96	5.9	1.7	2.6	11.0	4.0	7.0	7.3
Olivine Creek (T)	4	50	7-Oct-96	5.8	1.7	2.6	17.0	46.0	22.0	28.3
Olivine Creek (T)	4	60	7-Oct-96	7.2	1.8	1.6	5.0	10.0	8.0	7.7
Olivine Creek (T)	4	70	7-Oct-96	5.3	1.9	2.2	7.0	12.0	5.0	8.0
Olivine Creek (T)	4	80	7-Oct-96	3.8	1.9	2.1	21.0	16.0	10.0	15.7
Olivine Creek (T)	4	90	7-Oct-96	4.9	1.9	2.4	8.0	9.0		8.5
Olivine Creek (T)	4	100	7-Oct-96	8.0	2.0	0.3	13.0			13.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Olivine Creek	1	0	23-Sep-96	0		0	
Olivine Creek	1	10	23-Sep-96				
Olivine Creek	1	20	23-Sep-96	8	<i>P. menziesii</i>	2	<i>Alnus sinuata</i>
Olivine Creek	1	30	23-Sep-96	60	<i>P. trichocarpa</i> <i>P. menziesii</i>	20	<i>Alnus sinuata</i>
Olivine Creek	1	40	23-Sep-96	40	<i>P. trichocarpa</i> <i>P. menziesii</i>	35	<i>Alnus sinuata</i>
Olivine Creek	1	50	23-Sep-96	30	<i>P. trichocarpa</i> <i>P. menziesii</i>	20	<i>Alnus sinuata</i>
Olivine Creek	1	60	23-Sep-96	20	<i>P. trichocarpa</i> <i>P. menziesii</i>	20	<i>Alnus sinuata</i> <i>Salix sp.</i>
Olivine Creek	1	70	23-Sep-96	15	<i>P. trichocarpa</i> <i>P. menziesii</i>	5	<i>Alnus sinuata</i>
Olivine Creek	1	80	23-Sep-96	8	<i>P. trichocarpa</i> <i>P. menziesii</i>	2	<i>Alnus sinuata</i>
Olivine Creek	1	90	23-Sep-96	40	<i>P. trichocarpa</i> <i>P. menziesii</i>	0	
Olivine Creek	1	100	23-Sep-96	20	<i>P. trichocarpa</i> <i>Thuja plicata</i>	0	
Olivine Creek	2	0	23-Sep-96	25	<i>P. trichocarpa</i> <i>P. menziesii</i>	5	<i>Acer circinatum</i>
Olivine Creek	2	10	23-Sep-96	10	<i>P. menziesii</i>	20	<i>Acer circinatum</i> <i>Alnus sinuata</i>
Olivine Creek	2	20	23-Sep-96	0		10	<i>Alnus sinuata</i>
Olivine Creek	2	30	23-Sep-96	0		10	<i>Alnus sinuata</i>
Olivine Creek	2	40	23-Sep-96	0		10	<i>Alnus sinuata</i>
Olivine Creek	2	50	23-Sep-96	0		80	<i>Alnus sinuata</i>
Olivine Creek	2	60	23-Sep-96	10	<i>P. menziesii</i>	0	
Olivine Creek	2	70	23-Sep-96	10	<i>P. menziesii</i>	5	<i>Acer circinatum</i> <i>Alnus sinuata</i>
Olivine Creek	2	80	23-Sep-96	1	<i>P. menziesii</i>	1	<i>Acer circinatum</i> <i>Alnus sinuata</i>
Olivine Creek	2	90	23-Sep-96	0		10	<i>Acer circinatum</i> <i>Alnus sinuata</i>
Olivine Creek	2	100	23-Sep-96	50	<i>P. menziesii</i>	0	
Olivine Creek	3	0	7-Oct-96	0		5	<i>Alnus sinuata</i>
Olivine Creek	3	10	7-Oct-96	10	<i>Picea sitchensis</i> (sloughing)	0	
Olivine Creek	3	20	7-Oct-96	0		0	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Olivine Creek	3	30	7-Oct-96	0		5	<i>Salix sp.</i>
Olivine Creek	3	40	7-Oct-96	1	<i>Picea sitchensis</i>	10	<i>Alnus sinuata</i>
Olivine Creek	3	50	7-Oct-96	0		10	<i>Acer circinatum</i> <i>Alnus sinuata</i>
Olivine Creek	3	60	7-Oct-96	0		10	<i>Alnus sinuata</i>
Olivine Creek	3	70	7-Oct-96	0		50	<i>Alnus sinuata</i>
Olivine Creek	3	80	7-Oct-96	0		10	<i>Alnus sinuata</i>
Olivine Creek	3	90	7-Oct-96	0		20	<i>Alnus sinuata</i>
Olivine Creek	3	100	7-Oct-96	5	<i>Picea sitchensis</i>	30	<i>Alnus sinuata</i>
Olivine Creek (T)	4	0	7-Oct-96	0		4	<i>Salix sp.</i>
Olivine Creek (T)	4	10	7-Oct-96	0		25	<i>Salix sp.</i> <i>Alnus sinuata</i>
Olivine Creek (T)	4	20	7-Oct-96	0		30	<i>Alnus sinuata</i> <i>Salix sp.</i>
Olivine Creek (T)	4	30	7-Oct-96	0		80	<i>Alnus sinuata</i> <i>Salix sp.</i>
Olivine Creek (T)	4	40	7-Oct-96	0		100	<i>Alnus sinuata</i> <i>Salix sp., Ribes sp.</i>
Olivine Creek (T)	4	50	7-Oct-96	0		50	<i>Alnus sinuata</i>
Olivine Creek (T)	4	60	7-Oct-96	0		20	<i>Salix sp.</i> <i>Alnus sinuata</i>
Olivine Creek (T)	4	70	7-Oct-96	0		30	<i>Alnus sinuata</i> <i>Salix sp.</i>
Olivine Creek (T)	4	80	7-Oct-96	0		70	<i>Alnus sinuata</i>
Olivine Creek (T)	4	90	7-Oct-96	0		70	<i>Alnus sinuata</i> <i>Salix sp.</i>
Olivine Creek (T)	4	100	7-Oct-96	0		80	<i>Alnus sinuata</i> <i>Salix sp.</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Olivine Creek	1	0	23-Sep-96	0	0		15	60	20	5	
Olivine Creek	1	10	23-Sep-96	0	0		10	60	20	10	
Olivine Creek	1	20	23-Sep-96	1	1		30	30	10	30	
Olivine Creek	1	30	23-Sep-96	0	0		5	30	30	35	
Olivine Creek	1	40	23-Sep-96	1	5		10	20	50	20	
Olivine Creek	1	50	23-Sep-96	1	20		10	30	50	10	
Olivine Creek	1	60	23-Sep-96	1	5		10	20	20	50	
Olivine Creek	1	70	23-Sep-96	3	20		10	20	60	10	
Olivine Creek	1	80	23-Sep-96	0	0		10	20	50	20	
Olivine Creek	1	90	23-Sep-96	1	5		10	30	40	20	
Olivine Creek	1	100	23-Sep-96	0	0		10	30	40	20	
Olivine Creek	2	0	23-Sep-96	1	5		10	60	20	10	
Olivine Creek	2	10	23-Sep-96	3	5		10	20	60	10	
Olivine Creek	2	20	23-Sep-96	2	0	50	20	20	10		
Olivine Creek	2	30	23-Sep-96	4	1	30	30	20	20		
Olivine Creek	2	40	23-Sep-96	1	5	30	40	20	10		
Olivine Creek	2	50	23-Sep-96	1	0		40	50	10		
Olivine Creek	2	60	23-Sep-96	2	0		50	40	10		
Olivine Creek	2	70	23-Sep-96	1	1	20	80				
Olivine Creek	2	80	23-Sep-96	4	5		30	50	20		
Olivine Creek	2	90	23-Sep-96	0	0		70	20	10		
Olivine Creek	2	100	23-Sep-96	0	0		30	30	30	10	
Olivine Creek	3	0	7-Oct-96	>20	20		25	20	40	15	
Olivine Creek	3	10	7-Oct-96	>15	25		30	20	40	10	
Olivine Creek	3	20	7-Oct-96	9	0		45	40	15		

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Olivine Creek	3	30	7-Oct-96	2	5		25	35	30	10	
Olivine Creek	3	40	7-Oct-96	5	10	70		10	20		
Olivine Creek	3	50	7-Oct-96	5	10	30	20	20	20	10	
Olivine Creek	3	60	7-Oct-96	5	0		20	30	30	20	
Olivine Creek	3	70	7-Oct-96	4	0	10	30	30	20	10	
Olivine Creek	3	80	7-Oct-96	3	0		30	20	40	10	
Olivine Creek	3	90	7-Oct-96	6	0		20	30	40	10	
Olivine Creek	3	100	7-Oct-96	>11	0		10	40	30	20	
Olivine Creek (T)	4	0	7-Oct-96	0	0		25	20	40	15	
Olivine Creek (T)	4	10	7-Oct-96	0	0		25	20	40	15	
Olivine Creek (T)	4	20	7-Oct-96	0	0		20	10	40	30	
Olivine Creek (T)	4	30	7-Oct-96	1	0	20	10	20	30	20	
Olivine Creek (T)	4	40	7-Oct-96	7	10	30	50		10	5	5
Olivine Creek (T)	4	50	7-Oct-96	>10	5	50		20	10	20	
Olivine Creek (T)	4	60	7-Oct-96	4	0		20	30	30	20	
Olivine Creek (T)	4	70	7-Oct-96	3	0		25	30	25	20	
Olivine Creek (T)	4	80	7-Oct-96	0	0	20	20	30	20	10	
Olivine Creek (T)	4	90	7-Oct-96	5	0	40	10		40	10	
Olivine Creek (T)	4	100	7-Oct-96	>20	80	50		10	10	30	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Olivine Creek	1	0	L: Cobble slope (20m u/s from confluence with Tulameen River) R: Cobble slope (20m u/s from confluence with Tulameen River)
Olivine Creek	1	10	L: Cobble slope (dry) to vegetated cutbank. R: Cobble slope (dry) to vegetated cutbank.
Olivine Creek	1	20	L: Cut with vegetative OH. R: Cut with vegetative OH.
Olivine Creek	1	30	L: Cut with vegetative OH. R: Cut with vegetative OH.
Olivine Creek	1	40	L: Cutbank. R: Cobble/gravel slope to vegetative OH., sloping flood plane.
Olivine Creek	1	50	L: Cobble to flood plane R: Undercut with vegetative OH.
Olivine Creek	1	60	L: Cobble/sand deposit. Vegetation throughout flood plane. R: Cut with <i>Salix</i> sp. OH.
Olivine Creek	1	70	L: Cobble/gravel slope to vegetation R: Undercut with vegetation OH. (dry).
Olivine Creek	1	80	L: Slightly undercut. Forested flood plane. R: Cutbank with <i>Alnus sinuata</i> OH.
Olivine Creek	1	90	L: Slope to flood plane, forested. R: Cut bank, some boulder armouring, Little vegetative OH.
Olivine Creek	1	100	L: Slope to forested flood plane. R: Steep vegetated slope.
Olivine Creek	2	0	L: Cutbank (1m vertical), little OH, no flood plane. R: Cutbank (1m vertical), few dry boulders.
Olivine Creek	2	10	L: Bedrock, 4-5m, woody debris, unstable. Steep, no flood plane. R: Cutbank (1m vertical), <i>Acer circinatum</i> OH., Sloped vegetated flood plane.
Olivine Creek	2	20	L: Bedrock and boulders, vegetation at 2m. Steep. R: Sloped for 1m to cutbank, with numerous debris deposits. Numerous boulders.
Olivine Creek	2	30	L: Steep bedrock, vegetation and woody debris. R: Stepped boulder, steep with woody debris deposits. Erosion occurring at 2m.
Olivine Creek	2	40	L: Steep bedrock with woody debris and vegetative OH. R: Bedrock, vegetative cover and woody debris deposits.
Olivine Creek	2	50	L: Steep bank boulders with vegetation. Unstable appears to have been a slide previously. R: Bedrock.
Olivine Creek	2	60	L: Slide, steep bedrock, young vegetation. R: Bedrock, bare.
Olivine Creek	2	70	L: Slide, steep bedrock, some vegetation. R: Bedrock, bare.
Olivine Creek	2	80	L: Bedrock, boulder and cobble slide, woody debris deposits. R: Bedrock.
Olivine Creek	2	90	L: Bedrock, steep, vegetation, moss and woody debris. R: Bedrock, small boulder slide, vegetation. Erosion apparent.
Olivine Creek	2	100	L: Bedrock (rock face). R: Bedrock (rock face).
Olivine Creek	3	0	L: Sloping bank beneath large logjam, not a barrier. R: Sloping creek bed (dry) to 2m cutbank.
Olivine Creek	3	10	L: Sloping bank beneath large logjam to vegetation. R: 2m cutbank, LWD protruding from bank.
Olivine Creek	3	20	L: Slope bank to vegetation, LWD atop bank. R: Slope to vegetation, LWD atop bank.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Olivine Creek	3	30	L: 1m cutbank to grass and <i>Salix</i> sp. OH. R: Gravel point bar to 1m cut bank, grass OH.
Olivine Creek	3	40	L: Bedrock with vegetative OH, LWD. R: Cobble slope to clearcut.
Olivine Creek	3	50	L: Gravel slope (stream bed) to bedrock to root and riparian veg. OH. R: Sloped gravel on bedrock to riparian veg. OH, LWD atop bank.
Olivine Creek	3	60	L: Boulder armour to 1m cutbank, small woody debris OH, 3 medium woody debris atop left bank. R: Gravel point bar sloping to 1m undercut bank with <i>A. sinuata</i> OH. Two LWD atop right bank (1.5m dia)
Olivine Creek	3	70	L: Boulder armour to 1m cutbank, small woody debris OH, 3 medium woody debris atop left bank. R: Gravel point bar sloping to 1m undercut bank with <i>Alnus sinuata</i> OH. One LWD atop right bank. (1m
Olivine Creek	3	80	L: 1m undercut bank with vegetation OH. Boulder lining wetted width. R: Cobble slope to undercut bank armoured by LWD (dry) .
Olivine Creek	3	90	L: 1m cut bank with vegetation and root OH. R: Cobble slope to undercut bank armoured by boulder .
Olivine Creek	3	100	L: 1m cutbank with root and <i>Alnus sinuata</i> OH.
Olivine Creek (T)	4	0	L: Culvert as left bank, no vegetation. R: Cutbank - road eroded, little vegetative OH.
Olivine Creek (T)	4	10	L: Cobble / gravel slope deactivated road. R: Slope is exposed soil to <i>Alnus sinuata</i> at 3m.
Olivine Creek (T)	4	20	L: Undercut with <i>Salix</i> sp. OH. Moss covers armouring boulders. R: Gravel point bar to undercut bank with vegetation OH. <i>Anaphalis margaritacea</i> .
Olivine Creek (T)	4	30	L: Undercut with roots and riparian vegetation OH. Bank is armoured with boulders. R: Slope to riparian vegetation OH.
Olivine Creek (T)	4	40	L: Sloping bank, gravel deposit creating step in stream bed along left bank. R: 1m cutbank, with root and <i>Alnus sinuata</i> OH.
Olivine Creek (T)	4	50	L: Bedrock with LWD deposit upon bank. R: Sloughing cutbank with burnt LWD.
Olivine Creek (T)	4	60	L: 1m cutbank with root and vegetation OH. R: 0.7m cutbank with vegetative OH and boulder armour.
Olivine Creek (T)	4	70	L: 1m cutbank with <i>Alnus sinuata</i> OH. Slope to road 30%. R: Cutbank sloughing, slope to clearcut is 30%.
Olivine Creek (T)	4	80	L: Cobble / gravel slope with vegetation atop bank. R: 0.6m undercut with cobble/gravel slope at 1 m horizontal.
Olivine Creek (T)	4	90	L: 1.5m cutbank with root OH. (dry). Sloped bedrock with vegetative OH. R: Sloped bank with boulder armour to riparian OH.
Olivine Creek (T)	4	100	L: Bedrock with exposed soil and root OH. R: Sloped bank.

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Otter Creek	1	0	9-Oct-96	12.2	2.0	9.5	19.0	22.0	26.0	22.3
Otter Creek	1	10	9-Oct-96	10.1	2.0	7.5	51.0	47.0	22.0	40.0
Otter Creek	1	20	9-Oct-96	11.2	2.0	8.6	32.0	85.0	62.0	59.7
Otter Creek	1	30	9-Oct-96	11.1	2.0	7.3	32.0	39.0	23.0	31.3
Otter Creek	1	40	9-Oct-96	9.4	2.0	5.6	24.0	38.0	33.0	31.7
Otter Creek	1	50	9-Oct-96	9.1	2.0	5.3	25.0	25.0	17.0	22.3
Otter Creek	1	60	9-Oct-96	10.8	2.0	7.0	29.0	32.0	19.0	26.7
Otter Creek	1	70	9-Oct-96	11.9	2.0	8.7	35.0	25.0	9.0	23.0
Otter Creek	1	80	9-Oct-96	11.3	2.0	8.5	43.0	37.0	36.0	38.7
Otter Creek	1	90	9-Oct-96	11.2	2.0	8.2	44.0	49.0	46.0	46.3
Otter Creek	1	100	9-Oct-96	10.1	2.0	8.3	34.0	44.0	49.0	42.3
Otter Creek	2	0	2-Oct-96	11.7	2.0	9.5	14.0	13.0	15.0	14.0
Otter Creek	2	10	2-Oct-96	13.2	2.0	9.5	5.0	21.0	27.0	17.7
Otter Creek	2	20	2-Oct-96	12.4	1.5	8.1	18.0	23.0	29.0	23.3
Otter Creek	2	30	2-Oct-96	12.7	1.5	8.6	15.0	14.0	18.0	15.7
Otter Creek	2	40	2-Oct-96	12.8	1.5	10.0	26.0	8.0	12.0	15.3
Otter Creek	2	50	2-Oct-96	12.8	1.5	10.1	19.0	16.0	34.0	23.0
Otter Creek	2	60	2-Oct-96	13.2	2.0	6.8	38.0	66.0	46.0	50.0
Otter Creek	2	70	2-Oct-96	12.1	2.0	7.9	28.0	50.0	38.0	38.7
Otter Creek	2	80	2-Oct-96	11.2	2.0	7.6	29.0	48.0	51.0	42.7
Otter Creek	2	90	2-Oct-96	12.2	2.0	6.4	16.0	43.0	73.0	44.0
Otter Creek	2	100	2-Oct-96	14.8	2.0	7.4	9.0	23.0	29.0	20.3
Otter Creek	3	0	4-Oct-96	7.6	2.0	7.6	9.0	36.0	37.0	27.3
Otter Creek	3	10	4-Oct-96	5.9	2.0	5.9	28.0	31.0	44.0	34.3
Otter Creek	3	20	4-Oct-96	5.6	2.0	5.6	35.0	26.0	26.0	29.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Otter Creek	3	30	4-Oct-96	5.3	2.0	5.3	29.0	25.0	17.0	23.7
Otter Creek	3	40	4-Oct-96	5.6	2.0	5.6	11.0	18.0	22.0	17.0
Otter Creek	3	50	4-Oct-96	4.8	3.0	4.8	22.0	15.0	17.0	18.0
Otter Creek	3	60	4-Oct-96	5.0	2.0	4.0	10.0	9.0	11.0	10.0
Otter Creek	3	70	4-Oct-96	6.8	1.5	5.8	5.0	11.0	11.0	9.0
Otter Creek	3	80	4-Oct-96	5.8	1.0	5.8	16.0	12.0	24.0	17.3
Otter Creek	3	90	4-Oct-96	8.0	1.5	3.1	24.0	35.0	20.0	26.3
Otter Creek	3	100	4-Oct-96	6.7	2.0	6.7	19.0	17.0	19.0	18.3
Otter Creek	4	0	4-Oct-96	4.6	3.0	4.6	43.0	70.0	70.0	61.0
Otter Creek	4	10	4-Oct-96	4.2	3.0	3.2	22.0	32.0	31.0	28.3
Otter Creek	4	20	4-Oct-96	3.7	3.0	3.7	23.0	36.0	31.0	30.0
Otter Creek	4	30	4-Oct-96	4.3	3.0	3.1	22.0	24.0	12.0	19.3
Otter Creek	4	40	4-Oct-96	3.3	3.0	2.5	21.0	39.0	31.0	30.3
Otter Creek	4	50	4-Oct-96	3.4	3.0	2.5	12.0	17.0	11.0	13.3
Otter Creek	4	60	4-Oct-96	4.4	3.0	3.2	27.0	32.0	40.0	33.0
Otter Creek	4	70	4-Oct-96	2.4	3.0	1.9	23.0	31.0	23.0	25.7
Otter Creek	4	80	4-Oct-96	3.1	3.0	3.1	15.0	21.0	17.0	17.7
Otter Creek	4	90	4-Oct-96	3.9	3.0	3.9	8.0	11.0	8.0	9.0
Otter Creek	4	100	4-Oct-96	2.9	3.0	2.9	14.0	14.0	6.0	11.3
Otter Creek	5	0	3-Oct-96	6.8	1.0	6.8	29.0	51.0	50.0	43.3
Otter Creek	5	10	3-Oct-96	6.3	0.9	6.3	31.0	33.0	37.0	33.7
Otter Creek	5	20	3-Oct-96	7.6	0.8	6.2	85.0	98.0	80.0	87.7
Otter Creek	5	30	3-Oct-96	7.2	0.8	7.2	69.0	59.0	51.0	59.7
Otter Creek	5	40	3-Oct-96	5.2	0.9	4.5	21.0	13.0	17.0	17.0
Otter Creek	5	50	3-Oct-96	5.5	0.8	3.5	21.0	27.0	28.0	25.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Otter Creek	5	60	3-Oct-96	3.7	0.8	3.3	8.0	8.0	13.0	9.7
Otter Creek	5	70	3-Oct-96	3.6	1.0	2.5	17.0	25.0	28.0	23.3
Otter Creek	5	80	3-Oct-96	4.4	1.0	3.9	28.0	15.0	17.0	20.0
Otter Creek	5	90	3-Oct-96	6.7	1.5	5.7	12.0	13.0	10.0	11.7
Otter Creek	5	100	3-Oct-96	10.0	3.0	9.0	79.0	66.0	60.0	68.3
Otter Creek	6	0	3-Oct-96	1.6	1.0	1.6	7.0	10.0	14.0	10.3
Otter Creek	6	10	3-Oct-96	4.7	1.0	4.7	12.0	12.0	15.0	13.0
Otter Creek	6	20	3-Oct-96	2.8	1.0	2.8	7.0	8.0	10.0	8.3
Otter Creek	6	30	3-Oct-96	3.2	1.0	3.2	24.0	28.0	30.0	27.3
Otter Creek	6	40	3-Oct-96	1.9	1.0	1.9	7.0	11.0	9.0	9.0
Otter Creek	6	50	3-Oct-96	2.2	1.0	2.2	15.0	14.0	8.0	12.3
Otter Creek	6	60	3-Oct-96	1.2	1.0	1.2	12.0	14.0	12.0	12.7
Otter Creek	6	70	3-Oct-96	1.5	1.0	1.5	10.0	12.0	7.0	9.7
Otter Creek	6	80	3-Oct-96	2.0	1.0	2.0	5.0	5.0	8.0	6.0
Otter Creek	6	90	3-Oct-96	2.9	1.0	2.9	24.0	15.0	14.0	17.7
Otter Creek	6	100	3-Oct-96	2.4	1.0	2.4	18.0	14.0	12.0	14.7

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Otter Creek	1	0	9-Oct-96	0		0	
Otter Creek	1	10	9-Oct-96	0		0	
Otter Creek	1	20	9-Oct-96	0		0	
Otter Creek	1	30	9-Oct-96	0		0	
Otter Creek	1	40	9-Oct-96	0		0	
Otter Creek	1	50	9-Oct-96	0		0	
Otter Creek	1	60	9-Oct-96	0		0	
Otter Creek	1	70	9-Oct-96	0		0	
Otter Creek	1	80	9-Oct-96	0		0	
Otter Creek	1	90	9-Oct-96	0		0	
Otter Creek	1	100	9-Oct-96	0		0	
Otter Creek	2	0	2-Oct-96	40	<i>Populus trichocarpa</i>	0	
Otter Creek	2	10	2-Oct-96	50	<i>Populus trichocarpa</i>	0	
Otter Creek	2	20	2-Oct-96	40	<i>Populus trichocarpa</i>	0	
Otter Creek	2	30	2-Oct-96	5	<i>Populus trichocarpa</i>	0	
Otter Creek	2	40	2-Oct-96	2	<i>Populus trichocarpa</i>	10	<i>Cornus stolonifera</i>
Otter Creek	2	50	2-Oct-96	0		10	<i>Cornus stolonifera</i> <i>Populus tremuloides</i>
Otter Creek	2	60	2-Oct-96	0		10	<i>Cornus stolonifera</i>
Otter Creek	2	70	2-Oct-96	0		2	<i>Cornus stolonifera</i>
Otter Creek	2	80	2-Oct-96	0		20	<i>Cornus stolonifera</i>
Otter Creek	2	90	2-Oct-96	0		20	<i>Cornus stolonifera</i>
Otter Creek	2	100	2-Oct-96	0		20	<i>Cornus stolonifera</i>
Otter Creek	3	0	4-Oct-96	0		1	grass
Otter Creek	3	10	4-Oct-96	0		5	<i>Salix sp.</i>
Otter Creek	3	20	4-Oct-96	0		20	<i>Salix sp.</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Otter Creek	3	30	4-Oct-96	0		5	<i>Salix sp.</i>
Otter Creek	3	40	4-Oct-96	0		10	<i>Salix sp.</i>
Otter Creek	3	50	4-Oct-96	0		5	<i>Salix sp.</i>
Otter Creek	3	60	4-Oct-96	0		5	<i>Salix sp.</i>
Otter Creek	3	70	4-Oct-96	0		40	<i>Salix sp.</i>
Otter Creek	3	80	4-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Otter Creek	3	90	4-Oct-96	0		45	<i>Alnus sinuata</i> <i>Salix sp.</i>
Otter Creek	3	100	4-Oct-96	0		40	<i>Salix sp.</i>
Otter Creek	4	0	4-Oct-96	0		30	<i>Salix sp.</i>
Otter Creek	4	10	4-Oct-96	0		30	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Otter Creek	4	20	4-Oct-96	0		40	<i>Cornus stolonifera</i>
Otter Creek	4	30	4-Oct-96	0		80	<i>Alnus sinuata</i>
Otter Creek	4	40	4-Oct-96	0		40	<i>Salix sp.</i>
Otter Creek	4	50	4-Oct-96	0		40	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Otter Creek	4	60	4-Oct-96	0		60	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Otter Creek	4	70	4-Oct-96	0		30	<i>Alnus sinuata</i> <i>Salix sp.</i>
Otter Creek	4	80	4-Oct-96	0		50	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Otter Creek	4	90	4-Oct-96	0		40	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Otter Creek	4	100	4-Oct-96	0		50	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Otter Creek	5	0	3-Oct-96	0		20	<i>Salix sp.</i>
Otter Creek	5	10	3-Oct-96	0		20	<i>Salix sp.</i>
Otter Creek	5	20	3-Oct-96	0		10	<i>Salix sp.</i>
Otter Creek	5	30	3-Oct-96	10	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Otter Creek	5	40	3-Oct-96	0		65	<i>Salix sp.</i>
Otter Creek	5	50	3-Oct-96	10	<i>Picea sitchensis</i>	80	<i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Otter Creek	5	60	3-Oct-96	0		40	<i>Salix sp.</i>
Otter Creek	5	70	3-Oct-96	0		10	<i>Salix sp.</i>
Otter Creek	5	80	3-Oct-96	0		40	<i>Salix sp.</i>
Otter Creek	5	90	3-Oct-96	10	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Otter Creek	5	100	3-Oct-96	10	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Otter Creek	6	0	3-Oct-96	0		90	<i>Salix sp.</i>
Otter Creek	6	10	3-Oct-96	0		90	<i>Salix sp.</i>
Otter Creek	6	20	3-Oct-96	0		80	<i>Salix sp.</i>
Otter Creek	6	30	3-Oct-96	0		60	<i>Salix sp.</i>
Otter Creek	6	40	3-Oct-96	0		20	<i>Salix sp.</i>
Otter Creek	6	50	3-Oct-96	0		80	<i>Salix sp.</i>
Otter Creek	6	60	3-Oct-96	0		70	<i>Salix sp.</i>
Otter Creek	6	70	3-Oct-96	0		80	<i>Salix sp.</i>
Otter Creek	6	80	3-Oct-96	0		90	<i>Salix sp.</i>
Otter Creek	6	90	3-Oct-96	0		50	<i>Salix sp.</i>
Otter Creek	6	100	3-Oct-96	0		60	<i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Otter Creek	1	0	9-Oct-96	0	0			50	40	10	
Otter Creek	1	10	9-Oct-96	0	0			50	40	10	
Otter Creek	1	20	9-Oct-96	0	0			50	40	10	
Otter Creek	1	30	9-Oct-96	0	0			50	40	10	
Otter Creek	1	40	9-Oct-96	0	0			50	40	10	
Otter Creek	1	50	9-Oct-96	0	0			50	40	10	
Otter Creek	1	60	9-Oct-96	0	0			50	40	10	
Otter Creek	1	70	9-Oct-96	0	0			50	40	10	
Otter Creek	1	80	9-Oct-96	0	0			50	40	10	
Otter Creek	1	90	9-Oct-96	0	0			50	40	10	
Otter Creek	1	100	9-Oct-96	0	0			50	40	10	
Otter Creek	2	0	2-Oct-96	1	0		1	50	40	9	
Otter Creek	2	10	2-Oct-96	1	0			40	50	6	4
Otter Creek	2	20	2-Oct-96	1	0			40	40	12	8
Otter Creek	2	30	2-Oct-96	0	0			25	40	25	10
Otter Creek	2	40	2-Oct-96	0	0			20	60	12	8
Otter Creek	2	50	2-Oct-96	0	0			20	60	12	8
Otter Creek	2	60	2-Oct-96	0	0			40	40	12	8
Otter Creek	2	70	2-Oct-96	0	0			30	40	20	10
Otter Creek	2	80	2-Oct-96	0	0			40	30	20	10
Otter Creek	2	90	2-Oct-96	0	0			30	40	20	10
Otter Creek	2	100	2-Oct-96	0	0			30	40	20	10
Otter Creek	3	0	4-Oct-96	0	0			70	30		
Otter Creek	3	10	4-Oct-96	0	0			70	30		
Otter Creek	3	20	4-Oct-96	0	0			60	40		

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Otter Creek	3	30	4-Oct-96	0	0			60	40		
Otter Creek	3	40	4-Oct-96	0	0			70	30		
Otter Creek	3	50	4-Oct-96	0	0			70	30		
Otter Creek	3	60	4-Oct-96	1	5		10	90			
Otter Creek	3	70	4-Oct-96	1	0				50	40	10
Otter Creek	3	80	4-Oct-96	0	0				75	20	5
Otter Creek	3	90	4-Oct-96	1	0				80	20	
Otter Creek	3	100	4-Oct-96	0	0			5	70	24	1
Otter Creek	4	0	4-Oct-96	0	0		70		20	6	4
Otter Creek	4	10	4-Oct-96	0	0		80		10	10	
Otter Creek	4	20	4-Oct-96	0	0		40		30	30	
Otter Creek	4	30	4-Oct-96	2	0		30		50	20	
Otter Creek	4	40	4-Oct-96	1	5		30		50	20	
Otter Creek	4	50	4-Oct-96	0	0		40		50	10	
Otter Creek	4	60	4-Oct-96	2	5		50		40	10	
Otter Creek	4	70	4-Oct-96	0	0		50		30	20	
Otter Creek	4	80	4-Oct-96	0	0	30		20	20	30	
Otter Creek	4	90	4-Oct-96	0	0				80	20	
Otter Creek	4	100	4-Oct-96	0	0				95		5
Otter Creek	5	0	3-Oct-96	0	0				5	20	75
Otter Creek	5	10	3-Oct-96	1	5				10	20	70
Otter Creek	5	20	3-Oct-96	0	0				10	20	70
Otter Creek	5	30	3-Oct-96	0	0				10	20	70
Otter Creek	5	40	3-Oct-96	0	0			40	30	8	22
Otter Creek	5	50	3-Oct-96	1	10	20		30	30	5	15

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Otter Creek	5	60	3-Oct-96	0	0		5	30	45	5	15
Otter Creek	5	70	3-Oct-96	0	0			30	40	8	22
Otter Creek	5	80	3-Oct-96	0	0			40	30	8	22
Otter Creek	5	90	3-Oct-96	0	0			50	30	5	15
Otter Creek	5	100	3-Oct-96	0	0			50	30	5	15
Otter Creek	6	0	3-Oct-96	1	10			5	35		60
Otter Creek	6	10	3-Oct-96	1	10			5	35		60
Otter Creek	6	20	3-Oct-96	0	0			5	35		60
Otter Creek	6	30	3-Oct-96	0	0			5	35		60
Otter Creek	6	40	3-Oct-96	3	15			5	35		60
Otter Creek	6	50	3-Oct-96	0	0			5	35		60
Otter Creek	6	60	3-Oct-96	0	0			5	35		60
Otter Creek	6	70	3-Oct-96	0	0			20	30		50
Otter Creek	6	80	3-Oct-96	0	0			5	35		60
Otter Creek	6	90	3-Oct-96	0	0			5	35		60
Otter Creek	6	100	3-Oct-96	0	0			5	35		60

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Otter Creek	1	0	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	10	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	20	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	30	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	40	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	50	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	60	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	70	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	80	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	90	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	1	100	L: Sloping cobble to flood plane: grass, <i>Alnus sinuata</i> , <i>Pseudotsuga menziesii</i> , <i>Populus trichocarpa</i> , <i>Cornus stolonifera</i> . R: Slope (10%) to grass flood plane to road at 2m vertical.
Otter Creek	2	0	L: Sloping cobble/gravel/fines to vegetation. R: Slope to road (>60%), 4m horizontal. Few rooted shrubs on bank: <i>Cornus stolonifera</i> , <i>Cirsium undulatum</i> .
Otter Creek	2	10	L: Slope (45%) to farm/field. Few <i>Populus tremuloides</i> . R: Slightly cut, sloughing, silty. Flood plane: grass field.
Otter Creek	2	20	L: Sloping (45%) cobble/gravel/fines to vegetation. <i>Populus trichocarpa</i> (four). R: Slightly cut, silty, sloughing, grass and <i>Symphoricarpos albus</i> .
Otter Creek	2	30	L: Banks appear built up mechanically, no vegetation, sloped. Trees sloughing ( <i>Populus trichocarpa</i> ). R: Slope, (30%) vegetated to road: grass, <i>Cornus stolonifera</i> .
Otter Creek	2	40	L: Slope (40%) to field, vegetated with small shrubs, grass. R: Cut bank with sloughing grass. OH and flood plane: <i>Cornus stolonifera</i> , <i>P. trichocarpa</i> , and <i>P. tremuloides</i> .
Otter Creek	2	50	L: Slope (40%) to field, vegetated with small shrubs, grass. R: Slope (20%) to road, vegetation from within wetted width to road.
Otter Creek	2	60	L: Sloped cobble. Appears to be old stream bed with riparian cover and juvenile <i>P. trichocarpa</i> within width. R: Slope (20%) to road, vegetation from within wetted width to road.
Otter Creek	2	70	L: Sloped cobble. Appears to be old stream bed with riparian cover, however, with juvenile <i>P. trichocarpa</i> within width. R: Slope at 45% for 5m then 10m horizontal to road. Far side of road: Steep unstable slope (slide).
Otter Creek	2	80	L: Cut bank with <i>Cornus stolonifera</i> OH. Channel appears to have been dredged. R: Cobble slope with grass and <i>Cornus stolonifera</i> to road.
Otter Creek	2	90	L: Cut bank with <i>Cornus stolonifera</i> OH. Channel appears to have been dredged. R: Cobble slope with grass and <i>Cornus stolonifera</i> to road.
Otter Creek	2	100	L: Cut bank with <i>Cornus stolonifera</i> OH. Channel appears to have been dredged. R: Cobble slope with grass and <i>Cornus stolonifera</i> to road.
Otter Creek	3	0	L: Bridge supports (LWD), with pooling beneath. R: Bridge supports (LWD), no pooling.
Otter Creek	3	10	L: Slightly cut high bank (3m vertical) with grass and <i>Salix</i> sp. OH. Few riprap boulders stabilizing bridge. R: Slope to flood plane: pasture. Grass along bank has been grazed, but little cattle damage apparent.
Otter Creek	3	20	L: Cut bank to <i>Salix</i> sp. OH. (submerged at present). R: Sloped bank with submerged <i>Salix</i> sp. (2m horizontal).

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Otter Creek	3	30	L: Slightly cut high bank (3m vertical) with grass and <i>Salix</i> sp. OH. R: Rooted grass in wetted width to <i>Salix</i> sp. (1.5m horizontal) slope to 3m.
Otter Creek	3	40	L: Slightly cut high bank (3m vertical) with <i>Salix</i> sp. OH, grass immersed in wetted width. R: Grass in wetted width to 0.5m, slope to 3m.
Otter Creek	3	50	L: Slightly cut high bank (3m vertical) with grass and <i>Salix</i> sp. OH. R: Grass in wetted width to 0.5m, slope to 3m.
Otter Creek	3	60	L: Slightly cut bank, grass and <i>Salix</i> sp. OH. R: Slightly cut bank sloping (3m vertical) to flood plane: grass, pasture.
Otter Creek	3	70	L: Slightly cut bank, grass and <i>Salix</i> sp. OH. R: Slope to flood plane, LWD (one) atop with small woody debris deposits at base of <i>Alnus sinuata</i> .
Otter Creek	3	80	L: Cut bank (0.2m vertical), with grass, <i>Salix</i> sp. and <i>Alnus sinuata</i> . Bank slopes to old railway tracks. R: Slope to pasture (2%). Flood plane: <i>Salix</i> sp., <i>Equisetum</i> sp. and <i>Cirsium undulatum</i> .
Otter Creek	3	90	L: Slightly undercut bank, <i>Salix</i> sp. OH. <i>Alnus sinuata</i> (one) atop bank. R: Sloped gravel bar to flood plane: pasture.
Otter Creek	3	100	L: Sloped bank. <i>Salix</i> sp. OH. R: Sloped gravel point bar with little vegetation (grass). Slope to flood plane: grass pasture.
Otter Creek	4	0	L: Boulder riprap armoured bank to grass and <i>Cirsium undulatum</i> covered flood plane (3m) to steep rock (slide) slope. R: Slightly cut bank 2.5m vertical with vigorous riparian OH ( <i>Salix</i> sp., <i>Alnus sinuata</i> and <i>Cornus stolonifera</i> ). Path (1m).
Otter Creek	4	10	L: Boulder riprap armoured bank to grass and <i>Cirsium undulatum</i> covered flood plane (3m) to steep rock (slide) slope. R: Slightly cut bank 2.5m vertical with vigorous riparian OH ( <i>Salix</i> sp., <i>Alnus sinuata</i> and <i>Cornus stolonifera</i> ).
Otter Creek	4	20	L: Boulder riprap armoured bank to grass and <i>Cirsium undulatum</i> covered flood plane (3m) to steep rock (slide) slope. R: Slightly cut bank 2.5m vertical with vigorous riparian OH ( <i>Cornus stolonifera</i> ).
Otter Creek	4	30	L: Fallen rock riprap armour to 3m grass flood plane to steep rock slide (>70m vertical). <i>Alnus sinuata</i> . R: Slightly cut bank (2m horizontal) with <i>Salix</i> sp. and <i>Cornus stolonifera</i> OH.
Otter Creek	4	40	L: Fallen rock riprap armour to 3m grass flood plane to steep rock slide (>70m vertical). R: Slightly cut bank (2m horizontal) with <i>Salix</i> sp. and <i>Cornus stolonifera</i> OH.
Otter Creek	4	50	L: Undercut bank (0.10m horiz., 1.5m vert.) with grass OH. to 3m vegetated ( <i>Cirsium undulatum</i> ) flood plane to rock slide. R: Sloping sand deposit with <i>Salix</i> sp., <i>Cornus stolonifera</i> and <i>Alnus sinuata</i> OH.
Otter Creek	4	60	L: Undercut bank (0.10m horiz. and 1.5m vert.) to 2m flood plane to steep fallen rock slope (>60%). R: Slope to flood plane, <i>Cornus stolonifera</i> , <i>Salix</i> sp. and <i>Pseudotsuga menziesii</i> OH.
Otter Creek	4	70	L: Boulder armoured bank to 2m vegetated flood plane to steep fallen rock slope (>60%). R: Slope to slightly cut bank with fallen rock riprap and thick riparian OH.
Otter Creek	4	80	L: Boulder armoured bank to 2m vegetated flood plane to steep fallen rock slope (>60%). R: Slope to slightly cut bank with fallen rock riprap with thick riparian OH.
Otter Creek	4	90	L: Cut with boulders along bank and grass OH. Sand deposit from 80-90m. R: Slope with extensive <i>Cornus stolonifera</i> OH. Small woody debris deposits caught in shrubs.
Otter Creek	4	100	L: Cut bank (1m vertical) with <i>Salix</i> sp., grass and <i>Cirsium undulatum</i> OH. R: Slope to <i>Cornus stolonifera</i> OH. at 1m vertical.
Otter Creek	5	0	L: Slightly cut bank, slope to road. <i>Salix</i> sp. OH. Wildlife trail into creek. R: Slope to field (pasture), cattle disturbance, silty bank. <i>Salix</i> sp.
Otter Creek	5	10	L: Slightly cut bank with <i>Salix</i> sp. OH. R: Slope to field (pasture), cattle disturbance, silty bank. <i>Salix</i> sp.
Otter Creek	5	20	L: Bank slopes to road with small woody debris (dry and unstable). R: Slope to field (pasture), cattle disturbance, silty bank. <i>Salix</i> sp.
Otter Creek	5	30	L: Slightly cut with <i>Salix</i> sp. OH. Sandy silt deposited here. R: Bank slopes to field, in some areas grass submerged. Cattle crossing, (disturbance).
Otter Creek	5	40	L: Slightly cut with <i>Salix</i> sp. OH. Sandy silt deposited here. R: Bank slopes to field, in some areas grass submerged. Cattle crossing, (disturbance).
Otter Creek	5	50	L: Cut bank (vertical) to road with <i>Salix</i> sp. and grass OH. R: Gravel/sand/silt (mud) to flood plane: grass field, evidence of cattle.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Otter Creek	5	60	L: Cut bank with <i>Salix</i> sp. OH. R: Sloping to slightly cut bank to flood plane: grass field.
Otter Creek	5	70	L: Undercut bank with grass and <i>Salix</i> sp. OH. R: Sloping gravel to flood plane: grass field.
Otter Creek	5	80	L: Slope to road (at 8m horizontal) with <i>Salix</i> sp. OH. R: Bedrock, cut with <i>Salix</i> sp. OH. Flood plane: grass field.
Otter Creek	5	90	L: Sloping to road at 5m vertical, <i>Salix</i> sp. and grass OH. R: Slope to grass field.
Otter Creek	5	100	L: Slope to road, little vegetation. Dry. Pool immediately downstream of culvert, odor. R: Slope to road, little vegetation. Dry.
Otter Creek	6	0	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	10	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. At 5m: stagnant back channel (1m x 1m). R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	20	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	30	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. At 30-40m: cattle crossing path. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. At 30-40m: cattle crossing path.
Otter Creek	6	40	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. At 30-40m: cattle crossing path. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. At 30-40m: cattle crossing path.
Otter Creek	6	50	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	60	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	70	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	80	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	90	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.
Otter Creek	6	100	L: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH. R: Undercut at 0.2m horizontal with grass and <i>Salix</i> sp. OH.



STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Podunk Creek	1	0	26-Sep-96	9.7	0.4	5.7	30.0	21.0	6.0	19.0
Podunk Creek	1	10	26-Sep-96	8.9	1.2	4.3	17.0	27.0	50.0	31.3
Podunk Creek	1	20	26-Sep-96	6.6	0.6	3.1	23.0	8.0	17.0	16.0
Podunk Creek	1	30	26-Sep-96	8.2	0.6	3.2	19.0	8.0	24.0	17.0
Podunk Creek	1	40	26-Sep-96	11.4	1.4	2.7	12.0	32.0	40.0	28.0
Podunk Creek	1	50	26-Sep-96	10.9	1.0	3.0	9.0	27.0	38.0	24.7
Podunk Creek	1	60	26-Sep-96	9.2	0.4	4.6	27.0	26.0	21.0	24.7
Podunk Creek	1	70	26-Sep-96	11.1	0.5	3.2	11.0	8.0	1.0	6.7
Podunk Creek	1	80	26-Sep-96	9.7	0.5	2.0	23.0	21.0	16.0	20.0
Podunk Creek	1	90	26-Sep-96	7.1	0.6	1.0	8.0			8.0
Podunk Creek	1	100	26-Sep-96	9.1	0.6	2.6	11.0	10.0		10.5
Podunk Creek	2	0	26-Sep-96	5.4	0.6	3.8	7.0	16.0	42.0	21.7
Podunk Creek	2	10	26-Sep-96	6.5	0.7	4.4	8.0	21.0	31.0	20.0
Podunk Creek	2	20	26-Sep-96	5.9	0.4	5.3	10.0	15.0	4.0	9.7
Podunk Creek	2	30	26-Sep-96	4.9	0.5	4.0	23.0	25.0	20.0	22.7
Podunk Creek	2	40	26-Sep-96	5.4	0.4	5.4	12.0	18.0	16.0	15.3
Podunk Creek	2	50	26-Sep-96	4.7	0.5	4.7	8.0	9.0	11.0	9.3
Podunk Creek	2	60	26-Sep-96	4.1	0.3	4.1	6.0	12.0	22.0	13.3
Podunk Creek	2	70	26-Sep-96	2	0.4	3.7	6.0	8.0	11.0	8.3
Podunk Creek	2	80	26-Sep-96	6.2	1.0	6.2	4.0	41.0	27.0	24.0
Podunk Creek	2	90	26-Sep-96	5.0	0.3	5.0	3.0	10.0	8.0	7.0
Podunk Creek	2	100	26-Sep-96	4.7	0.2	4.2	13.0	11.0	16.0	13.3
Podunk Creek	3	0	27-Sep-96	3.1	0.3	1.6	19.0	15.0	7.0	13.7

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Podunk Creek	3	10	27-Sep-96	5.4	0.3	2.8	21.0	18.0	15.0	18.0
Podunk Creek	3	20	27-Sep-96	4.0	0.2	4.0	9.0	8.0	17.0	11.3
Podunk Creek	3	30	27-Sep-96	5.3	0.4	3.3	28.0	27.0	22.0	25.7
Podunk Creek	3	40	27-Sep-96	3.4	0.5	3.4	11.0	17.0	14.0	14.0
Podunk Creek	3	50	27-Sep-96	3.1	0.3	3.1	10.0	11.0	8.0	9.7
Podunk Creek	3	60	27-Sep-96	2.6	0.3	2.6	6.0	13.0	11.0	10.0
Podunk Creek	3	70	27-Sep-96	5.5	0.3	2.3	9.0	13.0	15.0	12.3
Podunk Creek	3	80	27-Sep-96	3.6	0.0	2.6	28.0	30.0	13.0	23.7
Podunk Creek	3	90	27-Sep-96	202.0	0.2	2.2	10.0	14.0	17.0	13.7
Podunk Creek	3	100	27-Sep-96	3.2	0.2	1.4	18.0	16.0	12.0	15.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Podunk Creek	1	0	26-Sep-96	0		12	<i>Salix sp.</i>
Podunk Creek	1	10	26-Sep-96	5	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Podunk Creek	1	20	26-Sep-96	20	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Podunk Creek	1	30	26-Sep-96	30	<i>Pinus contorta</i>	10	<i>Salix sp.</i>
Podunk Creek	1	40	26-Sep-96	20	<i>Picea sitchensis</i> <i>Picea sitchensis</i>	10	<i>Salix sp.</i> grasses
Podunk Creek	1	50	26-Sep-96	50	<i>Pinus contorta</i> <i>Picea sitchensis</i>	20	<i>Salix sp.</i> <i>Symphoricarpos albus</i>
Podunk Creek	1	60	26-Sep-96	5	<i>Pinus contorta</i> <i>Picea sitchensis</i>	20	<i>Salix sp.</i> <i>Symphoricarpos albus</i>
Podunk Creek	1	70	26-Sep-96	5	<i>Picea sitchensis</i>	15	<i>Salix sp.</i>
Podunk Creek	1	80	26-Sep-96	10	<i>Picea sitchensis</i>	30	<i>Salix sp.</i>
Podunk Creek	1	90	26-Sep-96	25	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Podunk Creek	1	100	26-Sep-96	0		25	<i>Salix sp.</i>
Podunk Creek	2	0	26-Sep-96	5	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Podunk Creek	2	10	26-Sep-96	7	<i>Pinus contorta</i> <i>Picea sitchensis</i> <i>Pinus contorta</i>	15	<i>Salix sp.</i> grass
Podunk Creek	2	20	26-Sep-96	0		5	<i>Salix sp.</i>
Podunk Creek	2	30	26-Sep-96	0		5	<i>Salix sp.</i>
Podunk Creek	2	40	26-Sep-96	10	<i>Picea sitchensis</i> <i>Pinus contorta</i>	5	<i>Salix sp.</i> grass
Podunk Creek	2	50	26-Sep-96	5	<i>Picea sitchensis</i> <i>Pinus contorta</i>	5	<i>Salix sp.</i> grass
Podunk Creek	2	60	26-Sep-96	10	<i>Picea sitchensis</i> <i>Pinus contorta</i>	5	<i>Salix sp.</i> <i>Lupinus sp.</i>
Podunk Creek	2	70	26-Sep-96	2	<i>Picea sitchensis</i>	5	<i>Salix sp.</i>
Podunk Creek	2	80	26-Sep-96	10	<i>Pinus contorta</i> <i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Podunk Creek	2	90	26-Sep-96	10	<i>Picea sitchensis</i>	15	<i>Salix sp.</i>
Podunk Creek	2	100	26-Sep-96	10	<i>Picea sitchensis</i> <i>Pinus contorta</i>	10	<i>Salix sp.</i> grass
Podunk Creek	3	0	27-Sep-96	0		2	<i>Salix sp.</i> grass

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Podunk Creek	3	10	27-Sep-96	0		20	<i>Salix sp.</i> grass
Podunk Creek	3	20	27-Sep-96	0		2	<i>Salix sp.</i>
Podunk Creek	3	30	27-Sep-96	10	<i>Picea sitchensis</i>	15	<i>Salix sp.</i>
Podunk Creek	3	40	27-Sep-96	5	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Podunk Creek	3	50	27-Sep-96	5	<i>Picea sitchensis</i>	15	<i>Salix sp.</i> <i>Pinus sitchensis</i> (juv)
Podunk Creek	3	60	27-Sep-96	10	<i>Picea sitchensis</i>	20	<i>Salix sp.</i>
Podunk Creek	3	70	27-Sep-96	0		20	<i>Salix sp.</i>
Podunk Creek	3	80	27-Sep-96	0		40	<i>Salix sp.</i>
Podunk Creek	3	90	27-Sep-96	0		15	<i>Salix sp.</i>
Podunk Creek	3	100	27-Sep-96	0		20	<i>Salix sp.</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Podunk Creek	1	0	26-Sep-96	3	5			2	30	68	<1
Podunk Creek	1	10	26-Sep-96	0				2	70	28	
Podunk Creek	1	20	26-Sep-96	1	2				40	60	<1
Podunk Creek	1	30	26-Sep-96	6	50			10	60	30	
Podunk Creek	1	40	26-Sep-96	12	25			10	40	50	
Podunk Creek	1	50	26-Sep-96	4	30			1	49	50	<1
Podunk Creek	1	60	26-Sep-96	3	10			1	60	39	
Podunk Creek	1	70	26-Sep-96	9	40			20	60	20	
Podunk Creek	1	80	26-Sep-96	11	20			30	40	20	10
Podunk Creek	1	90	26-Sep-96	2	1				80	20	
Podunk Creek	1	100	26-Sep-96	7	20			10	70	20	
Podunk Creek	2	0	26-Sep-96	0		20	10	30	40		<1
Podunk Creek	2	10	26-Sep-96	1	8		20	40	30	10	
Podunk Creek	2	20	26-Sep-96	0		5	5	50	35	5	<1
Podunk Creek	2	30	26-Sep-96	2 (med)	6	30	20	40	10		
Podunk Creek	2	40	26-Sep-96	0		30	20	30	10		
Podunk Creek	2	50	26-Sep-96	0		30	10	40	20		
Podunk Creek	2	60	26-Sep-96	0		40	10	30	20		
Podunk Creek	2	70	26-Sep-96	1	0	45	5	20	30		
Podunk Creek	2	80	26-Sep-96	0		85	5	8	2		
Podunk Creek	2	90	26-Sep-96	0		100					
Podunk Creek	2	100	26-Sep-96	0		90			20		
Podunk Creek	3	0	27-Sep-96	0				40	40	20	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Podunk Creek	3	10	27-Sep-96	0		40		20	30	10	
Podunk Creek	3	20	27-Sep-96	0				20	60	20	
Podunk Creek	3	30	27-Sep-96	0		50		10	20	20	
Podunk Creek	3	40	27-Sep-96	0		50		20	20	10	
Podunk Creek	3	50	27-Sep-96	0		50		20	20	10	
Podunk Creek	3	60	27-Sep-96	0		50	1	30	19		
Podunk Creek	3	70	27-Sep-96	2 (sm.)	2			60	30	10	
Podunk Creek	3	80	27-Sep-96	0				40	20	30	10
Podunk Creek	3	90	27-Sep-96	1	5			40	20	30	10
Podunk Creek	3	100	27-Sep-96	0				10	60	30	<1

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Podunk Creek	1	0	L: Gravel slope to cutbank 0.5m deep with moss and roots sloughing almost completely over. R: Slope is 1.5% gravel/sand bank for 2.1m to vegetation: <i>Lupinus</i> sp., <i>Salix</i> sp., <i>Adenocaulon bicolor</i> .
Podunk Creek	1	10	L: Bank is the confluence of small tributary with log jam at mouth and pooling upstream. Gravel bar at upstream side. R: Gravel, sand point bar, vegetation up slope to flood plane. <i>Salix</i> sp. and <i>Lupinus</i> sp.
Podunk Creek	1	20	L: Point bar with built up sm. woody debris (old), slope to flood plane: stand of <i>Pinus contorta</i> and <i>Picea sitchensis</i> . R: At 18m: Gravel / sand point bar. At 22m: bank undercut to 2m, with rootwad OH (40m <i>Picea sitchensis</i> ).
Podunk Creek	1	30	L: Cobble/gravel slope to flood plane: stand of <i>Pinus contorta</i> and <i>Picea sitchensis</i> . R: Undercut rootwads with moss OH sloughing into stream but still allowing for fish passage beneath. Leaning snag.
Podunk Creek	1	40	L: Sand/gravel/cobble point bar, to vegetation on sand/cobble then flood plane with 1% slope and LWD embedded in point bar. <i>Salix</i> sp. <i>Lupinus</i> sp. appear to be growing out on pointbar. R: Undercut with OH moss and grass, bank is sloughing. Logs (5-10m) form part of bank then point into stream at jam, Numerous pieces of small woody debris deposited. Excellent fish habitat.
Podunk Creek	1	50	L: Cobble gravel point bar to vegetation, some new veg. on bar. Flood plane: <i>Pinus contorta</i> and <i>Picea sitchensis</i> stand. R: Undercut (1m horizontal) banks sloughing, grass OH. Excellent riparian cover.
Podunk Creek	1	60	L: Cut bank, flood plane slopes <1%. <i>Salix</i> sp. OH, moss and grass. R: Undercut, bank beneath has sloughed away so that edges of bank appear rounded and mossy. Slope of flood plane <1%.
Podunk Creek	1	70	L: Sand/gravel slope of 2% to vegetation. <i>Salix</i> sp and grass OH. Flood plane: <i>Picea sitchensis</i> and <i>Pinus contorta</i> . R: (Island) Undercut sand bank with grass OH, bank is eroding.
Podunk Creek	1	80	L: Sand/gravel slope of <1% to vegetation. <i>Salix</i> sp. Flood plane: <i>Picea sitchensis</i> and <i>Pinus contorta</i> . R: (Island) Sloping cobble / gravel, no vegetation.
Podunk Creek	1	90	L: Undercut with <i>Salix</i> sp. OH. Sand with moss layer. R: (Island) Sloping gravel, no vegetation.
Podunk Creek	1	100	L: Sand (1m horizontal dist.) to <i>Salix</i> sp., sloping to stands of <i>Picea sitchensis</i> and <i>Pinus contorta</i> . R: (Island) Sloping (<1%) gravel, no vegetation.
Podunk Creek	2	0	L: Bedrock, 50% slope, grass and moss, small <i>Salix</i> sp. No flood plane, extremely confined. <i>Picea sitchensis</i> and <i>Pinus contorta</i> (all ages) up slope. R: Cobble/gravel few boulders, dry stream bed. Slope to cutbank with moss OH. (0.3m vertical). Mature <i>Salix</i> sp. OH, dry.
Podunk Creek	2	10	L: Cut bank with moss sloughing, root OH, small woody debris deposit. > 50% slope at 1m. <i>P. contorta</i> , <i>P. sitchensis</i> , <i>Pinus ponderosa</i> . R: Cobble/gravel point bar with grass and moss OH at 0.2m vertical and 0.25m horizontal, dry.
Podunk Creek	2	20	L: Cutbank, sand and fines with moss and riparian OH. Some boulder and bedrock, 30% slope with OH <i>Salix</i> sp. FP: 5m. R: Cutbank(0.2m) with OH vegetation. Above 1.4m is flood plane: 20m before sloping to road.
Podunk Creek	2	30	L: Boulder bank with some cut areas, moss. Slope is 30%. Vegetation is grass, <i>Salix</i> sp. <i>P. sitchensis</i> , <i>P. contorta</i> and <i>P. ponderosa</i> . R: Steep, moss over boulder bank, some complex areas, <i>Salix</i> sp. and <i>P. sitchensis</i> on bank. Channel is confined.
Podunk Creek	2	40	L: Cut areas, LWD deep in bank with moss overgrowth (0.10m above water level). <i>Salix</i> sp. OH. R: 1.4m bedrock bank with moss overgrowth and <i>Salix</i> sp. OH. Some grass.
Podunk Creek	2	50	L: Boulder bank with some cut areas, moss. Slope is 30%. Vegetation is grass, <i>Salix</i> sp. <i>P. sitchensis</i> , <i>P. contorta</i> and <i>P. ponderosa</i> . R: Steep, moss over boulder bank, some complex areas, <i>Salix</i> sp. and <i>P. sitchensis</i> on bank. Channel is confined.
Podunk Creek	2	60	L: 25% slope to cutbank 0.2m high. Vegetation is grass, moss, <i>Salix</i> sp., <i>P. ponderosa</i> , <i>P. sitchensis</i> , and <i>P. contorta</i> . R: Bedrock - boulder bank with moss cover sloughing. Very moist habitat. Algae on boulder/cobble on right bank.
Podunk Creek	2	70	L: Gravel deposit (stream bed), 45% slope to vegetation and cutbank with little <i>Salix</i> sp. OH. Dry. R: 0.6m bank, moss sloughed over completely, making up entire bank, some cutbank areas with <i>Salix</i> sp. OH.
Podunk Creek	2	80	L: Bedrock slope for 2m then 45% incline with grass, moss and <i>Pinus ponderosa</i> . R: 30% incline, mostly mature <i>Salix</i> sp. <i>P. ponderosa</i> and <i>P. sitchensis</i> .
Podunk Creek	2	90	L: Steep, moss and grass banks sloughing over bedrock, moss to water level. R: Cutbank and OH, 0.2m undercut with <i>Salix</i> sp. and grass OH.
Podunk Creek	2	100	L: Bedrock to flood plane at 2m. Moss on bedrock. R: Cutbank, moss sloughing, OH riparian vegetation, some gravel (10cm)
Podunk Creek	3	0	L: 3m armoured boulder bank with vegetation at lower 2m: <i>Salix</i> sp. and grass. R: Armoured stream bank (boulder). Grass sloping from 1m from stream to road.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Podunk Creek	3	10	L: Undercut with grass and moss sloughing, <i>Salix</i> sp. and grass. R: Sloping gravel/cobble/sand to old road, <i>Lupinus</i> sp., <i>Salix</i> sp., <i>Anaphalis margaritacea</i> , <i>Equisitum</i> sp., and grass.
Podunk Creek	3	20	L: Cut with moss sloughing, grass and <i>Salix</i> sp. (juv.) OH. Flood plane at 0.6m. R: Sloping gravel, some cobble to road. At 15m: both banks bare for 4m, possibly old road/stream crossing before bridge.
Podunk Creek	3	30	L: Sloped gravel point bar, no vegetation for 1.5 m then moss, grass and <i>P. sitchensis</i> on the flood plane. R: Bedrock, steep slope with moss growth and grass OH.(few). Algae present.
Podunk Creek	3	40	L: Bank is 0.5m cut with moss sloughing and grass OH. Flood plane: moss, <i>Salix</i> sp., grass and few <i>P. sitchensis</i> . R: Bedrock with cobble deposit, some sand, 1.5m to flood plane.
Podunk Creek	3	50	L: Cutbank to 0.4m vert., moss sloughing over, appears rounded. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> (juv) and grass. R: 1m rounded, sloughed moss bank with <i>Salix</i> sp. OH.
Podunk Creek	3	60	L: Sloping cobble (dry stream bed) to cutbank with <i>Salix</i> sp. OH. R: 1m vertical bank, rounded moss sloughing to flood plane with <i>Salix</i> sp.
Podunk Creek	3	70	L: Sloping cobble (dry stream bed) to cutbank with <i>Salix</i> sp. OH. R: 1m vertical bank, rounded moss sloughing to flood plane with <i>Salix</i> sp.
Podunk Creek	3	80	L: Undercut 0.2m, with moss and <i>Salix</i> sp. OH. R: Gravel / Gravel slope to 0.1m undercut bank with <i>Salix</i> sp. OH. Dry.
Podunk Creek	3	90	L: Sloping gravel / cobble bank (10m) to <i>Salix</i> sp. flood plane. R: Cutbank 1m. with <i>Salix</i> sp. and grass OH.
Podunk Creek	3	100	L: 1% slope to flood plane, grass, <i>Lupinus</i> sp., <i>Salix</i> sp. and one <i>P. sitchensis</i> . R: 2m bank with 3 acres flood plane: <i>Salix</i> sp. and <i>P. sitchensis</i> .



STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (cm)
				WIDTH (m)	DEPTH (m)		(cm)			
Spearing Creek	1	0	6-Nov-96	7.5	1.5	4.0	19.0	23.0	15.0	19.0
Spearing Creek	1	10	6-Nov-96	7.4	1.4	2.2	22.0	16.0	10.0	16.0
Spearing Creek	1	20	6-Nov-96	9.6	1.3	4.3	22.0	20.0	16.0	19.3
Spearing Creek	1	30	6-Nov-96	16.3	0.8	5.0	8.0	18.0	12.0	12.7
Spearing Creek	1	40	6-Nov-96	14.0	0.6	9.2	8.0	8.0	8.5	8.2
Spearing Creek	1	50	6-Nov-96	14.3	0.8	8.0	5.0	9.5	10.0	8.2
Spearing Creek	1	60	6-Nov-96	12.0	0.9	7.8	6.0	12.0	13.0	10.3
Spearing Creek	1	70	6-Nov-96	9.5	1.0	6.7	12.0	13.0	17.0	14.0
Spearing Creek	1	80	6-Nov-96	10.0	1.3	6.1	15.0	25.0	11.0	17.0
Spearing Creek	1	90	6-Nov-96	11.8	1.5	5.5	6.5	16.0	16.5	13.0
Spearing Creek	1	100	6-Nov-96	11.0	1.9	4.8	5.0	12.0	22.5	13.2

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Spearing Creek	1	0	6-Nov-96	25	<i>Populus trichocarpa</i>	10	<i>Cornus stolonifera</i> <i>Salix sp.</i>
Spearing Creek	1	10	6-Nov-96	35	<i>Populus trichocarpa</i>	20	<i>Cornus stolonifera</i> <i>Rosa sp.</i>
Spearing Creek	1	20	6-Nov-96	40	<i>Populus trichocarpa</i>	20	<i>Cornus stolonifera</i> <i>Rosa sp.</i>
Spearing Creek	1	30	6-Nov-96	20	<i>Populus trichocarpa</i> <i>Populus tremuloides</i>	10	<i>Rosa sp.</i>
Spearing Creek	1	40	6-Nov-96	60	<i>Populus trichocarpa</i> <i>Populus tremuloides</i>	10	<i>Cornus stolonifera</i> <i>Rosa sp.</i>
Spearing Creek	1	50	6-Nov-96	40	<i>Populus trichocarpa</i> <i>P. menziesii</i>	10	<i>Cornus stolonifera</i> <i>Salix sp.</i> grass
Spearing Creek	1	60	6-Nov-96	90	<i>Populus trichocarpa</i>	12	<i>Cornus stolonifera</i>
Spearing Creek	1	70	6-Nov-96	30	<i>Populus trichocarpa</i> <i>Populus tremuloides</i>	10	<i>Salix sp.</i>
Spearing Creek	1	80	6-Nov-96	50	<i>Populus trichocarpa</i> <i>Populus tremuloides</i>	5	<i>Salix sp.</i>
Spearing Creek	1	90	6-Nov-96	40	<i>Populus trichocarpa</i>	5	<i>Salix sp.</i>
Spearing Creek	1	100	6-Nov-96	20	<i>Populus trichocarpa</i>	0	

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Spearing Creek	1	0	6-Nov-96	0	0			30	50	20	
Spearing Creek	1	10	6-Nov-96	1	5			40	40	20	
Spearing Creek	1	20	6-Nov-96	1	0			30	50	20	
Spearing Creek	1	30	6-Nov-96	1	0		5	20	60	15	
Spearing Creek	1	40	6-Nov-96	0	0			10	60	30	
Spearing Creek	1	50	6-Nov-96	0	0				60	40	
Spearing Creek	1	60	6-Nov-96	0	0				60	40	
Spearing Creek	1	70	6-Nov-96	0	0			5	55	40	
Spearing Creek	1	80	6-Nov-96	0	0			10	70	20	
Spearing Creek	1	90	6-Nov-96	0	0		10	20	60	10	
Spearing Creek	1	100	6-Nov-96	0	0		10	20	60	10	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Spearing Creek	1	0	L: Undercut with root OH. R: Steep slope, little vegetation to flood plane. Side channel re-enters at -30m.
Spearing Creek	1	10	L: Slightly undercut with root OH. Some pooling beneath bank. Woody debris deposited atop bank. R: Cobble/gravel point bar with small sand wedge, no vegetation.
Spearing Creek	1	20	L: Cobble mid channel bar, no vegetation. R: Slope with <i>Rosa</i> sp. , <i>Lonicera</i> sp. to forested flood plane: <i>P. trichocarpa</i> and <i>P. menziesii</i> .
Spearing Creek	1	30	L: Slope to flood plane. R: Slope with <i>Rosa</i> sp. , <i>Lonicera</i> sp. to forested flood plane: <i>P. trichocarpa</i> and <i>P. menziesii</i> .
Spearing Creek	1	40	L: Slightly undercut below LWD (med.), embedded into bank at 0.2m vertical. R: Slope with <i>Rosa</i> sp. , <i>Lonicera</i> sp. to forested flood plane: <i>P. trichocarpa</i> and <i>P. menziesii</i> .
Spearing Creek	1	50	L: Slope (45%), with <i>Rosa</i> sp. and <i>Populus trichocarpa</i> to flood plane: field (pasture). R: Slope with <i>Rosa</i> sp. , <i>Lonicera</i> sp. to forested flood plane: <i>P. trichocarpa</i> and <i>P. menziesii</i> .
Spearing Creek	1	60	L: Slope with <i>Rosa</i> sp. <i>Lonicera</i> sp. and <i>P. trichocarpa</i> at edge of wetted width, to flood plane at road level, (field). R: Slope with <i>Rosa</i> sp. , <i>Lonicera</i> sp. to forested flood plane: <i>P. trichocarpa</i> and <i>P. menziesii</i> .
Spearing Creek	1	70	L: Slope to field with <i>Cornus stolonifera</i> and <i>P. trichocarpa</i> . Some LWD atop bank. R: Slope to <i>Rosa</i> sp., <i>Cornus stolonifera</i> and <i>P. trichocarpa</i> .
Spearing Creek	1	80	L: Slope to field with <i>Cornus stolonifera</i> and <i>P. trichocarpa</i> . Some LWD atop bank. R: Slope to <i>Rosa</i> sp., <i>Cornus stolonifera</i> and <i>P. trichocarpa</i> .
Spearing Creek	1	90	L: Slope to field with <i>Cornus stolonifera</i> and <i>P. trichocarpa</i> . Some LWD atop bank. R: Slope to <i>Rosa</i> sp., <i>Cornus stolonifera</i> and <i>P. trichocarpa</i> .
Spearing Creek	1	100	L: Riprap, 35% slope to gravel, flood plane and road. R: Riprap, 35% slope to gravel, flood plane and road.

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Vuich Creek	1	0	9-Oct-96	12.8	2.0	7.9	11.0	29.0	19.0	19.7
Vuich Creek	1	10	9-Oct-96	12.9	2.0	5.8	22.0	13.0	18.0	17.7
Vuich Creek	1	20	9-Oct-96	11.2	2.0	6.3	26.0	20.0	18.0	21.3
Vuich Creek	1	30	9-Oct-96	9.5	2.0	6.8	19.0	21.0	21.0	20.3
Vuich Creek	1	40	9-Oct-96	11.2	2.0	5.1	13.0	14.0	34.0	20.3
Vuich Creek	1	50	9-Oct-96	12.0	2.5	4.9	36.0	40.0	29.0	35.0
Vuich Creek	1	60	9-Oct-96	13.9	3.5	3.5	38.0	79.0	59.0	58.7
Vuich Creek	1	70	9-Oct-96	14.1	2.5	1.4	18.0	28.0	22.0	22.7
Vuich Creek	1	80	9-Oct-96	14.9	2.5	4.7	28.0	21.0	10.0	19.7
Vuich Creek	1	90	9-Oct-96	12.7	2.0	5.4	15.0	18.0	15.0	16.0
Vuich Creek	1	100	9-Oct-96	12.1	2.0	9.7	20.0	16.0	32.0	22.7
Vuich Creek	2	0	27-Sep-96	9.7	0.6	5.5	25.0	18.0	18.0	20.3
Vuich Creek	2	10	27-Sep-96	11.4	0.6	5.7	36.0	41.0	39.0	38.7
Vuich Creek	2	20	27-Sep-96	11.9	2.0	3.2	20.0	33.0	25.0	26.0
Vuich Creek	2	30	27-Sep-96	13.5	1.6	4.7	14.0	31.0	24.0	23.0
Vuich Creek	2	40	27-Sep-96	12.5	0.5	6.1	17.0	25.0	15.0	19.0
Vuich Creek	2	50	27-Sep-96	10.3	0.5	4.8	16.0	34.0	45.0	31.7
Vuich Creek	2	60	27-Sep-96	9.0	1.0	5.5	15.0	16.0	27.0	19.3
Vuich Creek	2	70	27-Sep-96	9.0	0.5	0.8	11.0	8.0	12.0	10.3
Vuich Creek	2	80	27-Sep-96	9.6	0.4	4.3	20.0	23.0	17.0	20.0
Vuich Creek	2	90	27-Sep-96	7.0	0.4	5.0	9.0	14.0	10.0	11.0
Vuich Creek	2	100	27-Sep-96	9.8	1.0	5.7	9.0	13.0	8.0	10.0
Vuich Creek	3	0	9-Oct-96	5.4	1.5	2.6	23.0	35.0	29.0	29.0
Vuich Creek	3	10	9-Oct-96	4.3	1.7	3.6	7.0	14.0	11.0	10.7
Vuich Creek	3	20	9-Oct-96	5.2	1.5	3.2	20.0	15.0	7.0	14.0

STREAM NAME	SITE	CROSS SECTION (m)	DATE	BANKFUL		WETTED WIDTH (m)	WETTED DEPTHS			AVERAGE DEPTH (m)
				WIDTH (m)	DEPTH (m)		(cm)			
Vuich Creek	3	30	9-Oct-96	4.8	1.5	3.4	8.0	11.0	7.0	8.7
Vuich Creek	3	40	9-Oct-96	4.7	2.0	3.2	34.0	24.0	12.0	23.3
Vuich Creek	3	50	9-Oct-96	4.0	3.5	1.8	16.0	7.0	6.0	9.7
Vuich Creek	3	60	9-Oct-96	3.8	4.0	3.0	15.0	14.0	10.0	13.0
Vuich Creek	3	70	9-Oct-96	3.8	4.0	1.8	21.0	34.0	31.0	28.7
Vuich Creek	3	80	9-Oct-96	5.1	3.5	3.0	14.0	28.0	21.0	21.0
Vuich Creek	3	90	9-Oct-96	6.0	2.5	6.0	31.0	25.0	14.0	23.3
Vuich Creek	3	100	9-Oct-96	3.5	2.5	1.7	18.0	14.0	11.0	14.3

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Vuich Creek	1	0	9-Oct-96	0		2	<i>Alnus sinuata</i>
Vuich Creek	1	10	9-Oct-96	0		10	<i>Alnus sinuata</i>
Vuich Creek	1	20	9-Oct-96	15	<i>Picea sitchensis</i>	5	<i>Salix sp.</i> <i>Alnus sinuata</i> <i>Salix sp.</i>
Vuich Creek	1	30	9-Oct-96	30	<i>Picea sitchensis</i>	0	
Vuich Creek	1	40	9-Oct-96	0		10	<i>Alnus sinuata</i>
Vuich Creek	1	50	9-Oct-96	15	<i>Picea sitchensis</i>	0	
Vuich Creek	1	60	9-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Vuich Creek	1	70	9-Oct-96	0		5	<i>Salix sp.</i>
Vuich Creek	1	80	9-Oct-96	0		10	<i>Alnus sinuata</i> <i>Salix sp.</i>
Vuich Creek	1	90	9-Oct-96	0		0	
Vuich Creek	1	100	9-Oct-96	0		15	<i>Alnus sinuata</i> <i>Salix sp.</i>
Vuich Creek	2	0	27-Sep-96	20	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Vuich Creek	2	10	27-Sep-96	0		15	<i>Salix sp.</i>
Vuich Creek	2	20	27-Sep-96	60	<i>Populus trichocarpa</i> <i>Picea sitchensis</i>	2	<i>Acer circinatum</i>
Vuich Creek	2	30	27-Sep-96	35	<i>Populus trichocarpa</i> <i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Vuich Creek	2	40	27-Sep-96	50	<i>Picea sitchensis</i> (sloughing)	10	<i>Salix sp.</i>
Vuich Creek	2	50	27-Sep-96	5	<i>Picea sitchensis</i>	10	<i>Salix sp.</i>
Vuich Creek	2	60	27-Sep-96	60	<i>Picea sitchensis</i> (sloughing)	10	<i>Salix sp.</i>
Vuich Creek	2	70	27-Sep-96	20	<i>Picea sitchensis</i> <i>Pinus contorta</i>	20	<i>Salix sp.</i> grass
Vuich Creek	2	80	27-Sep-96	2	<i>Pinus contorta</i>	20	<i>Salix sp.</i>
Vuich Creek	2	90	27-Sep-96	5	<i>Picea sitchensis</i> <i>Pinus contorta</i>	25	<i>Salix sp.</i>
Vuich Creek	2	100	27-Sep-96	10	<i>Picea sitchensis</i>	10	<i>E. angustifolium</i> , <i>Salix sp.</i>
Vuich Creek	3	0	9-Oct-96	0		10	<i>Salix sp.</i>
Vuich Creek	3	10	9-Oct-96	0		20	<i>Salix sp.</i> <i>Alnus sinuata</i>
Vuich Creek	3	20	9-Oct-96	0		10	<i>Salix sp.</i> <i>Alnus sinuata</i>

STREAM NAME	SITE	CROSS SECTION (m)	DATE	CANOPY COVER (%ww)	CANOPY SPECIES	RIPARIAN COVER (%ww)	DOMINANT RIPARIAN SPECIES
Vuich Creek	3	30	9-Oct-96	0		10	<i>Salix sp.</i>
Vuich Creek	3	40	9-Oct-96	0		20	<i>Salix sp.</i> <i>Alnus sinuata</i>
Vuich Creek	3	50	9-Oct-96	0		20	<i>Salix sp.</i> <i>Alnus sinuata</i>
Vuich Creek	3	60	9-Oct-96	0		30	<i>Salix sp.</i> <i>Alnus sinuata</i>
Vuich Creek	3	70	9-Oct-96	0		25	<i>Salix sp.</i> <i>Alnus sinuata</i>
Vuich Creek	3	80	9-Oct-96	0		20	<i>Alnus sinuata</i>
Vuich Creek	3	90	9-Oct-96	0		5	<i>Alnus sinuata</i>
Vuich Creek	3	100	9-Oct-96	0		25	<i>Alnus sinuata</i>



STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Vuich Creek	1	0	9-Oct-96	0	0	5	15	35	25	20	
Vuich Creek	1	10	9-Oct-96	0	0	5	15	35	25	20	
Vuich Creek	1	20	9-Oct-96	0	0	5	15	35	25	20	
Vuich Creek	1	30	9-Oct-96	0	0	15		45	30	10	
Vuich Creek	1	40	9-Oct-96	0	0	30	5	30	20	15	
Vuich Creek	1	50	9-Oct-96	0	0	20	10	35	30	5	
Vuich Creek	1	60	9-Oct-96	4	15	10		50	20	20	
Vuich Creek	1	70	9-Oct-96	0	0	10		50	20	20	
Vuich Creek	1	80	9-Oct-96	0	0	10		50	20	20	
Vuich Creek	1	90	9-Oct-96	1	1	10		50	20	20	
Vuich Creek	1	100	9-Oct-96	1	1	5		50	30	15	
Vuich Creek	2	0	27-Sep-96	0	0		10	50	30	10	
Vuich Creek	2	10	27-Sep-96	0	0		10	40	40	10	
Vuich Creek	2	20	27-Sep-96	0	0		20	40	30	10	
Vuich Creek	2	30	27-Sep-96	2	10		5	40	25	30	
Vuich Creek	2	40	27-Sep-96	0	0		20	40	20	20	
Vuich Creek	2	50	27-Sep-96	1	1		8	40	40	12	
Vuich Creek	2	60	27-Sep-96	2	10		10	40	30	20	
Vuich Creek	2	70	27-Sep-96	0	0		35	50	15		
Vuich Creek	2	80	27-Sep-96	1	3 (0.3m high)		3	40	20	10	
Vuich Creek	2	90	27-Sep-96	0	0		15	55	20	10	
Vuich Creek	2	100	27-Sep-96	1	0		5	50	30	15	
Vuich Creek	3	0	9-Oct-96	1	0	10	5	50	15	10	
Vuich Creek	3	10	9-Oct-96	1	0	10	5	50	15	10	
Vuich Creek	3	20	9-Oct-96	3	2	20	5	45	30		

STREAM NAME	SITE	CROSS SECTION (m)	DATE	LWD		SUBSTRATE: % COMPOSITION					
				TOTAL	% WW COVER	BR	BD	CB	GR	SD	FN
Vuich Creek	3	30	9-Oct-96	7	0	10	10	30	35	15	
Vuich Creek	3	40	9-Oct-96	1	<5	15		50	25	10	
Vuich Creek	3	50	9-Oct-96	2	0	45	2	20	20	10	
Vuich Creek	3	60	9-Oct-96	0	0	80		10	10		
Vuich Creek	3	70	9-Oct-96	1	0	30		40	20	10	
Vuich Creek	3	80	9-Oct-96	6	15	20	5	40	20	15	
Vuich Creek	3	90	9-Oct-96	1	5			20	40	40	
Vuich Creek	3	100	9-Oct-96	1	2			20	40	40	

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Vuich Creek	1	0	L: Cobble slope (dry) to cutbank at 2m vertical and 0.3m horizontal, sloughing, appears rounded. R: Cobble/gravel slope (dry) to vegetation OH., to vegetated slope (20%): mature <i>P. sitchensis</i> forest.
Vuich Creek	1	10	L: Cobble slope (dry) to cutbank at 2m vertical and 0.3m horizontal, sloughing, appears rounded. R: Cobble/gravel slope (dry) to vegetation OH., to vegetated slope (20%): mature <i>P. sitchensis</i> forest.
Vuich Creek	1	20	L: 2m cutbank with root and vegetated OH. moss and herb layer sloughing. R: Cobble/gravel slope to vegetation to forested slope (30%).
Vuich Creek	1	30	L: Undercut, (1.5m vertical and 0.2m horizontal), root OH. and moss sloughing. Appears slightly unstable. R: Cobble slope to vegetation to 25% slope of mature <i>Picea sitchensis</i> and <i>Pinus contorta</i> forest.
Vuich Creek	1	40	L: Cobble slope to 0.1m cutbank at 1m from wetted width with vegetated OH. R: Bedrock to vegetated OH., sloughing at 4m (atop bank).
Vuich Creek	1	50	L: Cobble slope to 0.1m cutbank at 1m from wetted width with vegetated OH. R: Bedrock to 3m, silt/sand and organic debris sloughing from 3-6m. Moss and veg. OH. <i>P. sitchensis</i> sloughing over ww.
Vuich Creek	1	60	L: Gravel point bar to sloped vegetation. R: Bedrock to steep eroded (sloughed) bank with vegetated OH. at top, (8 m).
Vuich Creek	1	70	L: Gravel point bar to sloped vegetation. R: Bedrock to steep eroded (sloughed) bank with vegetated OH. at top, (8 m).
Vuich Creek	1	80	L: Gravel point bar to sloped vegetation. R: Sloped to sand deposit at 0.2m high with vegetation.
Vuich Creek	1	90	L: Gravel point bar to sloped vegetation. R: Sloped to sand deposit at 0.2m high with vegetation.
Vuich Creek	1	100	L: Cobble slope to <i>Salix</i> sp. and <i>Alnus sinuata</i> OH to <i>P. sitchensis</i> and <i>P. contorta</i> mature forest. R: Island, vegetated with <i>Alnus sinuata</i> , dry channel to the right of island.
Vuich Creek	2	0	L: Dry cobble slope to 0.2m cutbank with <i>Salix</i> sp. OH. Two <i>P. sitchensis</i> sloughing. R: 0.5m cutbank, sloping cobble to <i>Salix</i> sp. OH.
Vuich Creek	2	10	L: Dry cobble/gravel slope to riparian cover. Flood plane is vegetated. R: Undercut with <i>Salix</i> sp. and <i>E. angustifolium</i> OH, some boulder protruding into stream.
Vuich Creek	2	20	L: Slope to vegetated flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> , <i>P. contorta</i> and <i>Epilobium angustifolium</i> . R: Undercut bank with rootwad ( <i>P. trichocarpa</i> ), grass, and <i>A. circinatum</i> OH.
Vuich Creek	2	30	L: Slope to vegetated flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> , <i>P. contorta</i> and <i>Epilobium angustifolium</i> . R: 1.4m (vertical) cutbank with moss and sm. vegetation (sloughing) OH: <i>Sambucus</i> sp., <i>A. circinatum</i> and <i>Lupinus</i> sp.
Vuich Creek	2	40	L: Sloped cobble/gravel with boulder to <i>Salix</i> sp. OH. Flood plane slopes with <i>P. contorta</i> , <i>P. sitchensis</i> and <i>P. menziesii</i> . R: 1.5m cutbank, top layer rounded and sloughing, (moss, grass, <i>E. angustifolium</i> and <i>P. sitchensis</i> .
Vuich Creek	2	50	L: Cobble/gravel and small boulder slope to riparian OH (dry). Flood plane: <i>Salix</i> sp., <i>P. contorta</i> and <i>P. sitchensis</i> . R: 1.5m undercut with moss and grass sloughing over, <i>Salix</i> sp. OH.
Vuich Creek	2	60	L: Sloping cobble/gravel (dry) to 0.4m cutbank with <i>Salix</i> sp. OH. R: Undercut (1.5m vertical), top layer of soil stabilized by moss and <i>Salix</i> sp. Flood plane: <i>Salix</i> sp. and <i>P. sitchensis</i> .
Vuich Creek	2	70	L: 0.25m cutbank (vertical) with <i>Salix</i> sp. Many large, dry boulders. R: 0.4m cutbank (vertical) with root and moss OH. Some moss sloughing (rounded)
Vuich Creek	2	80	L: Cobble/gravel slope, no vegetation on mid channel bar. R: Slightly undercut bank with moss/herb layer, roots exposed. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> and <i>P. menziesii</i> .
Vuich Creek	2	90	L: Sloping cobble/gravel to <i>E. angustifolium</i> , (island). R: Slightly undercut bank with moss/herb layer, roots exposed. Flood plane: <i>Salix</i> sp., <i>P. sitchensis</i> and <i>P. menziesii</i> .
Vuich Creek	2	100	L: Sloping cobble/gravel to <i>E. angustifolium</i> , <i>Salix</i> sp. and <i>Lupinus</i> sp. (island). Flood plane: grass.
Vuich Creek	3	0	L: Cutbank, 0.3m (vertical), with grass and <i>Salix</i> sp. OH., to vegetated slope: <i>P. sitchensis</i> . R: Cobble slope to slope (20%) vegetated with grass to road.
Vuich Creek	3	10	L: Slope to flood plane (5m) with <i>Salix</i> sp. OH. Flood plane <i>P. sitchensis</i> (juv.) and grass. R: Slope (20%) to road. <i>P. sitchensis</i> (juv.), <i>A. sinuata</i> and <i>Salix</i> sp.
Vuich Creek	3	20	L: Undercut to 0.3m horizontal with grass and <i>Salix</i> sp. OH. Some sloughing. R: Gravel/cobble point bar to sloping vegetation. <i>P. sitchensis</i> (juv.) to road.

STREAM NAME	SITE	CROSS SECTION (m)	BANK DESCRIPTION
Vuich Creek	3	30	L: Undercut to 0.6m horizontal with moss and root OH., to flood plane (>5m), before steep slope. R: Gravel bar - slope to LWD then steeper to road.
Vuich Creek	3	40	L: Cut to 0.7m with small root and grass OH., gravel and sand sloughing. R: Gravel bar, slope to LWD then steeper to road.
Vuich Creek	3	50	L: Gravel on bedrock to 30% slope. Moss on bedrock, <i>P. sitchensis</i> (juv.). R: Slope to steep confining bank, grass, <i>Lupinus</i> sp. <i>Salix</i> sp., <i>P. sitchensis</i> .
Vuich Creek	3	60	L: Bedrock confined, very steep, grass OH. R: Bedrock slope with moss to grass and <i>A. sinuata</i> , to steep slope.
Vuich Creek	3	70	L: Slope to <i>Salix</i> sp. OH. R: Bedrock with moss, <i>Salix</i> sp. and <i>P. sitchensis</i> (seedlings). Confined.
Vuich Creek	3	80	L: Cobble bar (bare). R: Bedrock with moss, <i>Salix</i> sp., and <i>P. sitchensis</i> (seedlings).
Vuich Creek	3	90	L: Cutbank: eroded to 4m (vertical) with little grass OH. R: Gravel point bar to flood plane: <i>Salix</i> sp., At 95m: 6m bank, silt/clay, unstable and sloughing.
Vuich Creek	3	100	L: Undercut at 0.1m with grass OH. R: Gravel point bar to flood plane: <i>Salix</i> sp., At 95m: 6m bank, silt/clay, unstable and sloughing.

## Appendix C: Habitat Quality Index (HQI) Rating

Stream: Tulameen River      IRC Reach: 7      Section: B  
 IRC Site No.: 2      IEC Reach: 4      Station: 1

Attribute	Symbol	Data	Rating (0-4)
Late Summer Stream Flow	$X_1$	17	2
Annual Stream Flow Variation	$X_2$	143	1
Maximum Summer Stream Temperature	$X_3$	18.5°C	4
Nitrate Nitrogen	$X_4$	0.010 mg/l	0
Cover	$X_7$	5%	0
Eroding Stream Banks	$X_8$	35%	2
Substrate	$X_9$	0	0
Water Velocity	$X_{10}$	0.85 m/s	3
Stream Width	$X_{11}$	13.5	3

$$\begin{aligned}
 F &= (X_3)(X_4)(X_9)(X_{10}) \\
 &= (4)(0)(0)(3) \\
 &= 0 \\
 F + 1 &= 1
 \end{aligned}$$

$$\begin{aligned}
 S &= (X_7)(X_8)(X_{11}) \\
 &= (0)(2)(3) \\
 &= 0 \\
 S + 1 &= 1
 \end{aligned}$$

$$\begin{aligned}
 \log_{10}(Y+1) &= (-0.903) + (0.807)\log_{10}(3) \\
 &\quad + (0.877)\log_{10}(2) \\
 &\quad + (1.233)\log_{10}(5) \\
 &\quad + (0.631)\log_{10}(1) \\
 &\quad + (0.182)\log_{10}(2) \\
 &= 0.7
 \end{aligned}$$

$$\begin{aligned}
 \text{HQI Score} &= \text{antilog}_{10}(\log_{10}(Y+1)) - 1 \\
 &= 4.0 \text{ kg / ha} \\
 &= 4.0 \text{ trout habitat units}
 \end{aligned}$$

# Appendix C: Habitat Quality Index (HQI) Rating (Cont.)

Stream: Tulameen River      IRC Reach:      10      Section:  
IRC Site No.: 3      IEC Reach:      5      Station:

Attribute	Symbol	Data	Rating (0-4)
Late Summer Stream Flow	$X_1$	17	2
Annual Stream Flow Variation	$X_2$	143	1
Maximum Summer Stream Temperature	$X_3$	18.5°C	4
Nitrate Nitrogen	$X_4$	0.010 mg/l	0
Cover	$X_7$	10%	1
Eroding Stream Banks	$X_8$	30%	2
Substrate	$X_9$	0	0
Water Velocity	$X_{10}$	0.85 m/s	3
Stream Width	$X_{11}$	17.1	2

$$\begin{aligned}
 F &= (X_3)(X_4)(X_9)(X_{10}) \\
 &= (4)(0)(0)(3) \\
 &= 0 \\
 F + 1 &= 1
 \end{aligned}$$

$$\begin{aligned}
 S &= (X_7)(X_8)(X_{11}) \\
 &= (1)(2)(2) \\
 &= 4 \\
 S + 1 &= 5
 \end{aligned}$$

$$\begin{aligned}
 \log_{10}(Y+1) &= (-0.903) + (0.807)\log_{10}(3) \\
 &\quad + (0.877)\log_{10}(2) \\
 &\quad + (1.233)\log_{10}(5) \\
 &\quad + (0.631)\log_{10}(2) \\
 &\quad + (0.182)\log_{10}(6) \\
 &= 0.9
 \end{aligned}$$

$$\begin{aligned}
 \text{HQI Score} &= \text{antilog}_{10}(\log_{10}(Y+1)) - 1 \\
 &= 6.9 \text{ kg / ha} \\
 &= 6.9 \text{ trout habitat units}
 \end{aligned}$$

# Appendix C: Habitat Quality Index (HQI) Rating (Cont.)

Stream: Tulameen River      IRC Reach:      14      Section:      B  
IRC Site No.: 4      IEC Reach:      8      Station:

Attribute	Symbol	Data	Rating (0-4)
Late Summer Stream Flow	$X_1$	17	2
Annual Stream Flow Variation	$X_2$	143	1
Maximum Summer Stream Temperature	$X_3$	18.5°C	4
Nitrate Nitrogen	$X_4$	0.010 mg/l	0
Cover	$X_7$	10%	1
Eroding Stream Banks	$X_8$	15%	3
Substrate	$X_9$	0	0
Water Velocity	$X_{10}$	0.85 m/s	3
Stream Width	$X_{11}$	13.7	3

$$\begin{aligned}
 F &= (X_3)(X_4)(X_9)(X_{10}) \\
 &= (4)(0)(0)(3) \\
 &= 0 \\
 F + 1 &= 1
 \end{aligned}$$

$$\begin{aligned}
 S &= (X_7)(X_8)(X_{11}) \\
 &= (1)(3)(3) \\
 &= 9 \\
 S+1 &= 10
 \end{aligned}$$

$$\begin{aligned}
 \log_{10}(Y+1) &= (-0.903) + (0.807)\log_{10}(3) \\
 &\quad + (0.877)\log_{10}(2) \\
 &\quad + (1.233)\log_{10}(5) \\
 &\quad + (0.631)\log_{10}(2) \\
 &\quad + (0.182)\log_{10}(10) \\
 &= 1.0
 \end{aligned}$$

$$\begin{aligned}
 \text{HQI Score} &= \text{antilog}_{10}(\log_{10}(Y+1))-1 \\
 &= 9.0 \text{ kg / ha} \\
 &= 9.0 \text{ trout habitat units}
 \end{aligned}$$

Olive Creek 23 September 1998  
 1100-1230

Reach 1 - 14 km mouth of  
 creek N/S of confluence with  
 Tulare River

ST PASS	length (mm)	weight (g)	100m reach	scale	①	②
	157	34.59				
	100	12.26				malformed jaw
	68	3.14				
	74	4.00				
	40	0.51				
	60	2.30				
	60	2.26				
	49	0.75				
	42	0.74				
	41	0.77				
	45	0.71				
	35	0.37				
	47	0.72				broken back
	42	0.75				
	47	1.11				
	47	1.37				
	35	0.38				
	41	0.80				



Oliver Creek

23 Sept / 96

Length (mm) Weight (g)

35 0.38  
31 0.23  
/ 10

500g Oliver Creek clearing W/O

Rock =

Logan (mm)

Weight (g)

134 22.75  
161 4.63  
81 3.24  
30 3.01  
33 6.45  
73 4.47  
68 3.01  
67 3.24  
37 0.52  
36 0.40  
41 2.73

3.24  
3.01  
3.24  
3.01  
3.24  
3.01  
3.24  
3.01

\* Side channel fishing (least)  
(a) 0-305 m. (50 falls)

Oliver Creek

R.B. = rainbow 23 Sept 96

Reach #1 - Pass #2

Reach (mm)

Wt (g)

R.B. 105

12.73

- forest, side burn

R.B. 130

25.55

- burn right side

R.B. 111

15.97

- burn

R.B. 33

0.40

- burn

R.B. 42

0.81

- burn 0.5 left side

R.B. 47

1.53

- burn 0.5 left side

R.B. 39

0.60

- burn 0.5 left side

R.B. 35

0.44

- burn 0.5 left side

R.B. 40

0.58

- burn 0.5 left side

R.B. 32

0.53

- burn 0.5 left side

R.B. 43

0.67

- burn 0.5 left side

R.B. 43

0.68

- burn 0.5 left side

R.B. 47

1.05

- burn 0.5 left side

Pass #3 -

Reach #1

R.B. 85

5.74

- burn 0.5 left side

R.B. 45

0.82

- burn 0.5 left side

R.B. 43

0.53

- burn 0.5 left side

R.B. 40

0.66

- burn 0.5 left side

(4)

(13)

SITE 2 Olive Creek 23 Sept / 96

Reach 3 300-400  
 350-450 m upstream  
 large pools in confined canyon  
 habitat, substrate predominantly  
 rock, boulder & cobble -  
 gravel and sand in surface of pools

length (mm)	weight	Scale
205	72.65	8
139	28.70	9
122	22.92	10
148	31.55	11
138	28.75	12
132	27.06	13
116	15.57	
104	11.23	
106	11.73	
105	13.30	
132	21.52	
122	17.41	
112	12.24	
108	12.84	
104	10.98	
105	10.33	
110	13.60	

Olive Creek  
 Reach 3 - Pass - #1 (Cont)  
 Length (mm) Wt (g)

111	17.20
110	13.02
115	16.55
100	11.20
109	13.07
80	5.98
78	6.12
102	10.90
95	8.93
103	12.05
90	6.40
90	6.36
37	1.56
47	1.42
35	0.60
34	0.56
37	0.50
42	0.75
32	0.33
38	0.64
36	0.75
42	0.75
32	0.44

Olive Creek

23 Sept 96

Reach #3 - Pass #1 (Cont)

Length (mm) Wt (g)

Pass #1		
(Cont)		
40	0.48	
33	0.65	
33	0.40	
34	0.24	
40	0.60	
34	0.72	
34	0.40	
40	0.71	(46)

Pass #2

195	48.40	
142	34.26	
133	28.94	
90	9.26	
106	13.52	
98	10.03	
43	0.83	
33	0.37	(8)

SITE 3

Turquoise River U/S of Olive Creek 24 Sept 1996

100m section with  $\approx 75$  barnes series on each end - held down with boulders and cocaine held up with sticks

Pass 1  
Species length (mm) (wt g) seed

Robin	154	44.40	14
	164	48.97	15
	148	40.20	16
	188	68.82	17
	147	32.56	18
	143	33.40	19
	149	35.16	20
	128	21.90	21
	128	21.05	22
	125	18.76	23
	113	16.67	24
	112	14.14	25
	57	2.47	
	59	2.67	
	47	1.67	
	138	25.91	
	104	11.79	
	106	12.35	



cont'd	24 Sept. '96	scale #
species	length (mm)	weight (g)
Ranunculus	110	1470
	108	1260
	110	1213
	53	1.60
	43	1.09
	51	1.58
	45	1.10
	46	1.24
	45	1.08
	86	8.44
	62	2.54
	47	1.08
	47	1.14
	31	0.48
	82	6.61
	57	1.13
	100	9.14
	87	6.96
	77	5.74
	123	17.12
	85	6.36
	89	6.80
	109	12.28
	88	6.66

longnose  
dace

Tulameen River (cont'd)		24 Sept/96
Species	T. Length (mm)	weight (g) scale #
Sculpin	165	69.82 specimen
	142	50.89
	89	8.76
	90	7.73
	75	5.74
	89	8.48
	72	4.45
	82	5.90
	75	5.17
	81	6.72
	64	3.25
	85	7.90
	91	7.33
	94	9.59
	91	8.08
	77	4.87
	74	4.72
	81	5.91
	83	6.49
	76	4.92
	86	7.16
	72	4.03
	78	4.85
	87	8.02
+ 5 tadpoles		

24 Sept. 1996

Small Sidelinnet

Random F Length (mm) weight (g) scale #

72	4.98	26
97	11.26	27
82	7.17	28
68	3.99	29
133	27.01	32

TULANEAN RIVER

PASS #2

Random

63	3.09	
133	24.27	
115	17.46	30
140	31.82	31
52	1.87	

longnose dace 92 - 100

120	14.1	specimen
105	10.09	
69	3.90	
80	5.38	

slurp in total

slurp in

total length mm wt (g)

86	7.06
72	4.46
88	7.76
84	7.74
85	7.22
87	8.20
67	3.99
74	5.10

S.E.S

25 Sept. 1996

Tulanean River 4/5 Podunk Creek  
unlogged area 4/5 of clearcut  
at end of road

PASS #1

Species

Random

Species	F Length (mm)	weight (g)	scale #
Random	157	44.48	33
	241	112.73	24
	164	50.57	35
	167	57.39	36
	148	32.49	37
	152	39.40	38
	128	22.62	39
	135	29.25	40

# TULAMEEN RIVER a/s PODUNK CK 25 Sept 96

Cont'd	Cont'd	Cont'd	Cont'd
Random	Length (mm)	wt (g)	scale #
Pass #1	140	27.99	41
Cont.	132	25.24	42
	124	19.87	43
	122	20.96	44
	137	28.11	45
	127	22.22	46
	127	21.00	47
	110	16.23	48
	114	19.68	49
	105	14.93	50
	105	14.95	
	87	8.26	
	101	14.34	
	105	14.07	
	93	10.43	
	91	7.51	
	95	10.93	
	93	9.27	
	108	17.23	
	112	18.58	
	98	8.79	
	105	12.56	
	105	13.36	

# Tulameen u/s, Podunk Crk, Length, Wt/g, 25 Sept 96

Pass #1	Cont.	Length	Wt/g
102	10.87		
92	7.88		
105	13.46		
89	7.80		
98	11.10		
88	6.80		
84	6.21		
108	13.49		
88	7.39		
96	10.92		
84	6.16		
90	9.49		
83	5.72		
86	5.99		
90	8.03		
92	9.00		
96	8.76		
82	5.67		
103	10.78		
70	5.03		
70	4.56		
70	3.84		
73	4.68		
68	3.25		



Tulameen W/S of Bodunk CRK

length

wt(g)

25 Sept 96

76 4.79  
73 3.92  
68 3.88  
37 0.43  
32 0.31

(60)

Ass #2

110 17.83 51  
138 30.93 52  
120 20.36 53  
100 10.62 54  
141 35.34 55  
147 34.09 56  
88 8.65 57  
72 3.96 58  
77 4.58 59  
70 3.48 60  
36 0.42  
34 0.40  
34 0.44

(13)

26 Sept 96  
Tulameen Creek W/S of Tulameen River  
lowest reach selected D/S of logging

Area

Pass #1

Spills

Rantern

F Length (mm) weight (g) scale #

126 23.32 61  
130 33.20 62  
87 8.40 63  
113 14.02 64  
94 9.06 65  
99 6.25 66  
93 9.36 67  
83 7.06 68  
83 6.81 69  
132 45.83 70  
75 5.21 71  
77 5.01 72  
134 20.47 73  
68 3.74 ?  
97 11.08 74  
195 79.99 75  
130 19.22 76  
115 14.15 77  
115 5.52 78  
110 12.39 79  
152 34.37 80

over  
under  
4 (10's)

4

152 34.37 80

26 sept

Podunk Cr. v/s

Lowest reach

Pass #1

Rainbow trout

Tolamoen

D/S of logging areas

Length

Weight

78

74

73

86

68

72

65

62

99

95

110

113

100

88

104

86

118

97

86

68

80

58

73

126

4.71

4.44

3.78

7.24

2.93

3.05

3.34

2.85

13.35

9.01

16.20

26.82

9.54

7.47

13.79

6.66

14.92

10.70

7.57

2.85

5.23

2.56

4.16

20.72

Rainbow

Podunk Cr lowest reach v/s of Tolamoen 26 sept

Pass #1 D/S of logging area

Rainbow

Length

Weight

Scale #

117

102

118

159

155

112

112

113

88

93

82

75

63

74

69

71

68

63

83

92

93

106

132

94

13.73

11.22

18.20

30.31

37.82

16.62

14.12

12.20

6.74

8.88

6.10

4.82

3.15

4.21

4.11

4.42

3.57

3.07

6.22

7.48

11.84

13.68

24.59

8.15

Rainbow

Rainbow



Podunk lowest reach 0.15 of Tulamee 20 Sept 96

Pass #1  
Species  
Rainbow

Length Weight Scale

1  
Rainbow  
93 8.66  
102 9.89  
93 9.46 (5)

Pass #2 Rainbow

116 13.90  
69 3.91  
82 7.41  
87 6.53  
102 11.15  
87 6.47  
85 5.75  
82 6.00  
77 3.88  
108 15.90  
118 15.91  
138 32.75 84  
Rainbow 140 30.48 85  
(13)

20 Sept 96 R Bank Creek Reach 112  
Narrow channel confined by bedrock  
substrate and in sections of  
stream bank

Pass #1  
Species  
Rainbow

Length (mm) weight (g) scale #

118 20.84 86  
145 40.17 87  
130 27.93 88  
122 23.15 89  
128 29.59 90  
108 15.66 91  
121 17.70 92  
132 28.84 93  
156 42.41 94  
147 34.46 95  
106 13.42  
93 9.04  
98 10.21  
107 15.41  
130 23.21 96  
132 22.89 97  
98 10.04 98  
109 13.91 99  
146 36.35 100

stocky

Podunk Creek - Reach 2 Cont'd 26 Sept 1986			
Species	Length (mm)	Weight (g)	Scale #
Rainbow	151	38.17	101
	124	19.38	102
	129	18.44	103
	103	15.08	104
	115	17.07	105
	82	5.31	
	57	2.01	
	110	11.48	106
	127	21.19	107
	125	22.75	108
	107	14.76	109
	107	13.92	
	115	18.23	110
	114	14.92	111
	93	7.63	
	95	10.46	112

35			
Pass 2	93	7.62	113
	155	42.41	114
	118	19.91	115
	95	10.03	
	99	9.70	
	98	12.66	
	93	9.44	

Length	Weight (g)
95	7.91
85	7.93
62	2.93
66	2.78

(11)

Podunk Creek - Reach 3 27 Sept 1986

100 m U/S of bridge crossing  
Creek meanders through willows,  
substrate mainly gravel and cobble,  
pools are abundant containing some  
sand/silt, excellent trout habitat.

Species	Length (mm)	Weight (g)	Scale #
Rainbow	80	6.43	116
	152	31.69	117
	167	53.96	118
	108	16.44	119
	110	13.70	120
	119	20.27	121
	134	24.93	122
	77	6.09	123
	128	25.00	124
	105	14.83	125
	125	23.47	126

LEVEL

# Pollock Creek

Reach 3 cont'd.

27 Sept 96

Species F. length (mm)

Weight (g)

scale #

Random

7.39

127

114

16.66

85

6.87

102

13.71

137

29.27

128

112

21.30

122

21.13

125

20.09

170

60.14

129

136

25.79

130

182

58.83

131

124

22.67

113

15.70

121

17.47

113

15.30

76

5.57

11

15.67

159

47.55

132

154

47.89

133

110

17.99

120

12.78

103

13.53

Random

113

16.07

134

# Pollock Creek

Reach #3

cont.

27 Sept 96

Species F. length (mm)

scale #

Random

83

6.72

95

10.70

122

18.51

77

4.70

77

5.23

112

15.19

60

8.53

115

17.00

133

24.05

86

7.12

137

21.33

91

7.67

91

7.66

95

10.06

79

5.64

77

5.57

115

18.58

130

26.51

126

26.84

101

11.35

101

11.35

101

11.35

101

11.35

101

11.35



27 Sept. 96

Vinick Creek - U/S Bridge  
 Reach #2 - stable habitat with  
 good canopy. Substrate consists of  
 predominantly cobble with some  
 gravel boulders and sand. Large  
 exposed bank along on side of channel.  
 Green algae abundant, water clear.  
 Pool abundant

Species	F length (mm)	Weight (g)	Scales
Rainbow	147	38.03	141
	135	28.64	142
	184	75.78	143
	95	8.56	144
	148	39.83	145
	173	56.48	146
	134	31.53	147
	148	32.62	148
	145	34.06	149
	147	33.18	150
	114	15.37	151
	129	24.10	152
	101	9.90	153
	98	10.13	154
M. IT from vent	143	32.18	155
	141	30.70	156
Rainbow	123	18.86	157

27 Sept. 96

Species  
 Rainbow

F length (mm)	Weight (g)	Scales
126	22.70	
83	5.84	
100	10.84	
71	4.60	
112	13.06	
86	7.89	
115	15.94	
112	20.01	
122	21.43	
123	20.18	
104	11.43	
87	8.35	
113	14.38	
101	12.02	
73	3.90	
75	3.88	
108	16.94	
75	4.51	
82	6.08	
87	7.05	
128	24.28	158
130	25.19	157
50	37.9	

Rainbow

LEVEL

Vich cr. @ Road V/S Bridge 27 Sept

Specimen	Length (mm)	Weight (g)	Scale #
Random	123	19.68	
	106	13.37	
	94	9.79	
	70	4.65	
	64	3.08	
	95	10.52	
	139	29.98	
	90	7.42	
	73	4.46	
	120	16.18	
	125	22.80	
	117	16.38	
	102	10.98	
	134	12.13	
	99	11.44	
	112	14.35	
	115	13.01	(81)
Feas #2	Vich cr V/S Bridge	27 Sept 96	
	140	29.28	
	105	14.09	
	96	10.52	
	110	13.02	
	116	20.54	
	162	39.06	161
	122	22.09	

Vich cr V/S Bridge 27 Sept 96

Specimen	Length (mm)	Weight (g)	Scale #
Random	105	11.94	
	133	23.22	162
	122	17.50	
	102	12.11	
	90	8.95	
	92	8.85	
	96	9.90	
	101	0.83	
	103	10.57	
	110	14.32	
	98	10.94	
	97	9.30	
	83	6.88	
	85	7.34	

(21)

JIM KELLY CREEK

27 Sept 96

U/S of Bridge - Reach 1 - Bedrock  
 Substrate throughout - large pool  
 at top end of reach, substrate  
 predominantly rock, with boulders,  
 cobble, occasional gravel and  
 sand, gradient steep with high  
 volume of flow, stream banks  
 stable & steep with good canopy  
 of lodgepole pine

Species	F. length (mm)	Weight (g)	Scale #
Rainbow	126	18.28	163
Pass 1	160	39.68	164
	120	17.75	165
	196	75.34	166
	209	87.62	167
	140	27.96	168
no scale mix-up →	120	18.16	
	151	32.93	169
	105	11.63	170
	100	9.47	171
	97	9.11	172
	150	36.33	173
	158	40.69	174

JIM KELLY CREEK 27 Sept 96

118	16.86
105	10.57
97	11.05
120	14.50
131	20.09
108	12.98
145	36.13
114	17.68
113	15.86
124	20.73
136	26.49
135	25.40
82	7.00
87	8.10
85	6.57
85	7.15
91	8.42
88	6.76
117	14.14
132	24.52
113	15.66
92	9.18
114	14.05
117	17.55



Tim Kelly Creek  
Kawkerd  
F. Lowry (com)  
94

27 Sept. 96  
Height (g)

117 15.40  
97 8.61  
85 6.50

91 7.97  
81 6.85  
87 6.27

77 4.87  
78 5.65  
92 8.72

Pass 2 100 9.52  
110 14.92  
103 10.27

95 11.03  
95 9.27  
97 9.60  
99 9.54

(47)

(7)

Champion Creek

28 Sept 96

Reach 3 - logged area, bedrock, boulders  
abundant. no fish

Reach 2 - both sides of major bridge  
crossing, substrate mainly bedrock  
no fish

Reach 1 - mouth of creek, access  
via Talamoon River

Talamoon River D/S of Champion Road  
Bridge - 4/5 of Champion Creek  
Excellent riparian habitat with  
one fr/lon tree in reach. Substrate  
predominantly cobble / boulders with  
occasional gravel and sand.

Tulameen River near Champion 28 Sept 96  
Road Bridge

Species	F. length (mm)	Weight (g)	Scale #
Rainbow	166	41.70	186
	136	24.18	187
	123	18.74	188
	133	19.94	189
	112	17.18	190
	102	10.29	191
	80	6.80	192
	85	6.20	193
	92	7.72	194
	94	8.85	195
	154	42.05	196
	143	31.10	197
	117	15.73	198
	122	19.19	199
	135	25.87	200
	130	20.82	201
	121	19.30	202
	106	13.68	203
	88	7.76	204
	100	9.58	205
	105	13.18	206
	98	10.24	207

Tulameen River (cont'd)	F. length	Wt (g)	Scale #
Rainbow	39	0.67	
	37	0.52	
	38	0.68	
	47	1.09	
	36	0.60	
	98	8.20	
	93	8.03	
	86	6.30	
	38	0.89	
	83	7.65	
	83	7.52	
	76	5.00	
	102	11.29	
	108	12.70	
	87	8.16	
	94	9.67	
	80	5.64	
	112	12.15	
	132	26.65	208
	99	10.25	209
	107	14.28	210
	125	17.83	211
	40	1.02	



# Tulameen River near Champion

ARRIVAL 6r 4/5 road 29 Sept 96  
Road 3

Runbow

F Length (mm) Wt (g) Scale #

44	0.98	3
35	0.40	
37	0.48	
39	0.72	
50	1.53	
115	15.28	212
120	21.04	213
118	17.79	214
167	14.25	215
116	15.35	216
105	11.58	217
105	11.08	
93	8.14	
77	5.50	
82	5.84	
85	6.39	
74	4.89	

Pas #2 90 8.51

↳ only took the first 20m and the batteries died.

Species (mm) length Wt (g) Scale #

Runbow

Pas #1

90	8.30	218
113	12.48	219
180	13.30	220
146	33.00	221
97	3.25	222
121	10.99	
77	4.30	
90	8.62	
82	7.06	
33	1.46	
40	3.29	223
135	88.21	224
100	10.84	225
112	13.42	226
113	14.67	
120	19.54	
100	10.90	227
99	9.46	
100	10.95	228
76	9.76	
70	3.80	
99	9.31	

# Arrastra Creek - cont'd

Reach 3

29 Sept 96

Species F. length (mm) weight (g) scale #

Rainbow

90 7.50

67 3.26

90 8.11

124 20.03

170 59.13 229

157 39.56 230 scarring

113 13.57

115 14.94

93 8.57

67 3.22

37 0.50

134 25.40 231

99 11.08 232

101 9.37

103 11.75

36 0.42

77 5.68

90 8.18

113 14.87

95 9.23

110 14.22

32 0.26

104 9.61

78 5.50

# Arrastra Creek - cont'd Reach 3

29 Sept 96

Species F. length (mm) weight (g)

Rainbow

64 3.04

74 3.74

37 0.31

37 0.52

35 0.81 ? und

34 0.41

37 0.55

29 0.24

37 0.52

134 20.91

83 5.84

90 7.67

100 10.00

100 9.71

81 5.14

96 8.04

81 4.99

41 0.77

37 0.56

38 0.78

29 0.34

33 0.51

37 0.43

94 8.40

Pass #2

LEVEL



Arrestra Creek - Reach 3 - con/d. 29 Sept 96

Species	F. length (mm)	Weight (g)	Scale
Rainbow	153	46.17	
	170	53.96	233
	120	19.85	
	105	12.76	
	88	6.30	
	38	0.71	
	35	0.27	
	40	0.75	
	32	0.28	
	30	0.34	

ARRASTRA CR Reach #2 (mid) 29 Sept 96

Species	F. length (mm)	Weight (g)	Scale
Rainbow	155	31.59	231
Pres+1	165	47.50	235
	90	7.81	236
	153	62.81	237
	137	25.23	238
	148	30.90	239
	112	11.76	240
	133	21.48	241
	123	17.71	242
	116	14.53	243
	116	16.97	244
	96	8.25	245
	80	5.07	246
	96	8.08	
	68	3.67	
	36	0.49	
	30	0.23	
	33	0.27	
	128	21.00	
	117	14.20	
	118	15.32	
	170	43.43	247
	140	26.54	248

Kraske Creek - Reach 2 29 Sept. 96

Cont'd. F (length (mm) weight (g))

Pembans

101	12.89
105	12.40
132	20.28
104	12.79
98	10.30
84	6.62
105	11.69
64	1.96
92	7.43
81	5.83
71	4.07
74	3.81
71	4.04
103	8.91
93	7.67
70	3.67
153	31.28
116	16.53
111	13.77
108	12.04
116	15.90
92	8.21
109	11.83
116	14.39

Kraske Creek - Reach 2 29 Sept. 96

Cont'd. F (length (mm) weight (g))

Pembans

100	9.88
111	15.59
102	11.01
103	10.90
91	7.35
77	4.82
94	8.14
78	4.37
100	9.76
76	4.96
96	9.16
75	4.41
72	3.71
73	3.27
69	3.26
38	0.39
32	0.26
39	0.46
32	0.22
30	0.22
Ass #2	83
178	58.76
108	10.83
114	14.93
83	5.66

LEVEL



# ARRASTRA LOW

Reach 1

29 Sept 96

Species F Length mm  
Number 105  
Pass #1

Weight g Scale  
10.84 249  
11.24 250

162	48.01	251
148	37.12	252
128	16.52	253
139	28.60	254
186	80.22	255
168	45.44	256
135	22.36	257
104	15.18	258
100	10.98	259
132	23.00	
128	21.70	
102	11.49	
110	11.25	
100	16.17	
95	10.69	
90	3.90	
91	8.07	
98	7.58	
84	10.89	
73	5.33	
85	3.96	
71	7.04	
	4.38	

Random

# ARRASTRA LOW REACH 1

29 Sep 96

Species F Length mm  
Number 80

Weight g Scale  
5.79

120	15.72
113	14.73
99	9.29
117	15.76
130	30.65
121	26.61
117	4.25
117	14.94
96	9.97
96	9.33
99	10.00
92	7.86
95	9.94
95	9.97
73	5.06
81	6.36
88	7.19
108	14.03
112	15.10
98	9.08
103	11.41
107	11.30
115	13.62

Arroyo Creek - Reach 1 cont'd 29 Sept 98

Length (mm) Weight (g) Scale #

94 8.93  
97 9.78  
97 8.47  
83 6.31  
87 7.24  
69 3.13  
81 5.21  
92 7.84  
95 8.11  
87 7.22  
105 9.76  
90 6.10  
40 0.58  
31 0.24  
38 0.49  
37 0.39

Pass #2 100 9.22  
96 9.50  
104 11.30  
89 7.61  
94 9.74  
133 23.17 263

ASP Upper reach #3 30 Sept 98

Species Length (mm) Weight (g) Scale

Rainbow 95 8.17 264 100A

117 16.92 265  
189 67.32 266  
139 39.60 267  
156 44.58 268  
25 23.55 269  
132 30.86 270  
116 19.15 271  
114 18.43 272  
107 15.79 273  
65 2.65 274  
136 32.46 275  
113 16.03 276  
97 9.14 277  
112 16.20 278  
105 10.58  
95 10.02  
108 15.34  
40 0.57  
97 11.80  
91 8.70  
88 6.98  
67 3.93  
74 4.68

# Asp Upper Reach #3 (Cont)

Species Length (Stdg) Scale

Rainbow 68 3.15

70 3.78

70 3.78

40 0.55

38 0.54

41 0.61

39 0.52

42 0.70

48 0.94

41 0.69

45 0.88

44 0.51

43 0.67

67 3.05

106 11.13

117 16.51

124 18.38

103 10.65

98 10.63

114 14.12

117 18.40

114 16.43

82 4.85

90 7.65

# Asp Upper Reach #3 (Cont)

Species Length (Stdg) Scale

Rainbow 96 10.38

93 8.25

96 9.13

71 4.04

76 4.52

69 5.60

70 4.06

64 3.44

75 4.75

42 0.70

62 2.51

43 0.80

36 0.35

42 0.82

40 0.59

38 0.45

Pass #2 100 9.58

39 0.53

36 0.54

94 8.25

96 8.33

124 21.14

97 10.17



Asp (mid) reach 2 30 sept 96

Species F. Length (mm) Weight (g) Scale

Rainbow 93 7.58 275  
80 4.56 280  
140 35.65 281  
145 34.70 282  
1410 27.49 283  
125 21.84 284  
126 19.88 285  
115 15.92 286  
87 7.90 287  
124 21.41 288  
77 5.83 289  
125 20.75 290  
100 12.86 291  
79 4.52  
87 6.94  
99 10.60  
121 21.06  
73 3.58  
43 0.58  
76 4.28  
62 2.66  
80 6.09  
83 5.31  
83 5.22

Left side print

Asp Reach 2 (Cont.)

Species Length (mm) Weight (g)

Rainbow 72 4.29  
64 2.77  
110 12.20  
72 3.71  
43 1.20  
75 4.31  
79 4.24  
69 3.72  
69 3.69  
72 3.54  
46 1.20  
37 0.55  
43 1.16  
67 3.80  
40 0.91  
34 0.64  
40 0.78  
70 3.24  
47 1.34  
70 3.31  
35 0.46  
37 0.79  
46 1.15  
33 0.42

broken back

LEVEL



# App Reach 2 (Cont)

Specific Length Wt Scale

Rainbow 43 0.31

43 0.95

42 0.98

37 0.50

41 0.61

40 0.86

42 0.79

48 1.04

40 0.58

45 0.98

50 1.43

40 0.86

35 0.44

46 0.94

42 0.74

30 0.32

43 0.95

45 1.03

39 0.58

44 0.84

43 0.96

40 0.65

36 0.42

43 0.87

# App Reach #2 (Cont)

Specific Length Wt Scale

42 0.77

36 0.60

39 0.61

38 0.64

33 0.74

42 0.47

30 0.32

42 0.46

40 0.76

31 0.43

42 0.66

41 0.65

44 0.94

40 0.65

39 0.56

42 0.85

73 4.38

32 0.38

40 0.80

73 4.40

74 4.32

45 0.90

37 0.58

68 3.45

Asp Reach #2 Cont

Species Length WT Scale

Rainbow 68 3.82

77 4.45

111 12.54

71 3.90

87 6.48

80 5.20

70 3.77

69 4.10

83 5.73

103 10.56

75 4.08

66 3.28

74 3.78

85 6.27

64 2.97

46 0.98

44 0.92

42 0.74

40 0.68

45 0.98

64 2.27

47 1.08

40 0.60

43 0.68

Asp Reach #2 Cont

Species Length WT Scale

Rainbow 40 0.61

37 0.60

39 0.62

42 0.81

41 0.64

34 0.35

Rainbow 45 1.27

36 0.42

74 4.92

82 5.71

89 4.81

100 9.47

85 6.51

72 3.70

68 2.99

47 1.12

37 0.62

37 0.62

39 0.75

145 28.28 292

127 22.42 293

LEVEL

Oct 1/96 Ferry from E66 Return: Tulamene

	Date	Time	Lat	Long	Alt
DATE	13	2	110	160	(not < 30)
RANB	6	2 large	~140		
Scalpin	32	8-100			
	18		~40		
DATE	10		~30		
Scalpin	5		70-100		
	6		140		
DATE	1		135		
	1		80		

TULAMENE (collected) near bridge

Specimen 49

Scalpin 100

Specimen	Weight	Length	Width	Scale	Notes
108	1660				
125	3051				
115	1730				
113	1217				
111	1020				
133	3822				all
110	820				2
111	1507				
92	952				leaves
91	821				out
70	372				
72	418				back
80	600				
45	1149				
97	936				
65	372				
81	600				
63	297				
67	321				
85	763				
73	4180				
74	462				
62	282				



Tulameen near Coalinga (1)

Species Length Wt. Scale

Sculpin 100 11.85  
55 1.94  
58 2.54  
75 4.72  
35 0.85  
124 28.40  
103 13.32  
116 21.04  
90 8.76  
91 9.31  
65 3.43  
58 2.46  
76 5.12  
83 6.53  
101 12.67  
120 20.97  
75 4.51  
61 3.12  
73 2.56 3 bands on back  
60 2.25 "  
71 3.81 "  
32 0.46 "  
81 6.00 "  
35 0.59 "

Tulameen near Coalinga (1)

Species Length Wt. Scale

Sculpin 32 0.37  
33 0.45  
35 0.51  
35 0.60  
37 0.72  
35 0.54  
58 2.13  
62 2.88  
61 2.90  
61 3.25  
31 0.30  
30 0.26  
Rainbow 55 1.81  
" 56 1.90  
" 77 5.31  
" 100 12.56  
" 104 14.55  
" 75 4.39  
" 63 2.80  
" 82 7.27  
" 63 3.50  
" 81 6.52  
" 64 2.88  
" 55 1.77

Tulemeer near coal west

species length w/s scale

length	36	0.55	
"	31	0.43	
"	35	0.55	
"	35	0.66	
"	39	0.70	
"	34	0.47	
"	34	0.50	
"	37	0.65	
"	34	0.32	
"	30	0.40	
"	30	0.25	
"	34	0.38	
"	31	0.33	
"	34	0.45	
"	34	0.32	
"	30	0.33	
"	30	0.32	
"	26	0.20	
Scalpa	115	21.44	2 bands
	72	4.71	"
	99	11.75	3 bands
	99	10.50	"
	86	7.44	"
	78	5.60	"

Tulemeer near coal west

species length w/s scale

Scalpa	71	4.36	3 Bands
	72	4.00	"
	82	6.21	"
	76	4.99	"
	76	5.59	"
	40	0.82	"
	75	5.87	"
	32	0.42	"
	36	0.51	"
	33	0.36	"
	35	0.40	"
Keilbow	56	1.71	
language the	85	5.61	
	67	3.46	
	63	6.12	
	67	3.11	
	67	3.50	

Asp lower reach | Oct 1 '96

Species	Length	Weight	Scale
Rainbow	110	15.25	295
	58	41.93	296
	158	44.33	297
	160	54.36	298
	167	67.63	299
	125	76.52	300
	141	31.01	301
	141	30.21	302
	146	35.93	303
	142	29.62	304
	107	14.25	305
	84	6.24	306
	113	17.32	307
	95	9.66	
	93	9.09	
	82	7.22	
	88	7.87	
	55	1.79	
	48	1.05	
	50	1.52	
	57	2.29	
	53	1.93	
	55	2.35	
	45	1.38	

Asp Lower reach |  
Species Length Wt. Scale  
Rainbow 45 0.94

45	1.31
140	30.45
70	4.32
75	5.92
110	16.47
128	19.58
121	23.08
105	12.22
77	5.49
83	6.55
108	13.58
83	7.74
94	11.24
96	11.19
100	13.94
75	5.00
88	7.39
65	3.45
84	5.66
90	7.48
71	4.81
85	6.87
71	3.70

LEVEL



# Any Lower Beach (Cont)

Species	length	wt.	Scale
Heard	52	1.89	
	38	0.72	
	45	1.06	
	42	0.71	
	62	2.68	
	50	1.06	
	55	2.04	
	47	1.78	
	47	1.05	
	54	1.53	
	46	0.98	
	45	1.49	
	47	1.15	
	50	1.39	
	47	1.17	
	40	0.67	
	42	0.62	
	40	0.53	
	43	0.66	
	34	0.37	
	35	0.46	
	70	3.55	
	48	1.07	
	80	7.77	

# Any Lower Beach

Species	length	wt	Scale
	53	1.61	
	90	7.35	
	100	12.56	
	97	8.10	
	85	5.57	
	75	4.73	
	39	0.73	
	47	1.21	
	85	6.93	
	41	0.64	
	50	1.27	
	71	5.05	
	45	0.88	
	38	0.45	
	66	3.68	
	53	1.66	
	47	1.05	
	81	6.40	
	54	1.46	
	74	3.93	
	48	0.97	
	93	7.68	
	88	6.77	
	80	4.67	

# Asp Lower Ranch

## Species Length Wt Scale

76 5.03  
 134 26.97  
 77 5.25  
 63 3.74  
 76 4.41  
 35 0.23  
 81 5.50  
 61 1.82  
 88 6.70  
 48 1.42  
 46 1.55  
 58 1.83  
 78 4.58  
 86 6.79  
 35 0.45  
 74 3.86  
 96 11.13  
 47 1.17  
 128 21.21  
 78 6.26  
 41 0.84  
 75 5.19  
 91 7.56  
 40 0.81

Right Operculum missing

## Asp Lower Ranch Species Length Wt. Scale

37 0.44  
 52 1.61  
 53 1.43  
 41 0.80  
 41 0.68  
 72 3.33  
 37 0.48  
 46 1.03  
 42 0.53  
 43 0.62  
 36 0.40  
 45 0.85  
 48 1.31  
 42 0.67  
 46 1.14  
 49 1.18  
 38 1.76  
 42 0.78  
 38 0.58  
 43 0.80  
 43 0.66  
 48 0.93  
 57 1.93  
 44 0.80



# Ap Lower Keath

Species Length Vt Scale

47	1.08
45	1.08
45	0.46
39	0.54
50	1.30
45	0.34
50	1.26
51	1.35
40	0.73
54	1.71
41	0.67
41	0.69
42	0.75
48	1.24
43	1.03
37	0.62
40	0.67
41	0.67
Pass #2	100
51	1.43
49	1.31
48	0.99
48	0.95
70	3.60

# Ap Lower Keath

Species Length Vt Scale

50	1.00
48	1.04
52	1.21
53	1.38
44	1.11
72	8.70
93	10.31
96	6.42
93	10.00
48	1.42
45	0.90
86	6.64
41	0.64
38	0.54
80	4.69
43	0.73
47	1.04
92	11.54
52	1.59
40	0.64
40	0.68
125	19.08
122	23.60
164	155.94
202	94.66

308

309

Granite lower reach 1 Oct. 2'96

Species Flenth (mm) T. length - Weight (g) Scale

Sculpin

86 767

85 685

92 855

94 926

76 523

1321

606

099

043

157

0.67

208

109

0.98

0.98

0.55

0.75

0.56

0.90

0.12

0.87

1.69

1.13

0.91

0.39

13-6

315

Longnose

Scale → 82

Rainbow 412

33

55

70

58

47

15

42

38

43

39

44

22

45

55

49

46

36

234

Rainbow

Granite lower reach 1 Oct 2'96

Species Flenth T. length - Weight Scale

Rainbow

47

25

41

34

65

104

131

145

206

2002

34

12

40

34

51

39

35

152

78

5.10

0.11

0.68

0.27

285

45.26

310

23.60

311

29.03

312

170.04

313

0.36

0.72

0.55

0.42

1.58

0.64

0.40

40.45

314

Sculpin

Site C1 reach 2 Oct 296 Site 2

Species Fl length T length Weight Scale

Apurbon

66

2.67

Scale

72

3.70

3.10

45

3.08

3.10

134

23.64

3.12

65

2.75

2.51

68

3.00

3.00

55

1.61

3.06

64

3.06

3.06

59

1.80

1.80

120

17.73

3.12

43

0.61

0.61

58

2.02

2.02

64

3.07

3.07

64

2.96

2.96

67

2.96

2.96

66

2.87

2.87

50

1.19

1.19

54

1.59

1.59

64

2.33

2.33

65

2.76

2.76

63

2.39

2.39

65

2.79

2.79

65

2.79

2.79

SP Fl length (mm) Weight (kg) Scale #

RB

60

2.51

51

1.33

39

0.47

45

0.31

50

0.26

61

0.36

3

0.32

53

1.43

65

3.06

57

1.49

49

2.55

49

1.02

49

1.23

49

0.91

49

0.60

49

0.40

49

0.29

49

0.16

49

0.50

49

0.96

82

0.33

98

1.28

67

3.32

104

13.33



# OTTER CIRC Reach #2 Cont.

SPECIES	F. Length (mm)	Weight (g)	Scale #	SP.	F. length	Wt. Scale
Mottled Sculpin	91	9.91			32	0.38
	88	9.43			35	7.72
	82	6.30			33	6.25
	76	5.09			31	2.62
	95	10.81			72	3.88
	95	7.71			46	1.07
	61	2.36			75	5.43
	65	3.26			52	1.43
	38	3.48			79	5.72
	85	7.58			82	6.72
	67	3.56			50	2.33
	90	8.24			55	1.75
	80	6.49			49	1.38
	76	5.54			31	2.30
	69	3.94			28	0.23
	65	2.77			71	4.11
	85	6.60			81	7.00
	82	7.14			77	4.98
	70	3.78			69	3.78
	73	4.24			88	3.30
	86	7.63			62	2.78
	73	4.46			55	2.08
	87	8.00			54	1.91
	96	10.97			86	8.49
					65	3.12

STER CR. Reach 2 (cont)

Sp. Length Wt. Scale

85 8.14  
86 7.87  
72 3.25  
76 4.17  
47 1.39  
60 2.20  
31 0.28  
52 1.62  
30 0.31  
59 3.79  
110 14.88  
54 1.55  
90 9.37  
77 5.99  
51 1.48  
57 1.76  
31 0.34  
30 0.32  
88 8.37  
57 2.11  
61 2.48  
53 1.45  
54 1.76  
55 1.17  
91 8.65

STER CR. Reach #2

Sp. Length Wt. Scale

56 3.30  
55 1.91  
27 2.13  
53 7.28  
75 4.92  
81 5.80  
54 1.58  
82 7.07  
65 2.92  
51 1.50  
32 0.37  
51 2.71  
52 2.82  
57 1.96  
30 0.25  
80 6.74  
61 2.12  
71 4.00  
58 2.02  
59 2.35  
41 0.77  
30 0.31  
58 3.20  
52 1.47

Scalpa

Scalpa

Scalpa

OTTER CRK, REACH #2 Cont.

Sp. Length Wt. Scale

32 0.35

64 3.11

51 1.68

55 1.87

52 1.39

30 0.23

31 0.26

59 2.10

65 2.27

47 1.20

33 0.42

61 2.42

101 1.45

62 2.70

76 10.57

50 1.36

28 0.22

57 2.10

30 0.21

53 1.82

59 6.91

111 17.37

84 7.65

29 0.25

98 12.33

OTTER CRK, REACH #2 Cont.

Sp. Length Wt. Scale

93 10.13

55 1.54

62 2.50

55 1.63

52 1.64

75 2.09

38 8.66

66 7.55

29 0.30

20 0.18

34 0.38

30 0.28

28 0.20

30 0.21

31 0.31

31 0.26

26 0.21

30 0.22

30 0.31

36 0.47

27 0.20

27 0.23

70 5.04

60 2.09

60 2.00

Pass #2



OTHER CRK, Road #2 (cont)

Sp. Length Wt. Scale

Longnose  
Sculpin

Archive

86 8.28

Archive

81 7.04

70 3.78

81 7.04

61 2.82

Archive

81 8.10

Archive

86 7.84

Archive

99 10.90

85 8.87

95 10.67

70 4.37

65 3.85

69 3.81

88 7.90

90 7.45

75 4.52

59 2.19

108 15.18

Archive

82 6.11

72 4.71

60 3.75

10

OTHER CRK, Road #2 (cont)

Sp. Length Wt. Scale

65 3.06

57 3.65

50 2.11

58 2.14

50 0.30

55 1.74

50 2.00

55 1.60

55 1.45

56 1.09

30 0.22

45 0.56

30 0.21

31 0.31

47 1.06

45 0.86

69 3.04

51 2.22

95 3.11

42 0.13

Cher Cr. KEACH ~~5~~ (upper) 319

3 OCT 26, 1944:

Species F: length wtd (g) Scale #

RB	55	1.75	55	0.96
	47	0.90	80	4.67
	69	2.84	68	2.67
	59	2.64	47	1.40
	64	2.53	53	1.67
	60	2.51	65	2.99
	65	2.83	63	2.52
	51	1.66	59	2.41
	45	0.90	66	3.48
	63	2.77	64	2.67
	54	1.45	57	2.18
	66	2.78	50	1.30
	72	4.29	49	1.25
	63	2.57	35	0.51
	68	3.53	42	0.98
	109	10.61	55	1.67
	96	9.25	84	6.42
	100	9.08	58	2.42
	94	8.15	56	2.08
	98	7.50	49	1.15
	94	8.09	53	1.60
	88	7.47	60	2.34
	98	8.58	56	1.97

Sp F. Length wgt (g)

23 104 9.86

25 6.06

4.67

18  
100

47.40

5. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

50  
50  
20

2.52 (3)2.4

99

64 2.67

57 2.18

05.100

1.2.1

|   |   |
|---|---|
| 8 | 8 |
| 5 | 5 |
| 3 | 3 |

[illegible]84 6.47

50242

56 2.08401553 1.60

|    |      |
|----|------|
| 00 | 2.37 |
|----|------|

1.579



| SP       | F. Length | Wgt(g) | Scale #               |
|----------|-----------|--------|-----------------------|
| RB       | 61        | 2.34   |                       |
|          | 49        | 1.32   |                       |
|          | 61        | 2.26   |                       |
|          | 86        | 6.55   |                       |
|          | 145       | 14.03  | 326                   |
|          | 97        | 8.83   | 327                   |
|          | 104       | 11.31  | 328                   |
|          | 92        | 8.73   |                       |
|          | 84        | 5.60   |                       |
| Sculpins | 72        | 5.33   | 12 anal rays (51.54?) |
|          | 36        | 1.56   | Juv.                  |

| SP | Length | Wt.    | Scale | Fat | Fish |
|----|--------|--------|-------|-----|------|
| RB | 182    | 71.91  | 329   |     |      |
| "  | 192    | 80.00  | 330   |     |      |
| "  | 226    | 123.34 | 331   |     |      |
| "  | 195    | 82.88  | 332   |     |      |
| "  | 180    | 68.19  | 333   |     |      |
| "  | 190    | 77.24  | 334   |     |      |
| "  | 205    | 81.63  | 335   |     |      |
| "  | 192    | 70.32  | 336   |     |      |
| "  | 195    | 90.70  | 337   |     |      |
| "  | 215    | 102.00 |       |     |      |
| "  | 191    | 78.37  |       |     |      |
| "  | 192    | 80.00  |       |     |      |
| "  | 147    | 33.84  | 338   |     |      |
| "  | 175    | 64.23  |       |     |      |
| "  | 124    | 61.30  |       |     |      |
| "  | 179    | 68.95  |       |     |      |
| "  | 132    | 23.28  | 339   |     |      |
| "  | 125    | 19.75  | 340   |     |      |
| "  | 141    | 26.10  | 341   |     |      |
| "  | 122    | 17.89  | 342   |     |      |
| "  | 117    | 16.98  | 343   |     |      |
| "  | 121    | 22.13  |       |     |      |
| "  | 113    | 17.96  |       |     |      |
| "  | 83     | 5.83   |       |     |      |

| SPP      | Length | WT    | Scale               | SPP     | Length | WT    | Scale | Reys |
|----------|--------|-------|---------------------|---------|--------|-------|-------|------|
| RBTR     | 80     | 6.01  |                     | Scup SP | 72     | 5.36  |       | 14   |
| "        | 71     | 3.66  |                     | "       | 98     | 12.62 |       | 13   |
| "        | 72     | 4.74  |                     | "       | 81     | 6.95  |       | 12   |
| "        | 71     | 4.42  |                     | "       | 76     | 5.49  |       | <14  |
| "        | 99     | 12.12 |                     | "       | 78     | 5.43  |       | 13   |
| "        | 115    | 17.56 |                     | "       | 80     | 6.31  |       | 13   |
| "        | 79     | 5.07  |                     | "       | 79     | 5.05  |       | 12   |
| "        | 78     | 5.59  |                     | "       | 62     | 2.42  |       |      |
| "        | 63     | 2.95  |                     | "       | 61     | 2.73  |       |      |
| "        | 78     | 5.62  |                     | "       | 54     | 2.49  |       |      |
| "        | 65     | 3.44  |                     | RBTR    | 82     | 5.42  |       |      |
| LNDA     | 55     | 1.20  | Archive             | LNDA    | 56     | 2.08  |       |      |
| ?? DA    | 46     | 1.30  | Archive             | "       | 59     | 2.84  |       |      |
| "        | 42     | 0.99  | "                   | "       | 60     | 2.63  |       |      |
| "        | 45     | 0.90  |                     | PAGE 2  |        |       |       |      |
| Unknown* | 115    | 13.40 | Archive (1926/1914) | RBTR    | 79     | 5.42  |       |      |
| ?? Scup  | 83     | 6.94  | Reys <14            | "       | 69     | 4.31  |       |      |
| "        | 126    | 26.55 | Archive " "         | "       | 159    | 50.49 |       |      |
| "        | 91     | 10.45 | 14                  | "       | 177    | 66.15 |       |      |
| "        | 79     | 8.01  | Archive <14         | "       | 202    | 90.56 |       |      |
| "        | 84     | 8.21  | <14                 | Scup SP | 69     | 3.72  |       |      |
| "        | 79     | 6.06  | 13                  | "       | 42     | 1.14  |       |      |
| "        | 72     | 4.40  | <14                 | "       | 39     | 0.82  |       |      |
| "        | 78     | 6.62  | 13                  | "       | 43     | 0.81  |       |      |
|          |        |       |                     | "       | 40     | 0.76  |       |      |

| Loc 96      | Telegraph | W/S of Coalmont |                     |
|-------------|-----------|-----------------|---------------------|
| SP. Rainbow | Length    | Wt              | Scale               |
| 53          | 1.36      |                 |                     |
| 47          | 0.95      |                 |                     |
| 51          | 1.31      |                 |                     |
| 46          | 1.26      |                 |                     |
| 59          | 2.3+      |                 |                     |
| 151         | 29.41     | 34+             | fin rot             |
| 148         | 27.40     | 345             |                     |
| 130         | 19.22     | 346             |                     |
| 95          | 10.71     |                 | 12 rays             |
| 92          | 9.70      |                 | "                   |
| 76          | 5.02      |                 |                     |
| 71          | 3.90      |                 |                     |
| 114         | 18.09     |                 | (14.12?)            |
| 107         | 13.58     |                 | 24 rays red pigment |
| 86          | 8.13      |                 | 22 rays             |
| 90          | 8.77      |                 |                     |
| 82          | 5.95      |                 |                     |
| 85          | 7.86      |                 |                     |
| 70          | 3.64      |                 |                     |
| 66          | 3.50      |                 |                     |
| 90          | 9.95      |                 |                     |
| 32          | 0.40      |                 |                     |
| 82          | 6.80      |                 |                     |
| 93          | 8.24      |                 |                     |
| 70          | 3.73      |                 |                     |

| Species | Length | Wt   | Scale |
|---------|--------|------|-------|
| Sculpin | 38     | 0.66 |       |
|         | 36     | 0.54 |       |
|         | 88     | 8.12 |       |
|         | 90     | 8.76 |       |
|         | 89     | 7.55 |       |
|         | 62     | 2.60 |       |
|         | 70     | 3.29 |       |
|         | 38     | 0.57 |       |
|         | 85     | 6.04 |       |
|         | 55     | 3.25 |       |
|         | 39     | 0.51 |       |
|         | 39     | 0.52 |       |
|         | 77     | 4.93 |       |
|         | 89     | 8.00 |       |
|         | 76     | 5.43 |       |
|         | 93     | 8.86 |       |
|         | 75     | 4.39 |       |
|         | 80     | 5.65 |       |
|         | 66     | 3.00 |       |
|         | 29     | 0.28 |       |
|         | 34     | 0.42 |       |
|         | 48     | 0.63 |       |
|         | 24     | 0.18 |       |
|         | 91     | 7.53 |       |
|         | 64     | 1.74 |       |



Tulameen W/S of Coalmont

Part #2

Species Length Wt Scale

110 14.60

116 17.82 13 rays

86 7.73

74 4.43

81 5.63

97 11.49

109 15.49

70 3.90

85 7.05

98 7.58

87 7.70

71 3.98

35 0.48

34 0.48

125 17.05 347

113 15.33 348

Sculpin

Rainbow

"Thin trout"

12 rays

Outer Cr Bar o bar ranch at Bridge

Oct. 496 (mm) ~~1000~~ 1753 SITE 3

Species Length Total Ht. g Scale

Rainbow AO 16.39 349 Caudal fin rot

170 487 350

111 12.80 351

178 69.14 352

117 15.32 353

97 8.45 354

111 12.75 355

105 12.02 356

89 6.31 357

57 1.68

56 1.54

54 1.31

81 5.50

50 1.25

53 1.51

39 0.49

46 0.83

51 1.13

58 1.75

88 5.97

50 1.14

62 2.11

53 1.66

84 6.80 358

# OTHER CLK KIM27 (cont)

Species Length Wt. Scale

|         |     |       |         |
|---------|-----|-------|---------|
| Rainbow | 53  | 1.52  |         |
|         | 47  | 1.12  |         |
|         | 45  | 0.93  |         |
|         | 51  | 1.20  |         |
|         | 105 | 7.35  | 359     |
| Rainbow | 74  | 4.48  |         |
| Sculpin | 84  | 4.43  | 13 rays |
|         | 89  | 9.08  | Archive |
|         | 99  | 9.97  | Archive |
|         | 91  | 10.00 | 10 rays |
|         | 90  | 8.50  | Archive |
|         | 82  | 8.14  | Archive |
|         | 84  | 7.25  | Archive |
|         | 79  | 5.35  | Archive |
|         | 55  | 1.75  | Archive |
|         | 94  | 9.49  | Archive |
|         | 83  | 7.87  | Archive |
|         | 95  | 7.12  | 14 rays |
|         | 81  | 7.25  | Archive |
|         | 82  | 6.94  |         |
|         | 54  | 1.58  |         |
|         | 55  | 1.92  |         |
|         | 73  | 4.40  |         |
|         | 55  | 1.70  |         |
|         | 54  | 1.58  |         |

# OTHER CLK KIM27 (cont)

Species Length Wt. Scale

|         |     |       |         |
|---------|-----|-------|---------|
| Sculpin | 94  | 9.90  | Archive |
|         | 80  | 6.22  | "       |
|         | 50  | 1.43  | "       |
|         | 84  | 6.44  | Archive |
|         | 70  | 4.28  |         |
|         | 87  | 7.93  |         |
|         | 58  | 1.96  |         |
|         | 63  | 2.29  |         |
|         | 29  | 0.24  |         |
| Rainbow | 50  | 1.58  | Pass #2 |
|         | 47  | 0.78  |         |
|         | 50  | 1.51  |         |
|         | 55  | 1.55  |         |
|         | 88  | 6.64  |         |
|         | 120 | 17.00 | 360     |
|         | 115 | 13.41 | 361     |
|         | 167 | 40.73 | 362     |
| Sculpin | 82  | 8.30  |         |
|         | 60  | 1.30  |         |
|         | 62  | 2.30  |         |
|         | 90  | 8.52  |         |
|         | 64  | 2.53  |         |

STEEL

Order CR at Rockslide Oct 4 96

Species Fleming's Length Wt g Scale

Random 123 16 # 363

59 1.97

61 2.11

62 2.52

58 1.72

49 1.22

73 3.55

69 3.45

73 3.84

126 21.21 364

168 47.05 365

188 69.21 366

98 11.03 367

108 12.45 368

70 3.32

63 2.66

67 1.80

58 2.22

112 12.87 369

132 20.96 370

57 1.57

65 3.25

65 3.04

73 3.84

63 2.62



# OTTER CATCH BACKSLID (cont)

Species Length wt Scale

63 2.24  
63 2.97  
76 3.97  
102 10.45 371  
74 4.45  
71 3.65  
113 372

Sculpius 78 5.04 12 rays Archived

87 7.91 Archived

87 9.15 Archived

38 0.64 Archived

36 0.45 Archived

43 0.79 Archived

36 0.46 Archived

Rainbow 72 3.59 12 rays #2

57 1.07

77 5.12

63 2.95

62 2.92

62 2.34

100 9.86 373

162 40.30 374

Sculpius 85 7.46 Archived

70 3.68

40 0.73

40 0.68

Frenchie 100cc rean Oct 5 96

Species Flange (mm) (wt (g)) Scale

Rainbow 96 10.42 375

103 80.59 376

130 25.34 377

11 20.21 378

81 4.65 379

166 47.23 380

146 34.52 381

115 13.64 382

133 27.85 383

94 7.34 384

120 15.37 385

59 2.06

142 31.35

82 6.88

104 13.91

81 7.03

107 11.71

97 9.87

113 15.53

101 11.06

70 3.28

82 7.28

68 3.50

128 22.34

71 3.87

Frenchie lower reach Oct 5 '96

Species Flight (km) Wt. g Scale

Rainbow 64 3.10

77 5.01

122 20.64

79 5.57

69 3.86

95 10.78

115 16.77

89 8.70

94 9.26

75 4.20

93 9.58

106 13.87

83 7.65

102 11.84

140 32.24

176 62.90 386

159 47.30 387

155 43.86 388

103 11.14

120 16.64

95 8.26

70 3.79

132 27.00

84 5.70

69 3.19

Frenchie lower (Cayut)

Species length Wt. Scale

Rainbow 92 9.07

85 7.25

90 6.76

85 7.44

74 4.56

99 11.52

69 4.15

77 5.52

70 3.51

140 33.59

113 14.24

78 4.28

69 3.16

71 3.13

104 12.53

65 3.11

70 3.75

Rainbow 90 8.05 Ass #2

132 27.81

117 20.32

69 3.64

64 2.98

66 2.35

97 9.05

34 10.46

1.7 7.05



Frenchie Crk. Lower Crk. Cont.

| Species | length | wt.   | Scale |
|---------|--------|-------|-------|
| Rainbow | 95     | 8.95  |       |
|         | 160    | 41.42 |       |
|         | 171    | 51.07 |       |
|         | 132    | 25.06 |       |
|         | 188    | 77.63 | 389   |

Frenchie Crk. Middle reach Oct. 5 '96

| Species | length | wt.   | Scale |
|---------|--------|-------|-------|
| Rainbow | 128    | 18.70 | 396   |
|         | 30     | 34.70 | 391   |
|         | 136    | 24.26 | 392   |
|         | 88     | 7.68  | 393   |
|         | 62     | 2.77  |       |
|         | 119    | 14.89 | 394   |
|         | 142    | 34.16 | 395   |
|         | 147    | 34.00 | 396   |
|         | 110    | 13.88 | 397   |
|         | 138    | 15.25 |       |
|         | 123    | 19.51 |       |
|         | 93     | 9.94  |       |
|         | 104    | 13.33 |       |
|         | 88     | 6.73  | 398   |
|         | 96     | 8.52  |       |
|         | 128    | 21.47 |       |
|         | 122    | 20.38 |       |
|         | 113    | 15.01 |       |
|         | 142    | 28.80 |       |
|         | 81     | 5.28  |       |
|         | 100    | 12.43 |       |
|         | 94     | 9.72  |       |
|         | 127    | 20.54 |       |
|         | 90     | 9.31  |       |
|         | 115    | 17.98 |       |

# French Creek Middle Reach (Cont)

Species Length Wt Scale

Rainbow 61 2.30

91 9.54

112 16.95

102 10.72

103 12.85

72 4.71

68 7.22

68 3.18

67 3.00

95 9.45

60 2.55

104 18.67

Rainbow

85 8.19

82 5.65

80 6.22

68 3.75

85 6.00

66 2.62

88 8.16

108 15.63

135 28.34

132 24.88

399

Pass #2

Oct 5 '96

French Creek Upper site

Length Wt (g) Scale

Rainbow 81 6.89

153 33.04 400

116 14.88 401

141 34.47 402

83 7.58

62 2.70

113 14.46

90 7.62

60 2.24

133 26.15

141 29.62

113 17.79

128 24.66

87 8.70

60 2.42

101 10.50

115 18.39

60 2.56

71 3.48

81 6.44

72 4.59

92 6.92

98 8.83

71 3.22

71 4.36

Scar near vent

French Cr. Upper Site Oct 5 - reach 3

Species Length Wt. g Scale

Random 123 19.84  
 11 13.86  
 69 2.95  
 63 2.44  
 103 10.97  
 130 25.20  
 130 25.23  
 73 4.60  
 120 21.97  
 142 29.24  
 65 2.51  
 100 11.38 403  
 148 33.41 404  
 110 13.20 405  
 115 15.22  
 99 11.32  
 61 2.47  
 67 3.47  
 64 3.04  
 145 29.42 406  
 110 16.82  
 147 28.69 407  
 128 25.26 408  
 3 rock trout? 122 20.50 409

Archive

French Crk Upper Site (Cont)

Species Length Wt. Scale

Random 64 3.00  
 61 2.65  
 118 14.68  
 62 5.49  
 64 3.07  
 67 3.64  
 67 3.51  
 96 7.98  
 95 9.95  
 65 3.39  
 61 2.57  
 65 2.94  
 61 2.75  
 65 3.16  
 105 12.81  
 66 3.70  
 65 6.44  
 104 11.86  
 67 3.00  
 71 3.57  
 66 3.30  
 80 5.06  
 142 35.47  
 62 2.73  
 70 3.97

Pass #2



# Frenchie crk. upper Reach (Cont)

Species Length Wt. Scale

Rainbow 125 20.75  
121 17.62  
145 32.81

Granite cr Middle Up Reach Oct 6 '96

Species Length Wt. g Scale

Rainbow 75 4.77  
91 5.78  
105 10.24 410  
112 14.91 411  
105 13.38 412  
112 70.82-413  
200 76.30 414 Blue line (scars)  
168 50.51 415  
150 32.70 416 protruding eyes  
140 30.87 417  
120 18.35 418  
112 29.49 419  
140 24.50 420  
98 10.31  
129 18.20  
102 11.23  
100 8.86  
95 8.90  
117 16.21  
100 8.59  
118 17.24  
135 22.89  
137 24.40  
74 3.95  
74 3.73  
91 8.73

# Gravite Creek Middle Reach (Cont)

Species Length wt. Scale

Upper

116 14.29  
95 8.38  
100 8.83  
85 6.59  
93 7.36  
46 0.86  
82 5.00  
90 7.62  
39 0.52  
75 4.60  
92 9.03  
105 10.94

Rankings

Pass #2

Gravite C Middle lower reach Oct 6/96  
Species Length wt (g) Scale  
Remington

149 3115 482  
148 55.80 421  
147 57.32 482  
146 57.32 482  
145 57.32 482  
144 57.32 482  
143 57.32 482  
142 57.32 482  
141 57.32 482  
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11 57.32 482  
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8 57.32 482  
7 57.32 482  
6 57.32 482  
5 57.32 482  
4 57.32 482  
3 57.32 482  
2 57.32 482  
1 57.32 482

# Grande Ck. Middle Lower Reach (Cont)

Species Length Wt Scale

Rainbow 121 18.65

111 14.90

Pass #2

Rainbow 124 16.96

99 10.92

137 24.13

122 17.61

110 14.93

118 19.34

128 17.38

122 20.42

200 68.68 430

16.65

132

# Grande Creek Upper Reach 6-21-90

Species Length Wt Scale

Rainbow 128 21.03 431

88 8.30 432

114 14.36 433

118 17.32 434

178 70.73 435

173 58.07 436

160 45.48 437

110 13.14 438

105 15.21 439

105 13.60 440

100 10.54

112 15.74

145 34.60

132 18.50

Pass #2

Unbelievable amounts of flying bugs!!



Champion lowest rock ~ 500m from Tulameen  
Oct 9 1960  
Specimen

| Length (mm) | Wt (g) | Scale |
|-------------|--------|-------|
| 138         | 27.50  | 441   |
| 115         | 15.83  | 442   |
| 123         | 18.52  | 443   |
| 155         | 32.85  | 444   |
| 99          | 10.23  | 445   |
| 118         | 18.96  | 446   |
| 137         | 26.66  | 447   |
| 116         | 14.58  | 448   |
| 105         | 10.62  | 449   |
| 131         | 25.63  | 450   |
| 26          | 6.64   | 451   |
| 21          | 18.51  | 452   |
| 119         | 19.50  | 453   |
| 130         | 9.43   |       |
| 80          | 6.00   |       |
| 105         | 14.70  | 454   |
| 93          | 9.53   |       |

Pass #2

|     |       |
|-----|-------|
| 110 | 14.59 |
| 93  | 10.39 |
| 118 | 16.44 |
| 130 | 25.76 |
| 130 | 25.58 |

VI 11 C. C. C. T. 115 mar 13000 upper Oct 9 90  
Specimen  
Random

| Length (mm) | Wt (g) | Scale |
|-------------|--------|-------|
| 123         | 24.35  | 457   |
| 38          | .65    |       |
| 120         | 19.66  | 458   |
| 124         | 21.29  | 459   |
| 128         | 26.13  | 460   |
| 36          | 0.49   |       |
| 42          | 0.78   |       |
| 41          | 0.65   |       |
| 39          | 0.70   |       |
| 39          | 0.60   |       |
| 41          | 0.66   |       |
| 42          | 0.79   |       |
| 70          | 4.35   |       |
| 75          | 5.55   |       |
| 92          | 8.00   | 461   |
| 93          | 9.67   |       |
| 95          | 10.63  |       |
| 72          | 3.81   |       |
| 69          | 3.79   |       |
| 97          | 11.95  |       |
| 118         | 20.14  | 462   |
| 104         | 11.73  |       |
| 108         | 13.72  |       |
| 108         | 13.26  |       |

# Swack Creek Trib Upper (Near Road)

Species Length Wt Scale

Rainbow 115 18.10  
92 9.52  
88 9.01  
100 11.41  
66 3.73

Rainbow 81 6.99 Pass #2

72 4.81  
116 16.44 463  
125 28.65 464  
128 21.78 465  
100 12.22  
126 20.70

# Vivich Lower near summit entrance Oct. 9 '90

Species Fibers/mm Jt. g. Scale

Rainbow 75 95 8.44  
120 18.00  
75 9.59  
90 7.45  
90 8.34 466  
120 462  
190 78.59 468  
115 21.25 469  
158 46.46 470  
166 48.67 471  
121 19.55 472  
173 61.67 473  
24 13.29 474  
155 34.82 475  
160 42.26 476  
110 14.21 477  
148 30.06 478  
88 6.72 479  
153 41.00 480  
135 32.33  
141 34.46  
100 11.53  
144 32.18  
1123 118.22  
119 16.62



# Nick near Sutter Cont. (Cont)

| Species | Length | Wt.   | Scale   |
|---------|--------|-------|---------|
| Heinlow | 110    | 15.15 |         |
|         | 116    | 16.09 |         |
|         | 149    | 32.96 |         |
|         | 129    | 22.77 |         |
|         | 124    | 20.67 |         |
|         | 114    | 15.48 |         |
| Garrows | 146    | 30.43 | PASS #2 |
|         | 134    | 24.18 |         |
|         | 139    | 27.15 |         |
|         | 101    | 10.06 |         |
|         | 134    | 23.84 |         |

# LEVEE OTTER near Tulareman (cont) 9/9/92

| Species | FL (mm) | Wt (g) | Scale  | Comments     |
|---------|---------|--------|--------|--------------|
| Sculpin | 90      | 9.48   |        | 12 circ rays |
|         | 83      | 7.21   |        |              |
|         | 84      | 7.32   |        |              |
|         | 75      | 5.70   | 270.00 |              |
|         | 92      | 9.97   | "      |              |
|         | 79      | 5.36   | "      |              |
|         | 100     | 12.31  | "      |              |
|         | 86      | 7.68   | "      |              |
|         | 111     | 17.95  | 270.00 |              |
|         | 85      | 7.45   | 270.00 |              |
|         | 92      | 13.82  | "      |              |
|         | 82      | 6.55   | "      |              |
|         | 121     | 26.88  | "      |              |
|         | 100     | 13.60  | 270.00 |              |
|         | 110     | 14.88  | 270.00 |              |
|         | 122     | 25.35  | 270.00 |              |
|         | 96      | 10.35  | 270.00 |              |
|         | 85      | 7.74   | 270.00 |              |
|         | 104     | 12.65  | 270.00 |              |
|         | 108     | 16.03  | 270.00 |              |
|         | 79      | 6.47   | 270.00 |              |
|         | 90      | 8.69   | 270.00 |              |
|         | 85      | 6.95   | 270.00 |              |
|         | 86      | 7.93   | 270.00 |              |
|         | 84      | 7.08   | 270.00 |              |

| SP      | FL  | WGT   | archived              |
|---------|-----|-------|-----------------------|
| Sculpin | 98  | 11.23 | 19 anal rays (Pickle) |
| SPP.    | 87  | 8.34  |                       |
|         | 91  | 9.25  | 12                    |
|         | 76  | 4.65  | archived              |
|         | 51  | 1.57  |                       |
|         | 98  | 11.73 | 2 anal rays (Pickle)  |
|         | 80  | 5.64  | 12 rays               |
|         | 88  | 7.78  | 12 rays               |
|         | 85  | 7.48  | 19 anal rays          |
|         | 89  | 8.65  | 12 rays               |
|         | 80  | 5.36  | archived              |
|         | 46  | 0.99  |                       |
|         | 84  | 6.42  | 12 rays               |
|         | 93  | 11.06 |                       |
|         | 85  | 6.33  |                       |
|         | 79  | 5.75  |                       |
|         | 70  | 4.84  |                       |
|         | 93  | 8.68  |                       |
|         | 50  | 1.35  |                       |
|         | 48  | 1.28  |                       |
|         | 86  | 8.81  |                       |
|         | 86  | 7.75  |                       |
|         | 86  | 11.55 |                       |
|         | 100 | 13.32 | 19 rays               |

| SD      | FL  | WGT   |                  |
|---------|-----|-------|------------------|
| Sculpin | 86  | 6.52  | 12 rays          |
| SPP     | 39  | 0.53  | "                |
|         | 86  | 7.39  |                  |
|         | 78  | 5.95  |                  |
|         | 80  | 5.46  |                  |
|         | 83  | 7.65  |                  |
|         | 78  | 6.12  |                  |
|         | 91  | 9.82  |                  |
|         | 88  | 7.33  |                  |
|         | 81  | 5.20  | ✓                |
|         | 32  | 11.15 | 19 pin rays      |
|         | 86  | 7.61  | "                |
|         | 112 | 17.50 | "                |
|         | 91  | 8.61  | 12 rays          |
|         | 78  | 5.97  | ottle fin rod    |
|         | 35  | 9.07  | 12 rays          |
|         | 82  | 6.49  | "                |
|         | 82  | 7.15  | 19 pin-ray brick |
|         | 95  | 10.81 | 12 rays          |
|         | 98  | 12.96 | "                |
|         | 111 | 17.96 | Pickle (12)      |
|         | 94  | 9.60  | 12 rays          |
|         | 71  | 3.26  |                  |
|         | 48  | 1.27  |                  |

| Species | FL  | WG    |      |
|---------|-----|-------|------|
| Scupin  | 50  | 1.25  |      |
| SPR.    | 48  | 1.08  |      |
|         | 84  | 7.45  |      |
|         | 122 | 24.41 | Puck |
|         | 33  | 7.40  |      |
|         | 93  | 11.40 |      |
|         | 65  | 2.85  |      |
|         | 82  | 6.18  |      |
|         | 85  | 6.71  |      |
|         | 115 | 19.25 | Puck |
|         | 89  | 8.06  |      |
|         | 100 | 13.13 |      |
|         | 84  | 6.66  |      |
|         | 123 | 24.04 | Puck |
|         | 90  | 9.12  | Puck |
|         | 80  | 8.92  |      |
|         | 45  | 1.00  |      |
|         | 78  | 6.75  |      |
|         | 79  | 5.64  |      |
|         | 84  | 7.03  |      |
|         | 75  | 4.97  |      |
|         | 86  | 7.53  |      |
|         | 45  | 1.09  |      |
|         | 80  | 5.79  |      |

| SP. (Scupin) | FL  | WG    |      |
|--------------|-----|-------|------|
| Puck         | 94  | 8.71  |      |
|              | 83  | 7.32  |      |
|              | 80  | 5.72  |      |
|              | 85  | 4.23  |      |
|              | 35  | 7.53  |      |
|              | 72  | 3.82  |      |
|              | 33  | 7.04  |      |
|              | 73  | 4.00  |      |
| 12           | 12  | 22.70 | Puck |
| Puck         | 35  | 7.24  |      |
|              | 36  | 7.47  |      |
|              | 46  | 1.13  |      |
|              | 46  | 1.12  |      |
|              | 86  | 6.70  |      |
|              | 50  | 1.22  |      |
| Puck         | 108 | 15.15 |      |
| 12           | 75  | 5.44  |      |
|              | 86  | 7.63  |      |
|              | 87  | 8.73  |      |
|              | 50  | 1.44  |      |
| "            | 45  | 1.07  |      |
| "            | 49  | 1.27  |      |
| "            | 45  | 1.16  |      |
| "            | 44  | 6.44  |      |



LOWOT OTTER NODAL TAILMEASUREMENTS PASS 2 OCT 7/96

| FL | WGT  |         | Spp Sample | FL    | WGT              |  |
|----|------|---------|------------|-------|------------------|--|
| 42 | 0.77 | -12 ray | 137        | 36.30 | 19 Ray fin       |  |
| 43 | 0.81 | "       | 26         | 4.95  | 12 Ray           |  |
| 50 | 1.35 | "       | 31         | 6.12  | "                |  |
| 40 | 0.79 | "       | 30         | 6.05  | prick            |  |
| 41 | 0.72 | "       | 68         | 3.41  | 12-ray           |  |
| 75 | 4.92 | "       | 85         | 2.80  | "                |  |
| 46 | 1.05 | "       | 95         | 10.04 | "                |  |
| 43 | 0.85 | "       | 91         | 9.42  | "                |  |
| 47 | 1.09 | "       | 85         | 7.27  | "                |  |
| 41 | 0.79 | "       | 38         | 8.44  | "                |  |
| 43 | 0.95 | "       | 78         | 5.53  | "                |  |
| 94 | 9.42 | "       | 84         | 7.48  | "                |  |
| 43 | 0.81 | "       | 90         | 9.74  | "                |  |
| 48 | 1.25 | "       | 90         | 9.34  | "                |  |
| 45 | 1.08 | "       | 94         | 9.86  | "                |  |
| 73 | 1.11 | "       | 101        | 12.85 | "                |  |
| 45 | 0.95 | "       | 86         | 7.58  | "                |  |
| 38 | 0.65 | "       | 76         | 5.44  | "                |  |
| 74 | 4.18 | "       | 77         | 4.50  | "                |  |
| 40 | 0.72 | "       | 78         | 5.99  | "                |  |
| 43 | 1.00 | "       | 105        | 16.43 | prickly (edible) |  |
| 45 | 0.94 | "       | 75         | 4.39  | 12 ray           |  |
|    |      |         | 76         | 5.56  | "                |  |
|    |      |         | 74         | 4.44  | "                |  |

PASS 2 - over.

Spp. (study)

| FL | Wt   | 12      | 12     |
|----|------|---------|--------|
| 46 | 1.25 | 12      | 12     |
| 43 | 1.00 | "       | "      |
| 46 | 1.42 | "       | "      |
| 46 | 1.25 | 12      | 12     |
| 84 | 7.45 | "       | "      |
| 45 | 1.00 | "       | "      |
| 94 | 9.05 | Prick-1 | Archiv |
| 61 | 2.54 | 12      | 12     |
| 82 | 6.52 | "       | "      |
| 47 | 1.12 | "       | "      |
| 46 | 1.16 | "       | "      |
| 45 | 1.10 | "       | "      |
| 46 | 1.22 | "       | "      |
| 45 | 1.25 | "       | "      |
| 47 | 1.28 | "       | "      |

Incliner: 0.5m → 30 : 17°

Jim Kelly in middle Oct 10 9c  
Species F. length (mm) 1st 19) 5c 2c  
Random 1c 39.15 431

|     |       |     |
|-----|-------|-----|
| 140 | 30.10 | 482 |
| 147 | 31.85 | 483 |
| 170 | 48.48 | 484 |
| 155 | 39.95 | 485 |
| 99  | 5.81  |     |
| 34  | 0.34  |     |
| 39  | 0.43  |     |
| 37  | 0.45  |     |
| 40  | 0.66  |     |
| 41  | 0.65  |     |
| 40  | 0.60  |     |
| 39  | 0.48  |     |
| 43  | 0.72  |     |
| 138 | 29.75 | 486 |

800 w/lt  
+ 1000  
to 1000

10 OCT 96 - Reach III

Jim Kelly upper No Fish

Pass 2

SITE 18

Wulmer (part Coalmont)

FILE S100123A ~~WULMER~~

[1. OCT 96] 662355E 5485898N SITE 1

algae @ Granite

River runs parallel to & c  
 5m vert distance from (4m  
 being distance from) road.  
 (not used very often / not main  
 road) vegetated between road  
 and river with willow some S.  
 alder. 100m at site in fairly  
 straight all riffle, no pools. Flow  
 is bordered by riprap to the  
 left plus fall from road.  
 Entire R bank is cobble / gravel  
 sloping (river bed) to cut  
 bank & OH - no rap at this  
 time as it is high & dry  
 \* Very little blow complexity pooling.  
 Rocks (substr) w. shipping, algae  
 is green & brown

Site is ~50m ups of Granite Cr

CF

Flow is SE

1 EMP 15 10.5

110s. at substrate wet below cable to R. & flowing to the ground water - higher water

@100

b/w 35.1

b/a 1.4

NW 13.2

wd 77 246, 75 ave 54.2

CC 0

RC 10% w/c

LWD 0

Sb 50 Gr 40 Gr 10 S

B. 200' slope towards bank is

unsafe for the most part - slough  
 sharp gravel into creek bed  
 without alder OH but not willow

R. Cb / gr slope 1/2 to cut

bank - when OH - dry bed.

Small debris - branches etc line  
 the bank



LEVEL



25.4  
18.8  
10.6

@ 30m

b/w 31.2

b/d 1.5

WN 10.6

WC 35 5, 3+ ave 40

CC 0

RC 0

LWD 5m woody debris deposited along track

BL same as 80

R sand sloping from outside to quarry field - sometimes good.

Sh SAGD

On bank (dry with a c) to RHS is slough - algae, v. little flow but trickle out - cannot locate inlet, possible that it may be drying over time?

SLALGH

W: 3

L: 5

d: 0.1 ave.

30.1  
19.2  
10.9

@ 30m

b/w 32.6

b/d 1.5

WN 10.9

WC 35 5, 3+ ave 40

CC 0

RC 0

LWD 1.5c reported into slough, n 1/10 of structure, slough - some fine

BL 6m to road in 3 m. no 2.

sloughing of 50 very sharp rocks along bank - 100% w/ mape S. after 2 yellow-dry track OH but not now

@ 70m

slough  
at 65m

bfd 22.9

bfd 1.5

ww 10.7

wd 37, 60, 32 ave! 43

CC 0 wwc (5' if slough incl.) CW

RC 0 wwc (10' if " ) Sadder

LWD 0

Sb 40 cb 30 gr 20 s 10 black

BL Slope to road > 60' veg.

Sloughing of fluv bed & ch. from  
Slope - bank appears to be eroding. Sharp  
Slope - rock in stream bed + gravel dep on top

R cb creek bed to slt bank

grassy slope to field, grass +

shrub OH to slough. (larger

that slough @ 80m)

T = 6°C

SOUGH w 5m

L 40m

d 20, 30, 18, 27

L bank cobbles

R " undercurrent to W level

moist grass sloughing

100' 50' Sadder

@ 60

rad

store material

bfd 31.6

bfd 10.5

ww 11.0

wd 43, 49, 38 ave! 43

CC 0

RC 0 (10' if slough included, Sadder)

LWD - only wooden debris is visible

dead vegetation along upper

banks.

Sb 20 bd 40 cb 30 gr 10 s

BL seems that LB is sloughing

eroding, dry + sparkling - r.p. (all)

veg very high (4m) on bank

here

RB back lining R bank w lot

cobble deposited from River +

it appears to have been placed

post flood (as the majority of it

would have been washed away)

however there is abundant sand deposits

within this substrate? Possible that

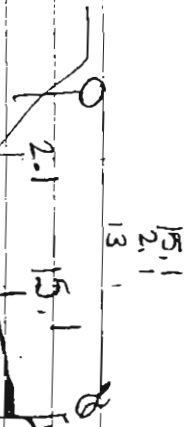
SLIDE has occurred post flood but

caused by flood.

LEVEL



at 50



bfd 29.8

bfd 1.5

wd 13.0

wd 22.31, 48 ave: 3.4

CC 0 wnc (30' if slough included)

BC 0 wnc (30' if slough included)

LWD 0

SD 10 bd 50ch 30gr 10S

BL bank rip-rap - sloping here,

suprap seems to be dense as bedrock material - some rip-rap, outward Sider,

extending from road to

bfd.

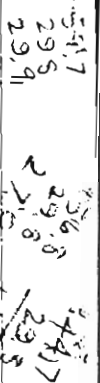
R Calm cut bank showing slough.

slough appears to have after flow (thick) but no input. Moss/

grass sloughing over hanging

bank - Rip OH is S. after + CC is CN.

at 40



bfd 29.9

bfd 1.5

wd 12.1

wd 3, 3.3, 3.3 ave: 3.3

CC 0 wnc 10' 10' 10'

RC 0 wnc 10' 10' 10'

SD 42 gravel - 3m2 material + 10' 10' 10'

LWD 0 30 ch 20gr 10S

BL bedrock, about 10m - 10m

fallen rock - little rip-rap, few rooted shrubs on the bank

S. side (juv) roseate, willow

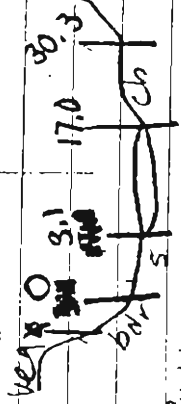
sloughing - 10m is bedrock

SLOUGH - from 40m - 70m

see 70m for details

LEVEL

17.0  
3.1  
13.9



at 30m

bfn 30.3m

bfd 1.5m

ww 13.9m

wd 37.40, 47 ave. 41

cc 0.10 CW of bfn

RC 0.15 Solder "

LWD 0

Sb 10bd 10S 50 ch 30 gr

LB track stable to 3m

> 3m unstable, eroding, some veg  
- trembling aspen & 8m willows  
but > 3m high - not useful  
Diparian vegetation.

RB - stable to moss covered, sloughing

0.1m cut bank w/ moss sloped

~20° to grass field beyond appears  
stable due to rooted veg.

26.7  
11.2  
15.5

at 20m

bfn 28.7

bfd 1.5

ww 15.5

wd 29.41, 38 ave. 36

cc 0 (5/1 bfn) CW

RC 0 (2/1 bfn) Solder

LWD 0 50 10bd 10S 30gr 5000

CL steep eroding rock (moss)

be rock / all some sand dep

along bank. / even little 1 p.

veg here - appears to have

been growing for short period

of time - young alder + willow.

Extremely unstable > 3m (adjacent  
to road at this size)

4. Cobble (see bed)

- bank is moss sloughing

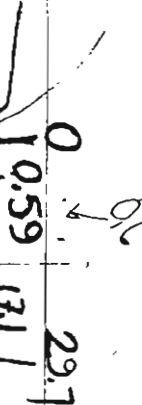
(see 30 m) slope to field -

stable.

LEVEL

@ 10m.

17.11  
0.6  
16.5



bfn 29.7  
bfa 1.5

wid 16.5

wd 27 46.28 ave 34

CC 0

RC 0

LINDO

Sb 60 Ch 10 bd 20 gr 10 S

BL veg CH in @ 6m vert, 4m

horizontal. 1km in angled

+ alonging into creek. Back

just out periodically - jagged.

top of bank (at road) 10

unclng. V unstable. few 5m wd depos

BR sloping wobble

< 2% to

rooted bank slope v 45% to

grass field at 5m

@ 0m

336 size

28.13  
10.9  
16.14

bfn 28.0

bfd 1.5

wd 16.4

wd 44 35 35 ave 28

CC 0

RC E S slow - 50: accb, 10bd, 20gr, 10S.

LIND 1pc. Stamp, 40S have been

taken. Many 150 5m strands

(dead) or roots have two section

of the trunk / erosion where

LB is evident, the entire slope

is low except for a few

and one aspen.

observed

Goldenrod

RB same as 10

Goldenrod

Goldenrod

Goldenrod

Goldenrod

Goldenrod

Goldenrod

Goldenrod

LEVEL



TULAMEEN RV. REACH 2 ~~STIC 25~~

500m West of Coalmont

GPS FILE: ~~S100415A~~ 666842E, 598640N

100m S100418A 666766E, 5486345N

T = 8°C

Flow is relatively for this site channel (bftw) is fairly constant - and straight. Hab. units are rippled and girdled w/ few bd closer to 100m.

Gradient for entire site is 0.9%.

Photos # 13 + 18.

algae present - not abundant.

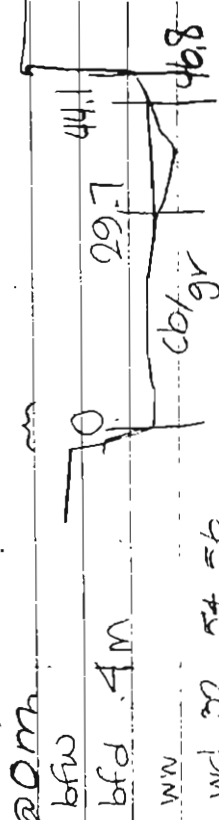
A-10p R bank 50m field to

50% slope w/ logs lying & stumps - appears to

have been replanted on slope not plane.

Small pools - 0.5 x 0.4 x 30-50cm deep from 60m-100m behind d/s of boulders & B in this area

width of veg. strip: —



WD 32, 54, 56

CC 10' 2W, cedar - OH net

RC 0

LWD 0

Sb 70 Cb 20 gr 10 S (Octr 2.5cm)

BL - ww to db bar - base, flat

to smau strip of rooted

veg - grass, willow

to 4m vert. Riprap v sing to road. Veg Strip ~ 1.5m wide

R 4m cut bank w/ root

- OH, some grasses + few 8m shrubs. NO cover (rip or root)

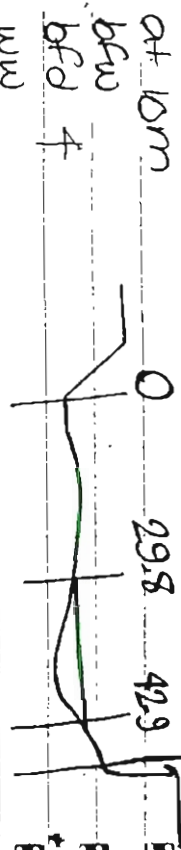
\* d/s of 0m R bank ~ 2m

undercut with veg / root OH for ~ 10m then cobble bar as WW trends to the left.

- LB remains constant, riprap remains leading to road.

LEVEL

45.6



at 10m

bfd 4

wd 21, 42, 48

cc 0

rc 0

lwd 0

sb 70cd 20 gr 10s

bl 5ao

br 5ao

at 20m

bfd

wd 12, 26, 41

cc 0

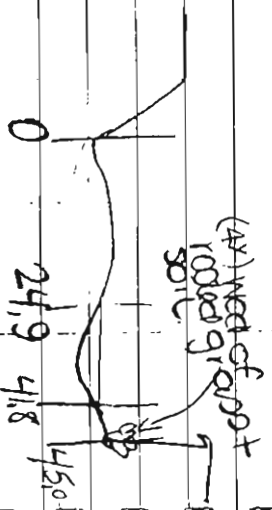
rc 0

lwd 0

bl 5ao

br 5ao

sd 5ao



at 30m

bfd 4m

wd 13, 23, 41

cc 0

rc 0

lwd 0

sb 5ao

bl 5ao

br 5ao

at 40m

bfd

wd 15, 35, 47

cc 0

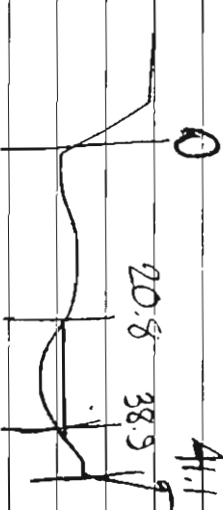
rc 0

lwd 0

bl 5bd 65cb 20gr 10s

br 5ao

sd 5ao



little more rip veg at 71' from 2nd wide 5th p. (willow)

Sloughed with water at 60m due to w/c bank.

\* 3 up to grass have fallen from bank above and by 1m back from flow (0.5m x 10m) on cd.

LEVEL



of 60m.

29

0.75 (2)

$$\begin{array}{l} 3: \\ 2: \end{array}$$

Na 36 50 57

00

AC 212

LWD A pc - 1 pc tree (liv. CW) sighed

from Rbk, 3 pc - 144 Cedar

fallen (dead) due to extremely under

Cut + Sloughing bank 15mwc

5b 10bd, 5d cb 20 gr 205.

DL 5A0 - some sm. woody debris.

deposited on bank. (negotiated)

The band is 4 m vert. under cut

is sloughing over & sliding

at 70m

bfn 40.5

bfd 4m

WN 17.3

WD 38 69.82

CC 20 CN

RC 5 maple juv. cedar.

Sb 10 bd 50cb 20gr 20S.

LND small branches accum. at

down.

BL SAO

R 3m cut bank w/ extensive

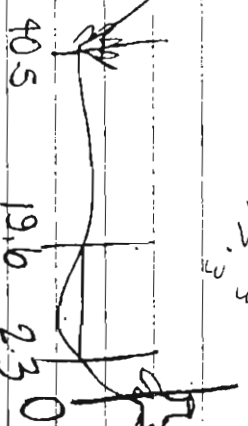
soot OH, maple OHing slightly

- rootwad (tree cut) too high

on bank to be of much fish

valve at this time.

19.6  
1.2.3



at 80m

bfn

bfd 35m

WN

WD 32.43.49

CC 25 CN

RC 0

LND 0

Sb 10 bd 50cb 25gr 15S

BL SAO

BR 2.5m vert - undercut (at

80m w/ cutting a large CN)

bank in family undercut w/

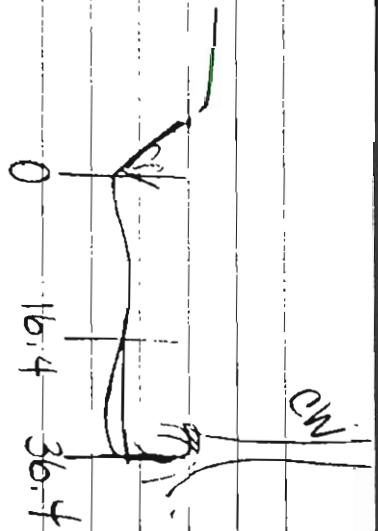
- root OH 9 moss growth on top

of bank

R.O.S. on to present along

bank here.

CN





at 50m.

b/w

b/d

WV

wd 31, 33, 25

CC 2.1. R. alder

RC 1.1. R. alder, CW.

LWD sm amt of sm branches accum

SB 5 bd 50 cb, 30 gr, 15's

LB-SAO

RB - undisturbed slightly w/ root

abt - moss, at top bank, dry at this time but plants would provide adequate cover for fish

Cedar, 55, S. alder

at 100m

b/w

b/d

WV

wd 40, 42, 40

RC 2.1. S. alder

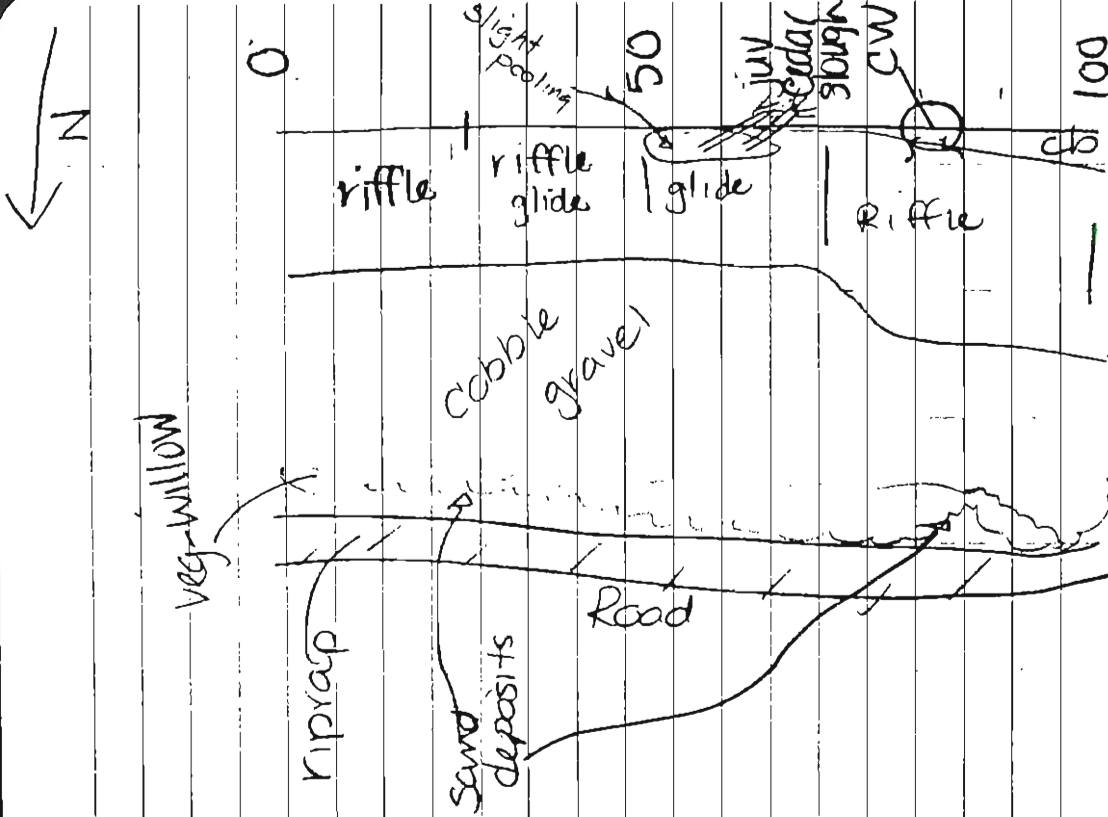
RC 0

LWD SA 20

SB 5 bd 50 cb, 30 gr 15's.

LB SAO

RB - no as cut at other sites - beginning to slope to fl bl - juv. rip S. alder. Cobble here is cover in dark lichen/moss.



LEVEL



Locality

10m 310m 300m

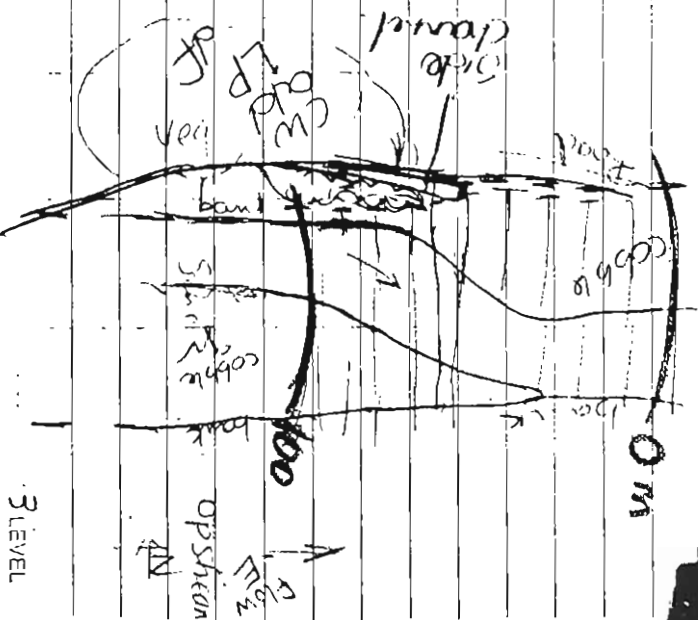
23.05 Shift 2

4 Sept 1996

Umanen Rr

REACH MID. 2

SITE 3



N bank ① HS facing d/s  
CC - entire bf width

14 Sept 96

SITE 3 Tulameen RV

River flowing E for entire reach (100m)

Gradient = 2%,  $T_{10} = 5\%$ ,  $T_{50} = 14\%$

at 0m:

bfd 2m

bfn 24.4

WWD 16.9

WWD 2.2 max 1.5m

CC = 0.1% CN RC

Subso 45GR, 25CB, 15S, 5ED, 10BRK

WDo-10 2pc 2% wetted cover

Bnk: N: eroded, unstable, steep, unveg.

Shale, some silt material in

stream, RD at 15m to 6m

S: 2m undercut, root OH, some

ripar. veg, tree lined - cottonwood df.

0m - 20m : Pool

20m - 100 : RIFFLE

\* GPS

FILE #

@ 0m 5092500A

100m 5092500B

Stellers Jay \ Mtn. Blue Jay?

Magpie

at 10m

bfn 37.3

bfd 2m

WWD 14.2

WWD 2.2

CC = 0% RC

Subso 35GR, 30CB, 1%BD

WDo-20 1pc 2% wet

Bnk: N: eroded, unstable, steep

Shale, some silt material in

stream, RD at 15m to 6m

S: 2m undercut, root OH, some

ripar. veg, tree lined - cottonwood df.

0m - 20m : Pool

20m - 100 : RIFFLE

\* GPS

FILE #

@ 0m 5092500A

100m 5092500B

During flood event, 4 veg

several - mature tree stand

of df + CW.

LEVEL

@ 20m

bfd 2m 42.2

WD 0.5 0.75 0.95

CC 30 0% 12 C

29 GR, 35 CB, 35 S, 1 BD  
LMD 4PC 10% of veg d: cat wad OH

Brn N steep ended moved slide

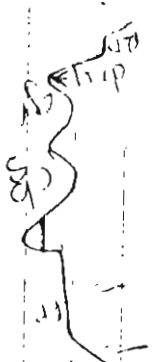
RD 21 Brn 2m 1m from  
creek edge (dip), OH veg 20m  
df + shrub, no obvious evidence

of logging.

S: 5m culbact, OH see

note @ 10m

flood prone 75-100m veg df forest



LP 100% pore pine

20m 49.5m

bfd 5m

WD 0.5 0.75 0.95

CC 30 0% 12 C

29 GR, 35 CB, 35 S, 1 BD  
LMD 4PC 10% of veg d: cat wad OH

Brn N steep ended moved slide

RD 21 Brn 2m 1m from  
creek edge (dip), OH veg 20m  
df + shrub, no obvious evidence

S

5-10m 2m cat see 22  
at 10m 100%

SAMPLE VEG 1. SNOWBERRY

leaves paired white  
red shrub  
stem  
parallel  
veins

LEVEL



P - Ponderosa

@ 40m

bfw 54.8

bfd 4m

lwd 16.8

wd 2.5

CC 40-50

50 to 50-150

LWD 20-30

PC 40-50

BH N 5m

Veg @ ~20m

RD

D: see note at 10m

↑ root OH, w woody debris

high on bank + LWD / root and

OH (not OH wct)

Side channel

ww 3.4 m

wd 0.02 m

bav 29.7 m wide

algae

33.1

54.8

sp. side

Channel

PP

VP

CB

GR

CB 7.5

GR CB 7.5

GR CB 7.5

GR CB 7.5

GR CB 7.5

GR CB 7.5

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GR CB 7.5

GR CB 7.5

GR CB 7.5

GR CB 7.5

GR CB 7.5

GR CB 7.5

@ 62m

bfd 69.6

bfd 3m

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

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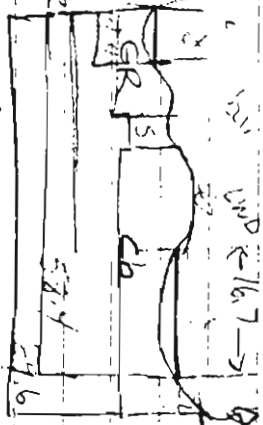
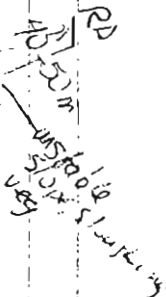
wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7



at 10m

bfd 69.6

bfd 3m

wd 16.7

wd 16.7

wd 16.7

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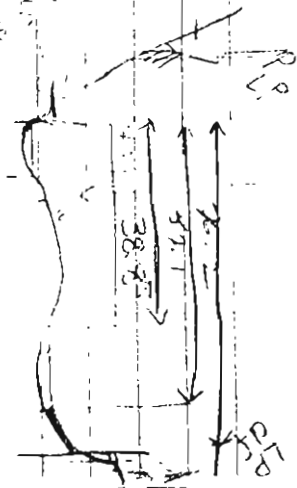
wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7



at 10m

bfd 69.6

bfd 3m

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

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wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

wd 16.7

LEVEL



@ 80 m

bfw 57.4

bfd 2 m

ww 15.2

wd 2.40 m max

CC 80% (of wet) 0% 20

Sh 150-90 75 cb, 10gr 25 Sbd

LWD 4 pc, 0% wet (cu. high on S bank)

RC 0

BK N - flat pane - <sup>15g</sup> growth on cobble bar

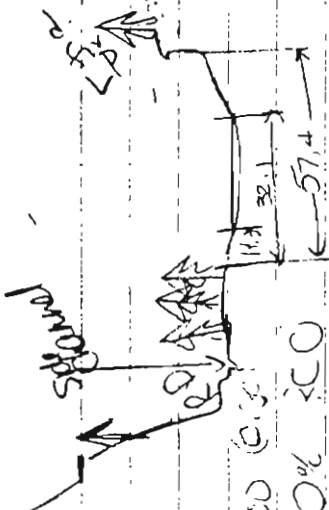
veg to road with side channel

bountiful wds from veg (↑ woody debris build up) - Cw, A, LP, df (live)

S - cobble 1% slope to undercut

LWD + rooted OH, young fir on top of bank

side channel:



@ 90 m

bfw 54.2

bfd 0 m

ww 18.8 m

wd 3.45 m max

CC 80% (of wet) 0% 20

Sh 150-90 75 cb, 10gr 25 Sbd

LWD 3 pc, 0% wet (cu. high on S bank)

RC 0

BK N - flat pane - <sup>15g</sup> growth on cobble bar

veg to road with side channel

bountiful wds from veg (↑ woody debris build up) - Cw, A, LP, df (live)

S - cobble 1% slope to undercut

LWD + rooted OH, young fir on top of bank

side channel:



BK N - flat pane - <sup>15g</sup> growth on cobble bar

veg to road with side channel

bountiful wds from veg (↑ woody debris build up) - Cw, A, LP, df (live)

S - cobble 1% slope to undercut

LWD + rooted OH, young fir on top of bank

side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

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side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

side channel:

at 100 m

bfn 51.9

bfd 2 m

wu 18.6

wd 0.4 0.5 (0.3)

cc 1% CN

SD 6005, 205, 209

LWD 1 pc 0% LWD

RC 0

Ek N: cobble slope to veg (fld plane under

normal flows, poss side channel use

under high water cond. - mus. Veg plane

df. LP, yellow as a pattern, sand deposits

in veg area. → to bank & RD then

valley confined by steep slope. veg w/

forest h<sup>2</sup>, df, A, Chew. RD width is

Tulameen River Rd.

5. cobble & 1% slope to underfoot

bank (Cb is actually <sup>part of</sup> channel

to undercut bank. 2 m - w/ woody

debris most on top of bank over

hangings



29 Sept 96 TULAMEEN RIV. REACH

SITE (12) MIDDLE 1 (4)

GPS 100m (bridge) 5092501A 648240 5483172

am 5092501B 648278 5483212

TULAMEEN RIV 100m: Champion Road

bridge 0m: 50m s/s of bridge

Flow is north

Site is 50m on straight riffle (NW)

down. Cobble bed ex. base to E. 30m

from major channel. note roadways.

↑ will build up on point bank

result of flood. Drains north

flow's may be cover in fish

bed near this point. <sup>just</sup> ~~just~~

flowing over cross section. 1' m

above water has a small

amount of undercut. 10' to

east on the far side of the bank

is a cut block overgrown with fire

weed, was planted in 89, 90 + 95

w/ pondus. Entire b/w width is taken

into account for all measurements

T°C = 9.5°

G = (0-100)

0-50 1.5%

50-100 2% LEVEL



100  
20m

bf N

bf d 1.5

uw

wd 0.3 0.4

cc 0.3 0.4

hc 0.3 0.4

SD 60CB 30bd 10 gr

LWD 0pc - ~5pc high on

island on R bank - no live to fish unless ↑ flows.

BL - flood phase ~50m veg. S. alder

vine maple, CW, SS. Th. & brn

Bank is undercut @ 15m

rooting OH, trees SS sloughing

veg OH - over due to hole / od.

R2. Undercut ~3m dry at present

heavy waste due to flood, no

stability due to "clearcut" above

undercut → slope 10m + d.

Island. Banks have woody debris build up

old growth (mature veg) CW, SS

S alder

20  
20m

bf N

bf d 1.5

uw

wd 0.3 0.4 0.3 0.3

cc 0.3 0.4 0.3 0.3

hc 0.3 0.4 0.3 0.3

SD 100bd ~0.00 20 gr

LWD 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

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at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

at point of 100bd ~0.00 20 gr

80

@ 80 m

bf w

bf d 1.5

ww

wd 0.30, 0.45 0.30

CC 0.20 20% SS - Seignioring the bank.

PC 0 wmc - pass more during higher flows

but wmc if bf w full - 10% cover

so 20bd 70cb 10gr

LWD 1 pc 20cb 10gr

SS - Slapped at 6 m stand still

standing on bank

BL > 10 m flood plane

SS Solder CC, Thistleberry

bank is adjacent to cobble

slope to ww.

B. same as 0

log jam

clean cut



70

@ 70 m

bf w

bf d 1.5

ww

wd 0.25 0.30 0.30

CC 0.20 20% SS - Seignioring the bank.

PC 0 wmc - pass more during higher flows

so 20bd 70cb 10gr

LWD 1 pc 20cb 10gr

SS - Slapped at 6 m stand still

standing on bank

BL > 10 m flood plane

SS Solder CC, Thistleberry

bank is adjacent to cobble

slope to ww.

B. same as 0

log jam

clean cut

no veg

wd 0.30, 0.45 0.30

CC 0.20 20% SS - Seignioring the bank.

PC 0 wmc - pass more during higher flows

but wmc if bf w full - 10% cover

so 20bd 70cb 10gr

LWD 1 pc 20cb 10gr

SS - Slapped at 6 m stand still

standing on bank

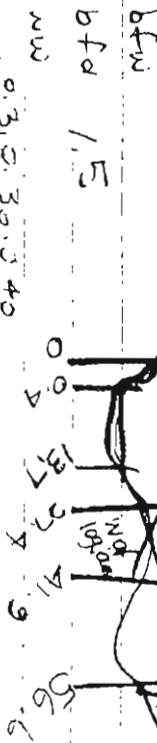
BL > 10 m flood plane

SS Solder CC, Thistleberry

bank is adjacent to cobble

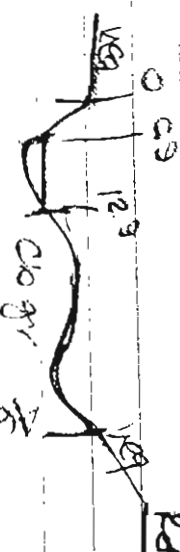
LEVEL

60  
at 40m.



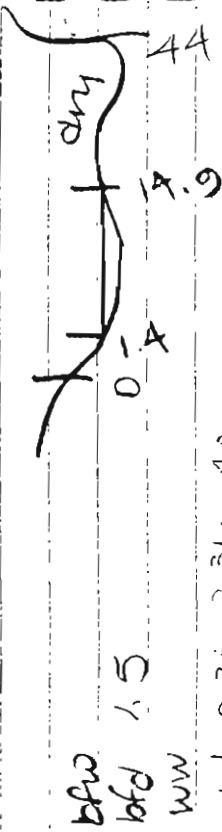
bfd 1.5  
wd 0.3, 0.3, 0.3, 0.4  
cc 5.1, 5.1  
RC 10' 5' sadder.  
LWD > 10 pc too high up bank left bank 4' log jam in st.  
Sb 5' bd 105 45 Cb 40 gr  
Bl cut bank w. 1 m up root OH &  
OH veg Sadder, cadw.  
A same as 30.

@ 50m 50



bfd 1.5  
wd 2.5, 4.5  
cc 15 55 Sadder  
RC 4.1 5 sadder  
Sb 10 40 Cb 40 gr 105  
LWD 2 pc no cover presently. high +  
(ss will soon be some valuate  
lwd)  
Bl 5a 43  
BR " "  
12 and 10 no longer ca - 3000  
gravel and sand dries. few (eg, wd)  
veg but no pines or we.

40  
alt



bfd

bfd 1.5

WW

WD 0.26 0.31 0.40

CC 50-100 10% Sloughing 55.

AC 2/ 5 alder

SD 15/10d 35Cb 30gr 20S

LWD 2 pc < 1% of WWC

BL Same as 50

one large spruce sloughing

root wad undercut providing

some cover, ↑ in riparian forest

A gravel/cobble bar to outbank.

less erosion here, gutter slope

from left w. S. alder, maple

fire weed.

Island - Bare gravel/cobble

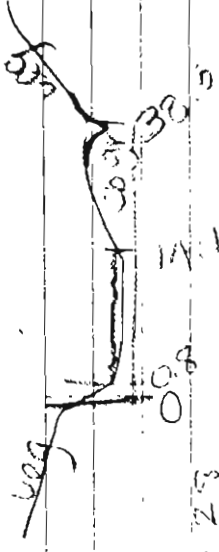
same sand deposits

Some gravel areas suitable

for spawning - are Cb size

~ 20 cm

270 30



bfd

bfd 1.5

WD

WD 0.26 0.31 0.40

CC

AC 2/10 S alder

SD 40Cb 10 bd 35gr 15S

LWD 2 pc 1 pc in island

1 pc high in - some - no value

unless it is located

BL

> 10m flood plane for 5 Spr.

S. alder not appears

under cutting is killing it (only 1)

whistle berry willow

A. Cb island to dry channel,

cut bank + gravel / 5m

cb is deposited against

bank - S. alder, squishum

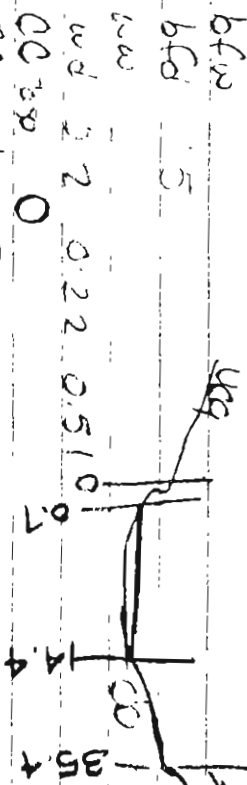
young Cb, young cedar - not

willow

LEVEL



at 80-20



bfc 1/5 sadder

LWD 1 pc plus 1 high on bank

Sb 40Cb 35gr 15bd 10S

LB 210m fl plane. foot SS. Sadder

along bank - abundant burnt - roots  
of aspen exposed

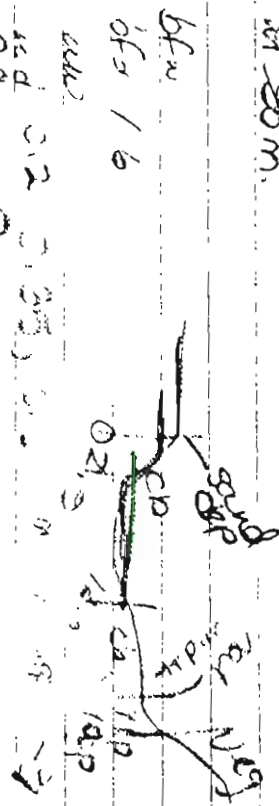
Vine maple, Thistleberry,  
willow - very little OH.

BB - boulder riprap placed  
for bank stabilization - higher

up slope - S. aspen, firwood

- from w. scabole / gr - sloping  
1/1 to bank.

at 80m 10



bfc 1/6

w 0.2 0.35 0.4

CC 0.2 0.35 0.4

LB 1 pc 0 w/c high on bank

Sc 50Cb 40Gr 10Cc

B1 - flood plane parallel road

no waterlogging concerns at

first. Very strong S. aspen

thistleberry vine maple, willow

0.4m high. Sand deposit

above bfc - strong flood vent

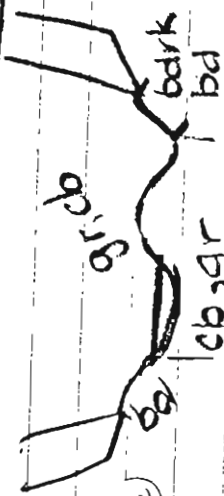
to road.

Q. Mostly boulder riprap - bare

01007m

26.2 24.4 14.9 0

BR



b/w 30

b/d 2.5 (bridge)

ww 8

wd C. 20, 0.55 0.55 (2m)

cc 0

RC 0

Sb

BL

BR

LWD

bd 20, bdk 10, cb 10, 50 gr 10 S

Cement wall - riprap bd

same as L

flow

confined by bridge during flood

LEVEL

Sum start.

2<sup>x</sup> Flicker (RD)  
2 whistlers JK5

25 Sept 96

@ Tulameen Pipeline km 26 MDE

sign: RD closed, wash out just past  
this sign. Player miners.

Wich Falls Recreation site @ km 34

Tulameen River US

Site 4 REACH 5

Temp T = 60C

Ac opacity

Hab. types:

0-10 m Pool G=0:

10-25 m<sup>11</sup> (1950) POOL 4.5G

- Sarcophagid / Pds of mud: Riffle

25-35 RIF FLE

35-50 GLIDE

50-60

little substrate G=40'

Ground direction NE at 100m

E ad v 50m, 9 NE below pool.

ORV 5468103N

0m

650830E

GFS file

5092523A

cleared area  
50m from  
trucks

5092523C

uphill from

Site 4

Tulameen  
headwaters



0 100  
ds us

SITE 4

UPPER

TULAMEEN RIVER REACH #5

@ 100 m \* 100 m w/s to 0.4 d/s

① ↑ ② ↓

bfn 8.9

bfd 0.4

ww 8.9

wd 15.7

cc 30-100

sb 60cb, 10bd, 10gr, 10s

lnd 0%

bank L 40m undercut w/ veg

+ root overhang - slope veg

flood plane + herb

R 20m undercut w/ veg

moist/grass to flood p/

confined, steep, stable

b/c veg

veg

equisetum

veg 4

fl. giver

dandelion

bedstraw (lg)

veg 5 (pod)

lupinus sp.?

false wly

too late to determine which sp. had post-flower regrowth

21.4/5.7

15.7

max 25

LP, veg 3

RC

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

RC 10% willow

@ 90m

bfn 7.9

bfd 0.4

ww 7.9

wd 12.7

cc 30-30

50 70% cl, 15% bd, 10% gr, 5%

RC 10% willow

LND 0%

BK L

undercut w/ veg & catch

store as 100m

R. Surrogate com.

veg 6

C. yellow fl.

SD Northern Goldenrod

Solidago spathulata

LEVEL



@ 80m

71  
12  
99

bfd 7.1

bfd 0.4

wu 5.9

wu 15.13, 19.13 ave 16.5 max 19

CC 10% 10% LP

RC 10% with grasses

SD 20bd, 60cb, 15 GR, 55

LWD 2P, 15% (OH)

BL: 1m fl pl, 0.4 veg, 1.10m

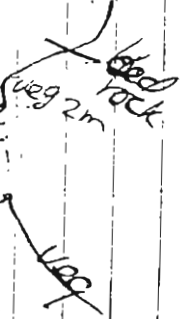
shrub dry 1.2m

R SA 70

Sample VEG 7



ocean grass  
mhor's lettuce



@ 70m

bfd 7.8

bfd 0.5

wu 7.8

wu 11.14, 26.31 ave 21 max 31

CC 15% LP

SD 15cb, 70cb, 10GR 55

RC 10% willow

LWD 0%

B L steep, bedrock, standing

slightly overgrown with

moss + grasses, appears

to be sliding off the

bedrock.

- 0.10 OH at creek, all

bank - no flood plane

R 15m - 1 plane then

quitting sloping 0.4m

outbank - OH veg, moss

willow etc



@ 60 m

b/w 6.0 m

b/d 1.0 m

ww 5.6 m

wd 20.35 41 ave max 32 41

cc 25% LP

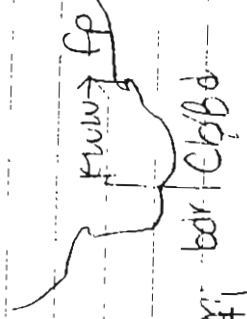
RC 100% willow

sb 20 bark 30 bd, 40 cb 5GR

LWD 50-60: 1 pc 10% WWC

B L block-stump 3m high w/ veg cover

R sloping veg fl pine stable some woody debris C0.4 creek bed dry (ch)



at 50 m

b/w 8.3

b/d 0.6 m

ww 7.1

wd 1.5

cc 10% SP 32

sd 10 bark 40 bd 45 cb 5GR

RC 20% will

LWD 0

B L bed cut pine + willow OH

(d/s end of pool)

R (dry gravel (1.2m))

under cut (0.1 m) cut

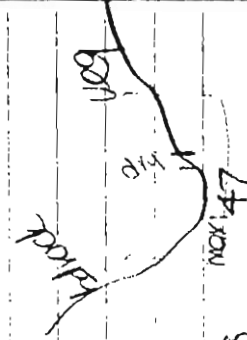
veg OH. ↑ riparian willow

cover but channel is dry

fl pl slopes gradually

for ~ 20 m then ↑ up

hill LP forested area.









@Om

bfw 6.0m

bfd 0m

wu 4.6m

wd 1.1 m/c 8m/10

cc 10%

pc 1%

sb 10 bcl/rk, Eoch, 30gr 10S

lud 1 pc, 5% + root used at h bank

ft h. underwater, sloping flood plane,

detrus (woody) along bank, OH willow

rooted on bank & trunk across

channel & 0.5m above water

1 LP along jump will lead into cu

son

R: back bank w/ steep slope

no flk. LP on top of bank

on veg. d.





SITE 15

Arrastra Cr. Lower

Reach 1 29 Sept 96

GPS

FILE 5092923A

663020, 5476129

~~NO~~ PHOTOS. Naville's camera

Gradient of culture reach is 4.5  
Temp is 8°

Creek is dominated by agging  
wood (5-10m leave strip) on

left bank (further by a

clean cut. The flood plane between

creek bfw and road is littered

with woody debris, w. veg w/

S. alder, few mature SS & CW

The right bank has very little

flood plane area and is confined

(absolutely in some areas) by a

strip bank - forested w SS, few

diff. The riparian zone has

S. alder, few willow. The flow

is generally unconfined - large bfw

& shallow bfw. Some undercut areas

are not withstood during low flows

@ 100m

bfw

bfd 1.4

ww

wd 26, 33, 30

CC 10 SS

RC 25/5 + 10er

LWD 2 PL 10 WWC

Sh 10 Co, 65 gr, 20 S 5bd

BL: 2m - 10m gravel bed

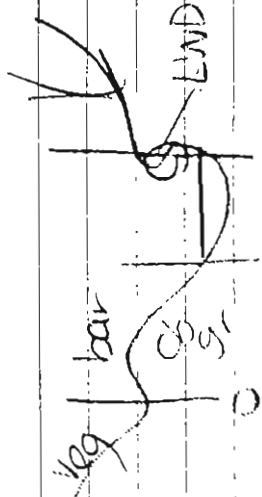
native CW, SS, S. alder,

willow.

Cornel gravel point bar

R: undercut 1m veg 0.4 -

wet OL



LEVEL

@ 90m

bhm

bfd 1.4

ww

wd 21, 26, 23



0 29 7.6 9

CC 5 SS

RC 20 S Alder

Sb 5 bd 20 Ch 60 Gr 15 S

LWD 3 pc - 0 wwc high on bank

BL 1 plane @ 2m woody debris deep on bank

R woody debris on bank

sloping to > 60% veg SS

S alder

woody debris deep on bank

no cover presently, ↑ during higher flows.

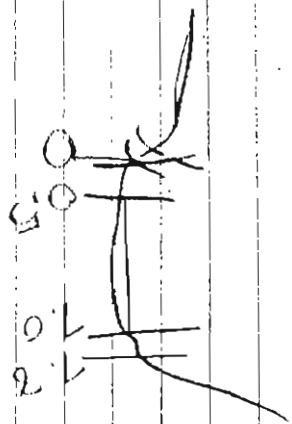
@ 80m

bhm

bfd 1.5

ww

wd 18, 12, 23



CC 15 CU

RC 15 S Alder

Sb 5 bd, 25 Ch 50 Gr 20 S

LWD 1 pc 2m high on bank w/ root wad 0 wwc

BL ch slope to 0.2m undercut bank w/ veg OH & root OH

dh

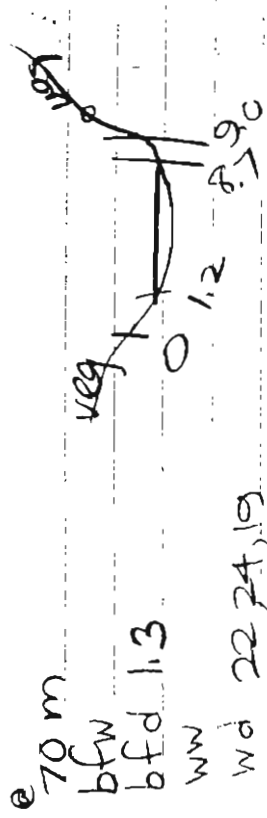
h

30m deep around scudger

dh

LEVEL





@ 70 m

b/w

bfd 1.3

ww

wd 22.24, 19

cc 0

RC 10 5 Alder

Sb 11' cb 60 gr 25S 4bd

LWD 0

BL slope to fl plane

S alder & willow OH

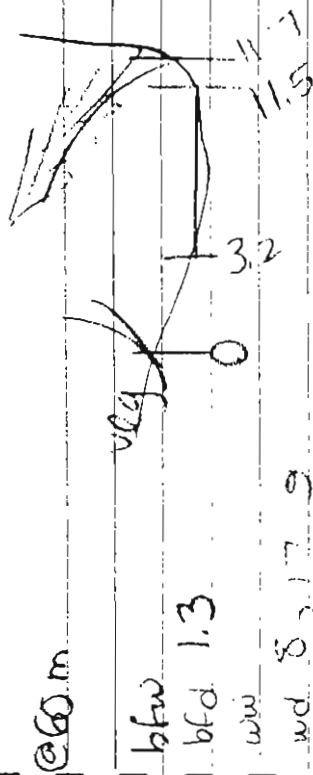
R steep slope - no

fl plane - undercut bank

~0.4m w/ woody debris (S)

OH, some 29 04 S alder

creek is undercut - less  
confined than @ 100m  
from 60-70m



@ 60 m

b/w

bfd 1.3

ww

wd 8.17 9

cc 40 50

RC 5 wide, 20' S alder

L bank

Sb 30 cb 40 gr 30 S

LWD 1 pc high on bank - no

present value.

LB slope bank w/ veg OH  
willow S alder. Some undercutting  
but - bed w/ dry

R cut bank - @ 50m - undercut

beneath SS - rootwad leaving

tree will fall across creek.

Pooling beneath rootwad has

caused reconfining of stream

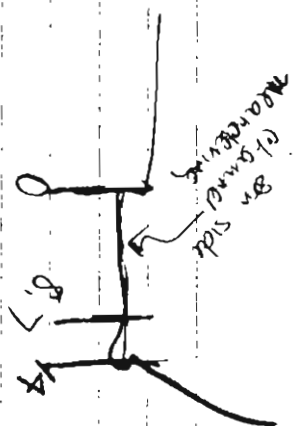
along right bank.

LEVEL



@50

bfw 1  
 NW 2, 15, 28  
 CC 40 CW  
 RC 0 wuc 15 bfw core  
 S alder, willow  
 Sb 10 bd 30 cb 40 gr 20 S  
 DND 1 provides w. 5, 1, 1 over w.  
 BL float bare flat mature CW  
 a SS - but few - S alder



abundant.

- bfw bank is undercut ~0.5m

w/ root OH but dry.

@ ~45m water separates 30cm

wide 5cm deep & flows

along L bank, some pooling

very little flow (trickle)

BR bank is undercut at water

level, slope from water

is >60' veg - forested, some

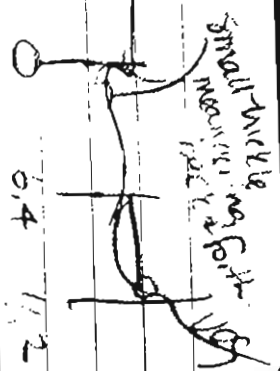
sloughing ~1.5m high

m & 5m woody debris line bank

cover value.

at 40m

bfw 0.7  
 NW 8, 14, 27  
 CC 20 55, CW  
 RC 20 S alder  
 Sb 3 bd 22 S 30 cb 40 gr  
 LND 1 dry Root parallel flow  
 BL cutback ~0.7m w/ root  
 on a S alder OH undercut  
 5cm on edge of point  
 mature



mature

superior soil 0.3m soil

larger, areas exposed below will

die off & fall into stream bed.

5m wide channel developing on

left bank - meandering

~30cm wide 5cm deep.

R 1 alder erecting in stream

cover, debris is small & unstable

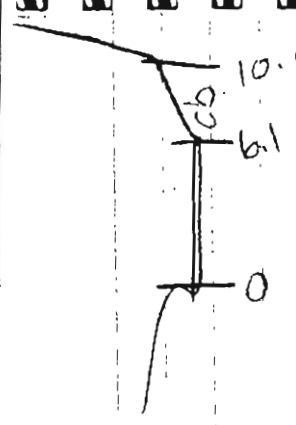
S alder is sloughing into stream

due to undercut bank. LND creates

R bank from 30-40m but high on

bank

LEVEL



@ 30 m

bfd 1.4

w

ww

wd 21.22.10

CC 0

RC 10 wwc 20 bfw cov.

S. alder willow

Sb 15 bd, 30 cb, 40gr, 15S

LWD 1 pc. part of bank - dry

BL undercut, sloughing Salden

OH, roots under bank

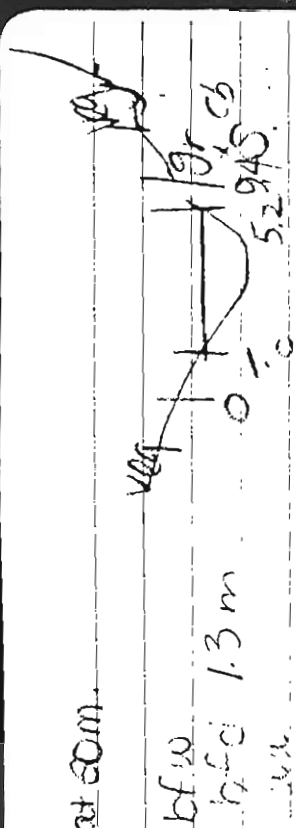
some pooling belows alder cover

+ fl at 1.4 m < 5% slope

BR cobble/gr - stream bed dry to

LWD, dry noted behind it

steep slope - no fl plants



@ 20 m

bfd 1.3 m

w

wd

wd 13.24.14

CC 20 CW

RC 15 S. alder

LWD 2 pc - plan or other

band no fish value @ present

Sb 15 br, 40cb 30gr 15S

BL slope 2% to 4% pl (4m)

then slope cleared.

NAveg OH (cut no cut bank)

R now site. Sand from flood

to foot of bank - 3m flood

plants slope bank - veg then

slope increase to > 60%, appears

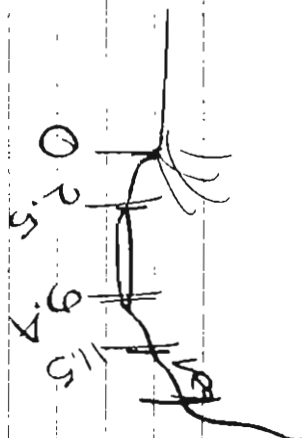
stable - vegetated SS off all ages.

LEVEL



at 10m

bfd 1.4



wd

wd 19, 25, 14

cc 10' SS

RC 15 S aluv

Sb 20 bd, 30 cb, 30 gr 20 S

LWD 0

BL 21 1.5 flood plane to foot

of clean cut ~ 20 m

cut bank, 5m woody debris

deposited along bank - unstable

veg (main) OH S alder

BE slope flood plane - for ~ 5m to

foot of hill

woody debris deposited along

bank

undercut @ 5m - 0m, root

OH, top soil & veg layer

stagnant

@ 5m

bfd 1.4m



wd

wd 11, 13, 14

cc 30 SS, df

RC 25 S alder, willow

LWD 1 pc material R bank, LWC

Sb 10 bd, 20 cb 60 gr 10 S

BL 5m flood plane @ 2m high

to road (road is 2m higher

again)

Bank is cut to a small

degree due steps leading

to creek bed. veg OH

exposed roots, present by

dry

R 1m bank, has been undercut

top rooted / mossy layer has

disintegrated over forming rounded

bank - LWD atop the

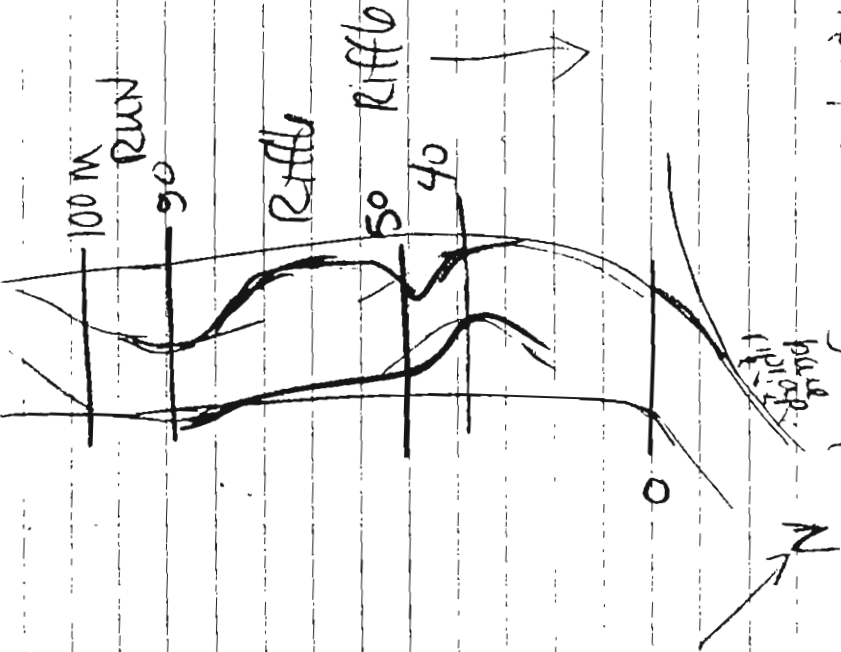
rounded bank - standing

the creek (inside but avoiding

bed)

# SITE 15

Below 0 m of Site 15 creek  
turn parallel to road 3 m  
above and 3 m away (45° slope)  
the bank (L) here is armored  
with 1" riprap the inside bank  
is sloping and slightly undercut.



SITE ③

photos 1-4.

SITE ①

GREENSTRA CREEK MIDDLE  
REACH 2

★ NO PHOTOS

23 JAN 36

GPS FILE 001 2920A

601252E 5475414N

10 m W from Greenstr Cr Rd

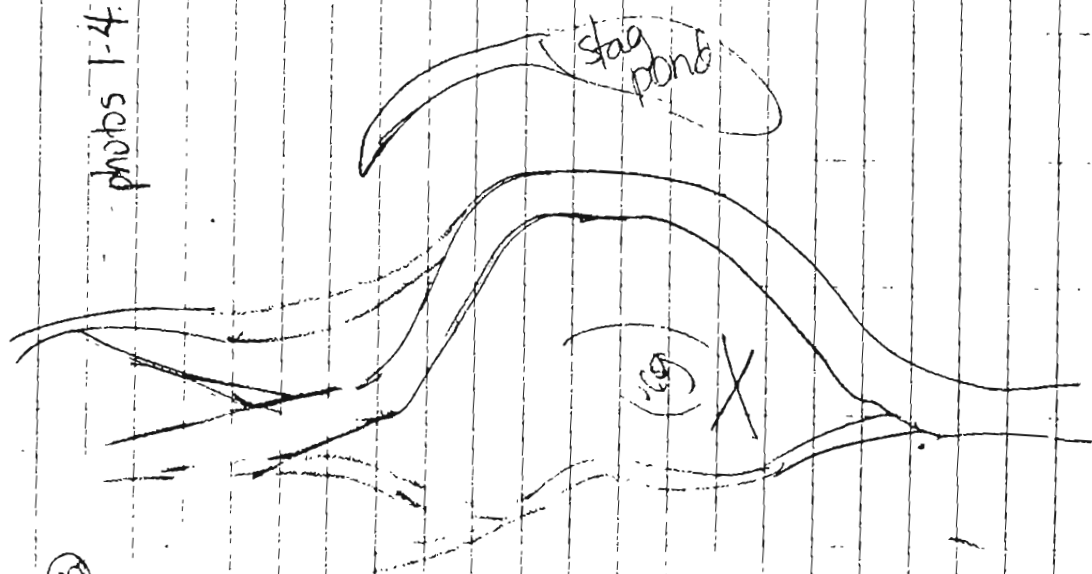
Flow is NE.

Flow is NE.

Flow is NE.

part of this creek is  
rainfall and adjacent to  
exposed upland area  
lenses 30 m or less creek  
Habitat is mainly riparian  
with small forested  
beneath riparian stands  
woody debris build up  
and of up d/s side  
of a large log jam. Woody  
debris of all sizes line  
the creek high on either  
bank.

LEVEL





@100

bfd

0.4

wd

26, 2.8

cc

70 55

rc

15 3 pinner

sb

90 Gr 10 S

LWD

3pc 0.1 wuc

BL

cut bank 0.3m cut w/

BR

grass ch (+ root OH)

LWD bank w/ sand fill behind

+ veg on top - OH willow + B, Ald

equisthm, lupinus + freweed

~ 8m wet plot. to road 15m

horiz distance)

Gravel part bar R side of channel.

80% flow tendency



at 90m

bfd

0.5

wd

26, 2.8

cc

70 Gr 30 S

rc

15 3 pinner

sb

90 Gr 10 S

LWD

cut bank 0.3m cut w/

BR

grass ch (+ root OH)

BL

LWD bank w/ sand fill behind

BR

+ veg on top - OH willow + B, Ald

BL

equisthm, lupinus + freweed

BR

~ 8m wet plot. to road 15m

BR

horiz distance)

BR

Gravel part bar R side of channel.

BR

80% flow tendency

BR

LWD bank w/ sand fill behind

BR

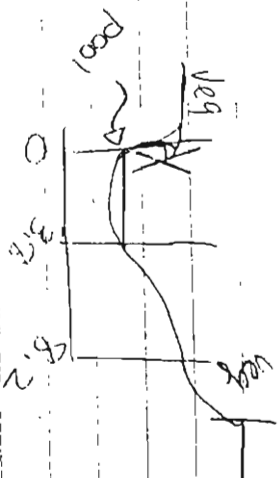
+ veg on top - OH willow + B, Ald

BR

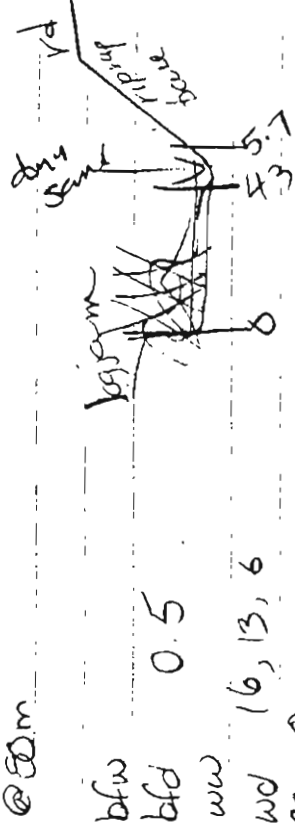
equisthm, lupinus + freweed

BR

~ 8m wet plot. to road 15m



@ 50m



b/w

b/d 0.5

ww

wd 16, 13, 6

cc 0

RC 2% com willow

Sb 10' bed (x 2m diam), 70gr, 20S

\* entire R bank is 45° slope (and to 80m - straight & riprap R.B.)  
- 1ft riprap amount (from 50m - to 80m)

LWD

> 15 pc - 10m long logjam

~ 2.5m high on L bank

good cover for fish - dissipates

energy of flow by hitting

riprap 60% wnc

B L logjam

R riprap

SEE

\* might consider veg riprap above  
hwmant

NOTE 1! LWD pc across ww caused gr & S  
to deposit up of 1+ - step or 0.8m high

at 70

of 70

cc 0

wd 16, 13, 6

cc 0

RC 50 wnc

Sb 10' bed (x 2m diam), 70gr, 20S

CC 0

RC 50 wnc

including side channel

LWD > 10 logjam + sandy rev's

other small pc deposited

along bank (L) DMC

LB logjam (created side channel  
branching @ 80m)

R riprap

LEVEL

60m

bfd 0.5  
wud 16, 10, 17

CC 0

RC 30 (S. side OH from L bank only)

SP 30 CD 40 gr 30 S

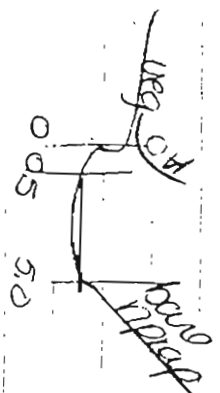
LWD 4 pc - mblty on bank

1m OH - some cover (5:1)

BL slope to OH veg + slightly undercut bank LWD and

L bank only

R Repair



side channel re-enters @ 65m

50m

bfd 0.5  
wud 16, 17 15

CC 0

RC 25 1 L side empty - willow

\* S. side

SP 15 CD 65 gr 20 S

LWD 2 pc (wood), provide 5'

willow - no incorporated into

riparian & L bank - stable, will

provide arc cover during higher

flows

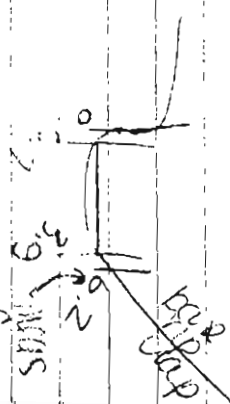
BL flood plain @ 1m

bank cut - no veg OH - willow

S. side, woody debris deposited

on bank

R Repair



\* tributary enters @ 50m 33.2m

wide at mouth?

wd 9, 12, 18



at 40m

bfd

bfd 1.5

wd

wd 21, 16, 12

RC 20/ S. alder + willow.

CC 10/ CN.

LND 0

So 5 bd, 50 cb 30 gr 15 S

BL 1st plane @ 1.5m vert

bank is slightly undercut

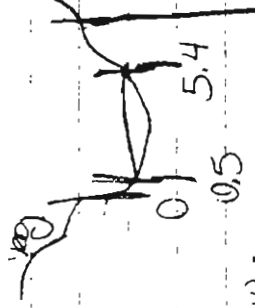
So scoble to root & trip OH

BR slope scoble gr to veg - in 1m

to road above bfd w. veg in 1m

S alder, S spr. 1 mature CW.

some grass, few equisetum



e30

bfd

bfd 1.5

wd

wd 21, 23, 25

RC 20/ willow

CC 5 SS juvenile

Sb 5 bd 30 cb 40 gr 25 S

LND 2 pc 5/ willow + 1 pc 10/ willow

1 pc high on R - creek at

edge of bfr. vegetation at 1.5m

BL undercut ~ 0.3 m w/

extensive root OH - exc

has turning high flow in LND

BL

R sloping CN gr in LND lying

parallel to flow at beginning

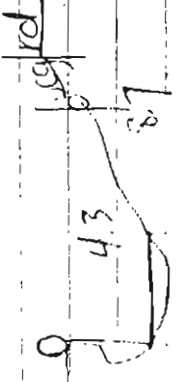
of road veg: CW, S alder,

willow

2-3 m of veg to road.

veg here covered in dust,

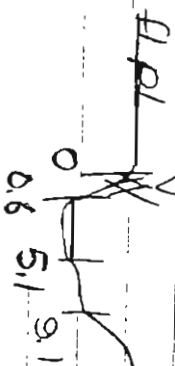
evidence of road mite on S alder



LEVEL

@ 20

5m woody debris depos.



bfd

1.5

wud

20, 21, 20

CC 10/55 SB 606r 20Cb 20S

RC 2/ wuc of live riparian

vegetation

LWD 4-5 pc 2 juv SS trees

have fallen across wud but are too high to be a barrier.

At root wud, value!

- med + sm wud shrub up on bank ~ 2m high & covering ~ 30% of wud

BL undercut w/ fallen trees, LHM &

5m wud deep on bank & against bank. May not survive high flow (freshet). Presently providing

good cover.

R Slope to veg willow planted & 2 young SS 3-4 m to roadside.

@ 10

bfd

0.9

wuc

22 20 5

RC 15/ Salter

CC 40 CW SS

SB 706r 10Cb, 20S

LWD 8 pc 0' wuc

BL undercut ~ 1m with undercut & veg on top of bank and build up on top of bank and along to edge - 3 LWD

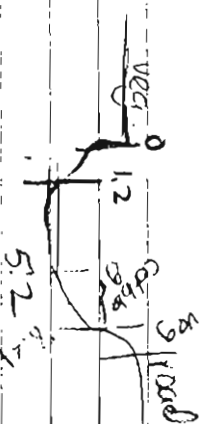
as well. Good cover during higher flow but high & dry presently

R Slope to rooted veg (SS + poplar) 1m cut bank (not undercut)

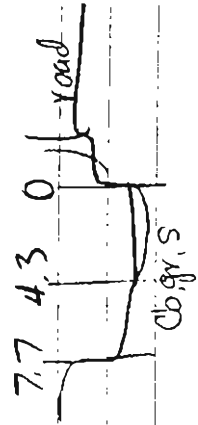
w/ rip veg on bank. LWD deposited above high water mark (freshet) from the flood as well as med

+ sm debris deposited along bank.

veg ~ 3m wide to road.



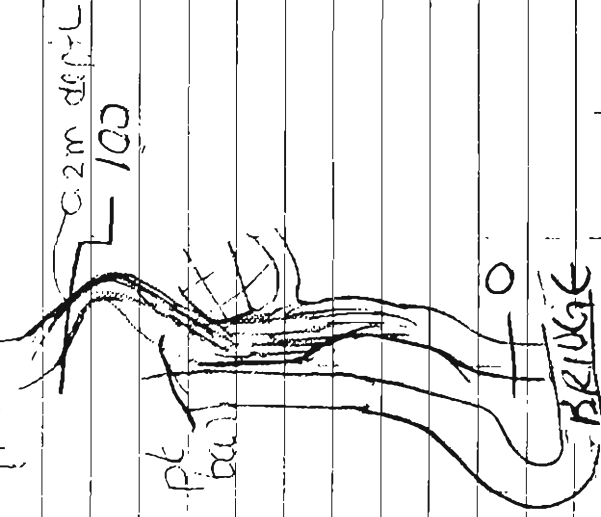
0 m  
bfw  
bfd 0.9  
ww  
wd 2.2, 2.1, 1.8  
CC 30% SS + CW  
RC 50 Sander, willow  
Sb 30 cb 40 gr 30 S  
LND 2 pc, 0 WNC - high tide on RB.  
BL slope cb to 1.5 m bank w/ veg  
OH S Alder, willow



SITE 14

100 - 80 1.5 %  
80 - 20 3.5 %  
20 - 0 2.5 %

0 - 3 Ruffle  
E - 15 Gicle  
15 - 30 ruffle  
30 - 35 gicle  
35 - 100 Ruffle



R cut bank - moss sloughing over  
cobble, veg OH. M woody debris  
deposited along bank S m & Lag

LEVEL



23 SEP 90

REACU 3

UPPER

SITE 13 AERASTRA CR.

GPS FILE

5092917A

road - 10m

658272 5472858

100m 5092918A

15

657600, 5472733

Creek is located through forested  
area S. Spruce, birch, S. Alder &  
some willow predominates. Substr  
is mainly cobble/gravel littered  
throughout. Woody debris accumulated  
Impacts due to flood are extensive  
absolutely, no channel confinement  
area logged - stumps abundant  
throughout.

Few S.S. juveniles - but no

mature trees on entire flood pl.

Rainbow are abundant in small  
pools with good cover.

Temp. 8°C

Gradient

0-20 0.5

NE 0-50

20-50 8

N 50-30

50-70 5

NE 0-30

70-100

45

100m.



bfd 0.3

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

wd 7cm

B L Sloping bank, stable, veg  
good cover

R fl plane cobble gravel

Sb 20006 3gr 205 - canis part

LND 10 PC 30 NW

HC 30/5 Alder willow & currant

SPR

8cm (spore)

gr/cb deposit throughout to cile in cut

Pond

cut

at 20

bftw

bfd 0.7

ww pond

ww chan

wd pond (L) 8 cm

wd chan (R) 5, 9

RC 25%

CC 10% SS

Sb 40% S (backwash), 10 ch 50 gr

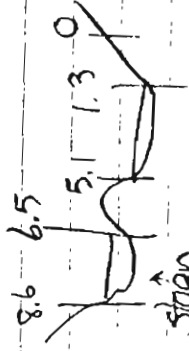
LWD 2 pc 5 wwc

BL cut veg 0.4 x 0.2 m - fl plane flat

R 1' slope to veg - flat fl pl

151: Sand w/ nearby dep

bc eddy no flow



sand pond  
backwash

at 10

bftw

bfd 0.4

ww pond

ww chan

wd pond 3 cm

wd chan 1 lb

RC 90% willow S above

CC 20 SS

Sb 80 gr 20 ch 10 S

LWD 6-7 20% of ww-main

channel

BL fl plane w branches (mending)

through veg area

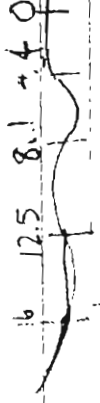
R fl pl flat w veg throughout

replanted?

\* L at channel: 30 cm flow diverting

to L rejoins channel at 100 cm at

lag jam



sand pond  
backwash

LEVEL



at 30

bfn 0.7

wlc

wrc

wlc 14cm

wrc 32 cm main

CC 20-30 0

RC 80 / willow alder (OH)

Sb 80 5, 15 gr, 5 cb

LWD 3 pc 5

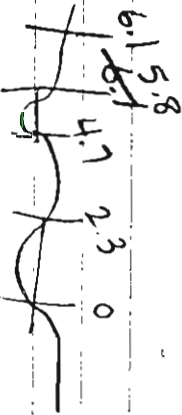
BL fl. pl almost flat, young fir

forest throughout

- alder, willow

R undercut bank, w/ ↑ alder

OH - excellent fish cover



at 40

dfn

bfd 1 m

wlc

wlc 16 cm

wrc 8

wlc

CC 5 / young 5 sp

RC 80 / willow 15 alder

Sb 80 gr 10 cb 10 S

LWD 4 pc - leaves channel to

Right provides cover

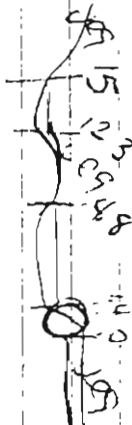
stump on L bank 7' HIC

BL 0.4 m outbank channel fl

Island - steep incline w/ up growth

young trees - up to 10'

R 5 alder - undercut bank - LWD



Side channel later here ~ 0.5m width.

L channel flow

@45m Stump in midchannel.

at 50



b6w

b6d 0.7

WW

WD 15cm

CC 0

RC 50 willow/alder

Sb 30cb 40gr 30S

LB undercut ~0.7m Veg DH

RB washed out - veg DH left

wd cobble gr debris from flood

LWD 710 deposit

Note RB-Cb + gr debris to 5m

@55 log pum + woody debris - during

flood split flow now diverts to

L

@ 42m 0.8m drop over LWD

spanning entire width of

stream - undercut; to pool ~0.4

m deep. Diverts flow to right

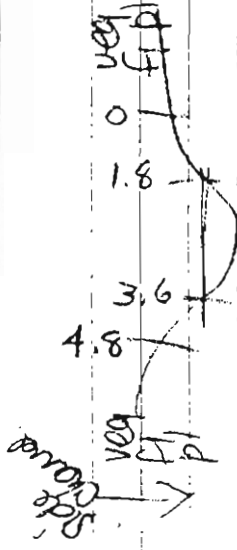
some channel debris along d/s

log pum to R here in/m causing

ch 4.5 dep (bar)

gr

at 60



b6w

b6d 0.9

WW

WD 8cm

Sb 30cb, 50gr 20S

CC 0

RC 15% willow

LWD

1 pc entire width ~0.5m

above water no cover

log pum undercut - some protect

↑ during higher flows.

BL build up of cb, gr along

bank, sm woody debris

deposits

R: Slope - mass on cobble - fl plane

is flat.

LEVEL

@ 70

bfd

0.4

nd

0 15

5b 50cb, 30S 20gr

CC

0

RC

10 willow s. alder

LND

2pc no value (you at point at riparian growth)

BL

cb/s slope to willow-side

channel - flood plane flat - dep

of c/s during flood + woody

debris build up

R

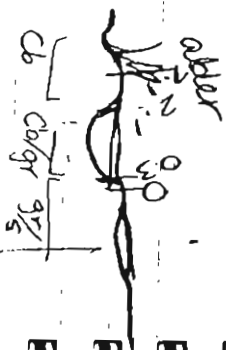
flat: flood plane sloping

gravel bank w/ veg. 5m

to stagnant pond ~ 10 m wide

2 huge stumps on bank, more

in flood plane.



@ 80

bfd

.5

nd

12

CC 1/2 SS

RC 20% willow

5b 30cb 40gr 30S

LND

2 pc < 5% willow

BL 1/2 bl dirt w/ veg willow

slope of bank

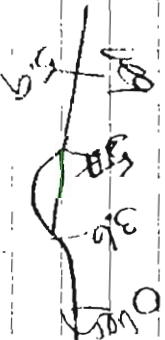
BR "

"

\* branches to L 0.4 m wide

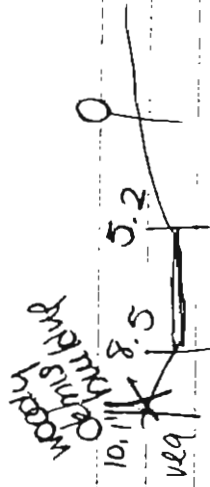
4 cm deep we jam at 100m

@ 100 m





@ 50m



bfn 10.1

bfd 0.4

ww

wd 8m

cc 0

rc 15 willow s alder

lwd 5 pc + 8m branches etc

sb 30 cb 40 gr 30s

bl gravel - cb to willow shrub

woody debris jam - out of wld  
may provide cover during higher  
flows due to position but during  
↑ flows would be washed ds

br flat flood plane vegetated  
but flat.

@ 100



bfn

bfd 0.4

ww

wd 11

cc 0

rc 20 wwc w

lwd 2

sb 30 cb 40 gr 30s

bl gravel - cb to willow shrub

slightly undercut bank - cb gr  
deposits to wooded growth.  
H - dropping gr cb bank (during  
flood event ww) to flat  
vegetat. flood plane.

LEVEL

Site 13



photos 1-4

1 OCTOBER 96 SITE (19)

asp Cr Lower (Reach 1)  
@ 0 m

bfd 6.0 m

bfd 2

wd 1.9

wd 10, 19, 31

CC 15 SS

RC 20%

LWD 2 pc med Rbank slightly OHing.

SB 10 ch 20 gr 20 S

B/L slope to house ~ 60°

point bar, no veg growth on bar - riparian Oz dogwood

R 25° slope ~ 2.5 m flood pl

0.2 m cut bank slightly

undercut w/ sloughing moss,

veg OH is Oz dogwood

- channel is fairly confined.

\* at 20 m woody debris jam lining R bank - corner bend.

1 large (0.5 m dia) CW fallen across stream - cut to allow water to flow - initially fallen by beaver probably region for gravel bar.

at

10 m

bfd 2 m

bfd 4.3

wd 1.4

wd 17, 25, 40

CC 0

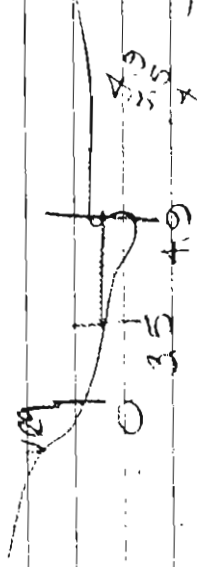
RC 30% SA'cl.

LWD 2 pc high on RB 5% WWC

no end of one pc in embedded in str bed. Stable but little cover

LB pt bar gr - Sloughing to SW flp 2-3 m then steep to house

RB undercut see 70 m.



LEVEL



20m

bfd 5.1 m

bfd 2 m

WV 5.1 m

WD 5, 15, 17

RC 45% dW S cedar thumb aspen

CC 20 CW

Sb 5bd 55cb 30 gr 10S

LWD 0

LB steep slope to house - fence is cut to 0.2m w/ veg OH bfdw

Some small woody debris deposited along bank

EB 1.5m cut bank, some OH w/ veg, aquisition everywhere!

EB from 10-20m is ~ 2.6m cut & is undercut ~ 0.35m w/ root OH, moss & aquisition atop w/ S cedar snagging across creek, majority of flow travels beneath bank

EB here is gravel pit. too

@ 30

bfd 3.3m

bfd 2m

NW 2.4 m

WD 13, 24 24

CC 5.1, S cedar mature can

RC 25% S cedar, NW

LWD 3ps mat, damaged, not stable, some

B.L. snagging? 3m cut w/ accreted OH, bedrock bank - confined, snagging of top soil & veg

R point bar, gr & cb to veg slope 1-2, to #1 cl

Sb 5bd, 60cb 25gr 10S

\* 30-40 - bank has been undercut so much that veg has fallen along bank (no longer supported) creating

exc cover & outer bank would protect

at 40 m

b/w 5.5 m

bfd 2 m

WW 4.1 m

wd 7, 15, 25

CC 15%, 55

RC 5'1 dw, Sælden

LWD 2 pc jammed along L bank  
10'1 ww cover but not stable

BL undercut @ ~ 0.5 m, debris  
bank eroding - woody debris  
here is unstable - carried away  
during higher flows

R bank is sloped, fl plane  
is extensive here  
dw, Sælden, trembling aspen  
equilibrium

at 50

b/w 5.0 m

bfd 2 m

WW 2.3

wd 13, 2, 10

CC 50% CW, df 85

RC 28'w

So 40 cb 40 gr 20 S

LWD 1 pc med 13 cm plus  
debris jam on L bank S

BL woody debris jam - end bank  
w/ a few chl rocks + veg; snow  
berry

BR - out @ 0.05 m, slope  
~ 1' to flood plane, equilibrium  
prob under water during higher  
flows

LEVEL



at 60

bFW 6.0m

bcd 2m

WN 5.2m

NA 15, 11, 12

CC 80% CW

RC 40% off-bench/skipping hant

maple & dogwood

LWD 6pc - Rb (5) Lb (2) 5'

1pc stable LB - fallen Sadder

Sh 5bd, 30cb, 45gr 205

Lb slope  $< 2\%$  to flat fl p1

-equilibrium, gravel to ww.

Rb 4m cut bank - eroded,

unstable - effect of flood,

debris build up along bank

just d/s - appears slightly

unstable but w/ veg, exc

hab. (trees that were growing

on this bank - no sloughed

over into stream) lots (slight

jelly from sliding) causing compaction

and pool just d/s depth. 18cm

1m x 1m

at 70

bFW 5.7m

bcd 2m

WN 3.6m

NA 20 25 25

CC 50% d/s - Sadder

RC 75% 3 degraded, Sadder,

Sh 30bd, 20cb, 50gr

LND 5m + med wd on banks 1.6cm

Lb fl p1 75m - 14ish - unstable

Sadder and 33 logwood

gravel pt down following  $\uparrow$  bd

(2m dia) 1 sm pool d/s of bd

depth 17cm

Rb 11' 55m - rush div. bank is

cut in 0.2m w/ skipping moss.

ex veg - good cover - exc hab

for fish

At 75m 0.6m pool adjacent to lg bd.

(1m x 1m)

equilibrium - scouring rush

woody debris  
@ 15m

at 80 m

b/w 5.0 m

b/d 2 m

ww 3.5 m

wd 12, 17, 22

CC 50 SS, df, poplar

RC 80% s. alder, 03 dogwood

Sb 15 bd, 45 cb 30 gr 10 S

LWD 1 pc med 3cm x 3 m decayed  
+ sm branches etc jammed  
against bd built up + 20.5 m.

PO L undercut ~ 0.7 m @ 0.4 m  
vert - sm

OH, rush (equisetum) and dogwood  
OH sm pool backed up by  
boulder & debris jam.

R bank  
Slopes to flood p., poplar,  
Baldern, dogwood, sm maple  
equisetum is only under  
brush.

@ 82 m rock weir 0.3 m straight  
across creek

@ 90

b/w 5.1 m

b/d 2 m

ww 4.5 m

wd 12, 14, 27

CC 0

RC 30% dw

Sb bd 15, 45 ch 20 ch 20 S

LWD 2 pc med tree 5' x 11" WVIC

sm woody debris build up  
along left bank - lining  
the cut bank - good cover bird  
not stable over time

LB cut - lined w/ woody debris  
OH veg.

RB slope - mossy equisetum,  
some woody debris

LEVEL



@ 100m

blw 4.0 m

bed 2 m

ww 5.1 m

wd 20.6/12

sh 40 bd 30 cb 20 gr 105

CC 30 SS

RC 25 degraded S alder

LWD 6 pc med 10cm diam decaying

5% cover mostly along banks,

not stable.

LB 15% slope 3 m fl plane @ 4 m

than 760% slope unstable veg.

cut bank some areas are

undercut w root OH, veg OH

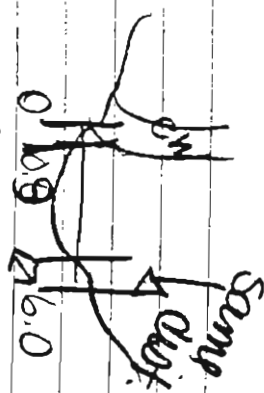
↑ bc compexing here, flow

is broken

RB Stopping, some woody build up

5m pc, fl pl ~ 4m aquistm

brush degraded,



Site Asa Lower Reach I

GPS FILE S100202A

670658E

5481459N

Temp 8°C

H-200 growth - weeds slumping in flood

lowers growth - weeds out of

flow - more growth

80-100 % grade 5%

60-80 riffle-grace 3%

40-60 riffle 2%

10-40 cascade 55%

0-10 gulch 0

pooling beneath

unstable

Site is extremely complex & very

productive. Riparian vegetation (OH)

is plentiful in areas and boundaries

etc. create pools & dissipate energy.



Asp Cr middle, Reach 2.

photo

SITE 17

7-18

30-Sept-96

5093021A

676506E

5484562N

temp is east

\* evidence of nr

temp w to

Grz. itself.

@ 150 m

W/L 5.2

sta 0.35

5.2

4 7 "

CC 30

RC 60 56 10bd 50cb 40gr

LWD 4pc 20gr

4/5 1 ledge fallen tree

across entire W/L

BL slope eroded - bedrock -

R fallen rock - slide @ 100 m

Site 17 shows extensive results of poor

logging practices and damage that occurred

as a result of the flood<sup>(95)</sup> - Numerous slides

on the Right bank and set back from R bank

@ 90 m

DFW

bfd 0.3

W/L

wd 18.8

CCO

RC 30

LWD 1pc 76'

50 10 bd Co 56 57'

10 1000y 5000y 1000y 1000y

high firs, Stumps

highly eroded bank in

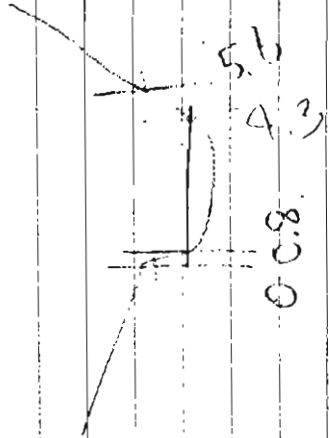
high standing old LWD

for steep bank: moss cover

highly eroded

5. alder maple SS

fern (ldy)



LEVEL

@ 80 d 70

bfcw 0.4

uw

RC 8, 8, 9  
70 maple 15. alder

LC 10 55

SD 10 6d 40cb 40gr 105

LWD 0

BL slope to field pl @ 1m b.

wood ~ 5m veg alder CN

MT dead branches

along trunk - no cover

R 1m underneath (we) ~ 0.5m

horizontal roots hang,

moss sloughing slip veg

OH

exc cover - water to

forming route beneath

bracken, air pooling

76

bfcw

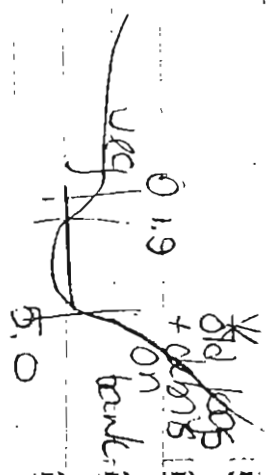
0.4

uw

wd 12, 8, 13

4.1

5.2



@ 60

bfcw 0.3

uw

wd 10 13.8

RC 15 CU

LC 30 Mac Salter

LWD 0

SD 10 6d 30 00 30 31 105

BL underneath - no cover

+ veg OH

R 3-5m, grass, alder

wood ~ 5m veg alder CN

CU 1m from lower

bfcw

bfd 0.3

uw

wd 7, 13.8

CC 10 CU

RC 25.1 Salter

LWD 2 3m RC 10.1 uw

SD 15 6d 30 00 45 gr 105

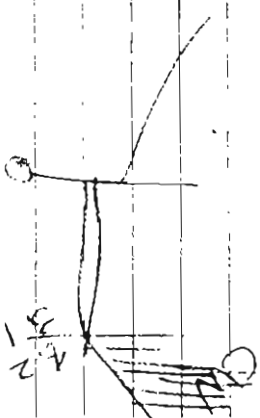
BL underneath - 100% 50m old

wood 5m ↑ woody debris - branches

alt 5m flood plain - old growth CN -

material in uw.

LEVEL





@40

bfdw

bfd 0.3

ww

wd 18 22 18

cc 10 ss

rc 15 Solder - no OH

LWD 1 pc

Sb 10 bc, 20 cb, 50 gr 20S

BL gradual cut, veg 1:1 pie LWD + under cut @

BL cut w/ gravel build up - LWD 36m

\* Pool follows 0.4m drop made by root wad & deposited gravel

@30m

bfdw

bfd 0.3

ww

wd 18 18 10

cc 25 CW 55

rc 10 Solder

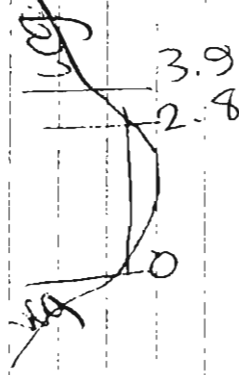
LWD 3 pc + 11.8m branches etc 1wnc

Sb 10 bd, 25Cb 45gr 20S

BL slope to 0.2 cut bank Veg. dogwood

BR 2m flood plane Solder 1dw

bank is slightly undercut w/ extensive wad debris deposited - good cover



@20m

bfdw

bfd 0.25

ww

wd 12, 12, 13

cc 30 CW middle

rc 12 Solder

LWD 3pc mostly on bank to

cont. 106 wettd

Sb 40 cb 40 gr 20S

LB cut bank, sink

ch/r to bank

protected by

11.8m weedy debris

deposits

RB - cut protected by 0.5m dia

LWD fl plane flat @ 0.5m

@10m

bfdw

bfd 0.3

ww

wd 11.8, 12

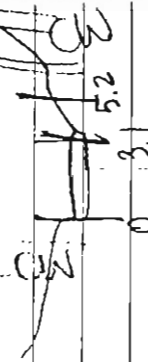
cc 20 rc 80 Solder

LWD 1 + 11.8m weedy debris 5wnc

Sb 2% bd + 40 cb 50 gr 8S

BL 0.2m undercut w/ grass veg OH

12 slope w/ Solder cut to flood level



@Om

Line

C2

CC

CC

CC

CC

CC

CC

CC

CC

CC

CC

CC

CC

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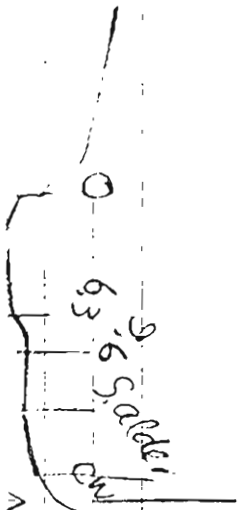
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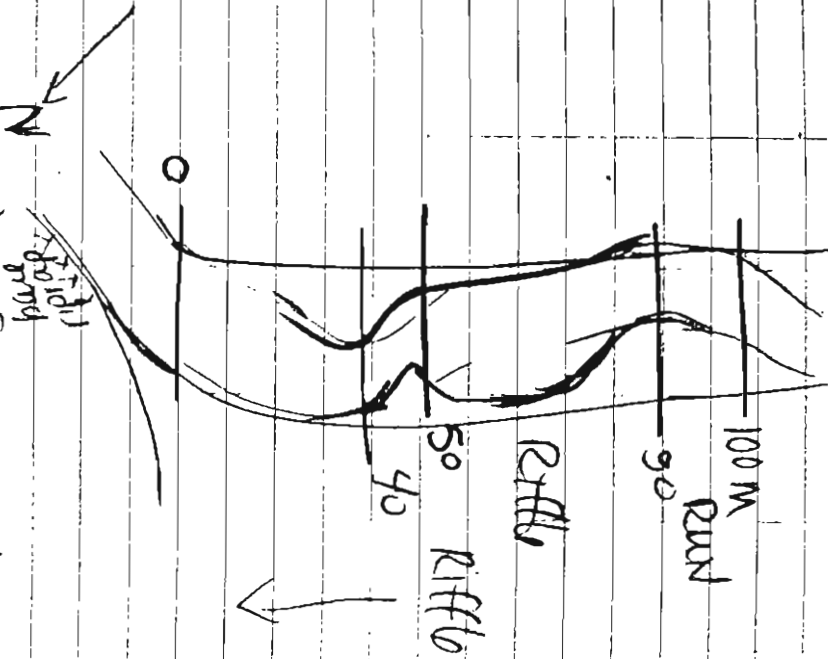
CC

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CC

SITE (15)

Below 0m of Site (15) creek  
run parallel to road 3m  
above and 3m away (45° slope)  
the bank (L) here is armored  
with 1" riprap the inside bank  
is sloping and slightly undercut.



30 Sep 21 36

SITE (16)

ASP Cr. Upper Reach 3  
China Cr.

GPS FILE S093018A

674234E, 5488000N

algae

Small creek 2.8m to road - run  
parallel. Slope to road is 25°

Flow is SE

T = 7

Gradient

100-60 6%

20-60 55

0-20 4%

LEVEL



@ 100 m

30' 0

bfd 7.1 (elevations  
not clear)

bfd 0.7

wlc 1.6 wwc 2.0

wdc 12.15, 10 wdc 2.2, 2.1, 2.1

cc 20 / 5 cedar

RC 40 / - wwc 5 cedar, just  
turnberry, tristle berry

LWD 2 pc 5 / wwc

SD 50 bd 30 cb 20 gr

BL slope gradually incl to

25' / ~ 3m fld plane

1 fallen log along bank

~ 0.7 m above water level

R large log 1m diam making

up R bank - just above water

level - set back by 1m

cobble, etc. just cover in

higher floor sloping fl plane

for ~ 6 m - forested

wl 55 df malus

\* tree - same size as ASP C  
enters (slightly smaller)



@ 30 m

RJ

bfd 2.1

bfd 2.1

wlc 2.1

wdc 2.1

cc 50 / 55

RC 40 / turnberry, tristle berry

LWD 3 pc 20 / wwc 1 m on bank

SD 50 bd 30 cb 20 gr

BL 5m fl ple in vert, LWD along

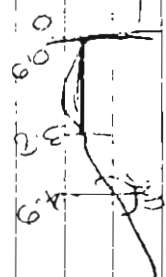
bank - fine undercutting (dry pss)

R - LWD line bent 1m vert

3m 2nd pin in slope ~ 15°

- veg on both sides

willow, tristle berry



bent above  
road - erosion  
evidence

80m

bfd

bfd 0.5

ww

wd 22, 26, 17

cc 10 ss

rc 70' S Alder (spans across wdy  
at some point)

Sb 10 bd, cb 30, gr 50 10 S

LWD 1 pc 2 wwc (med sup)

BL slightly cut/slope 1m vert  
to 4m flood plane - slope to  
road. S. alder OH

B cut bank ~0.4m vert w/  
root + veg OH

S alder

twin berry

@ 80 - feed large bd (0.8-1.0m dia) w/  
pooling 8/5

at ~75 am island 1m x 1m

mid channel - gravel deposit, due

to large boulders, pool just ups.

L bank - *Viburnum edule*  
(*Myrica asplenifolia*)

@ 70m

bfd

bfd 4

ww

wd 2, 3

cc 15 ss

rc 30' S alder - spans across channel

Sb 30 bd 3000 30 gr 10 S

LWD 2 pc 10m wwc

BL 1m cut bank - roots overgrowth  
of LWD (1.0m) embedded in  
bank, near OH

R cut to 0.1m then slopes  
gradually 15° - forested area  
(appears uping)

Sloping (dying) S alder - spanning  
entire width (5 branches)

S alder, twin berry, willow

LEVEL



at 60m

bftw

btd 0.3

wid 10, 1, 6.

cc 30% 55 sb 5bd 30c 40gr 255

RC 30% 5 sader ~~thunder~~

LWD 2 pc 1 across width (med)

1 - along R bank

B L slightly cut - to stoping to veg (0.10m cut bank) 6m

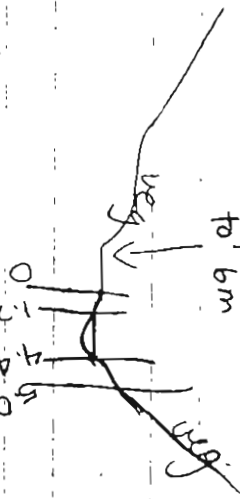
fl plane w/ veg

R confined by cobble/bd w/ moss overgrowth, aquation

& sader, 5 sp w/

slope (~40%) no flpl.

fl plane to 6m



@ 50

bftw

btd 0.4

wid 25, 33, 14

cc 40 55

RC 35% 5 sader

LWD 2 pc 30% w/

sc 5 bd, 30c, 40gr 255

B L 6m fl pl, <2% slope ca 1/2

to noted - veg -> fl pl

thunder, sader

BR lined by LWD - undercut

bank w/ moss growing, fallen

sader providing ↑ cover

veg hab, pooling beneath

sader & cut bank.

\* 1 pc LWD across cut w/ cb

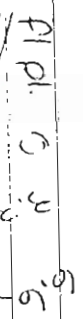
gr build up - cleared w/

facts like weir, flow to R

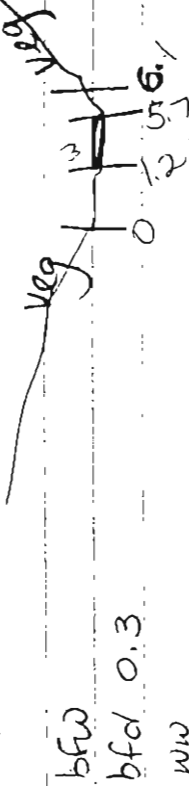
undercut bank ~ 0.3m deep

3m undergating beneath

Rd



@ 40 m



bfd

0.3

wd

5 11 10

cc

RC 25% willow Vrape S. alder

LWD 0

Sh 15 bd 50 Ch 25 gr 10S

BL 20% slope for ~ 2m to fl pl

flat<sup>9</sup> vegetated, rip. OH

R 1m fl pl - confined further

by steep slope ~ 35% veg

by mature for SS

riparian OH - willow + Salix

maple + thornberry.

@ 30 m

RD

bfd

0.4

wd

wd 9, 21, 12

cc 10 SS

RC 25% S. alder, tw berry

LWD 1 pc 0 vnc - high on bank

Sh 20 bd, 30 ab 40 gr 10S

BL 15% slope for 4m then

flood plane, LWD(1) on bank, good

cover during higher flows.

gr deposit (point bar)

R lined w/ bd (5m) 30% sl then

levels b4 > +5% slope.

Bank slopes - behind bd w/

gravel dep (dry) - moss + equisetum

growth - veg OH: timber Sald.

thornberry,

LEVEL



at 20m

bfd 4.6

bfd 0.3,

wd

wd 11, 13, 12

cc 10 55

RC 39

LWD 4 pc 20% wmc + lining 1 bank

SL 32 bd, 4 ch. 30yr

BL Slope w/ LWD lining + gravel

deposit behind a big granite over cotton timberline S. side

in transition of moss smoothing

LWD lining lower bank - well

pooling hereafter bank + LWD

exc cover

deposit

LWD on RB  $\in$  3-4 m up

Slope - appear to be old logging

damage rather than dip from

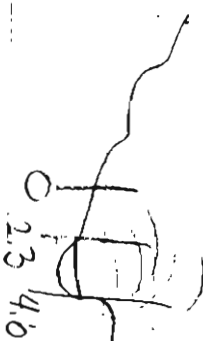
1000 - some old in stream

1000 - decayed & has been incorporated

into bank in years of growth

exp.

Safe! complete



@ 10m

bfd

bfd 3

wd

wd 10, 15, on new

cc 0

RC 70 5 older (at the river almost)

LWD 1 pc on bank 21

SL 32 bd 30 ch 20 yr

BL cut (sign) - 20 yr

mass of 2000 to 5000

R

500 to 41 pln 5 m wq

bank is lined with moss

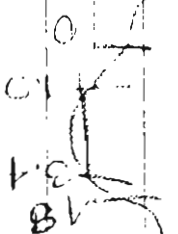
& veg 5 older OH - full

being 1 pc of old wtd

LWD on bank (dry)

\* left bank - covered w/ full timber

LWD has been dry (very old)



@ 0m

bfw

bfd 0.2

WW

9, 9, 11

wd

CCO

RC 40! + hwt + le, tw in x r r y, Saldec

LWD | pc LBank

Sb 30 bd, 30 cb 40 gr + veg

BL undercut bank w/ root 10H

Rootward w/ extensive woody

cover is undercut but appears

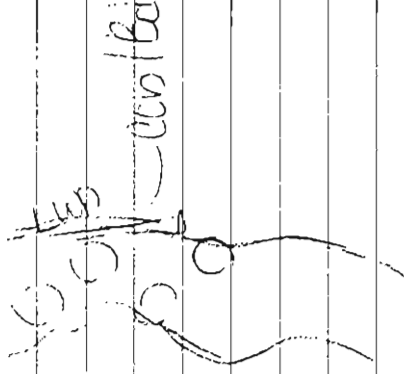
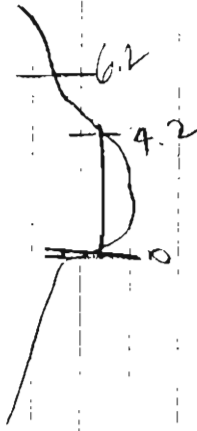
stork over though it's a <sup>last</sup> Sump

w/ no tree to line bank. Due

to undercutting here - ww has

become more confined

R Sloping (a bed) bd, cb, gr  
point deposited on R bank  
veg + root OH,



LEVEL



8-Oct-86

CITE (34)

Champion Cr. low.

Upholstery chute

barrier

T = 6°C

Confined oxygen

42.4 m from m.

Hub type

0.20m 1.0m 1.0m

Gradient: C-50 3.5%  
50-100 3.5%

100 m

bfw 13.4

bf d 4

ww 6.9m

wd 24.5, 30

CC 10 SS mature

RC 15.1 S. alter

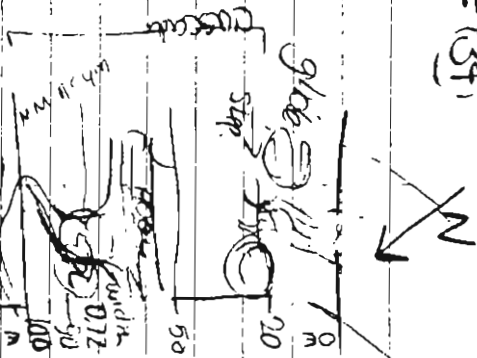
LWD 5 pc BB w/s of 100m SWWC

Sh 90 back 5 bd 5 yr

BL straight up 1 S. alter moss

R " " some sloughing rock

few S. alter c 15 mt



at 90 m

bf d 3

bfw 13.3

wd 38 72.47 - pool

ww

CC 5 SS

RC 1.1 S. alter

LWD 2 pc higher RB (fallen down cliff)

SC 46 back 20 bd rock 205

LB straight up (over 100' up)

form ice (1' ice) 100' SS, 24 moss

FB same as 100m

at 30m.

bfw

bf d 2.5

ww

wd 23, 2, 43

CC 15 SS (starting to lean)

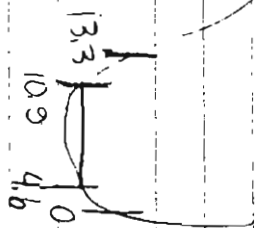
RC 10 S. alter

LWD 2 pc BB c 5m high 7wlc

Sh 100 back (1m steep to pool)

BL SA 30

R SA 90



at 70m

bfw

bfd 3m

ww

wd 16, 8, 3

CC 15/SS

RC 10/SA

LWD 1pc high w/ branch (3m+)

Sb 95 bdrck 3cb 3bd

BL 80° slope w/ cedar hemlock

LP, snagging slightly

61m-detrus gathered c 10m up

R SA 90

at 60m

bfd 3m

bfw 11.3

wd 8, 22, 29

ww

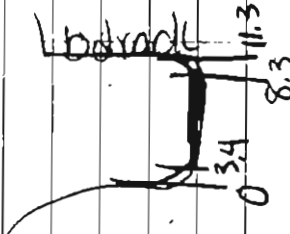
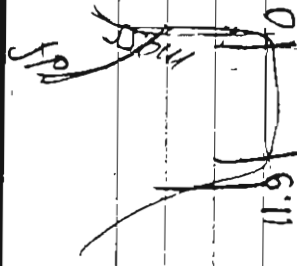
CC 15SS

RC-10 Sald

LWD 0

Sb 100 bdrck

BL R same as 70m



Pool: barrel 32m x 1m x 1m

at 50m

wd 32 42 13

CC 10 SS

RC -15 Sald

LWD 0

Sb 60 bdrck 25cb 5gr 10° S

BL more growth than @ 60-100,

appears fair, S.C.V. - some

snagging of trees. ↑ moss

R' Bdrck straight up. Some

adder - some now!

at 40m

bfd 3

bfw 9.9

wd 31, 25, 25

ww

CC 20 SS (starting to fall)

RC 5 juv. cedar

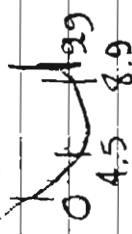
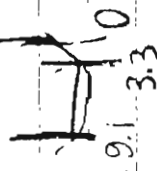
LWD 0

Sb 80 bdrck 5bd 10cb 5gr

BL 60° veg, moss, paint w/ 1m

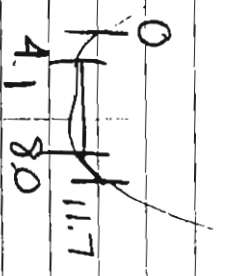
cut up w/ 100 OH and moss sticking over the top.

R bdrck straight up juv cedar.





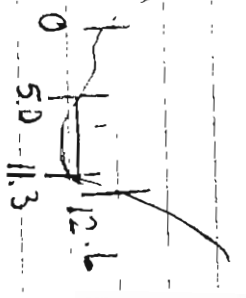
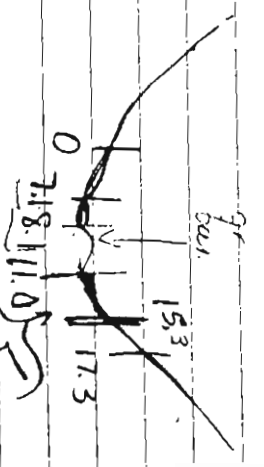
at 30 m  
 bfd 3m  
 bfw 10.1  
 WW 6.0  
 Wd 18, 8, 7  
 CC 20/55 of  
 RC 10/50 Sater  
 LWD 0  
 Sh 80 bruet 10 bcl 5 cl 5 gr  
 BL 50 <sup>Slope</sup>veg sater SS. w/ 0.5m  
 BR 5A 50 (some sm. weat sloughing)  
 at 20  
 bfw 11.7  
 bfd 2  
 Wd 18, 38, 21  
 WW 3.5m  
 CC 10/55 of  
 RC 15 Sater  
 LWD 1 pe a 10' bank 12'  
 Sh 35 bdrck 30 bd 30 Ch 10 gr 55  
 BL 45/1 slope, veg w/ 50 Sater 04 ↑ juv cedar  
 R 5A 40 dobbk to 0.5m cut bank (dry)



cut bank 9 Sater 04 - bank cut (high)  
 only - cemented rock in place pres



at 10m  
 bfw 2m  
 Wd 22, 40, 15  
 CC 5 SS  
 RC 10 Sater  
 LWD 1 lb dry hcl water level  
 Sh 30 bd 30 Ch 30 gr 20 S  
 BL 30 <sup>hat</sup>bd 30 Ch 30 gr 20 S  
 BR 5A 20 wet CH 45' slope bank - veg  
 at 2m  
 bfw 2m  
 Wd 8. 29, 41, 21  
 CC 0  
 RC 5 Sater  
 LWD 1 pe high on AB  
 Sh 30 bd, 30 Ch, 30 gr 10 S  
 BL 40/2 2 40', sloughing to 15m  
 R 5A 40 wind + gr silt. ↑ cedar  
 BR 5A 40 40' veg. Sater - cedar bank  
 appears to mound covered w/ stream  
 EVER



met  
 5m  
 10m



SITE ⑪ 29 Sept 96  
CHAMPION MID-REACH 2 NOFISH

P4005 13-24

under bridge ds of clearcuts  
T<sup>°</sup>C

algae - dark

0-10 m pool

10-35 cascade gradient  
10-50: 7.5

35-45 riffle 30/100-7

45-100 cascade - pool

rounder + better freedom

100-60 flows NE

60-50 " N

50-0 " N/E

GPS

@100 502819E 650917  
-5479184

bv 0 502819A 650897  
(60-70m) 5479311

LEVEL

@ 200 m.

flu

bfd 1.2

wd

wd. 0.37

CC 25%

RC 10/

SS

grass nose

Sb 80/ block

LWD 0

BL block - channel confined by

11 no fl plane, some ch/gr

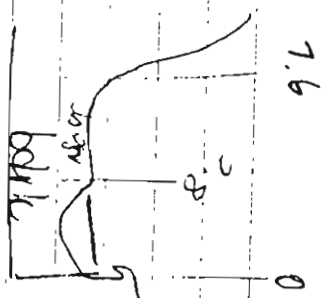
deposits

S. alder OH

R 0.5 m OH, cut bank ~ 0.4 m

~ 30 slope up bank ~ 10 m.

above 100 m



at 200 m.

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

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wd 0.37

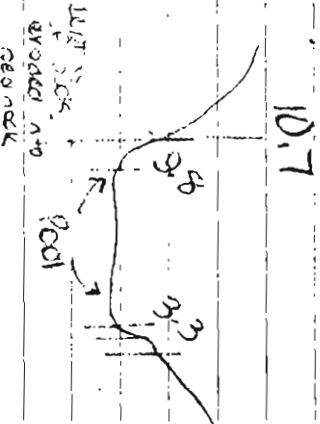
wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37



10.7

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

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wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

between 80-90 sm falls w/ pool

1 m from tp to foot of pool

steep slope - eroded w/ veg  
sloughing. Erosion from small  
water course - dry present

R steep slope veg - fairly stable  
0.5 m cut bank w/ veg OH  
block + ch step to veg

BL 90 block 10 bd some gravel  
dep on bank

LWD 500 20% cover

RC 20 5% cover

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

wd 0.37

@ 80m

bfw

bfd 1

ww

wd 0.21 0.2

cc 0

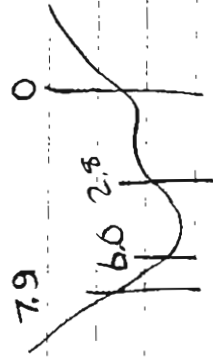
RC 10 S. alder / willow use  
Sb 20 bet 30 bd, 10 Ch 20gr 20S

LWD 3 pc 5% bank

BL steep veg 2 SS cut bank  
at 0.5 m bedrock jettly to  
ww.

R gravel dep, wood debris dep.  
eroded bank due to bridge

7.9



@ 60m

Sb 100 bank

bfw

bfd 1

ww

wd 0.47

cc 0 (80% bridge cover)

RC 5% S. alder SS 40m

LWD 2 pc 5% wwd

BL steep confined by bedrock  
some veg.

R steep conf by bedrock - veg

not vigorous (under bridge)

@ 60m

bfw

bfd .8

ww

wd 0.13

cc 0

RC 5% S. alder

LWD 0

Sb 100 bank

BL vertical bank, bedrock w/ veg.

Some sloughing

R Same as L ↑ grass (below bridge)

1 m falls between 50m + 60m - bedrock  
LEVEL

8.0

5.0

1.2

9.0

1.2

9.0

1.2

9.0

1.2

9.0

1.2

9.0

1.2

9.0

1.2

9.0

1.2

9.0



@50 m

bfd  
bfd

wu  
wd 0.74

cc 0

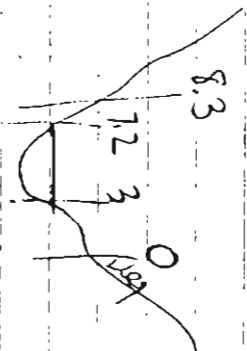
RC 0 wuc

Sb 40 bd, 30 bd, 20 ch 10g

LWD 2 pc 0% cover

BL 60% slope grass

R cut bank to 2m + grass slope



at 30 m

bfd  
bfd

wu  
wd 0.38 (3m) in bed

cc 0

RC 15 S. alder

Sb 30 bedrock 130 bd, 20 ch, 25 of

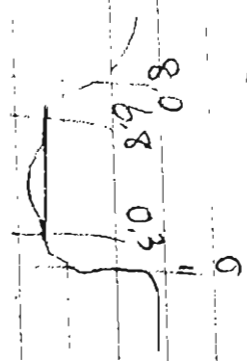
LWD 2 pc on bank no cover during

low flow

BL steep veg for 55, upward spr

R undercut veg on bed rock

OH S. alder



@40

bfd

bfd 0.6

wu

wd 0.24

cc 10 55

RC 25 S. alder

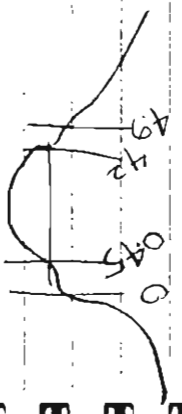
Sb 40 bd, 10 ch, 10 gr 40 S

BL 3 pc, 10% wuc

R slope, bed bank, OH veg

under cut some slide of soil

slough grass - moss, dry  
OH S. alder - with 40-50



LEVEL

at 20

b/w

d

ww

wd 0.20

CC

RC 0 w/wc (at ↑ flows pass to 1)

Sb 40 bd, 30 cb, 30 or

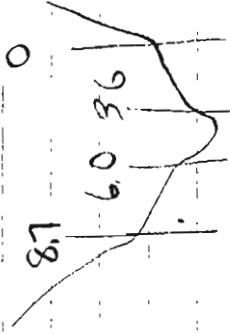
LWD 1 pc w/ root wad 20% cover

in ↑ flows

BL Steep slope, gravel from ww to undercut veg (OH)

R bd+cb slope to veg cut bank w/ OH S alder

boulders average 0.6 m diam gravel deposits along banks prob, wash w/ ↑ flows



10 m

b/w

bfd 2.0 m

ww

wd 0.33

CC 10.55

RC 5 S alder

LWD 2 pc > 3 m above water level

BL bequest w/ veg @ 2 m

R same as L \* confirmed here

opens to pool from 0-8 m.

@ 0 m

b/w

bfd

ww

wd 0.27

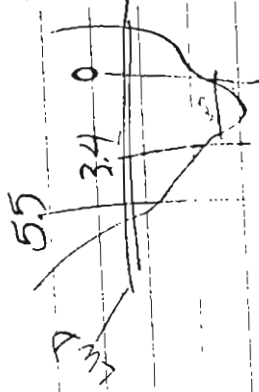
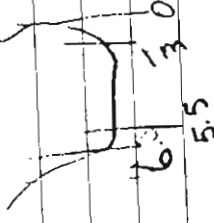
CC 0

RC 10 S alder

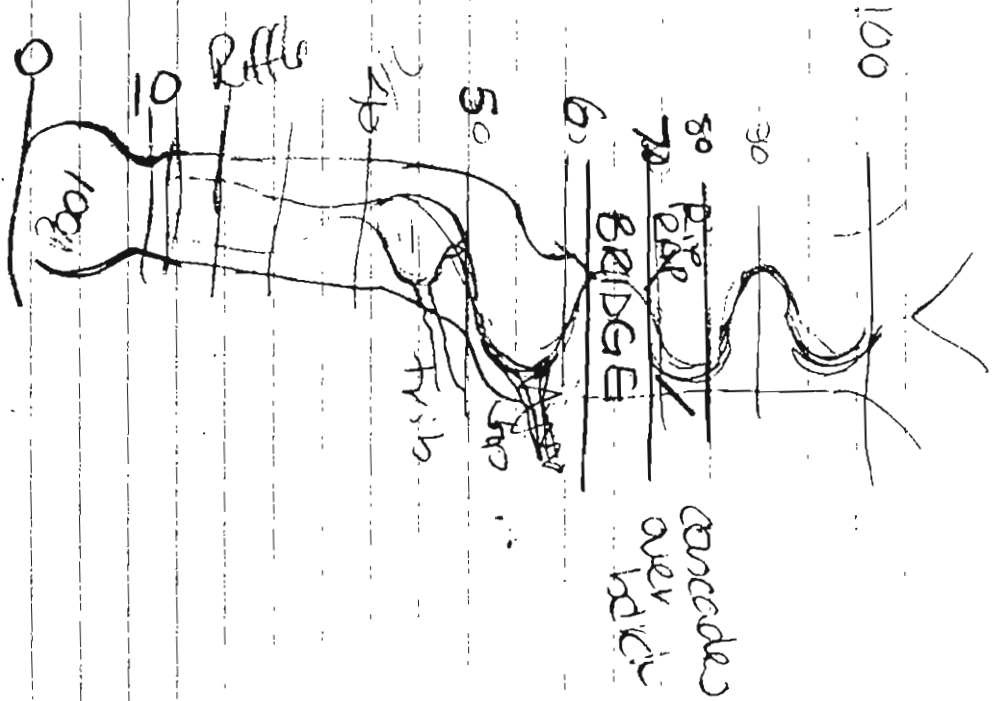
LWD above by ~ 3 m no value

BL bequest w/ mess

R " " " confirmed pool



LEVEL



28 Sept 96

CHAMPION CR

25-1/2

SITE @

UPPER

GPS FILE

REACT 3

5092817A - at truck NE (40m)

651866E, 5478362N

05092817 → B 651927E, 5478296N

flow is NW

at 100 50928 7D 651906E, 5478220N

T = 5.

US/ confined v slope ups through

bed a cobble straight strike n + turning

- Cobble in head of stream 10 m

US/ confined v slope ups through

US/ confined v slope ups through

flow, ↑ gravel / coarse bas, pebbles, gravel

coarse, not good spawning habitat.

Exc rearing hab w/ pools + OH veg.

cut block leave strip is 1 m w/

sloughing bank - with collapse in few

years

Gradient 0-100 m/b

50-100 m 85

NO evidence of slide that Rene talked

about.

PHOTO'S 1-12

LEVEL



at 0m

bfd w

bfd 0.4

wu

wd 0.16(m)

cc 1/1 SS

RC 10% wu, willow mature

Sb 15bd, 40cb 30 gr

LWD 1pc part of bank @ not prev.

cover present but will become  
undercut

DNK L 5m flood veg w willow

SS, fuel age confluence

S. alder

bank is cut (moss overgrown)

(sloughing over) No. some hab

for v small fish

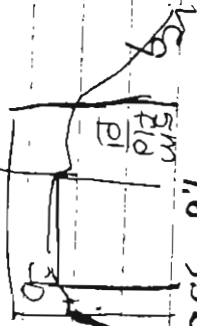
R 20 bd deep (avg) part of

the bank is cut w/ grass

+ 3m shrub OH. 5m spine

(~ 2m) of SS between bank

+ cut block. Cut block slope ~ 35%



7.6 3.9

at 10m

bfd w

bfd 0.5

wu

wd 0.35

cc 10-20% SS

RC 5% wu, willow, fine weed, mums

with 1/2 portulaca

SD: 25bd, 25cb 200025gr 10S

LWD 3pc, high of bank

bank - SA:O

@ 20 bfw

bfd 0.5

wu

wd 0.31

cc 10-20 10% SS

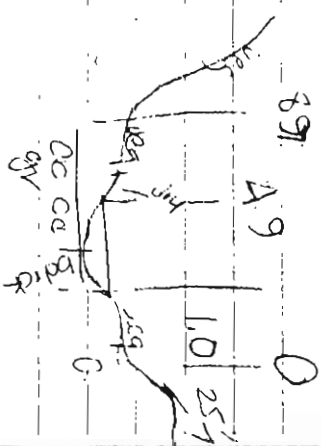
RC 1/2 grass, herb layer

LWD 2pc cover @ high flow.

Bank L SA:O

R SA:O

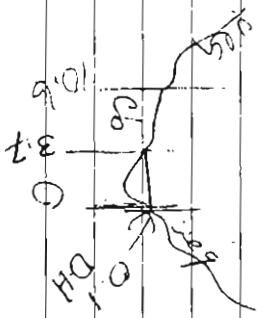
Sb SA:O



8.9

1.0

0



3.0

0.5

0

@ 30

btw

bfd

ww

wd 0.16

CC 20% SS (leaving)

RC 10% gr OH

Sb 50 bdrk, 20 bd 10 Cb 20 gr

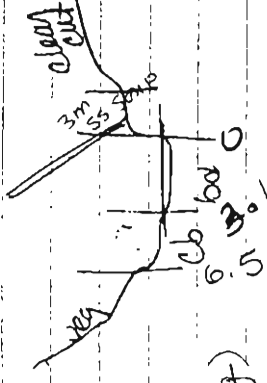
LWD 2 pc, 0 over high + dry

BL SA 0.

R: undercut w/ veg OH, SS about

to fall

S Spruce strip approx 3 spruce



at 40.

bfw

bfd 0.5m

ww

wd 0.34

CC 0

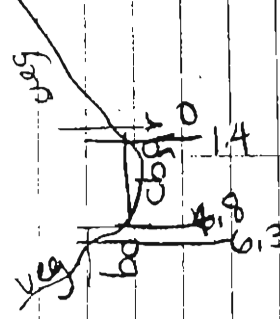
RC 10 wnc willow

Sb 40 bd 18 Cb 30 gr 20

LWD 2 pc 0 wnc: high + dry

B L: 3m fl plane cut bank w Cb bd

R slope fl pl. veg cut



LEVEL

at 50m

bfw 7.2

bfd 0.6

ww 0.16

LWD

CC 25%

RC 20% S alder, juv S spr

Sb 50 bdr, 20 bd, 20 Cb 10 gr 5

LWD 3 pc, 0 wnc

may provide cov (0.1) and

high flows

B L bdr w/ moss shading

grass + 1 S alder, willow

up + re bank

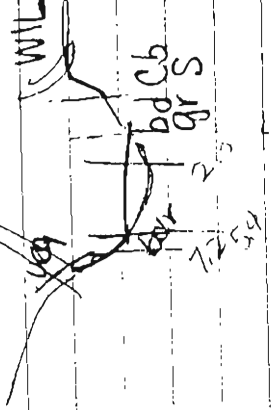
↑ logs up bank - no use

to fish

R Cb to veg OH but bank

~ 0.4 m, S alder OH

S spr.





at 60m thio cutus 50m - 60m

bfdw 4.5

bcd 0.6

wu 3.5

wd 16, 26, 30 cutin

cc 80 ss max

RC 5% willow

Sb 10 bdk, 40 cd 10 bcl 30 gr 10s

LWD 2 pc 25% OH, ↑ in ↑ flow

B L 2m fl pl transverse slope

forest

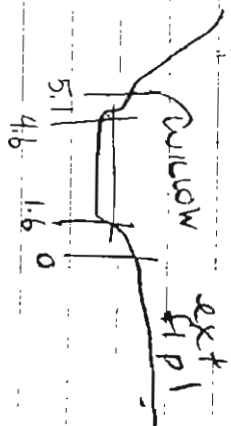
bant is behind w/ moss willow

rose sp OH

R - exclusive of pl.

bant slopes cob to veg

moss grass 5 older OH



~~KOSQA~~

sp

at 70

bfdw

bcd 0.5

wu

wd 7 wdpc 19m

cc 5% ss

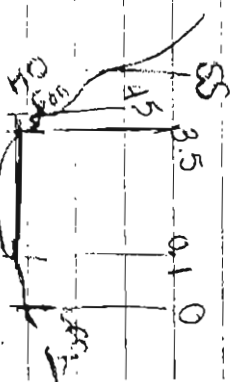
RC 5% willow

Sb 30ba 20 cb 40 gr 10s

LWD 2 pc 5% wuc

B L 5 as 80

6



at 100m

bfdw

bcd 0.5

wu

wd 0.05 wdr 7, 12

cc 10 ss

RC 5 a' sur

LWD 4 pc 10% cover

Sb 50 cb 40 gr 10s

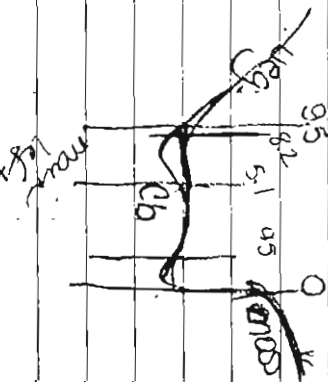
Bnt L cut w/ willow OH

st. slope no fl. ↑ wucly debris

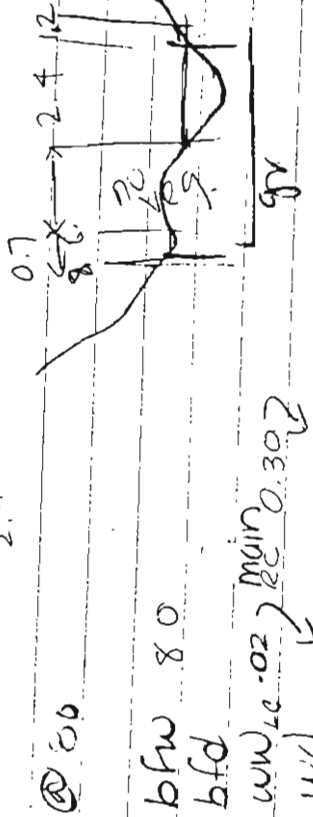
R 1.5m cut bant in channel water

cutting, root OH, willow OH SS fall good.

LEVEL



3.6  
1.2  
2.1



bhw 80

bfd

wnw 0.02 main 0.302

wd

cc 0

RC 40% willow

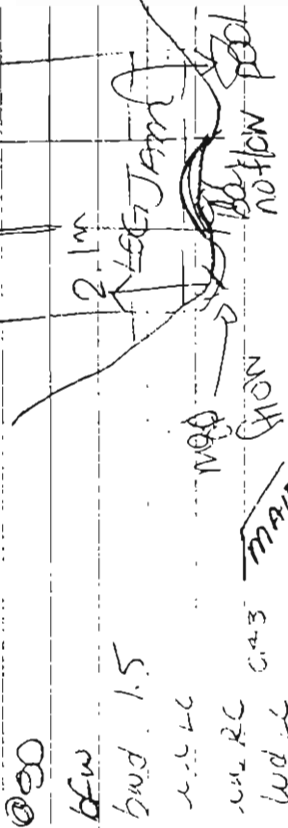
Sb 10 cb 90 gr (coarse) poss  
LWD 6 pc 10% cover (bamboo)

eroding grv sediment at 10m  
1 m high some woody debris  
backed up

B L 2 m fl pl slope 30%  
veg ss alder

R 2 pc LWD embedded strongly  
fl pl extensive, ss forest  
willow OH

10.4 7.6 1.60



bhw

bwd 1.5

wnw

wnw RC 0.43

wd

wd RC 0.25 S.C.

LWD > 20 pc w/ 100 detrs

Sb 10 bd 40 cb 40 gr 20 S

cc 0

RC 10% willow immediate SS

Bn L 1/2 Sleep Vine map. moss  
alder - cut bank 0.30H

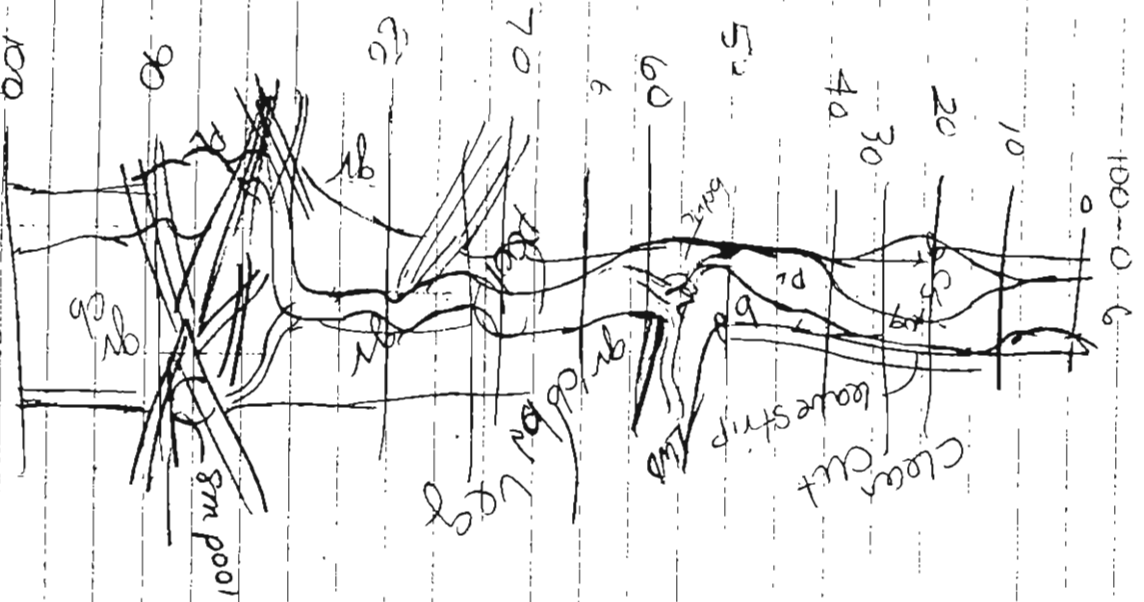
R sloping fl pl, 0.5 OH

L side channel 2x 1 m drops  
may allow for fish passage  
series of pools

R 57% drop

LEVEL

100 - 100  
gr 21 50 m 8.5









100m

bcm 9.6

bcd 1.3

wn

wd 15<sup>3</sup> 79cm 2nd w 12, 32

CC 10 55

RC 10 Ju 55

LWD 6 pc lg ↑↑ small, green

photo # 7.25?

Sh 79 bd, 30 cb 40 gr 105

BR cut bank to 1 m w/ root OH

BL 0.5m cut bank 8m

Sh-shrub OH, fl pl (fl ~ 6m)

to slope ~ 45 to road

all clear cut (to edge of cr)

90m

bcm 10.6

bcd 1m

wd 16, 16, 14

wn 10.2

CC 10 55

RC 5 willow

LWD 2 pc - 1 encrusted in bank

15% cover, green, R bank

Sh 15 bd, 50 cb 25 gr 105

BR 0.3m cut to fl phloem, burned shredded

R 105 km 5m 11- cut but some 5 must sampling

at 80m

bcm

bcd 0.8

wn

wd 10, 26, 20

CC 10 55

RC 15 willow

LWD 70-80 4 (fl med) 5.1 curve

Sh 25 bd 30 cb 30 gr 15 5

BR cut to 0.5 m, green w/ moss

growth + willow cut

BL same as 100

@ 70

bcm 5.4

bcd 2m

wd 21, 20, 8

wn 5.6

CC 2 55

RC 70 willow

LWD 0 very small branches on banks

Sh 30 bd 30 cb 25 gr 15 5

BL undercut to 1m willow OH

moss spaulking

RR cut to 0.6 m moss dough

willow cut 55 stand to R bank

RR @ 75m / 1m x 1m x 47cm killed in

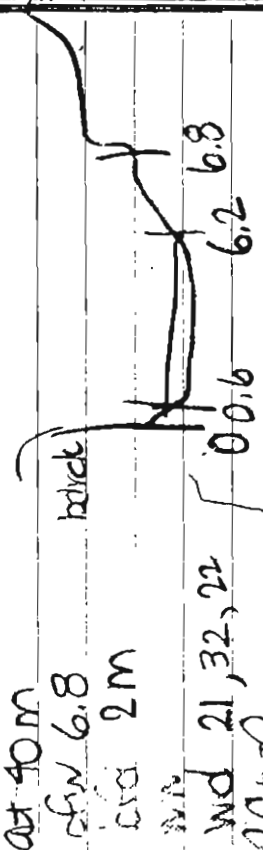
LEVEL

at 60 m LB- Iron leachate

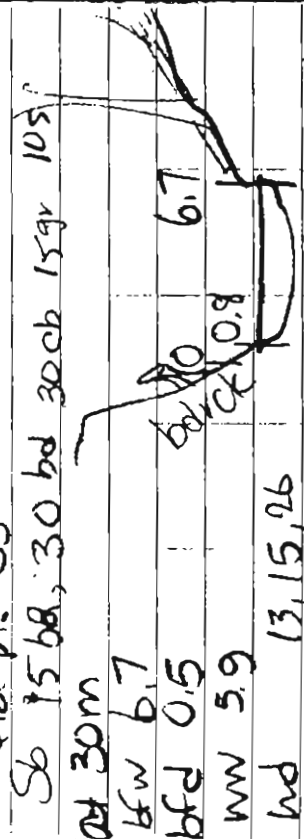
at 45 2m x 1m x 53cm dp  
sour (bd)

at 60 m

Bfw 5.7  
bfd 1.5  
WW 4.1  
wd 23, 15, 18  
CC 2 LP  
RC 5 willow  
LWD 2 med pc 2/1 NMC  
Sb 30 bd, 30 cb 30 gr SS  
BL undercut ~ 0.7 m, mess slaughting 4m flp  
R gravel dep-slope to mess off cut bank 10m flp  
at 50 m



at 40 m  
Bfw 6.8  
CC 2 M  
wd 21, 32, 22  
RC 5 SS juv  
LWD 2 lg (1 from bank to bank) 10%  
1 incorp into cut bank (right) NMC  
BL back w/veg. ↑ sprouts - SS  
BR cb gr to slightly cut bank to  
fld pl. SS



Sb 15 bd, 30 bd 30 cb 15 gr 10%  
at 30 m  
Bfw 6.7  
bfd 0.5  
WW 5.9  
wd 13, 15, 26  
CC 0  
RC 10 S. older willow  
LWD 6 pc 2/1 lg - from bank to bank  
& beyond pp 5m pc on bank  
Sb 10 bd, 20 bd, 30 cb 20 gr 20%  
LB 5m cut - logged debris 5m + med  
- wetted bank is back - bd  
RB sloping to m. ss, 1 upriver w/ 4 labels  
(1, 2, 3, 4) appears mainly debris, debris

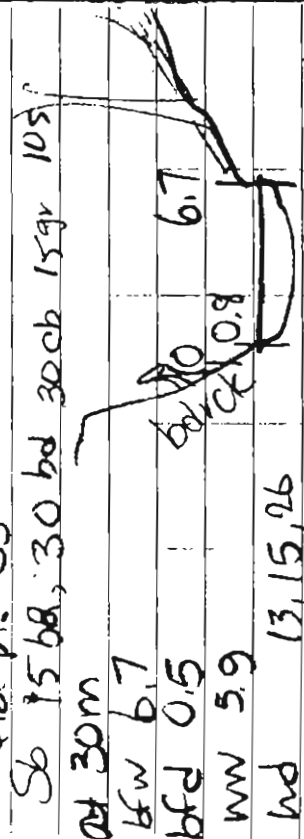
at 60 m LB- Iron leachate

at 45 2m x 1m x 53cm dp  
sour (bd)

at 60 m

Bfw 5.7  
bfd 1.5  
WW 4.1  
wd 23, 15, 18  
CC 2 LP  
RC 5 willow  
LWD 2 med pc 2/1 NMC  
Sb 30 bd, 30 cb 30 gr SS  
BL undercut ~ 0.7 m, mess slaughting 4m flp  
R gravel dep-slope to mess off cut bank 10m flp  
at 50 m

at 40 m  
Bfw 6.8  
CC 2 M  
wd 21, 32, 22  
RC 5 SS juv  
LWD 2 lg (1 from bank to bank) 10%  
1 incorp into cut bank (right) NMC  
BL back w/veg. ↑ sprouts - SS  
BR cb gr to slightly cut bank to  
fld pl. SS



Sb 15 bd, 30 bd 30 cb 15 gr 10%  
at 30 m  
Bfw 6.7  
bfd 0.5  
WW 5.9  
wd 13, 15, 26  
CC 0  
RC 10 S. older willow  
LWD 6 pc 2/1 lg - from bank to bank  
& beyond pp 5m pc on bank  
Sb 10 bd, 20 bd, 30 cb 20 gr 20%  
LB 5m cut - logged debris 5m + med  
- wetted bank is back - bd  
RB sloping to m. ss, 1 upriver w/ 4 labels  
(1, 2, 3, 4) appears mainly debris, debris



Franchet Cr. low (Reach I) cont

6.4

5.6 MW

CC 255

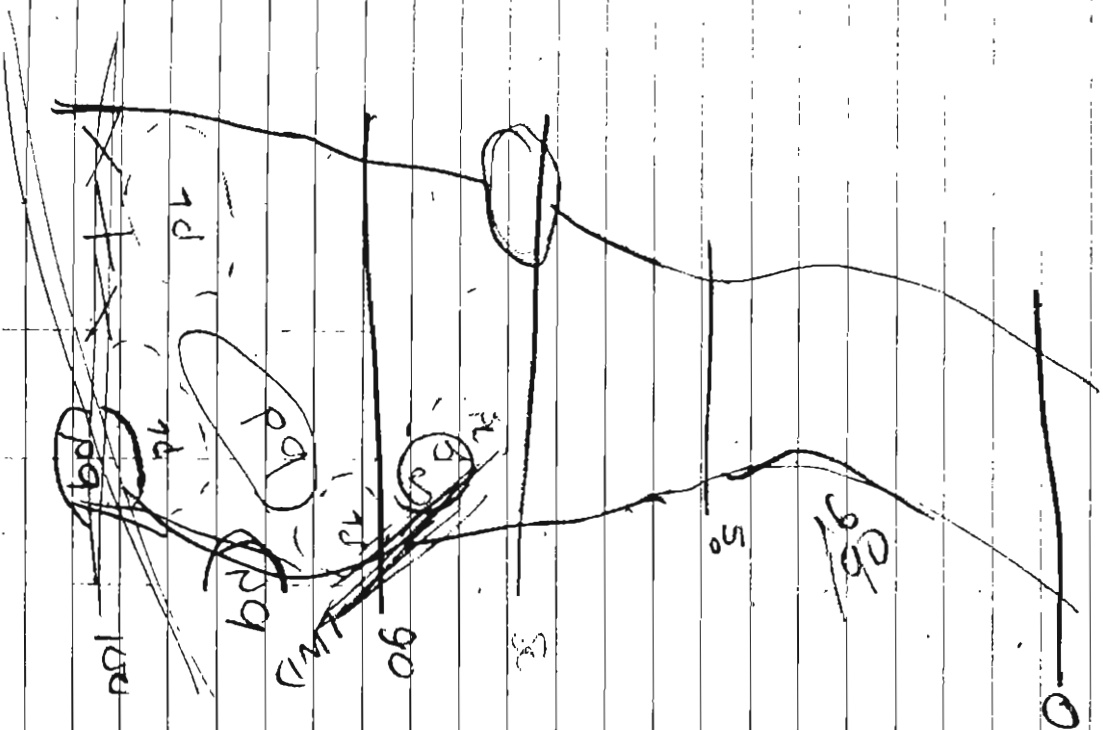
LWD 2 Rb, high flux - provide cover

Numerous pieces on LB-f/a  
Plane cleared.

SD 25 bdy 30 cb 30 gr 15 s

DL 25' slope, cleared to edge. fenced:

exposed bed + c.b. to clst bank  
at O. m, willow OH, *equisetum*  
BR edge slope to rounded (slough  
mass) w/ willow



# French Cr (low) Reach I (cont)

@ 10

bfn 9.0

bfd 1m

wd 5.6

wd 10, 15, 26

CC 2 SS

RC 0 WWC (2/bfn willow)

Sb 40 bd, 30 db 20 gr 10 S

LWD 2 pc, 10' WWC both

extend 1/2 way into stream

point d/s @ an angle.

LB ~ 20'. Slope for ~ 200 m

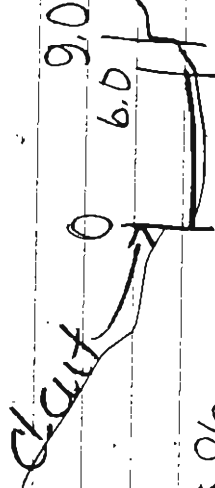
fire weed, burned logs & stumps

small SS remnants (few)

BR cb, gr slope to 1.5 m at bank -

SS spruce stand - many logs fallen

f'l pl > 10m to slope.



at 0m.

bfn 10.0

bfd 0.8

wd 7.1

wd 8, 26, 18

CC 1/1 SS

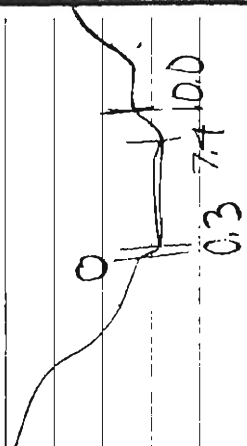
RC 0 WWC 5' bfn willow

LWD 1 pc (SS 2' pc)

Sb 15' bd 40 db 30 gr 15 S

BL SA 10

BR SA 10



# FRENCH CR - MID-REACH II

5-~~000~~-96

SITE (29)

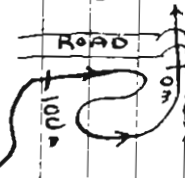
Temp 5°

Gradient <1%



Stream meanders (cuts back on itself) - 1/2 snow field - deep

few areas w/ willows between pools. Area (flood plain) is fair!



Hunters on spectators.

Stream is functioning - stable at this site - FABULOUS habitat for fish

GPS On S100521A 6626235E

FILE 1000 S100521B 6626215E

S466394N



100m

bfw

c 2m

N/N

Wd 62, 38, 21 4.7 2.2

2.1

RC 30% willow

LWD 1pc lg 5 originates at R point

to LB broken w/ stream in pool

30 80 yr 205

2. undercut w/ moss sloughing

veg off (willow 5 alder, stream)

BR grfs bar (point bar) open veg -

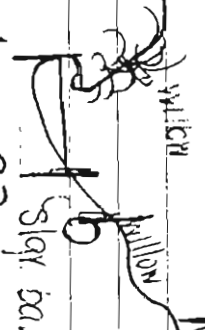
willow

2 stream is - veg - Kilde SP

- fully managed catlin

beaving

Rd



LP



50m

b/w

b/d 2m

ww

wd 30, 36, 20

cc 0

rc 10 1/2 willow

sb 85 gr 155

LWD 1 slight bench 5 m

BL undercut 5.10m vert grass + willow OH

R undercut 0.10m vert moss slashing  
rounded. LWD + willow OH

50-95m shallow rhyke  
at 80m

b/w

b/d 2m

ww

wd 75, 98, 28

cc 0

rc 10 1/2 gr willow

sb 80 gr 305

LWD 0

BL extremely undercut, mossy  
willow + grass OH

BR gr 15 point bar w/ grass + willow  
at top of slope - fl. plane @ 2m,  
causitum



4.8

0

at 70m

b/w

b/d 2m

ww

wd 72, 47, 33

cc 0

rc 15 1/2 willow

sb 50 gr 505

LWD 0.7 g pulled out w. outwards,  
fallen due to undercut bank. build  
up on logs at outside bank (R)

BL undercut w/ willow OH

R slope sand - to undercut @  
65m where tree fallen across b/w

at 55m

b/w

b/d 2m

ww

wd 13, 23, 28

cc 0

rc 10 willow

sb 80 gr 209

LWD 2 pa 0.5m dia from bend to  
50m (along R bank)

BL undercut, mossy slashing over bank  
w/ willow. 0.4m

RB gravel deposit - willow. LWD.

LEVEL

0.50m 3 x 0.15



0

3.5

3.4 4.5

0

1/2 gr bar

at 85m

pool, outside  
of bend

good cover

at 55m

moss 0.25m w/ across  
width - cause gr  
deposit & mean effect  
at R side - scour pool



at 50m

bfd 3.9

bfd 2m

ww 3.9

wd 37, 51, 45

cc 0

RC 10 willow

LWD 0 - small branches OH L bank

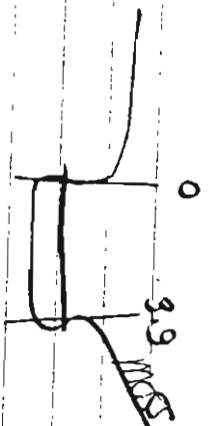
Sb 80 gr 005

BL undercut by moss, sloughing, grass + willow OH - fld bl @ 2m

R same as L bank w/ sloughing of bank @ 2m q 1 m horis. has sloughed into stream - notably being U/C.

- at 1.5 m cut bank - 11 pl (2 2m)

unconsolidated slope to c 45. 1D + SS.



at 40m

bfd 3.7

bfd

ww

wd 25, 22, 12

cc 0

RC 15 w. w. grass

LWD 0 - sm. branches gathered within w. w.

Sb 80 gr 205

3L & R same as 50

note RB from 30-60 extremely messy wet - cut bank (moss) dipping into

over plateau at top of mossy slope ~ 25 gr

at 30m

bfd

bfd

ww

wd 60, 83, 94.

cc 0

RC 15 willow grass

LWD 2 pc h - lone R bank 10' over

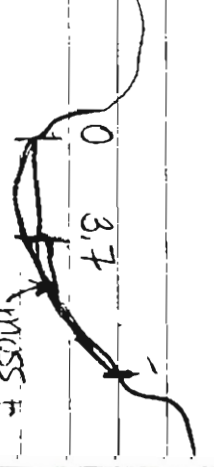
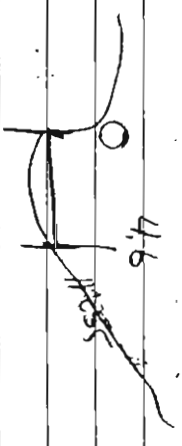
Sb (S&H - clay & 10cm) 90".

10 gr 505.

(pool) - silty, w. flow

L + R bank SA 40

LEVEL



at 20m

bfi 4.2

bfd 2

ww

wd 28, 39, 40

CC 6

RC 10 willow OH

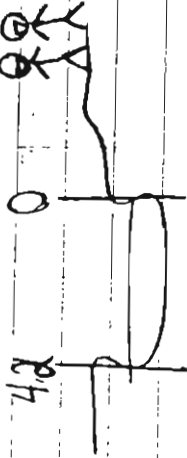
Sb 70 gr 20 s 10 silt (compute to layer)

LWD 1 med L bank c 2m long 2 1/2 m/c

BL + R same as 40

4.2

humus



at 0m

bfi 4.3

bfd 2

ww

wd 54, 4, 19

CC 0

RC 30' willow

LWD 1 PC (see 0m)

Sb 70 gr, 20 s 10 silt (clayey)

See 0m



RC @ 15m (3m x 1m x 0.5m)

(cut bank)

at 10m

bfi 4.8

bfd 2m

ww

wd 64, 96, 73

CC 0

RC 15 willow

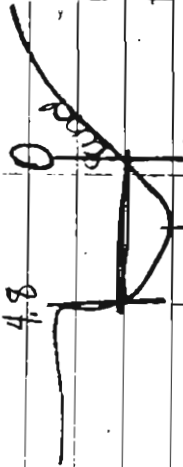
Sb 70 gr 15 s 15 silt

LWD 1 across from LB to RB

BL SA 40 (5m sand slope)

R sand slope - appears to be cattle crossing 10m wide

4.8



LEVEL



5 Oct 1996 SITE (30)  
 Frenchy CV. Upstream RACH3

Confined meandering stream - fairly uniform in width - excellent riparian cover in full brush. No dead debris protruding at low banks or across bankfull channel causing cold effect. Poles secured all <sup>outside</sup> banks under out banks w/ gravel point bars.

Temp = 6°C

algae

Photos: 18-24

GPS FILE

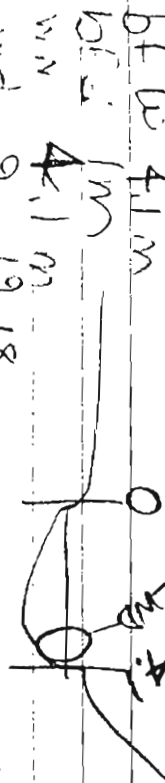
@ 0m S100523A

662518E, 5464928N

at 100m S100523B

662493E, 5464979N

upstream at 100m max at 100m, 100m pool - score at 100m, 100m x 37m deep



100m

bfe 4.1m

W 4.1m

W 4.1m

CC 10 55

RC 15 w/ 10m

RC - mcp 17c Rbank 11c

RC 15 w/ 10m

W 4.1m

W 4.1m

CC 10 55

RC 15 w/ 10m

RC - mcp 17c Rbank 11c

RC 15 w/ 10m

LEVEL

at 80m

bfw 3.3

bfd 0.9

ww 3.3

wd 12, 16, 22

CC 5 55

RC 20 willow

LWD 1 pc <sup>5/6</sup> fallen from Lb (bank to bank)

0.3m above water level - stable

Sb 15 bd 40 cb 30 gr 15 S

BL 2m cut w/ moss slaughting

OH (willow OH on well)

R SA 100

at 70m

bfw 6.6

bfd 0.7

ww

wd 23, 14, 13

CC 5 55

RC 5 willow

Sb 5 bd 30 cb 50 gr 15 S

LWD 0

BL underneath 2m bank w/ moss

growth slaughting over bank

X gravel point bar sloping moss to

willow

at 60m

bfw 3.1

bfd 0.7

wd 14, 16, 11

ww 2.6

CC 0

RC 10 willow

Sb 40 cb 40 gr 20 S

LWD 0

BL flpl flat ~10m to 20V SD

willow dominate flpl with willow

R slight gravel / s point bar

to moss slaughting over 0.1m

cut bank to flpl > 10m

dom. by willow

at 60m

bfw 3.1

bfd 0.7

wd 14, 16, 11

ww 2.6

CC 0

RC 10 willow

Sb 40 cb 40 gr 20 S

LWD 0

BL flpl flat ~10m to 20V SD

willow dominate flpl with willow

R slight gravel / s point bar

to moss slaughting over 0.1m

cut bank to flpl > 10m

dom. by willow

4.6  
3.5  
2



at 30m  
 bfw 0  
 bcd 0.5  
 wd 7, 8, 12  
 CC 0  
 RC 10 willow  
 Sb 40cb 40gr 255  
 LWD 0  
 BL + BR SA 60

at 40m  
 bfw 2.5  
 bcd 1.5  
 wd 12, 11, 10  
 NW 2.5  
 CC 0  
 RC 5/1 willow  
 Sb 20cb, 50gr, 305  
 LWD 0  
 BL same as 60 (except no fl. pl.)  
 BR 60

at 30m  
 bfw 2m  
 bcd 2m  
 wd 32 29 32  
 CC 0  
 RC 5 willow  
 LWD 0  
 Sb 20cb, 50gr 308  
 BL gr/s point bar (Pennisetia)  
 big grass, lupinus growth  
 on bar

BR cut back w/ willow at 4  
 snagging moss appears rounded.  
 at 20m  
 bfw  
 bcd 2m  
 wd 11, 23 14  
 NW  
 CC 15 55  
 RC 5/1 willow  
 LWD 0  
 Sb 25cb 50gr 255  
 BL same as 60  
 BR same as 60 left w/ juv ss speckling  
 into cr + LP beginning to skulk.

at 17m small tributary L has (0.6m wide stretch)  
 LEVEL

at 10

bcw 3.0

bfd 1.5

ww 1.6

wd 31, 24, 14

cc 2 ss

rc 5 willow

lwd 0

Sb brk 20 (1B), 40cb, 30gr 10S

BL Cut (direct) w/ moss sloughing

9 willow OH

BR fl pl at 0.5m 20m

willow dominating

\*note: 2' 15m

pool w/

gravel / S

bar.

↑

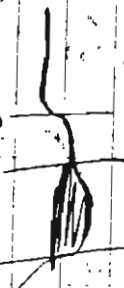
BL JWC

Soil at slough

appears v. silty

goopy muck.

3.0 1.4 0



at 0

bcw 3.9

bfd 1.5

wd 7, 9, 9

ww

cc 0

rc 10 willow

Sb 40cb, 40gr, 20S

LWD 1 pc 5' away, 1 pc 3' away

angled obs, 1/2 way 1" diameter

BL 0.1 cut dark pebbles, willow

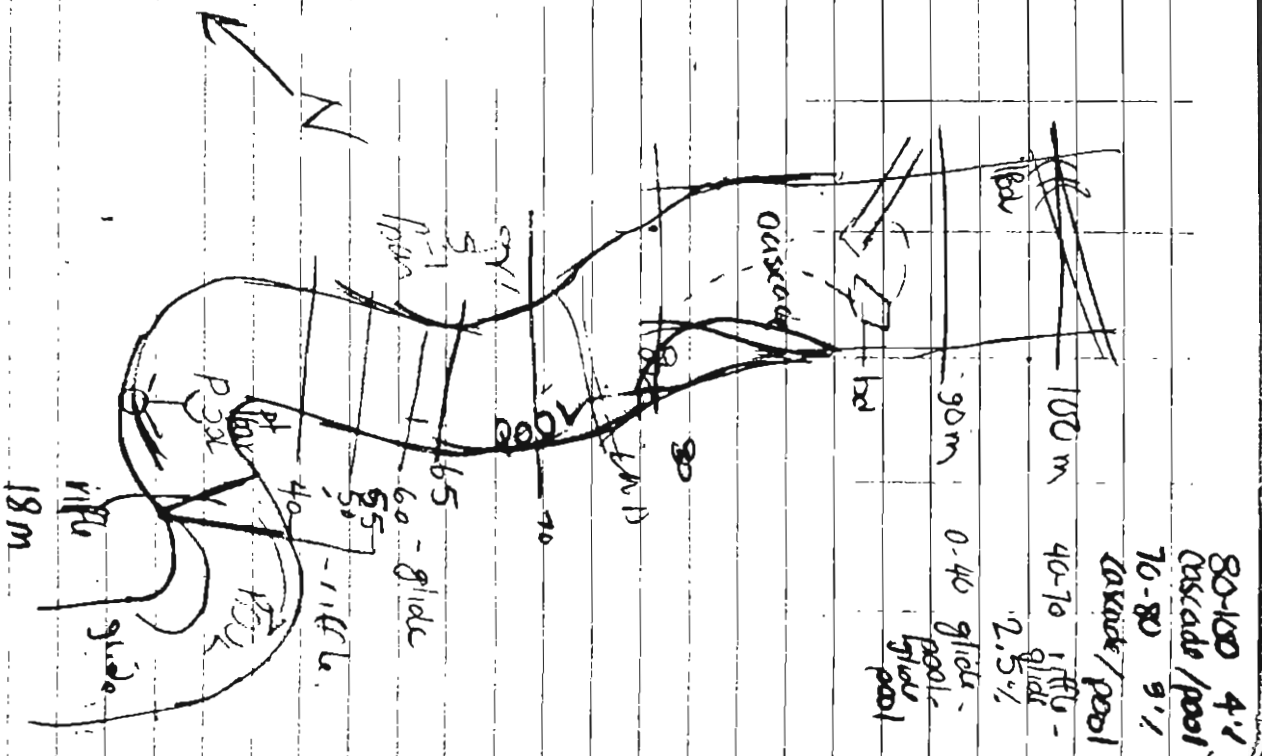
OH -

BR underground 0.2m w/ moss sloughing

over (average bank) willow OH.

LEVEL





# SITE (20)

20 Oct. 96

Granite Creek Lower Reach I

T = 5°C

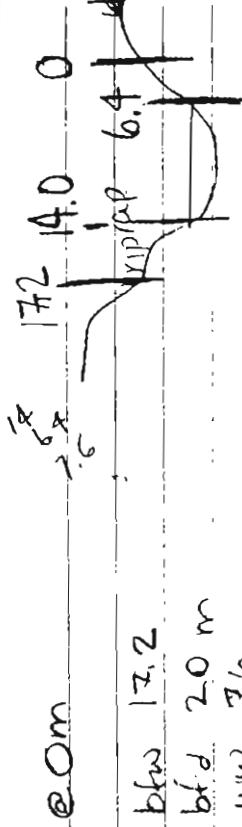
Flow is NE

Gradient for entire reach is 2%  
 ~100 is riffle - no complexing  
 features. few boulders, very  
 little cover. apparent that

rip rap surrounding was done on  
 left bank. mostly from 0-(-100m)  
 to bridge. Most of reach is  
 cobble banded and bare. Road  
 runs parallel to creek along  
 right bank.

3100218A 6681116 E 1/4 point  
 5485835N @ 0m  
 3100218B 668045E  
 5485791N

PHOTOS: - 1 looking up from 100m  
 2 " d/s " "  
 3 woody debris on bank  
 at 80-90m



b/w 17.2  
 b/d 2.0 m  
 w/w 7.6  
 w/d 36.29, 23  
 CC 15.1 CW  
 RC 0  
 LND 0

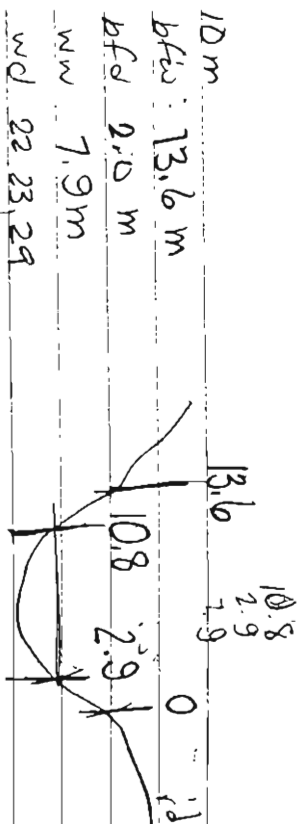
Sb 35 cb, 45 gr 20S (cross not  
 include LB - which entirely  
 1 m broken rip rap.

BL rip rap, 4 large CW @ ~4 m  
 vert. otherwise absol. no veg - bare.

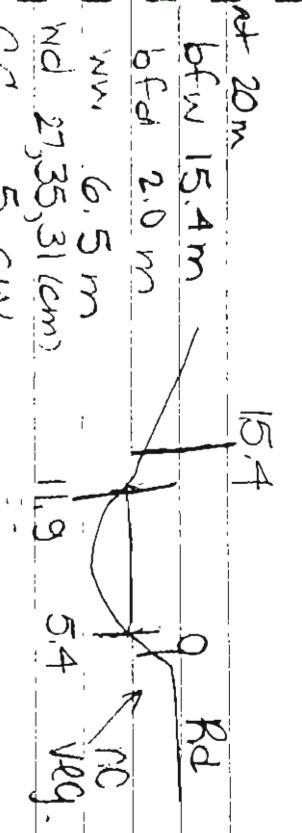
R bare no veg, gravel bar (point bar)  
 should be build up (pass evidence  
 of CAT - [boulders] - some damage to  
 trees etc.) in gravel no nec  
 deposited by flood. Some tiny spurts  
 of grass poking through but nothing  
 w/ rip rap. Value!

LEVEL





10m  
b/w: 13.6 m  
b/d 2.0 m  
w/w 7.9 m  
wd 22, 23, 29



at 20m  
b/w 15.4 m  
b/d 2.0 m  
w/w 6.5 m  
nd 27, 35, 31 cm  
cc 5 cu  
rc 0  
sb 5 bd, 60cb, 30gr 55  
lnd 0  
lb 0  
rb 0  
nc  
veg

CC 0  
RC 5 S. alder  
SB bd 2, 60cb, 30gr 85  
LND 0  
LB slope cb, w/ some small  
willow growth, juv. S. alder  
behind & further SS juv.  
RB riprap (lg) to road level  
no veg.  
1 CW + 1 df between  
bank + road nothing else.

CC 5 cu  
RC 0  
SB 5 bd, 60cb, 30gr 55  
LND 0  
LB CW in fl. pl. S. alder  
near to bank but provides  
no riprap cover no veg lower  
RB riprap to road - bare,  
cluster of 3 mature CW  
between rd + bank in  
only veg.

13.3  
5.4

16.3

at 30

bfw 16.3m

bfd 2m

wn 7.9

wd 22.23, 24

cc 0

rc 0

sb 5bd, 65cb 30gr

LWD 0

BL same as 20

BR Rip rap to road - bare.

CWR2  
mature

0

13.3 5.9

13.3

5.4

7.9

at 40m

bfw 15.6m

bfd 2m

wn 7.0m

wd 12.35, 23

cc 5 cu

rc 0

LWD small branches dep at foot

of Sailer on fl on rc

fish value - not stable.

Sb 20 bd, lg jagged up rap from

R bank - in wn) to cb, 30gr OS.

BL slope to fl pl. - same as 20

BR Rip rap to road - bare

1 SS semi-adult (> July 15M)

between top of bank + road!

15.6

11.9 4.9

11.9

4.9

7.0

LEVEL

at 50m

bfn 16.0m

bfd 2m

wn 7.0

nd 19, 30, 43

cc 10' CW

rc 0

LWD 0

Sb: bd 10, Ch 30, Gr 40, S 20

DL slope ~2% willow, S accretion

just SS on fld pl (5-6m)

R steep riprap confined 60% sp,

(1m riprap w/ gravel fill) riprap

is jagged. CW on bank but

no riprap. veg. df, CW & SS

wet back from bank.

at 60m

bfn 16.2m

bfd 2.0m

wn 7.7m

nd 21, 25, 24

cc 10' CW

RC 0 Sb 10 bd, 30 Ch, 40 gr, 20 S.

LWD - only 5m. debris deposit

at foot of CW on R bank.

DL ~2% flood plane for 10m

w/ young vegetation, mature

CW. no riprap veg OH.

BR large riprap surrounding

bank to 1.5m. Behind (up

bank) is cobble/gravel

deposit w/ few mature SS.

Same deposited further

> 7m at foot of trees.

A1 60m - riprap begins

to bridge and beyond, w/s

from 60m is cobble slope.

bank



AB 14  
8.7

at 70m

bfd 19.1m

bfd 2.0m

WW 8.7m

WD 13, 33, 26

CC 10.1 CW

RC 0

LWD some small debris deposits

(branches etc in root wads)

High on R bank no value.

Sb 2bd 40 cb 40 gr 18 S

BL sloping to fl pl. w/ small

young patches of willow & trembl

aspen.

BR cb slope (8th bed) to gravel

bank to mature SS + df.

one tiny maple rooted - nothing

else.

19.1

4.7 13.4

@ 80 m

bfd 17.3

bfd 2.0 m

WW 10.4

WD 22, 21, 26

CC 20.1 CW

RC 0

Sb 38 cb 40 gr 20 S 2 bd

LWD 1 pc. med back up against (unc)

CW (diff than @ 90m)

woody debris deposited here

LB 3 1/2 slope to flood pl

gravel to sand to rip veg

@ ~ 5 m CW & S alder

along bank @ ~ 3 m.

- Appears flood raised water

level enough to dep. Sand/

gr sed, on flood pl as well as

woody debris & damage what

rip. Veg existed while leaving

CW & S alder standing. ↑ flow

but all pl. such that energy

was dissipated (well?)

LEVEL



at 90

bfd 18.3

bfd 2.5m

WW 10.4

WD 24, 26, 19

CC 10, CW

RC 0

Sb 5bd, 40cb, 40gr, 15s

LWD 2pc lg, backed up against

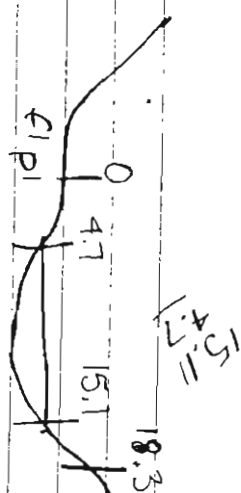
2 CW on L bank - shield by flow during flood, some woody debris (honeyree etc) deposited here as well - appear stable but only

valuable during higher flows.

BL slope 2:1, fld bl. gravel stream WW to sand dep. (4m ft) sand on

-11p1, 10m, veg (young) CW, S. alder, just SS.

BR CB attributed to gravel dep (60% slip) its vent bank, no rip veg, SS + CW on top of bank



at 100 m

bfd 18.7

bfd 3m

WW 11.5

WD 16, 13, 25

CC 5%, S. alder, CW

RC 0

LWD 0

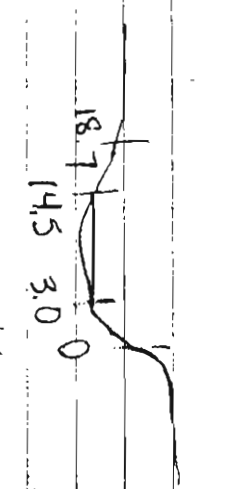
Sb 5bd, 50cb, 30gr, 15s

BL 10m fld to 10:1 slope veg fl plane upping veg stream appear 9 S. alder, sand deposited here (from flood) fine material

SS, CW

R CB to gravel (dep. sloping to cut bank) bank cut @ 1m, w/ root + veg 0.4 but not

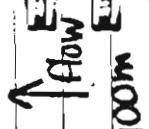
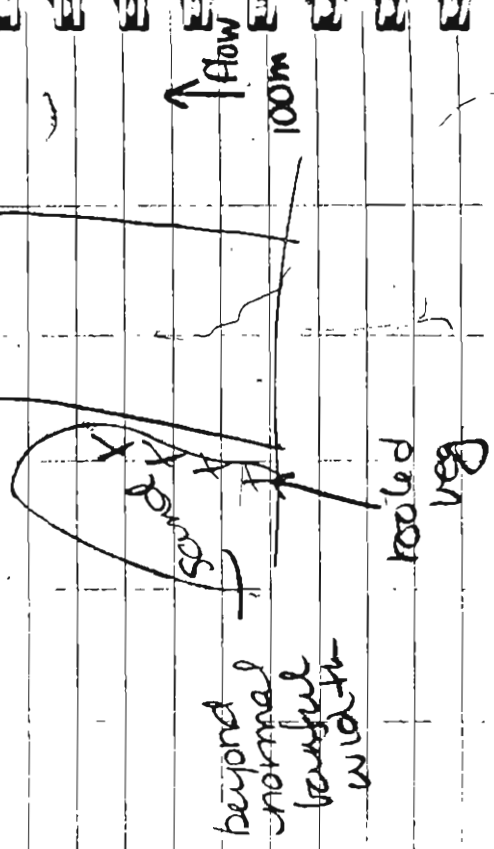
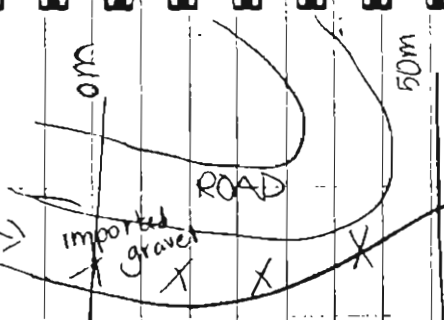
valuable run was very high flows S. alder, dogwood.



BRIDGE

15m bank  
~50% bank  
riprap lower,  
upper  
not native.

appears  
to be  
not  
native here.



6 October 1996 (32) DR  
Granite incl-low REACH 2

GPS from truck (road)  
Easting: 665297, 5479024

T = 7°C  
Photos 6-11 (615415 of site - slide)

Rocks clear, very few small tufts  
of algae.  
Small plants formed throughout bottom  
of or on bottom of 2' by 0.75' area,  
Elev @ 100m 5006208 B 35438E  
478929 N

O 5100620A  
665447E, 5479056N



at 100 m

bfn

bfd 1.5 m

WW 9.2

WD 20 22 24

CC 0

RC S. alder 20% WWC

Sb - 15bd 40cb 40gr 5S

LWD 5 huge CW on R side of WW,

cb bar (20% bfn c) 1 root wad

in WW - causing sm. wd deposit

\* all rootwads fac d/s - no anchoring

could be unstable in TT flows

BL U/c 1m vert w/ grass OH

few S. alder (live) ploughing (sm)

flood plane is at 1m S. alder, 5S,

willow

BR - cb/gr bar loaded w/ ↑ LWD

sloping to juv. CW, willow fl. plane.

at 50 m

bfd 1.5

3S, 3S, 4S

CC 2 1/2 SS (scum)

RC 15 R 03 dw

LWD 1 pc rootwad 10% (bag) (at 90°)

Sb 1 pc med. en. BD - dry

BL 10bd 40cb 40gr 10S

BL 2m cult w/ root 4, 1 pc

reg OH. LWD high on

bank protruding on E

0.1 m.

BR - sloping cb/gr bar to young,

reg to forested LP (semi-met).

19.4

13.3 0

rootwad of one



scum

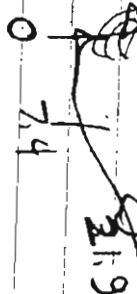
d/s

at 80m.

1.03 dm dead bank sloughing over in water, appear to stay in bank + great 74m

100m at 10m

bcd 1m



23, 33, 32

CC 0

RC 10% w/bw, 8 older

LWD 1pc lg CW high on Rb (ban)

Sh 20 bd 30cb 40 gr 10S

BL 2m cut bank 5m wd (margins)

deposited along a top bank - bank is undercut + sloughing, root OH

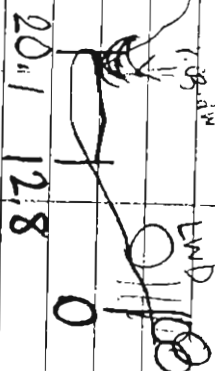
BA ob/gr ban, LWD, sloughing to veg (see)

at 70m

bfw

bcd 1.5

WD 33, 24, 30



CC 2.1, 55

RC 15 r. 03 dm

Sh 20 bd 30cb 40 gr 10S

LWD 20f 1pc (see 80+ 90) 5/cover

BL w/c w/ dead R. 03 dm OH. Bank is

sloughing, 1-100% OH

PR ob/gr den to veg w/ LWD 4 LWD on

veg w/ am wd cut p, no valve too high

at 60 m

1.5

32, 6.5

CC 0

RC 10 S older R. 03 dm

Sh 5bd 30cb 40 gr 25 S

LWD 1 lg root wad (tree) elevated pool

at 45 but no 1/2 any water is stagnant

BL 5A 70

BL 5A 70

BL 5A 70

at 50 m

at 2m

at 1.5

wd 10, 5

wd 20, 24, 12

CC 0

RC 15 S older. Sh 5bd 30cb 40 gr 25 S

LWD 2 mud - high & dry either bank

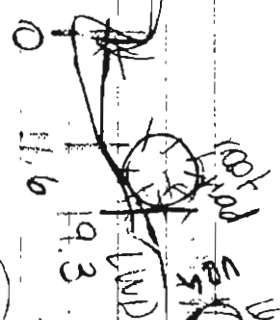
BL semi-mature has sloughed - stabilizing via

protecting bank - exc cover for fish + crabs

looking @ 45 due to survey

PR slope - ob/gr den to 1m cut bank w/ S older

+ R. 03 dm OH

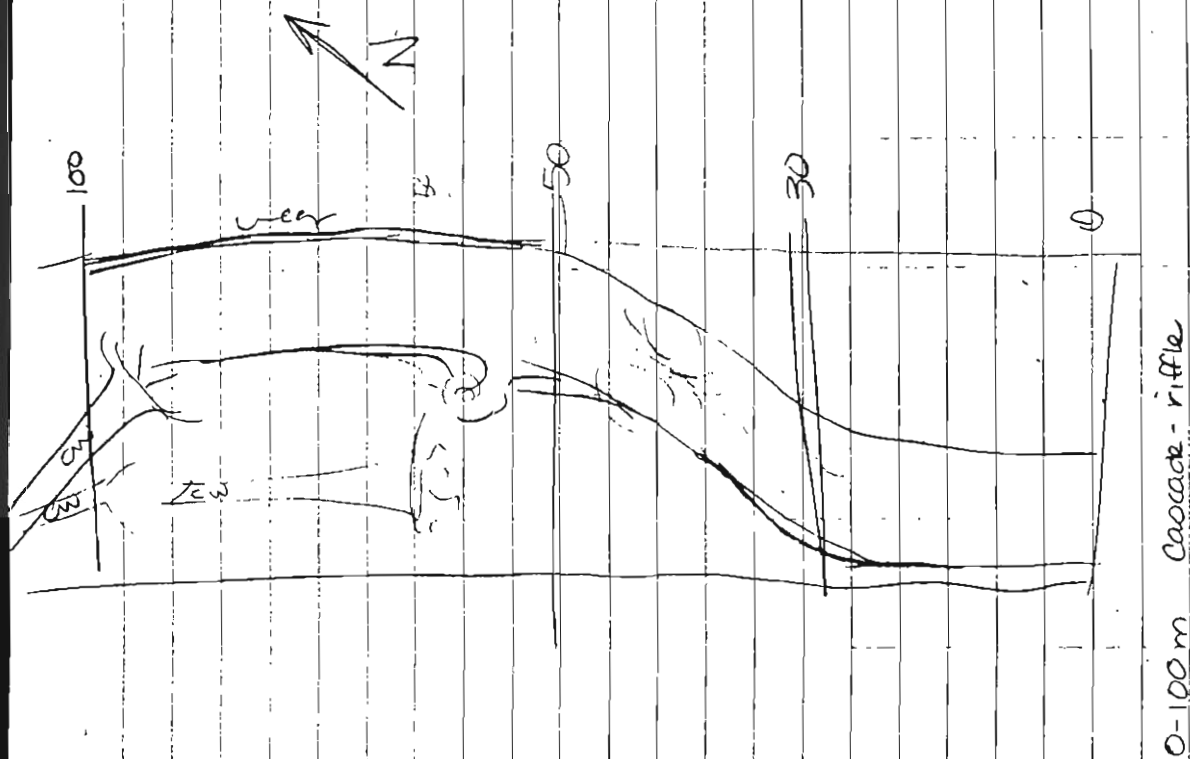












6 OCTOBER 1996

SITE (31)

GRANITE W/PE - mid

REACH 3

Photos 1-6

GPS at 05100617A 663517E, 5476385N

at 100m 5100618A 663455E, 5476324N

Rocks clean w/ little algal growth w/in WW.

T = 5°C

Gradient 3.5'

Photos 1-3

Damages: possible shed by  
conformant - water (gravel in S6)

of <sup>flow</sup> decreasing confined  
under <sup>cut</sup> banks - However, banks  
eroding rapidly (causing +

sound of gravel on Rb.

Veg looking at seaward bank  
slides (gravel bars - v. sm willows)

Look - non-ferrous possible

now slowly, life flow becoming  
confined due to eroding banks.

LEVEL



at 100m

bfw 20.5

bfd 2m

ww 10.1

wd 28, 12, 24

cc 0

rc 0

LWD 1 pc (0.3m dia x 2m) in wetted

width - rotted unstable 10wmc

Sb 30 bd 40 cb, 10 gr 10s 10 day (cemented in)

Cobble layers are 0.3m dia (cemented in)

BL 1/2 pl flat to road (cobble slope to fl. pl.)

at 40m - Salder, willow, R03 dw.

at riparian zone, mature CW

set back from creek (upslung

fir & spruce). Point bar.

R 4m cut bank - w/ root OH,

juv. LP pine on top of bank,

erosion evident, from ww

to cut bank - cement like clay

w/ gravel imbedded 2m.

deposits.

14.7

cb

gr

4.6

20.5

14.7

cb

gr

4.6

20.5

14.7

cb

gr

4.6

20.5

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cb

gr

4.6

20.5

14.7

at 70m

b/w 31.3

bfd 1.2

wd 45, 35, 30,

ww

CC 60/ sloughing SS + Sander

RC 10/1 Sander

Sb 5bd 20cb 20gr 40S 15 clay/silt

LWD 2 pc med gr w/c high + cemented hard bed

BL shore gravel/s bar to fl pl.

BR 1.5m w/c bank top layer sloughing over reaching LWD (in mind) some sand dep.

at 60m

b/w 33.5

bfd 1.5

ww

LWD 17, 40, 37

CC 0

RC 10 Sander R. S. du

LWD 10 pc med-large along R bank -

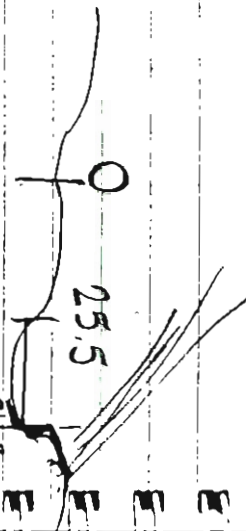
incorp newly to bank - fairly stable, 4 pc on gravel bar - unstable (0.5 dia)

Sb 5bd 20cb 50 gr 20 S 5 clay

BL gravel bar slope to fl d pl.

BR w/c to 1m sloughing LP, M root OH,

3 cinder OH willow OH



at 50m

b/w 29.0 m

bfd 1.5m

ww 10.8 m

wd 19, 12, 21

CC 0

RC 0

LWD 4 k pc (SA 60m) 2 pc 20m 1 pc 20m

of branches & roots on right bank

Sb 5bd 25cb 45gr 20S 5 silt clay

BL large up veg toward LWD -

small channel on left side! consider

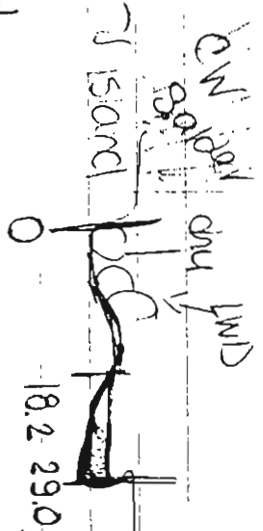
this L bank. ↑ am branches &

roots jammed w/ LWD here. (diagram)

BR 1m w/c w/ M root OH, pooling

downstream bank

Pool @ 49 m - 4m x 2m x 33cm deep w/ am. woody debris



LEVEL 10.2 29.0



at 40m  
 bfw 19.9  
 bfd 1.5m  
 ww 19.9 8.5.1  
 wd 26, 44, 64  
 CC 10% SS  
 RC 2% S. alder (juv.)  
 LWD 2 lg L bank (see 50m) 1 med on top  
 of R bank 0 wnc  
 Sb 5bd 30cb 30gr 30s 5 silt/clay  
 BL cut at island, ↑ root OH - dry  
 gr/s bar to ww.  
 R undercut at 1m vert, flow is  
 beneath bank w/ extensive root  
 OH. some SWD branched, broken  
 roots (stacked up) deposited on top  
 of bank

channel deep - more defined here  
 than rest of site.

Non-fundt but ↑ - unstable!

16.8  
 17.8  
 9.9

at 30m

bf 1.5m  
 wd 25, 36, 43  
 CC 10% SS  
 RC 5% R. C. 3.1V  
 LWD 0  
 Sb 5bd, 20cb 50gr 25S  
 BL cb/gr car to 8m stagnant  
 channel - to 1.5 m under  
 bank as root of little (1) R 3.2m

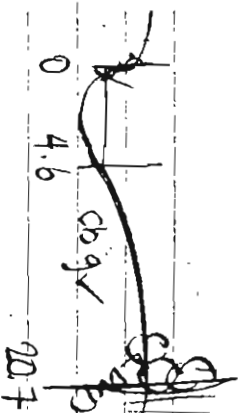
POOL 54cm

at 20m  
 bfw 16.9  
 bfd 1.5  
 wd 21, 13, 24  
 ww : Sb 5bd, 30cb 40gr 25S  
 CC 40 SS CW 10bd, 40cb 30gr 20S  
 RC 10 S alder  
 LWD 6 pc no wnc - banked (Rb)  
 high & dry w/ veg growth wading  
 2 them

BL 1m 1/2 root OH - eroding st  
 top kiper ripen veg 50% S. alder  
 R gravel cb point bar sloping to  
 veg. w/ deposit - mature CW & juvenile  
 pine + spruce

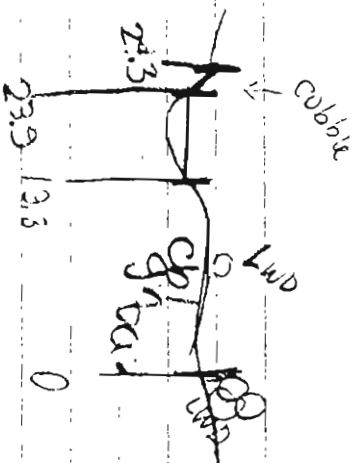


at low  
bfw 20.7  
ind 36.38 24



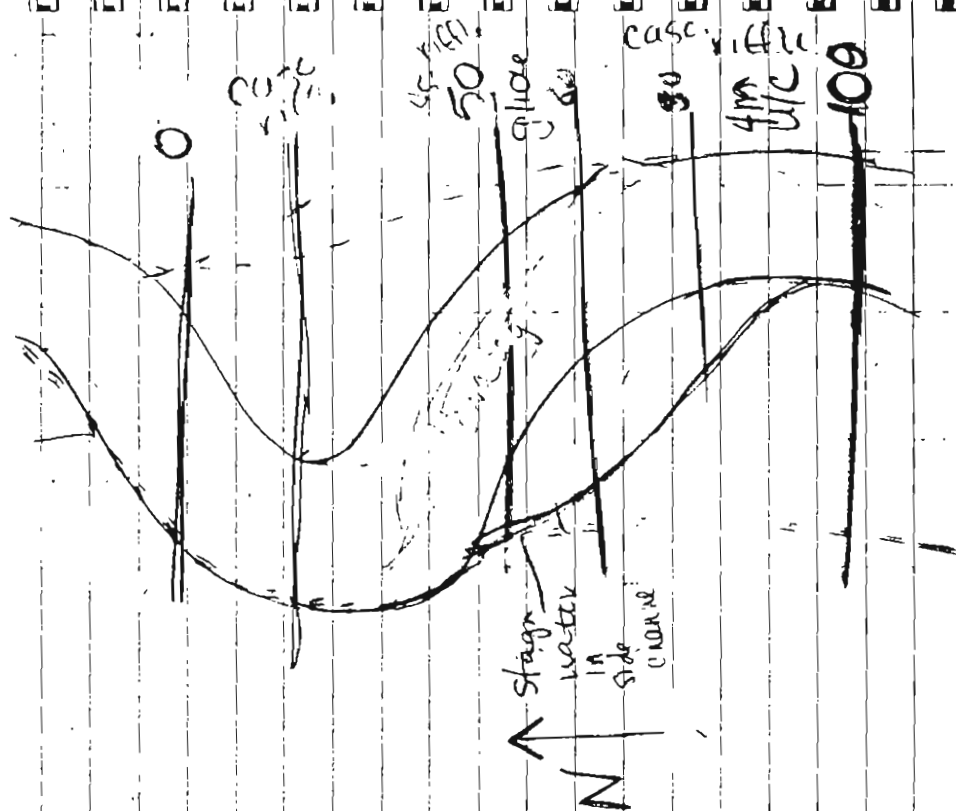
CC 5 cw  
RC 5 sadder (bfw) 2.1 wve  
Sb 5 bd 30cb 40gr 25S  
LWD 5 - high a dry on R bank at veg growth.  
BL lm cut bank w/ ↑ root off + branch/moot deposit. top layer is OH, sloughing & rounded providing excellent cover  
BR cb/gr point bar, slope to veg - LWD deep at veg

at Om.  
bfw  
bd 1.3  
wv  
wd 24, 24, 35  
CC 0  
RC 1 Sadder



LWD 4 pc 1 high on gravel bar 0 wve 3 inches at veg R bank  
Sb 5 bd 30 cb 40 gr 25S  
BL veg at low water & lm hwy. cb deposit (not cur. but v. steep slope). wD (mou) backed up at veg, no valve pt.  
R slope gr/cb bar, no veg, to LWD & veg high & dry (slipping)

Granite mid-up



6 OCT. 86

SITE (32)

GRANITE CR. (UPPER) REACH 4

PHOTOS 11 -

mess on upper edge in stream - blk

GPS on S1007008 657310E, 5465626N

100m S100700A 6571272E,

5465625N

Shedule 1:

0 - 20 m 1%

20 - 50 m 2%

50 - 100 m 2%

100 - 500 m cleared

both banks, 10m & 5

WD instream & on

banks - no trees along

banks

0-50m tree lined

within cl. cuts.

BB - bank to bank

100m

bfd 0.7

bfw

WN

wd 12, 10, 11

CC

RC 10% willow

Sb 25% bd 20cb 55S

LWD 100-90 15% 3 med pc BB w/ 8m debris

BL 0.10 cut bank (undercut) w/ moss

Sloughing, grass OH

R sand point bar to willow OH

20m

bfd 0.7

WD 22, 20, 6

CC

RC

Sb 80S 10cb 10gr

LWD 1st pm 5pc BB with 1 sm WD

2nd pm 89 7pc BB

wood throughout 10m length - some smaller  
act. w/ as woc were, sand den. 0.10 m sup.

BL

BR

SA 100

SA Left



80m

bfd 0.5

WD 10, 8, 1

CC

RC

Sb 10cb 20gr 70S

LWD 3lg BB 5'

1lg atop RB

3 med BB

2 med atop LB

4 med atop RB

BL + 3 SA 30

70m

bfw

bfd 0.5

WD 16, 22, 9

CC

RC 5 willow

Sb 10cb 20gr 70S

LWD 2 BB (1-0.3 weirs 5' deep)

3 med LB, 1 med RB, 1 BB, small thought

LB 1/2 cut, f, p, flat - Cl. cut

R pt bar - gr & sand

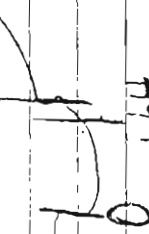
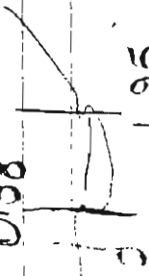
L

0.38

1.95

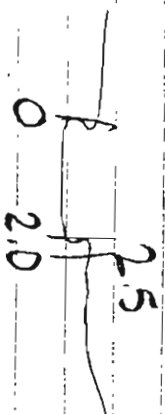
2.54

1.64





at 60m  
bfd 0.6



wd 18, 20, 10  
cc 0

RC 5% willow

Sb 15cb 15 gr 70 S

LWD 3 pc 1g B13, 20%

1 " " LB (atop)

1 med B13 - 5m w/ building pool (0.25)

7 small (atop both banks) 1st benches etc.

BL - un/er/ect grass OH

B.R - generally (by 50m - 60m) - un/er/ect

(Sb L): at 60m stand point bar

Sloping to mass veg (grass thistle

at 50m (50m to culvert 20m)  
Sb 0.6



wd 3, 10, 10

cc 0 RC 0 Sb: 70 cb (from 10m from road small gap)

5 bd 35 S

ND 4 pc med RB 3 atop - 1 along NW

BL slope - fac. lin. loc. firm weed

some grass - mostly 4 w/ 50m x

R some as left, more grass - veg. some willow

to culvert 10m pool pos barrier at outfall

bfd 0.6



condup

wd 26, 48, 38

cc 2' 35

RC 5 willow

Sb 5 bd 60 cb 20 S 15 silt/cl.

LWD 0 6 8m w/ on top of both banks,

BL un/er/ect - some new rock dep

(low at R bank)

R un/er/ect w/ more 2 grass, willow OH

at 4m  
bfd 0.6

gr/s  
ban

2.56

0.41 1.56

wd 5.11.22 0.41 1.56

CC 20 SS

RC 25 willow

Sb 50 g 50s

LWD 1 m incorp as L bank moss growth  
1 m atop LB 0.5 m cover (2'')

BL slope sand to irreg log under  
moss at 40 \* 30-38 m - undercut will  
OH

R 1 m - sloughed moss on undercut  
(0.5 m horiz) exc. cover (THE BEST!!)  
SS stand 4 m from willowward

at 30m  
bfd 0.6

L 0.13 2.5

RB upst, moss  
+ root CH grass  
all flow here

LB cut dry-gravel  
step

RC 20 willow Sb 30 ch 50 g 20s

LWD 5 lg - LB atop (one is rotting NW  
over)

3 lg RB 2 sloughing rot wet

2 " BB both wet w/ sand & deep - sup 0.2

4 met RB 3 cover (10')

2 met BB → one on steep gravel NW 20

at 20  
bfd 0.6

2.0

NO 18, 20, 12

CC 0

RC 1 SS

LWD 1 pc lg LB  
15' m RB 2 m long 2.4 dia  
from bank to mid ww

Sb 40 ch 50s 10s

BL undercut moss CH ci cut f1 p1

BL undercut moss sloughing OH (at 13 pt bar)  
at 10 m

bf 0.6

1.9

0 1.5

wd 5.10.7

CC 0

RC 20 willow

LWD 2 small pc inc left tree

Sb 10 ch 60 g 30s

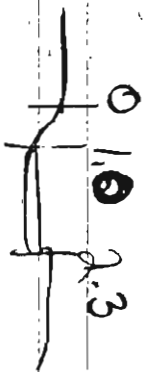
BL undercut w/ moss & willow OH

K same as left



at 0m

Lfd 0.6



fl. pl. willow &  
grass, ss.

ND 8, 9, 11

CC 20% SS

PC 20% willow

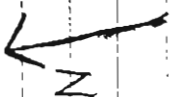
Sb 10 cb 60 gr 30 s

LWD 0

Bl gr point bar slope to wpy  
R same as 10.

7.1

ripple



near  
pool

pool  
4.3

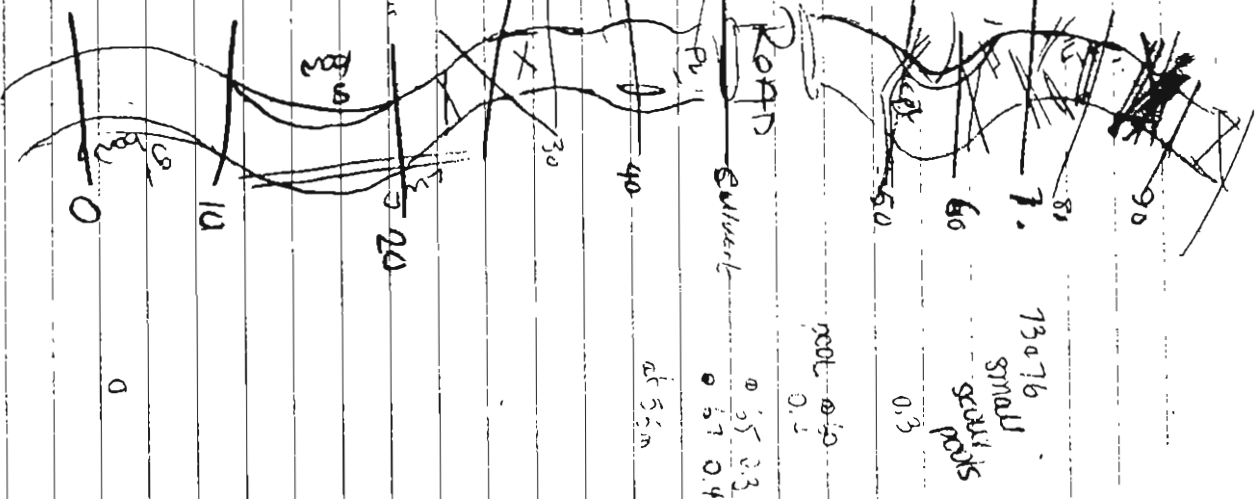
50-100 mtlle

w/ steps occurring  
due to logs & gr debris  
some pooling

0-15 mtlle

15-40 pool  
(step cascade)

40-50 mtlle



SITE ② 27 Sept 30 REACH  
TOP REACH - 2500m REACH

2-300m Jaws NE

COSS #17-21

check 4.001 - 2.000m

but form in subsoil

COSS #17-21

COSS #17-21

COSS #17-21

COSS #17-21

COSS #17-21

COSS #17-21

COSS #17-21

COSS #17-21

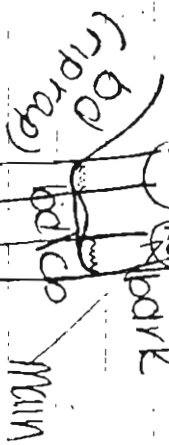
21 30m - 100m

(approx 4 m up from bank)

0 m

Side + LC

RC bark



of w

b/c

0.6

wu

wu

0.1, 0.11

LS + wu

0.3, 0.3 (wu)

2.8

4.4

CC

0

RC

0

LWD

0

Sb

30 bark, 30 bd

20 cb 10 gr 10 S

B/c

blider - unmeasured bank

B/c

rip growth nil

R

bark 5.5 m

vert. of RC some moss grasses, alder

OH

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

of RC

UN veg/bd much bar

@ 10 m

Post

b/c

b/c

wu

wu

0.8, 0.8, 0.95 (m)

20-2 40'

RC

10% alder

Sb

30 bark 10 bd 20 cb 22 gr 20 S

LWD

0

B/c

steep slope 45% foresia area

1 m cut bank w/ top veg layer

sloughing, moss acquisition,

spore roots, exposed debris

to bank (underwater stinging)

higher flows)

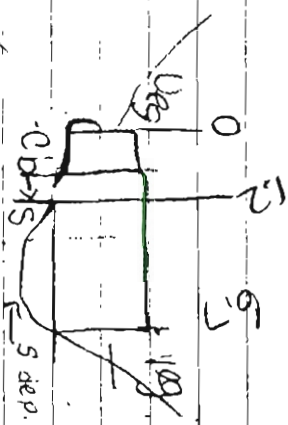
R bedrock steep confined-

no flood plane -> 1 m high

some veg: moss, vine maple

few small alder

Shila





at 20m

bfw

bfd 0.10

ww

wd 0.3 0.25 0.36(m)

CC 10-20 15% CW upper can spr

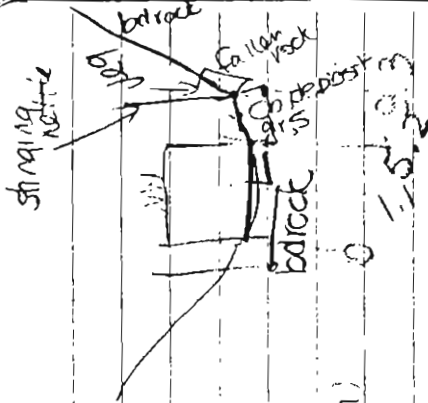
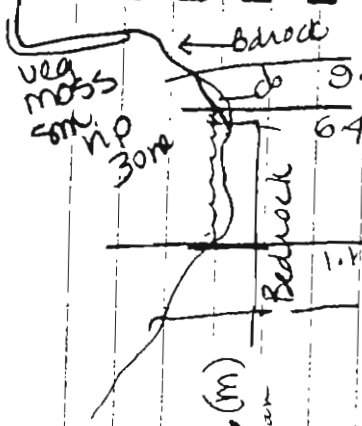
RC 10% alder

Sb 70 bdrck 10bd 10cb 10gr

LWD 1 pc 2<sup>unc</sup> overhead will eventually drop

B L bdrck to ht of 2m  
little veg below 2m, forested above

R some cobbles build up sloping to  
bd rock, some fallen rock from  
bank. Veg w/ moss <sup>5</sup>alder, spr  
grasses. 1 snag main fall seen



at 30m

bfw

bfd 0.6m

ww

wd 0.15 0.40 (m)

CC 20-30 10 spr

RC 0 wave

LWD spr along sink - out of water pres

Sb bdrck 40 Cb 30 gr 20 S D

BL 40% SL pres to bdrck  
at water level (2m of moss)

↑ fallen sticks on upper bank

R cobbly point bar (as point)

to base of bedrock slope. Some

falling rock very mossy - moist,

space of

some young alder off but

appears to be infested w/ tiny

red spider mites - leaves

are eaten spotted

Queen annes lace →

stinging nettle (Urtica dioica)

LEVEL

@40

bfn 10.1

bfd 0.7

wu 10.1

wid (in) 0.3, 0.3 black

CC 30-40 5' spr/af

RC alder 5

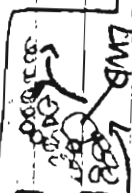
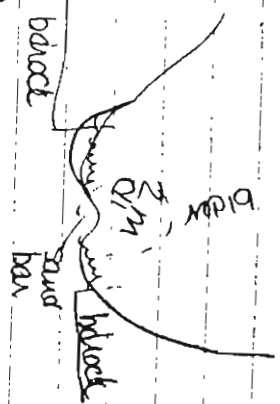
Sb 50 bdrct, 20 bd, 20 ch 10 gr 1/2

LND 2pc 5' wuc, 1 pc creating

burndup of cobb + gravel/s - comparing

birds cover for fish on d/s side

BL Same as 30

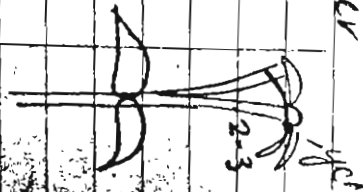


R moss alder, vine maple, alder

yellow flower - some

ca 30

Mountain Arnicia (Arnica latifolia)



@50

bfn

bfd 0.6

wu

wid 0.5, 0.5 (m)

CC 30-50 5 SS

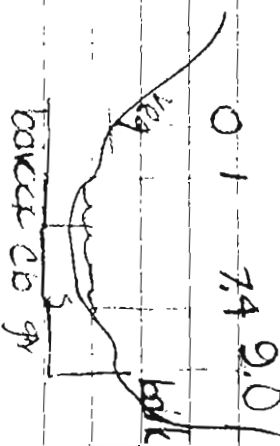
RC 20% spr 4'

Sb 40 bdrct, 30 cb 20 gr 0.5

LND 0

BL Same as 40

R " "



bfn

bfd 0.5

wu

wid 0.2, 0.35 (m)

CC 50-60 20% young cedar spr

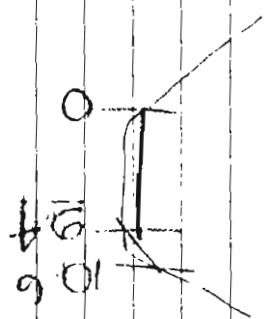
RC 50-60 Salter vine maple

Sb 50 bdrct 10 bd, 30 cb 10 gr

LND 0

BL 60% slope moss on bdrct w/

R 60% slope moss on bdrct alder, df



LEVEL



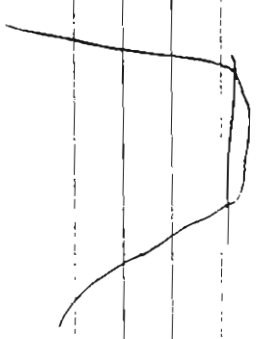
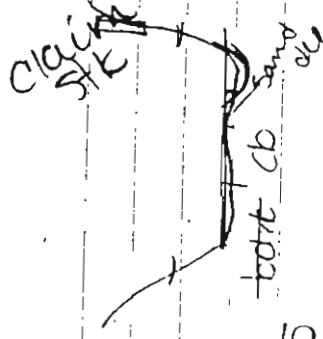
★ 2  
ad 80 m

bfw 0.7  
btd 11.2  
ww 0.5 0.4 0.25  
wd 10 kemlock  
RC 4 alder

LWD 0 one piece on bank but no bow  
Sb 30 brn, 10 brn, 40 cb 15 yr 55  
b L same as 60, fewer trees  
R " " , df, hemlock  
valder, moss, poison ivy (name)

maybe  
leaf type

★ Placer claim stake  
PHOTO,



bfw 10.8  
btd 0.6  
ww 8.9  
wd 0.4 0.2 0.5 (m)  
RC 10  
SC Bark 30, bd 10, cb 50 gr 10  
LWD 0  
b L same as 60  
R " " "

LEVEL





100

Pool 20-100

8

Impuls

custode

200

3.  $\frac{sm}{PL} - \frac{CB}{CB} - \frac{CB}{CB}$

Life

Letter

70

21/11/20

60

Cascade

18

1709

2m diant

41

7711

Cascade

rock

YOUNG

pool

**bilder**

3m diam

BR1022

JIM KELLY CR - MIDDLE-BEACH 2

10 OCT 96 SITE (35)

GPS FILE 330m

Temp. 6°C road

Gradient

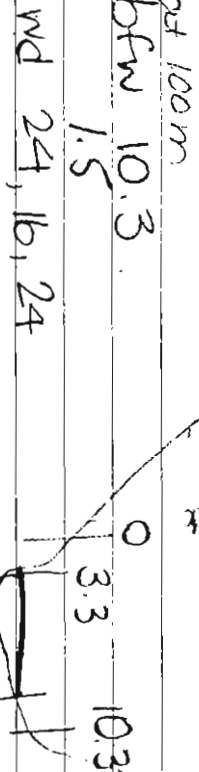
C-60 Tiff's Avenue 25%

W-75m r. 4x/glyce 110%

75-100m Casuarina/Pool 4%

F-10705 15-24

Control Point



CC 20% SS acf

RC 5.1. Scaevola juvenalis

LWD 0

SB 40 bract, 20 db 10 br - 20 gr 10S

BL cut 9 OH and bract w/ moss

Slope is 7 60% + forested

R bract - moss, fern, LP, small

feeder trillite - slaughtering veg OH bfu

at 30m

wd 22, 33, 22

CC 5 SS

RC 10 Sadder

SO 25 bdrck, 15 bd, 30 cb 20gr 10S

LWD 0

BL bdrck w/ sand dep + moss

R slaughting bdrck ab. n/ moss  
+ veg OH of bf w (moss/fern  
herb).

at 20m

Pool at 79  
1m x 1m x 48cm

Pool at 75  
1m x 1m x 63cm

wd 36, 36, 12

CC 5 SS (bfw) 0 WWC

RC 10 Sadder

LWD 70-80 1pc mud incorp into LB  
1m back from WW

SO 30 bdrck, 10 bd, 25 cb 25gr 10S

LB aut (0.1m) w/ 100% OH + veg OH

presently - 30% forested slope  
bdrck to mossy n/ layer forested slope

at 60m

Spawning ground 60m west of  
active outlet of lake

wd 9, 12, 14

CC 5 SS

RC 10 Sadder

SO 5 bd 15 bd 50 cb 20gr 12S

LWD 1pc L3 bdrck OH 20.5m

presently no cover WW

BL SA 80 Cedar

BR SA 80 SOR of pond 15m

at 70m

bfw 12.4

bfw 1m

wd 10, 27, 40

CC 0

RC 10 Sadder (LB)

LWD 0

SO 10 bdrck 5 bd 20 cb 50gr 15S

BL gr/cb slope to 0.15 m y/c

bdrck moss slaughting over  
w. Sadder OH 50% slope forested

R bdrck w/ sand dep moss  
+ herb layer to forested slope

at 50m

wd 5, 14, 19

CC 5% SS

RC 2% fern (RB)

LWD 1 OH + 100mwd 3% bf w cov (0% possibly)

SD 15bd 30cb 40gr 15S

RB SA 60

BL SA 40

at 40m

wd 3, 26, 15

8.9

CC 0 ~~SS~~

RC 2% Sadder, grass, willow

LWD 3pc

1 lg LB - incorp into bank L side  
1 med LB OH w 2m over WW

1 pc lg RB atop RB, no cover

SB 10bd 50cb 30gr 10S

BL OH, cut bank some sloughing, LWD  
R sloughing over of 0.7m cut bank  
appears overweld shore of flp 1m/1

at 30m

wd 16, 19, 19

CC 15% sloughing (LB)

RC 10S cut bank

LWD 5pc - 2 RB 100mwd no bnc - cleared

300 LB parallel to bank  
cover, no mwd 2mwd 100mwd

SB 5bd 50cb 25gr 10S

BL undercut - 0.2m w/ OH m downed

4 sloughing trees (1 up shore)

R 1m undercut sloughing 1 bank K sink

HOLE

at 20m

bfw 11.9

bf d 1.5

wd 25, 21, 13

9.9

CC 5% SS

RC 15 Sadder

LWD some pc set back L side slope mwd 1m

SB 10bd 40cb 30gr 20S

BL gr/s bank to left bank w/ slope OH  
R same as L w/ LWD up slope

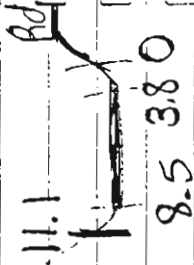
LEVEL

at 10m - 0 m

b/w

bfd 1.5

wd 16, 10, 22



cc 10 SS

kc 5 Sider

Lwb 2pc: 1st straight out from LB 21m b/w

no wmc; 1st 4m RB 3m b/w  
points CS - 0 wmc

So 15bd 40cb 30gr 15S

BL SA2b

BR - oblique - road comes in contact w/  
b/w - prob. old crossing - gravel sloughing  
over

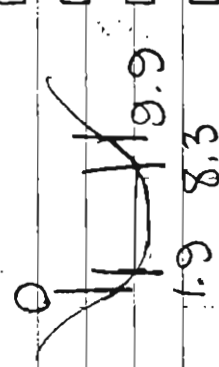
at 0m

b/w 9.9

bfd 2m

ww

wd 17, 37, 17





10 OCT 1990 SITE ~~30~~ REACH 3.  
JIM KELLY CR. LIPPER

GPS FILE at 1116.7 m asplains

Gradient +  $\rightarrow$  5.4 km.

8-50 m 30%

50-100 m 25%

43-50 Cascade + Peel

78-83 Cascade

88-100 r.f.f. Cascade

50-60 ruffe

0-40 r.f.f.

at 100m

wd LC 9, 10 MAIN  
wd RC 21, 23

CC U

RC 15 willow S. cedar

LWP 1 re RB dis whole tree 10% wnc

Sb 50 ca 40 gr 50 S

BL SA 90

LN Stripped wall of clay 15/14  
just above 100m whole tree BB

SS - not known

LEVER

at 90m

Wd Lc 20, 15 main

Wd Rc 18, 17

Wd Rc

CC O S<sub>B</sub>SA 30

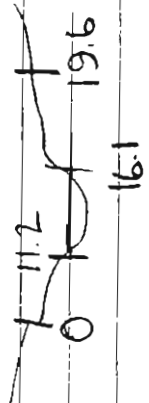
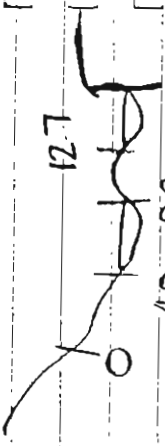
RC 15 willow, S. alder.

LWD | huc 5m long - root nod. on gravel bar L Behind - cover inflow.

BL slope bar to veg - dip

BR w/c 50.5m w/ veg OH

at 70m



CC 20 mature S

RC 10 S. alder willow, grass thicket berry

LWD 2 pc yrm (8m wd) covering root wad (live S.S.) to flow beneath, exc. cover SMC

Sb 10 bd 42 cb 30 gr 20 S

BL cblay 15 pt. bar to veg

R inlet bank (SS root OH)

65 inlet feeder

at 80m

22, 37, 29

CC O

RC 10 w/ wv sadder

LWD yrm btwn 20-30' 5m wv

Sb 15' bd 30 cb 30 gr 20 S

RB/LB SA70

at 60m

of d 3m

Wd 19, 29, 27

9.8 5.1

CC O

RC 5 willow

LWD O

Sb 10 bd, 40 cb 30 gr 20 S

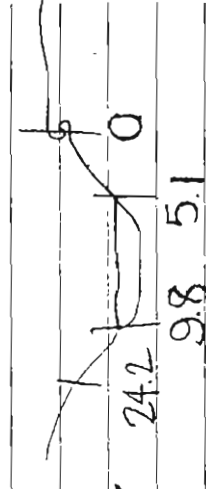
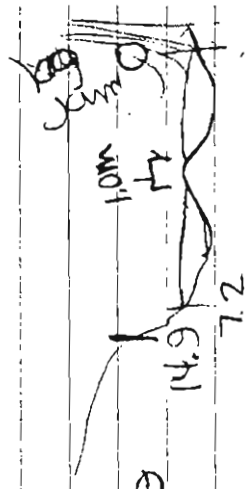
BL cb gr 5 pt bar to veg

Slope

R cobble slope to 0.1m c/c w/

veg OH. v. little rip shrub OH

LEVEL



at 50m



CC 10 SS (sloughing)

RC 10 00110W, S. cedar

LWD see 40m. log pun

Sb ~~at~~ 40cb 40gr 20S

BL ob/gr bar to veg flat fl pl.

R ob/gr bar to veg

at 40m

b/w

WD 43, 53, 55

bfd 3m

Sb 30cb, 40gr 30S

CC 30.1 SS (sloughing) b.5

RC 3.1 S. cedar

LWD > 10 pun at LB atop

bank, 30.1 WWC exc hbl

Pool!

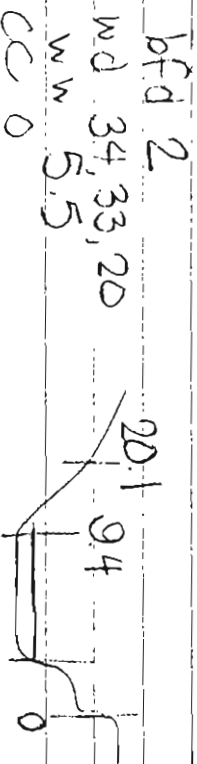
BL gr/cb/s bar slope to veg

R ob to log pun - LWD

OH - cutbank beneath.

Pool 4x3m 63cm

at 30m



bfd 2

WD 34, 33, 20

Ww 5.5

CC 0

RC 10 S. cedar BB/willow

LWD Dec 30 C

Sb 5bd 30cb 40gr 25S

BL slope gr/cb/s bar to willow 8 - 11 sparse S. cedar

R slope ob/gr to 0.1 m w/c bnc w/ willow OH

at 20m

WD 13, 25, 21

Sb 5bd 30cb 40gr 25S

CC 0

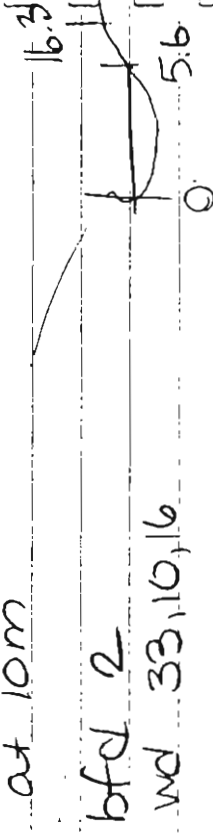
RC 10 S. cedar/willow

LWD 1pc RB-degraded 1% of b/w color unstable

BL slope gr/cb/s bar to willow pt bar.

R ob/gr/s bar slope to veg OH (slight)

at 10m



CC 0

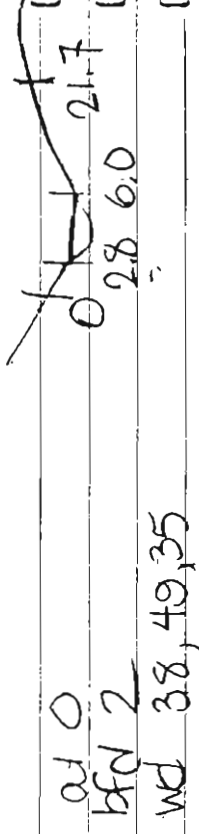
RC 15 (10 nnc) S. alder/willow

LWD 0

Sb 5bd 40cb 30gr 25S

BL undercurrent w/ veg OH

BZ slope 1cb to gr to veg S. alder.



CC 0

RC 5 S. alder

LWD 0

Sb SA 10

BL 0wd w/ veg OH

LWD cover refers to wet width cover unless otherwise spec.

# OLIVINE LOWER REACH 1.

SITE 1 d

OLIVINE CR. REACH 1: 6:20-1:00  $\star T_a = 5.0^{\circ}C$

1100 20-40  $\phi = 5.5$

40-70  $\phi = 3.5$

0-50m (at Reach 1)

frog, itailed, see photo

@ 120m  $T_o = 5.0^{\circ}C$   
@ 100m

gradual recorded for each habitat type.

trap. recorded @ 0m ~~100m~~ &

each sample site (of 100m)

side channel photos 9-14

1 meter

30.5 m x 0 m falls

$G = 3\%$

$T_a = 5.0^{\circ}C$

mouth of olivine creek

@ Mc Talamoen

- 5092319A = lower file

LEVEL

23 Sept 90.

SITE C INNER OLVINE CR

REACH I

CR  
off 20  
off 15  
NW 3  
WC 12  
B.L. N SLO  
S SLO.

REACH II

CR  
off 20  
off 3  
NW 12

SLO 1500 REACH CR 55

END

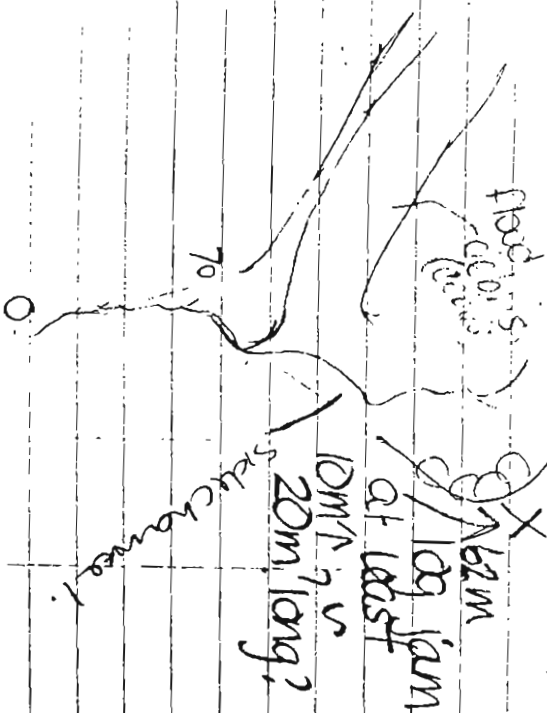
Bank N. corolla slope  
S



REACH 1  
SPECIES ~~WATER FLY~~

NOTE:

Left hand  
\* Change (low) travels along  
(South bank) till 70m 0-70  
then N bank where  
side channel re connects.



at 20m <sup>casade</sup>

max depth 0.75

Wet 21.8 (b+w)

bed 1.8

CC 10% d.f., alder, 2nd

Sub (y) 3 2 S 3 2 3 30 bed 10 gr

W/D (20-30) pc 5m 1.1 1.1

20m - 60 m: RIFLE

cut 2 line 0.5m

at 30m

W/D 2.5 m

max depth: 0.1

channel width: 17.5

CC: 40% alder, d.f., C. wood

Sub (y) 1.2 3 3 30 gr 3 5 5 5 b d

W/D (30-40) 0 RC 20 Alder

Banks: D cut some alder bag

S

- From olive Cr. to trib. water falls, dist = 30, 5m
- From the falls of the trib. u/s to the massive log jam, dist = 62 m.

at 40m.  
 DW 2.1  
 near ap 1.5  
 clear water 17.5  
 wet up 0.11  
 CC 40% CW, X of 35% - Alder  
 Sub: 20CB: GEO S: 20 B: 10%  
 UND 8% cover 5% 1 pc. g  
 Bank: N: 0.11

S: 20% Alder some 41%  
 Veg off, slope flood plain

at 50m photo of  
 UND: B: 1.11.5  
 N: 1.11.5  
 N: 1.11.5

at 50m photo of  
 CC 30 CW water fir 20 Alder  
 Sub: 10 bd 50gc 10S 30Cb  
 UND 50-60: 20% cover alder 1 pc  
 Bank: N Cobble to fip  
 S: under cut w/ veg 4m

LEVEL



@ 60 m

width 23 m  
wet 0.2 m  
LWD 2.1 m



CC: 20% LWD, mark CW of  
SD: 50% 20% 20% 10%  
LWD 1% 5% cover CW  
banks N Cobble sand dep fl. p.  
S. put veg OH willow

60m-100 CASCADING REEF

@ 70 m  
channel 17.5  
wet 0.05



LWD 3.1 m  
CC: 20% power of CW  
SD: 10% 20% 10% 5%  
LWD 3% 20% cover CW  
Bnd N 20% 30% to veg  
S under cut to veg all day

@ 80 - 100 (1m x 1m)

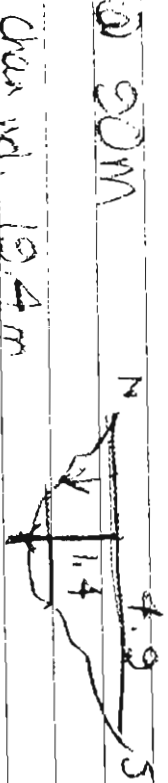
@ 80m of side channel section  
direct pool

channel 1.8m  
LWD: 3.2



CC: 8% CW of 2%  
SD: 20% 5% 10% 20%  
LWD: 0  
Banks N under cut 3 flood zone  
S natural water willow

@ 90m



channel 1.4m  
LWD 0.1  
WLD 3.3  
CC: 40% CW of  
SD: 30% 40% 10% 20%  
LWD: 1% 5% older

Banks N: slope flood plane water  
S cut some border to veg OH

at 100 m

cloud 30 m

ww 3.1 m

chdp 1.3

wdp 0.1

LWD R

cc: 20: CW cedar df.

sb: 40 gk 30 Cb 20 S

Banks N slope wooded

5 steep slope veg

13/15  
dry

1060

max 0-30 m 240



N ① 0/5 S ② 45. O = 300m

SITE 2.

OLIVINE CR - L MIDDLE 23 SEPT '96

REACH 2

0.25m  
step 244

1700 ft.

Om - 100m ESCAPE - 100L 10m.

temp at 10m 5.5°C

4.45

gradient 70%

@ 0m;

bedrock 85m

average dip 1.0m

4.5m 0.09m

2L 25% CN.d.f (MAY 5% RC)

5b 60% ab 20gr 10s, 10 cc

LWD-ID 1pc, 5% - d.f

boulders. N 1m out back of sea wall.

little of - cc bed pla

S 1m out back, sea CH. Mangle

few boulders - clay

slope. All plane of reg cover.

gradient down 7m - 30m: 2.1

LEVEL

10 = 310 m

maple - 1/4



@ 10 m

bankful w. b. 1 m

dp 1.0 m

ww 2.4 m

welp 0.8 m

CC 20-30 20% off/mask, 1/4, alder 20% ec

Sb 10-20 60% gr 20 db, 10 s, 10 bd

LWD 10-20 3 pc (2 sm) 5% cover

crss N beehock 4-5 m, tree

woody debris, unstable, steep  
no flat plane.

1 m cut bank, veg OHL maple.

50% old pla. vegetated.

@ 20 m.

bN 7.5 m

cd 1.4 m

ww 2.90

welp 0.11

CC 20-30 10% alder RC

Sb 20-30 50% bark, 20 db 20 bd 10 gr

LWD 2 pc - 0% cover (over h dry strbs).

bN's N: beehock boulders veg @ 2 m, steep

5 sign 1 m up debris, alder

1 bank 10 m, bank put, hidden by

debris.

@ 30 m (pool)

bwd 11.5

bd 2.4

wd 0.4

ww 3.8

CC 30-40 10% al. CC 0

Sb 30-40 30 brk, 20 db, 20 gr

LWD 30-40 4 pc - 10% cover off.

(2 pc small)

banks N: brk steep veg, woody debris

S steep boulder, steep.

burnt building -

2 m across (cut)

av 40 m

bd 10 13.3

ww 2.8

blcp 3 m

wd 0.1

CC 40-50 20 alder

Sb 40-50 30 brk, 40 bd 20 db 10 gr

LWD 1 pc - 5% cover

banks N: 50% orig woody debris, veg. alder

5: beehock veg cover

woody debris

LEVEL



@ 50 m  
 b.w 9.1  
 w.w 3.4  
 b.d 2.3



w.d 0.1  
 RC 50-60 80% Pb CC 2  
 Sh 50-60 40% 50% 10gr  
 LWD 1 pc 3m - 0% w/w unstable slide  
 bank N. 3 veg bd better side  
 3 bdrack veg-outgoing

if 60m  
 b.f.d 10 6-8  
 w.w 5.8



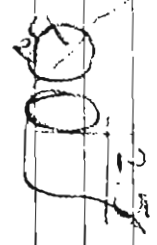
w.d 0.10  
 CL 50-70 10 df  
 Sh 50-70 10gr 50 bd 40 ch  
 LWD 2pc 10% cover  
 Bank N-Slide bd, veg, wood  
 3 bdrack  
 Sh

@ 70m p.c.c  
 w.w 2.7  
 w.d 0.60  
 b.d 7.1m



CC 50-60 80% 20 df - 40  
 Sh 50-60 80 bd 20 bck  
 LWD 1 pc 10% cover  
 ONK N slide - 3m out veg  
 S bdrack  
 RC 5/10 area imp

60m  
 w.w 5.6  
 b.d 6.10  
 w.d 0.40



Sh 2.5%  
 CL 50-70 10% m.p. df cedar  
 Sh 50 20gr 30 ch, 30 bck  
 bank N bd not bd slide, cobble  
 (woody debris)  
 S bdrack  
 LWD 4pc 5% cover

LEVEL



@ 90m

WW 3.4

bw 8.5

wd 0.10

bd 2.3m CC0

BC 70-100 10 maple/alder

SD 70 to bu 20 cb 10 gr

LWD 0

bnk N behind steep

veg of mossy wood

clumps

S broad grassy field

veg brush, clumps

@ 50m

WD 0.1

bw 8.9

bd 2.6

wd 0.20

LN 50 diff

SO 30 bd 30 cb 30 gr 10 S

2 kg bd 3 media

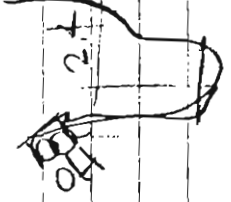
LWD 0

bnk N. rock face

5

"

veg.



7-05-96  
OLIVINE CR (WQ) <sup>Reeds</sup> SITE (34)

Photos 11-17

0-30 4  
30-60 5

60-100 4.5

T = 7. C

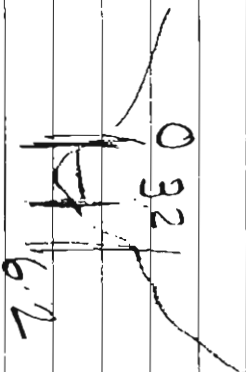
GPS S100762A

456246 5485893

at 100

bcd 2m

wd 20, 8, 10



CC 5 ss

RC 30 sluff S alder

Sb 10bd 40cb 30gr 20S

LWD 5 pc each front no val

> 6 pc sup RB

BL cut in N/ wood S alder OH

R 1 slope gravel to veg

+ hd acm

at 30m

at 2m

NO 10, 3, 19

CC 0

RC 20 S alder

LWD 5 RB dia

So 20 cc 30 cb 40 gr 10S

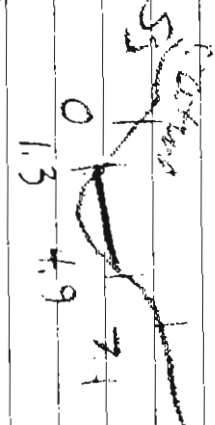
BL 1m cut in cut - 100% +

205180 yag

at 20m

bcd 2m

wd 0, 15, 11



CC 0

RC 10 S alder

LWD 1 LB - day 10 veg

2 RB

Sb 30 bd 20 cb 40 gr 10S

BL 1m cut in cut - 100% +

Living LWD

for 205180 yag by (WJ) 2/1/96

at 70m

6.3

bfd 2

wd 14, 20, 10

CC 0

RC 50 Sadder

LWD 3 med LB on top of bnc

1 large RB atop cut 1m

Sb 10 bnc 30 ch

20 gr LOS

BL 1m cut, wd (5m) OH w/

boulder armour to C/bnk

RR gravel slope point bar OH

at 60m

5.8

bfd 2

wd 8, 15, 13

CC 0 SB 20 bd, 30 ch, 30 gr 20 S

RC 10 Sadder

LWD 2 huge on Rhine 15m dia

3 lg atop LB (0)

LB SA 70

LB SA 70

at 50m

bfd 2m

wd 17, 15, 10

CC 0

RC 10 maple, Sadder

Sb 30 bnd 20 bd 20 ch 20 gr 10 S

LWD 5 pc RB from bnd to

mid stream 2m above LW

BL slope gr to bnd to OH

100% + veg

BR 1/2 gravel on bnd

to veg OH - lg WD atop bank

at 40

CC 2

wd 19, 25, 29

CC 1 SS

RC 10 Sadder

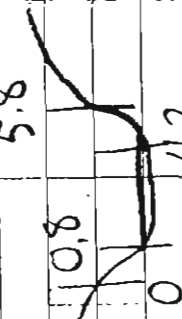
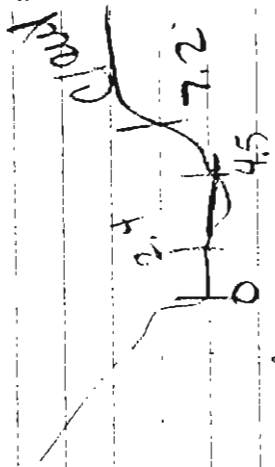
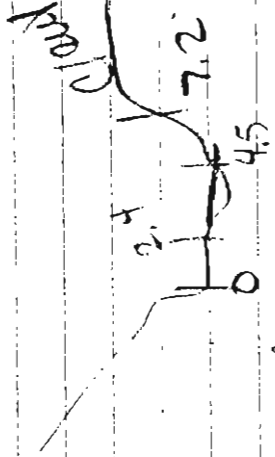
LWD 5 pc OH from each bank

BL bnd w/ veg OH + LWD

BR ch slope to cut

prel 56' x 4 x 2.5

LEVEL





at 30m

hcd 2m

wd 16, 10, 16

CC 0

RC 5 wll

LWD 2 RB 5 / wll

Sh 25 bd, 35 cb 30gr 105

BL 1m cut to veg on (egrum)

R gr pt bar to 1m cut, grass

ad 20

bci 2m

wd 34, 42, 18

CC 0

RC 0

LWD 7 RB high & dry

2 LB

Sh 45 bd, 40 cb 15 gr

BL slope to veg

R above

42cm v 1m x 1m

LWD

at 0m

wd 9, 14, 0

CC 10 Sanguina 73 10, 3

RC 0

LWD 2 RB 10gr 10m 26

SS 3000 2000 40gr 105

BL slope - gr to veg (1m)

gr 2m cut - LWD plot level

at 0m long term at bank

bci 2

wd 22 26 13

CC 0

RC 5 / 3000

Sh 25 bd x 40 gr 20cb 153

LWD 220 grass not barrier

BL jam

RR slope to track

Pool @ 3m h50a 12, 1m 35 cm x 2

Olive Cr - Tributary  
7007-36 upper RCH4

SITE (33)

GPS: truck 657239E 5485700N  
Photos 1-10

@ 0m S100719A 655729, 5485210

T = 6.5°C

General flow is N.

Gradient 0-10 6%

10-30 2%

30-40 6%

40-50 5%

50-60 7%

60-70 5%

70-100 2%

@ 0m  
culvert 91cm

bfw 4.3m

bfd 1.7m

NN 2.0m

16, 25, 15

CC 0

KC 4% willow

SC 25 bd 2000 40 gr 15S

LM 0 (PAC wrap no road on LB)

EL Culvert as LB, no veg

R cut bank - road eroded, PCC

CL

10m

bfw 7.6

bfd 1.6

WW 2.8

WD 15, 8, 10

CCO

RC 25 willow, S. alder

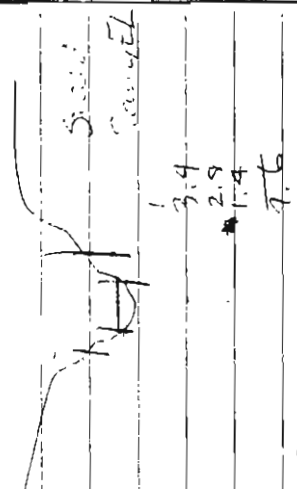
Sh 25 bd 2000 40 gr 15S

WND 0 - am pc. on RB

BL slope cb/gr to road (deactivating)

R slope exposed soil to veg S. alder


3m





bfe 1.6  
 wd 6.16.10  
 3.5  
 0.4

Wed 6/16/10



RC 30.1 S adic' 11/11/19  
sm. can

0 LMD

Sb 20 bd, 10 ch 40 yr 30 S

BL - w/c Ott will. 5. acf. moss halving  
R pt bar gravel to w/c w/veg  
OH nearby E.L.

$$\frac{a-f}{2}$$

6/21/77

~~wd 7, 14, 19~~

CC Ø

RC 80 S. cedar, willow

LWD 1 lg stump on L Bank  
Sh <sup>above</sup> 30 bd, 20 cb 30 gr 20 s

Bl. v. 104 roots & veg. boulder rim  
R. slope to veg. Old

2cm. Square pool w/ 4x walls - 100% cover.  
Slaters 3x 2.5 x 51 cm

at 40m

EC1.7

nd 11, 4, 7

○

100 Stader, William, experience -

Sh 3C direct so bd 10gr 20/5115

$\Gamma_{\text{DC}}(19 - \text{bus}, 0.9, 5 \text{ dec})$

Los 123 slope - top of section, 100' thick  
cut near di. n/5. section, 100' thick

Box 33m : 1.5 x 2 x 33cm 8000

553

35.7

Wed 17, Feb 22

50

2050 Salder

Sh 50 books, 20 ch 10 gr 20 S

Land  $\rightarrow$  10. Land dry on bank

sand der im Bereich

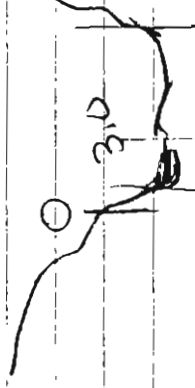
Senkrecht - Auslegung "in der D"

LB Beck and Lindgren

2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 24000 26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000 54000 56000 58000 60000 62000 64000 66000 68000 70000 72000 74000 76000 78000 80000 82000 84000 86000 88000 90000 92000 94000 96000 98000 100000 102000 104000 106000 108000 110000 112000 114000 116000 118000 120000 122000 124000 126000 128000 130000 132000 134000 136000 138000 140000 142000 144000 146000 148000 150000 152000 154000 156000 158000 160000 162000 164000 166000 168000 170000 172000 174000 176000 178000 180000 182000 184000 186000 188000 190000 192000 194000 196000 198000 200000 202000 204000 206000 208000 210000 212000 214000 216000 218000 220000 222000 224000 226000 228000 230000 232000 234000 236000 238000 240000 242000 244000 246000 248000 250000 252000 254000 256000 258000 260000 262000 264000 266000 268000 270000 272000 274000 276000 278000 280000 282000 284000 286000 288000 290000 292000 294000 296000 298000 300000 302000 304000 306000 308000 310000 312000 314000 316000 318000 320000 322000 324000 326000 328000 330000 332000 334000 336000 338000 340000 342000 344000 346000 348000 350000 352000 354000 356000 358000 360000 362000 364000 366000 368000 370000 372000 374000 376000 378000 380000 382000 384000 386000 388000 390000 392000 394000 396000 398000 400000 402000 404000 406000 408000 410000 412000 414000 416000 418000 420000 422000 424000 426000 428000 430000 432000 434000 436000 438000 440000 442000 444000 446000 448000 450000 452000 454000 456000 458000 460000 462000 464000 466000 468000 470000 472000 474000 476000 478000 480000 482000 484000 486000 488000 490000 492000 494000 496000 498000 500000 502000 504000 506000 508000 510000 512000 514000 516000 518000 520000 522000 524000 526000 528000 530000 532000 534000 536000 538000 540000 542000 544000 546000 548000 550000 552000 554000 556000 558000 560000 562000 564000 566000 568000 570000 572000 574000 576000 578000 580000 582000 584000 586000 588000 590000 592000 594000 596000 598000 600000 602000 604000 606000 608000 610000 612000 614000 616000 618000 620000 622000 624000 626000 628000 630000 632000 634000 636000 638000 640000 642000 644000 646000 648000 650000 652000 654000 656000 658000 660000 662000 664000 666000 668000 670000 672000 674000 676000 678000 680000 682000 684000 686000 688000 690000 692000 694000 696000 698000 700000 702000 704000 706000 708000 710000 712000 714000 716000 718000 720000 722000 724000 726000 728000 730000 732000 734000 736000 738000 740000 742000 744000 746000 748000 750000 752000 754000 756000 758000 760000 762000 764000 766000 768000 770000 772000 774000 776000 778000 780000 782000 784000 786000 788000 790000 792000 794000 796000 798000 800000 802000 804000 806000 808000 810000 812000 814000 816000 818000 820000 822000 824000 826000 828000 830000 832000 834000 836000 838000 840000 842000 844000 846000 848000 850000 852000 854000 856000 858000 860000 862000 864000 866000 868000 870000 872000 874000 876000 878000 880000 882000 884000 886000 888000 890000 892000 894000 896000 898000 900000 902000 904000 906000 908000 910000 912000 914000 916000 918000 920000 922000 924000 926000 928000 930000 932000 934000 936000 938000 940000 942000 944000 946000 948000 950000 952000 954000 956000 958000 960000 962000 964000 966000 968000 970000 972000 974000 976000 978000 980000 982000 984000 986000 988000 990000 992000 994000 996000 998000 1000000 1002000 1004000 1006000 1008000 1010000 1012000 1014000 1016000 1018000 1020000 1022000 1024000 1026000 1028000 1030000 1032000 1034000 1036000 1038000 1040000 1042000 1044000 1046000 1048000 1050000 1052000 1054000 1056000 1058000 1060000 1062000 1064000 1066000 1068000 1070000 1072000 1074000 1076000 1078000 1080000 1082000 1084000 1086000 1088000 1090000 1092000 1094000 1096000 1098000 1100000 1102000 1104000 1106000 1108000 1110000 1112000 1114000 1116000 1118000 1120000 1122000 1124000 1126000 1128000 1130000 1132000 1134000 1136000 1138000 1140000 1142000 1144000 1146000 1148000 1150000 1152000 1154000 1156000 1158000 1160000 116200

at 60 m

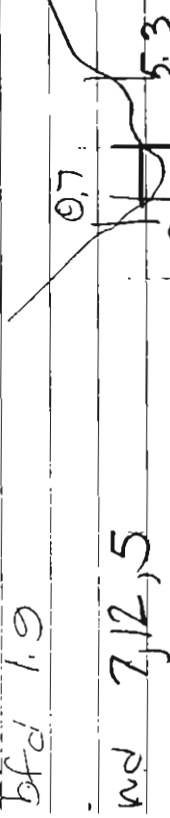
bfd 1.8  
wd 5, 10, 8



CC 0  
RC 20 Solder willow  
Sb 20 bd, 30 cb, 30 gr 20 S  
LWD 3 LB high dry 1 mid chan. gravel  
BL 1m cut w/ root & veg OH  
BR 0.7m cut w/ veg OH & bd channel  
Pool @ 54 m 1 x 1 39 cm  
Pool @ 55 m 1 x 1 28 cm

at 40 m

bfd 1.9

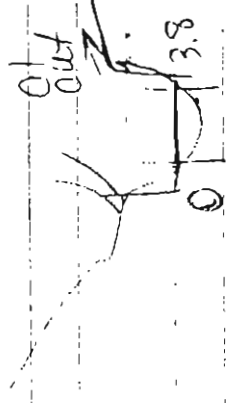


wd 7, 12, 5  
CC 0  
RC 30% s. alder / willow  
LWD 2 large cut LB burnt  
| BB atop bdr  
Sb 25 bd 30 cb 25 gr 20 S  
BL cut 1m S alder OH Slope road 30%  
BR c/b sloping slope to cut 30%

at 80

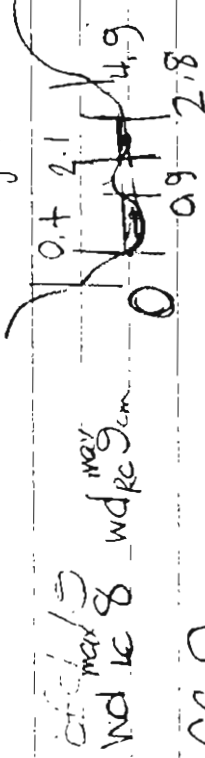
bfd 1.3

wd 21, 16, 10



CC 0  
RC 70 Solder  
Sb 20 bd, 20 cb, 30 gr 10 S  
LWD 0  
BL cb, gr bank slope, veg atop  
R 0.6m up w/ ablg slope (1m w/ 13)  
at 90 m

gt 30 m



wd 16 8 w/ RC 9 m

CC 0

RC 70 willow / solder  
Sb 40 bd, 20 cb 40 gr 10 S  
LWD 5 med atop R bank  
BL 1.5m cut w/ root OH (4m) Slope  
bd, 20 cb w/ veg OH  
R slope bd alder w/ clip OH  
x gravel b/w mid channel

at 100 m

100g JAM. 3m ↓

hfc 2.0

wd 13 cm

wn 0.3m

CC 0

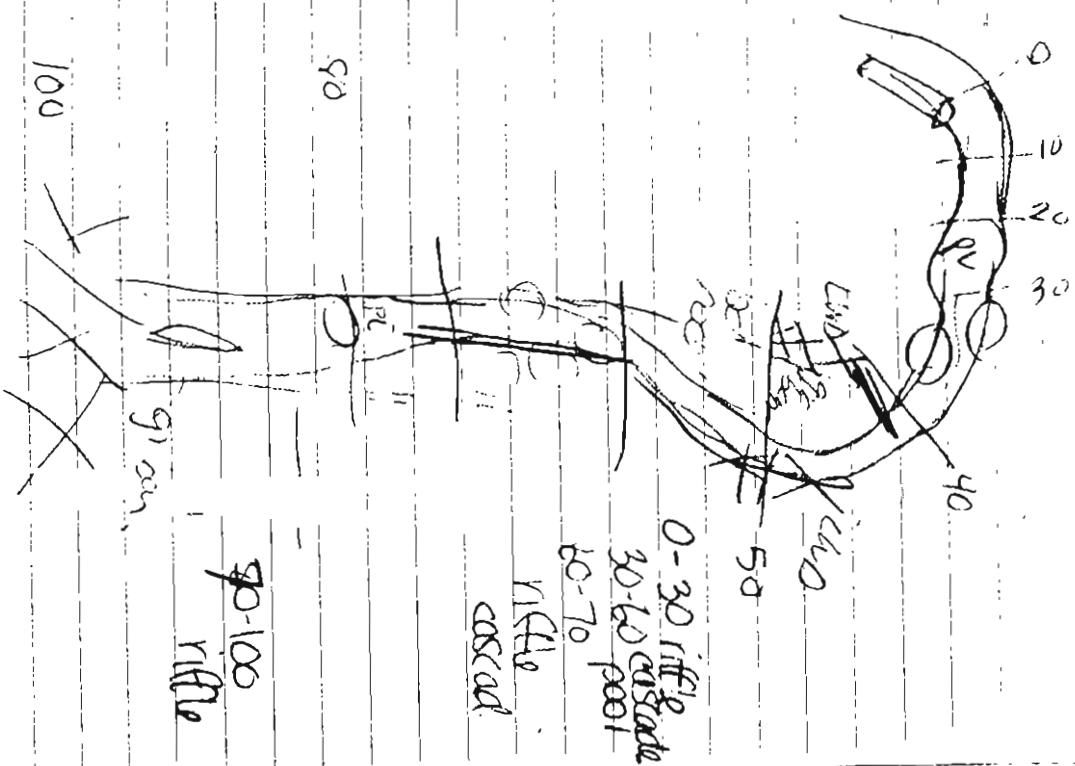
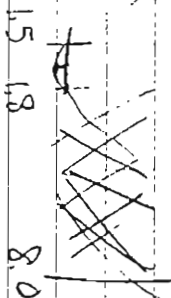
RC 80% willow Salder

Sh 50 betrock 100h 10gr 30S

LWD > 20 log jam not barrier

BL block = w/ exposed soil not CH

R slope



SITE: (3)  
OTHER CR LONEST. BELOW OTHER CR 9-OCT-98  
GPS FILE S1010000 662643 S1010000 5490132N 1662530 5490146  
Both teams sloping cobbles  
to slope veg a fl. pl.

PHOTOS 15+16

- brown/green over  
stones in bed.

- all glide, very

straight, no

complexing (below)

LWD inst. beam NO

rip cover - NO CC all sup same

T° = 12°C

[ (Gutale site) =

Bfd - 2 m.

[ at 100 m

[ BFN 10.1

[ WW 8.3 m

[ WD 34, 44, 49

[ CC 0

[ RC 0

[ Sh 50 to 40 gr 10S

[ LWD 0

[ BL cobbles slope W df(1), CW (1-juv)

[ S cedar, d.w. & grass, slope bld

[ R slope ~ 10% grass to fl-road.

LEVEL

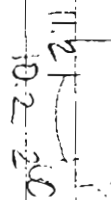
at 20m

cfw 11.2

cfw 2m

ww 8.2

wd 44, 49, 46



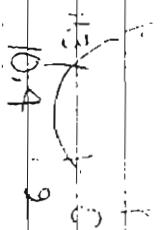
at 30m

cfw 11.3

cfw

ww

wd 43, 37, 36



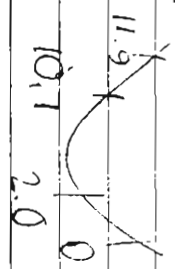
at 70m

cfw

cfw

ww

wd 35, 25, 9



at 60m

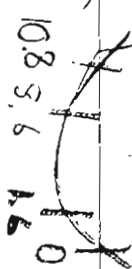
cfw 10.8

cfw

ww

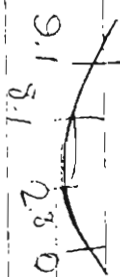
wd 29, 32, 19

wd 2 person 1 bank above  
veg larger - no cover



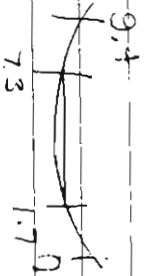
at 50m

wd 25, 25, 17



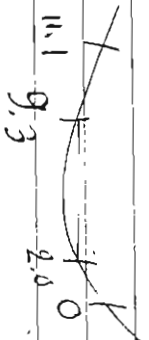
at 40m

wd 24, 38, 33



at 30

wd 32, 39, 23



at 20m

wd 32, 85, 62



at 10 m

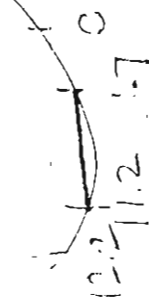
not 10.1 + 1.7 = 11.8

LINE 3.30 above 1000 90.5 x 100



at 0

10.1 + 1.7 = 11.8



Small reading below dipole  
on - at 3.30



**SECRET**

乙未年

51010800

66 0059E, 55 0075 9N

780

W algal growth long that strings

Photos

#5 downstream from 0 m (site)

#6 On looking u/s. (5th letter from read)

#7 4/5 from 100 m - bridge

2/5 from  
w/

Agile Cucumber - | -cs: idq o||o cccccc  
bed .duy

0-40 rifle 2% slope

40-100: glik 0% slope.

first

#10 Evidence at BV (old)

Stream runs along roadside here

almost in a ditch like fashion.

Very close (54 m min. distance)

- In some areas V. deep > 50 ft w

very little flow - channel is confined

here by what appears to be

placed gravel (graced) definite

poor spawning

LEVEL

# Common merganser

at 0m.  
 bfw 11.7m  
 bfd 2m  
 WW 9.5m  
 WD 14/13/15.  
 CC 40% CW mature  
 RC 0 WWC 8m willow shrubs further  
 up bank  
 Sb 1 bd, 50 db 40 gr 9.5  
 LWD 1 pc. OWWC, 6m long on bank.  
 BL: 4 vert 4m horiz: cb, gr, fines-  
 soil w/ various tiny sprouts of veg.  
 1 lg CW (w/ BV evidence - photo)  
 @ 0m LBank, 3 other LN with same  
 between 0m + 10m - still standing.  
 R > 60% slope to Rd horiz. dist. from  
 ww to road is ~ 3m. few rooted  
 veg on bank no OH; grass.  
 Raz. dogwood, Thistle rosaceae.

at 10m.  
 bfw 13.2m  
 bfd 2m  
 WW 9.5m  
 WD 5, 21, 27  
 CC 50  
 RC 0 grassy area 6.4  
 SC 40 db 50 gr 10S/Sit.  
 LWD 1 pc see 0m (same lg)  
 high & dry at butt end.  
 BL sloping to faunae (faunae seeds)  
 45% veg. w/ tiny sprouts  
 tremb. aspen  
 R slightly cut, sloping to  
 slope (1st Sity) grass to  
 creek mud th (bed dry at R bank)

LEVEL



at 20m.

bfd 1.5m

bfw 12.4m

wn 8.1m

wd 18, 23, 29

cc 40% CW

RC 0

Sb 40cb 40gr 20 sand/silt

LWD 1 pc med sup high on bank

no value - unstable. 0 oowc.

BL 45% slope to farm fld, Roadw

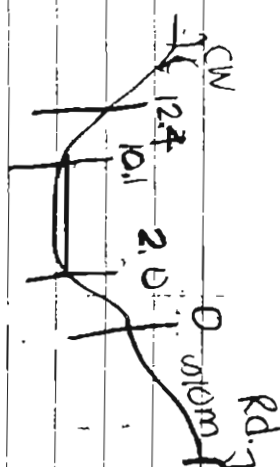
& young eu atop bank but

too high to provide cover, Mature

CW - 4 here 10m-20m.

R Slightly cut - silty - sloughing,

grass & snowberry.



at 30m

bfd 1.5m

bfw 12.7m

wn 8.6

wd 15, 14, 18

cc 5 CW

RC 0

LWD 0

Sb 25 cb, 40 gr 35 silt/sand

BL fld plane @ 3m (fair) down

Sloughing from trees (eu) to low

no veg - banks appear built up

mechanically.

R slope vegetated ~ 35% to road,

grass, Red agave d.w.

- some rounded cb on bank

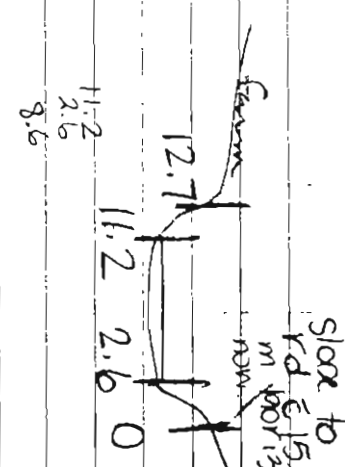
~ 5m back from rd.

Flood zone (from old channel

[See overview diagram] up this

bank [outside of bend] & then

along roadside.



grass in  
bar

at 40 m

bfn 12.8

bfd 1.5 m

WN 10.0

WD 26, 8, 12

CC 2% CW

RC 10% WNC - R.03. CW + grass.

SB 60 gr 20 ch 20 s & silts.

LWD 0

BL Slope ~40% to farmers field

veg w/ small shrub, grass.

R. cut bank - sloughing, grass veg

within WW plus upbank.

R.03. CW & CW, tumbled open.

\* Grass is in WW seems that

flow has not been present long

enough to allow for effects

(successional Δ's) of new flow.

at 80 m

bfn 12.8

bfd 2.0

WN 10.1

WD 19, 16, 34

CC 0

RC 10% WNC

SB 60 gr 20 ch 20 s & silts

LWD 0

BL see 40 m.

R. Slope 20% to road, veg. from

inside WW to road w/ grasses

+ shrub.

thistle.

at 120 m

bfn 12.8

bfd 2.0

WN 10.1

WD 19, 16, 34

CC 0

RC 10% WNC

SB 60 gr 20 ch 20 s & silts

LWD 0

BL see 40 m.

R. Slope 20% to road, veg. from

inside WW to road w/ grasses

+ shrub.

thistle.

at 120 m

bfn 12.8

bfd 2.0

WN 10.1

WD 19, 16, 34

CC 0

RC 10% WNC

SB 60 gr 20 ch 20 s & silts

LWD 0

BL see 40 m.

R. Slope 20% to road, veg. from

inside WW to road w/ grasses

+ shrub.

thistle.

LEVEL

at 60m

bfd 13.2

ww 6.8

wd 35, 46, 46

cc 0

rc 10.1 WWC R03 dw

LWD 0



BL old stream bed? it seems to have old channels cut & gravel bars natural, good riparian areas but strangles med strip and in middle

BR same as 50.

Sb 40 cb (natural stream old str. bed)

40gr 20 sand/silt.

\* note: old? Stream channel exists here  
 (between 50+70m-70m wide)

at 70m

bfd 12.1

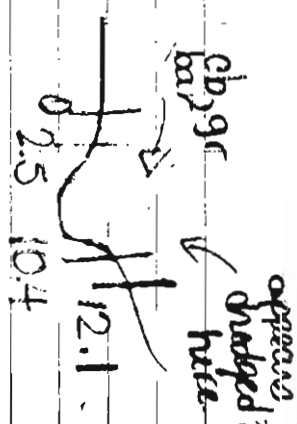
ww 7.9

wd 28, 50, 38

cc 0

rc 2.1 WWC R03 dw

LWD 0



Sb 30 cb 40gr 30 S/S/1+  
 BL old river bed - cb.

R - slope 45% to road level (5m) then to rd (70m) & top side of rd - slide - steep cliff unstable.

@ 80m

bfd

ww

wd 29, 48, 51

cc 0

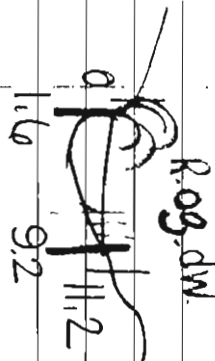
rc 20.1 WWC

Sb 40 cb 30gr 30 S/S/1+

LWD 0

BL cut bank w/ R03 dw OH (appears direct)

R slope 45% w/ grass to road  
 R03 dw & chimney between them





20m

bfw 12.2m

bfd 2 m

wd 16, 13, 73

wn 5.4

CC 0

RC 20 R. 03.dw

Sb 30cb, 40gr 30 s/slt.

LWD 0

BL see 80m

BR " "

200m

bfw

bfd

wn 9, 23, 29

wd

CC 0

RC 20 R. 03.dw

Sb 30cb, 40gr, 30 s/slt

LWD 0

BL } see 80m

BR }

12.2

11.1 4.7

13.1  
4.7

5.4

14.8

13.8 6.4

SITE (26) Other Cr. @ 0.7 km Other Cr. Rd.  
REACH # 3  
PS 8m S1004-19A 661701E, 5510982N  
100m S100421B 4 Oct

Pictures 13-24  
F = 90c

Excerpt for entire site 1.5

is south

Grass in NW - Algae growth (black & green)

black slugs through Nicola Valley

Remains - scatter debris in (hole)

Plants along creek bed.

Jim Kelly Cr @ Bridge (NW)  
GPS

S100823A 647057E,  
5481902N

Wading later Oct 8/96  
from bridge.

LEVEL

at 100m

bfw

bfd 2m

wn

wd 19, 17, 19

CC O

RC 40% willow

Sb 5 cb 70 gr 25 S (some silt in NW)

LWD O

LB willow OH - dead branches (part of shrub) grass in stream

RB gravel bar - some grass tufts on bar (point), gradual slip to pasture - old plane

at 50m

bfw

bfd 1.5

wn

wd 24, 35, 20

CC O

RC 45% willow

Sb 80 gr 20 S

LWD 1 right bank no cover of bfw

BL slightly undercut, willow riparian - some dead branches

R slope gravel bar to pasture - 1 willow no WNC

at 30m

bfw

bfd 1m

wn

wd 16, 12, 24

CC O

RC 10% willow, 5% cedar

LWD O

Sb 75 gr 20 S 5 Suts

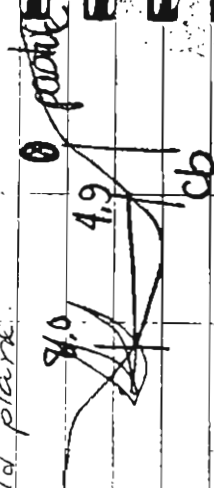
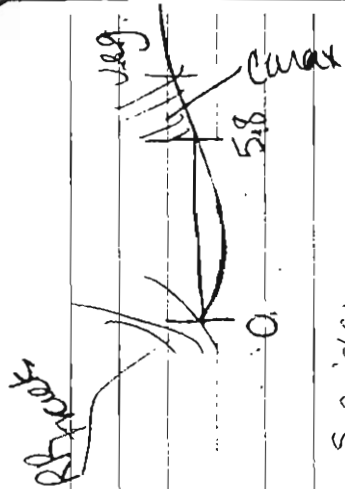
BL cut bank - 0.2m w/ reg willow, grass, willow, 5% cedar, 5% willow appears to rise to old railway tracks

R slope to pasture - 2%

Carex, Sedge

agrostis, thistle

willow



LEVEL



# Red-tailed Hawk

at 70 m

bfr

bfd 1.5

ww

wd 5, 11, 11

cc 0

RC 40 ww, 5 added, grass

Sb 50 gr 40 S 10 Sutsifines

LWD 1, Right bank NO value.

BL slightly cut, grass overgrowth,

willow OH

R. shore to flood plane, 1 pc LWD (fence)

on bank w/ 5m branches tested

LWD and bank of 5 added.

@ 60 m

bfr

bfd 2

ww

wd 10, 9, 11

cc 0

RC 5 willow

Sb 30 gr, 10' cb

LWD 1 pc RB 5' OH - some weeds

stack up - lawn cover

BL SA 70

BR 7 - went to slightly cut slopes

to 3m. pasture

RR

6.8

1.0

at 50 m

bfr

bfd 3m

ww

wd 23, 5, 7

cc 0

RC 5 willow / grass

LWD 0

Sb 70 gr 30 S

BL slightly cut high bank

w/ grass & willow OH.

BR slope to 3m (SA 60)

grass & waters edge - in water.

to 0.5m.

at 40 m

bfr

bfd

ww

wd 11, 18, 22

cc 0

RC 10 willow OH

LWD 0

Sb 70 gr 30 S

BL SA 50

BR SA 50

RR

4.8

0

Foot

fence

4.0

5.0

RR

5.6

grass

positive

willow  
water

at 30m

bfw

bfd 2m

WW

WD 29, 25, 17

CC 0

RC 5 willow

Sb 60 g 40 S

LWD 0

BL SA 50 - 8m willow only

grass immersed

R water to willow branches

± 1.5 m water covering rooted

grass

at 20m

bfw

bfd 2m

WW

WD 35, 26, 26

CC 0

RC 20% (cypress 20% none of shrubs)

LWD 0 (probably die aft after not feeding)

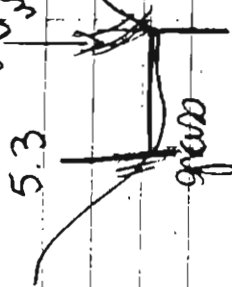
Sb SA 30 (rail support debris) not valuable

BL completely underwater - cut to willow

R - water ± 2 m grass cover (willow flooded)

5.3

points



at 10m

bfw

bfd 2

WW

WD 28, 31, 44

CC 0

RC 5 1/2 willow

Sb 70 cb 30 S

LWD 0

BL SA 50 - few sm bd as riprap

stabilization for bridge

R: slope to structure - grass here

grazed (along bank) little cattle

damage to banks in this area

at 0

bfw

bfd 2

WW

WD 9, 36, 37

CC 0

RC 1 1/2 grass 50 70 cb 30 S

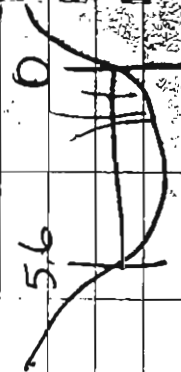
LWD 0

BL bridge supports (LWD) good cover

pooling beneath

R same as left to clear cover, no pooling

5.6



7.6

0

LEVEL



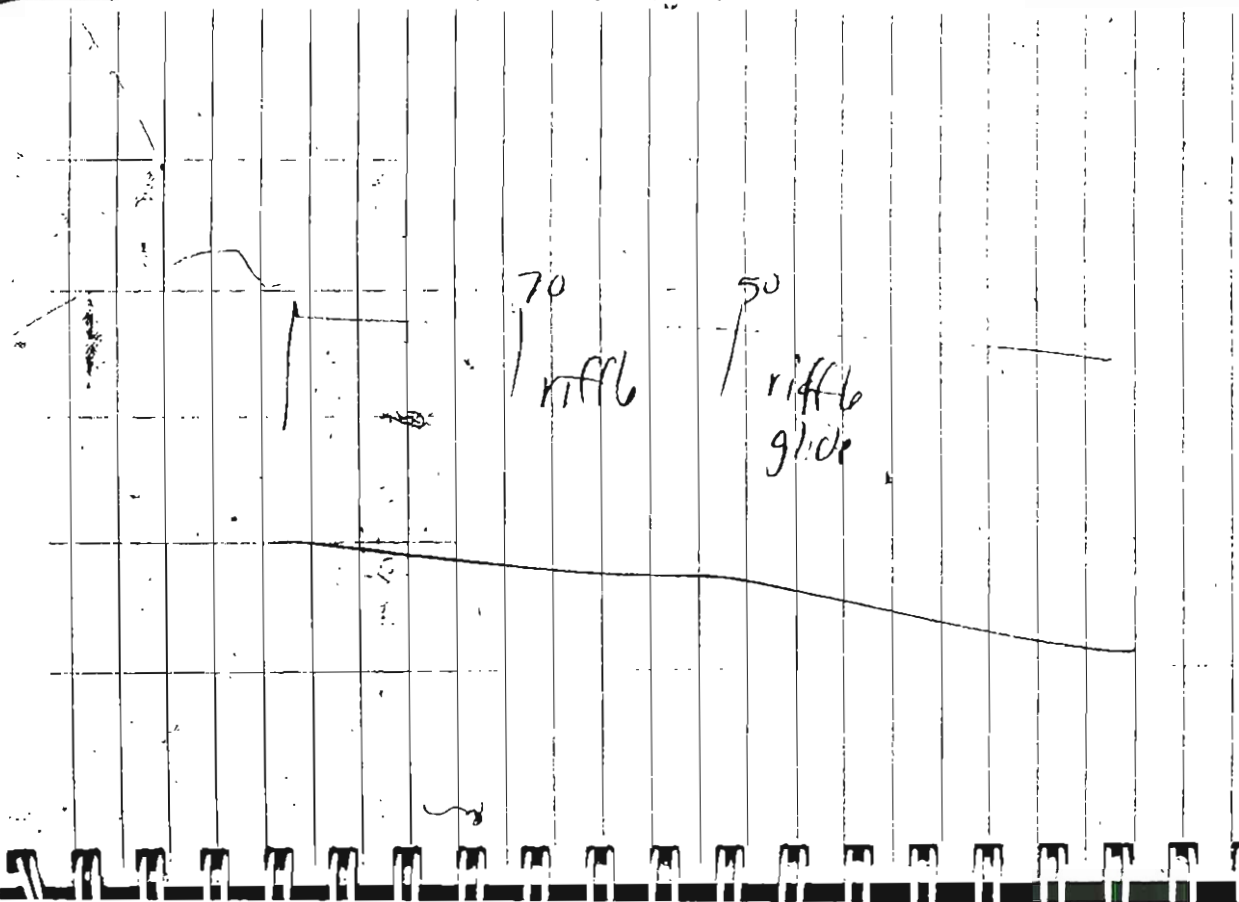
STE (26)

70

riffle

50

riffle  
glide



~~40~~

4 OCT. #4 of cm

4

4 OCT

ES

2100 m.

is:  $\lim_{n \rightarrow \infty} \frac{1}{n} \sum_{i=1}^n x_i = \frac{1}{2}$

... in the ... 6-7 m ...

European - Willow, Salix, Req. riparian

Ein aut. Siegel ist N.N.

algae, moss on rocks

Gradient 1%

7-90

Small pools throughout under  
timber willow + R asides over hang, and  
beard boulders (fallen from slide)

Some complexing between 50 and 70 m

due to boulders, OH, 100 to 200 yds & some

nearby - point, can sit up & see

and Site appears as well as few

$k_m$  vs  $\sigma(\sigma_c)$  to be unstable

as slope of mt

Back fall is opposite - Bd in creek

are rocks fallin from slope (hant)

rather than from U.S. Navy

debris appears to be from on site

(Willow & Razdw. Laughing & S. Alder)

Site appears to have more productive potential than if in foresting level

Forrestal / never of 13 (consolidating etc)

@100m

bfd

bfa

wu

wu 14, 14, 6

CC 0

RC 50 willow twin berry R03dw

LWD 0

Sb red gr. some silts

BL 1m cutbank w/ OH willow

stems - white

shrub to R03dw OH rooted at

2.1m

@ 30m

bfd

bfa

wu

wu 8, 11, 8.

CC 6

RC 40 w/ R03dw

Sb 80gr 205

LWD 0

BL cut w/ grass off - sand dune

80m-80m boulders along bank

slope w/ extensive R03dw OH

some small WD caught in shrubs

Slope 250

Rd

0 2.9

@ 80m

bfd

bfa

wu

wu 15, 12, 17

CC 0

RC 30% willow - R03dw

LWD 0

Sb - patch 30%, 20% (on 20m - 30m)

20gr 30S

BL 5470

BR 5470

2470

bfd

bfa

wu

wu 23, 31, 23

CC 0

RC 30% willow - R03dw

LWD 0

Sb 50bd 30gr 205

BL slide to 2m veg to bd bank

R slope - 2m up w/ OH

u. thick

3.1

39

0

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LEVEL

at 60m

bfw

ofd

wn

wd 27, 32, 40

cc 0

RC 60 willow, S alder

Sb 50 bd, 40g, 10s

LWD 2 pc 5% ewic, (med), 3m waddy debris (branches) on RB

BL 2m veg plane on 1.5m undercut bank - 260% slope unstable rock.

R slope to fl pl. - dry OH

at 50m

bfw

bf d

wn

wd 12, 17, 11

cc 0

RC 40 willow, R, oz, dw, S alder

LWD few small branches etc. back up on OH willow.

BL Rock slide, 3m veg strip to ww, 0.10m undercut bank w/ grass OH.

R slope (sand dep) w/ veg OH

Sb 40 bd, 50gr 10s

at 40m

bfw

bf d

wn

wd 21, 39, 31

cc 0

RC 40 willow R, oz, dw.

Sb 30 bd 50gr 20s

LWD 1 pc (med) on bank 1m OH 5% w/c.

BL rock slide 27m, at base

3m horiz. grass plane

R 2m <sup>slight</sup> bank w/ willow

Roz dw cm

at 30m

bfw

bf d

wn

wd 22, 24, 12

cc 0

RC 80% S alder.

Sb 30 bd, 50gr 20s

LWD 2 pc (med) 1 bank appears to be fallen from S alder base

BL SA 40m - w/ S alder

BR SA 40m

33, 31, 060



0.12 4.4



0.09 3.4



0.9 4.0



LEVEL



at 20m

bfd

bfd 3m

wn

wd 23,36,31

cc 0

rc 40 - R 03dw

st 40 bd 30gr 30s

lwd 0

bl 8m blder joint to gravel

thru the plane 3m to slope.

BR slightly cut joint 2.5m

w/ heavy rip at

at 10m

bfd

bfd

wn

wd 22,32,31

cc 0

rc 30 R 03dw mwn

st 80 bd 10gr 10s

lwd 0

bl SA 20

br SA 20

at 0m

bfd

bfd

wn

wd 43,70,70

cc 0

rc 30 w/ mwn

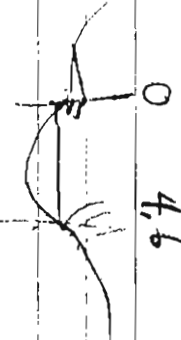
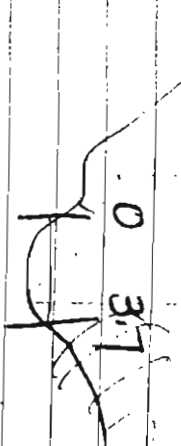
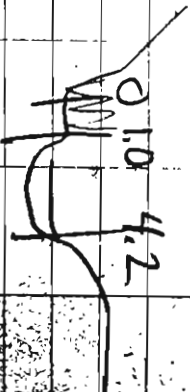
st 70 bd 20gr 10s/5/1+

lwd 0

bl SA 20

br SA 20

BR SA 20 w/ mwn path.







Other Cr Reach \* 5 SITE (23)  
1420 micl

3 October 1996

GPS FILE S100321A 663336, 5516860

taken on road @ culvert 1/5 off rd  
T = 6°C

slightly  
bluish in dark, odorless, creamy  
build up in areas + pool at ~ 10m  
Stagnant w/ scummy layer. Pool from  
0-10m - heavier denuded. RD @ 0.

Mostly algae on water.

Little to (Zero) no evidence of  
- poor logging practices - except road/  
culvert at 100m or reach. Road is  
too close to productive system.

Photos 18-24 up stream (BV) of culvert  
shale on left bank - V unstable  
Photos 1-11 are of site (from 0-100m)

Impacts of agriculture are obvious along  
this reach - water is 70% organic, banks  
have been ↑ disturbed, veg has been  
grazed, water is not too dang pure.

@ 100m - 90m 8.1 Pool - 0  
Road 7.0 0.9

bfn

bfd 1.1

WW 79.56.60

rat  
culvert  
(100m)

3m culvert

WD

Sh 50 cc 30 gr 20 S/Silts  
black w/ dry matter

CC 10.1 55

RC 10.1 willow.

LWD 0, small amt of breaks  
dead upon bank.

BL 5m to road, some veg

grass

BR slope to grass field

Culvert at 4/5 end of  
pool: trucks & cows/bulls  
(boring) travel str

road

Pool 1.5m deep 2m ↔ 10m long.

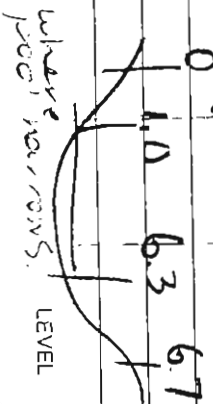
water is very silty murky  
odor (d/s of + agriculture)

bfn 20

bfd 20

WW 20

WD 12, 13, 10





at 80m

bfd 4.4

ww 1.0

wd 28, 15, 17

cc 0

rc 40 willow

lwd 0

sb 40cb, 30gr 30s/s (org)

bl slope to road, horing 8m rip off

br back-cut w/ willow OH

fl plane is grass field flat,

at 70m

bfd 3.6

ww 1.0

wd 17, 25, 28

cc 0

rc 10% willow

lwd 0

sb cb 30 gr 40, splits (org) 30<sup>22</sup>

bl undercut w/ grass OH (willow)

k sloping gravel to sloping grass

to grassy field flood plane.

rd 4.4

bfd 4.3

ww 0.4

wd 28, 15, 17

cc 0

rc 40 willow

lwd 0

sb 40cb, 30gr 30s/s (org)

bl slope to road, horing 8m rip off

br back-cut w/ willow OH

fl plane is grass field flat,

at 70m

bfd 3.6

ww 1.0

wd 17, 25, 28

cc 0

rc 10% willow

lwd 0

sb cb 30 gr 40, splits (org) 30<sup>22</sup>

bl undercut w/ grass OH (willow)

k sloping gravel to sloping grass

to grassy field flood plane.

@ 60m

bfd 3.7

ww 0.8 m

wd 8, 5, 13

cc 0

rc 40 willow

lwd 0, dead branches line banks

(willow branches hanging)

sb 5bd 30cb, 45 gr 20s/s (org)

bl cut bank w/ veg OH

R sloping to slightly cut bank

to fld plane

@ 50

bfd 5.5

ww 0.8 m

wd 21, 27, 29

cc 10% ss

rc 80% willow

lwd 1pc lg (0.2m dia x 6m) w/ 10% wwc

sb 20bd 30cb 30gr 52s/s (org)

bl (straight) vertical cut bank to

road w/ veg OH - willow grass

R slope gravel splits (org); mud to

grassy field; fld plane full of cow

piles, level

road

bfd 3.7

ww 0.8 m

wd 8, 5, 13

cc 0

rc 40 willow

lwd 0, dead branches line banks

(willow branches hanging)

sb 5bd 30cb, 45 gr 20s/s (org)

bl cut bank w/ veg OH

R sloping to slightly cut bank

to fld plane

@ 50

bfd 5.5

ww 0.8 m

wd 21, 27, 29

cc 10% ss

rc 80% willow

lwd 1pc lg (0.2m dia x 6m) w/ 10% wwc

sb 20bd 30cb 30gr 52s/s (org)

bl (straight) vertical cut bank to

road w/ veg OH - willow grass

R slope gravel splits (org); mud to

grassy field; fld plane full of cow

piles, level

@ 40m

bfdw 5.2

bfd 0.9

ww 5.2 4.5

wd 21, 13, 17

CC 0

RC 65% willow

LWD 0

Sh 40 00 30 gr 30 3/4 (gr)

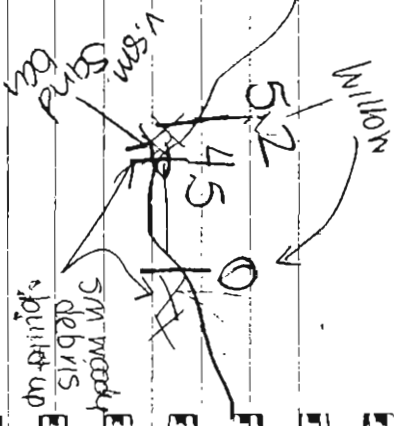
BL Slightly cut w/ wire, OH

some silt deposit along bank (bfdw but not ww)

good willow OH here, weaches across ww)

R slope bank right into field in some areas grass is under water - cattle cross here &

bank is disturbed



30m

bfdw 7.2

bfd 1.8

ww 7.2

wd 60, 59, 51

CC 10 SS

RC 20 willow

LWD 0

Sh 3/4 silt - Org matter - backed up here from BD d/s, sideslides

have settled (bottom in soft & deep)

BL Same as 40m

Rd " " " "

at 20m

bfdw 7.6

bfd 1.8

ww 6.2

wd 85, 98, 80

CC 0

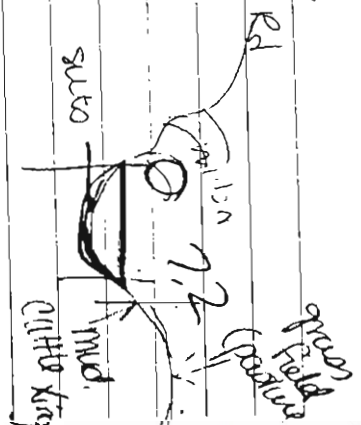
Sh SA 30

RC 10 willow (pond widening here)

LWD 0 - some small willow branches gathered on shore - no sign of

BL sloping to road - 5m w.d.

R " " positive.





(at 10m

bfw 6.3

bfd 1.9

ww 6.3

wd 31, 33, 37

cc 0

RC 20 willow (narrows at 10m but  
either side of 10m is wider  
pool.)

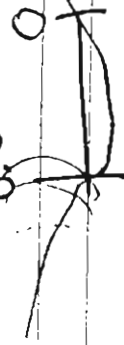
LWD 1 pc on R bank 5% wwc.

Sb 100 S/silt, settled out. ↑ org matter.  
Some gravel beneath S/silt.

BL (tightly) cut bank ↑ riparian  
cover/OH, many dead branches  
Still apart of willow OH. Good cover in  
pool

R slope to pasture - cattle disturbance  
mucky S/silty bank.

6.3



at 0m

bfw 6.8

bfd 1.0

ww 6.8

wd 29, 51, 50

cc 0

RC 20 / willow

LWD 0

Sb 100 S/silt w/ gravel underlying. 5% S/silt  
layer at least 0.1m deep. 25% S/silt

BL slope to Road willow OH  
- trail into cv.

R same as 10m w/ willow busnel  
on bank ~ 2m wide.

LEVEL



Otter Cr. Reach 5, mid

Flow is SN, under culvert &  
along Otter Creek Road side. The  
right bank's flood plane will  
be the most and a grassy pasture  
suitable for grazing hereafter.  
veg is willow, roseaceae and grass, etc.

0-40 pool  $\bar{c}$  40 m x 6 m  
x .7 (ave) m

40-42 riffle  $\sim 2\%$

42-58 pool  $\bar{c}$  16 m x 3.5 m

58-65 riffle 4%

65-70 riffle glide  $< 1\%$  s/p

no broken surface

70-85 riffle at this water  
level -

4% but prob. c/c  
at higher flow

85-90 ~~avocado~~ 6%

90-100 pool, culvert

3 October 96

REACH 6

SITE 22

Officer Cr. Uppev

GPS FILE-S100320A

(100) 671086E, 5526209

- S100320B

(01) 671150E, 5526200

PHOTOS 13-22

Gradient for entire site is 1%

Temp: 6°C

Swamp is mounding but banks  
are extremely uniform with  
respect to morpho & veg sp + cover.  
- Evidence of cattle throughout.

LEVEL

cm

at 5m A 60% slope

confirming on this side

but from end (brown)

to the left.

bfd 1.58

wd 7, 10, 14

cc 0

RC 30% willow

LND 1 pc 10% (med 33) same from

bank to bank  $\approx$  0.5 m above

water surface

Sb 50 35 gr 60 fines (organic material)

BL under cut  $\approx$  0.2 m w/

grass + willow OH.

10m

bfd 4.7

wd 1m

cc 0

RC 30% willow

LND 1. from bank to mid flow deposit

10% of small WD. branches etc. against

BL - same as 0m - at 5m significant

2 same as 0

at 20m

bfd 2.82m

wd 7, 8, 10

cc 0

RC 30% willow

LND 1

Sb 50 35 gr 60 fines (organic material)

BL same

BR same

at 30m

bfd 3.2

wd 24, 28, 30

cc 0

RC 60 willow

LND 1

Sb 50 35 gr 60 fines (organic material)

BL under cut (same)

R under cut (same) at path

for cattle crossing @ 30

LEVEL

at 40 m  
bfw 1.94  
bfd  
ww 1.94  
wd 7, 11, 9  
CC O  
RC 20 willow (small clearing)  
Sb same  
LWD 3 pc med debris + small branches etc backed up, not barrier 15' mwc

@ 60 m  
bfw 1.24  
bfd  
ww 1.24  
wd 12, 14, 12  
CC O  
RC 70  
LWD O  
Sb SAO  
BL SAO  
R

BL path @ 30 m cattle damage otherwise same as 0 m  
BR path @ 39 m - cattle damage otherwise same as 0 m

@ 70 m  
bfw 1.5 m  
bfd  
ww 1.5 m  
wd 10, 12, 7  
CC O  
RC 80 will.

@ 50 m  
bfw 2.22  
bfd  
ww 2.22  
wd 15/14/8 (w-m-e)

LWD O  
Sk 20cb 30 gr 50 fines clayey st  
BL SAO  
R SAO

CC O  
RC 180 will  
Sb same @ 0  
LWD O  
B LTR SAO



@ 80m

bfw 2.0

bfd

wn 2.0

wd 5,5,8

cc 0

RC 20

willow - heavier growth  
thru d/s - ↑ dead OH

branches

Sb SAO

LWD 0

BL + R SAO

~~same~~ to water  
but branches still  
same

@ 90m

bfw 2.9

bfd

wn 2.9

wd 24,15,14

cc 0

RC 50 willow

LWD 0

B L + R same

Sb SAO

@ 100

bfw 2.4

bfd

wn 2.4

wd 13,14,12

cc 0

RC 60% willow

Sb SAO

LWD 0

BL + R Same as 0

\* note at 90 & 100: large deep  
ponds, very still (Slick ~ 0.10m)  
~ 0.50m deep ~ 1.5 m x 1.5 m



REACH 1

SITE 5

26. Sept. 1996

Podunk Cr  
LOWER

GPS

FILE: S0922617A over reach from road

Temp 6°C

flow

Gradient for whole SR 2.5%

Excellent veg. land, unexcavated on both sides. canopy cover. Full riparian cover. Lots of LWD along banks as well as with access. Few sm. fawns. LWD up with grass - grasses etc. Some larks (bare) mid-stream. Lots of standing LWD (tail dead snags, some leaning). LWD in stream have odd wads

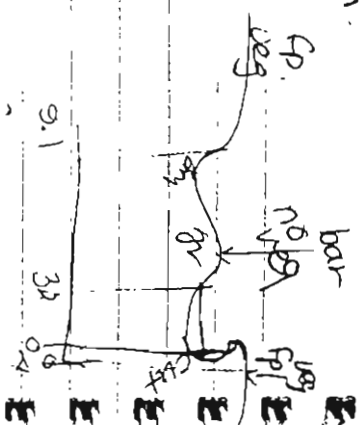
SITE 5 of pond east from 100 m to 40 m then north.

series of pool ruffle w/  
LXC cover LWD + veg

LEVEL

banks L=N, R=South

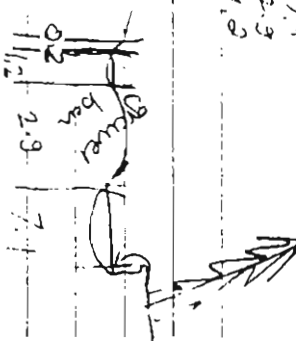
at 100m  
 bfw 9.1m  
 bfo 0.55  
 wdw 2.6  
 wdt 11.2 10  
 RC 25"  
 SD 70 gr 20.5 10 ch  
 LWD 7pc wdc: 20%  
 Banks ~~main~~ sand 1m to veg, sloping  
 to LP + SF forested area.



R of willow  
 SC undercut, sloughing - allowing  
 for LWD deposits + upmain OH  
 equisitum  
 colts ft, willow  
 grasses.  
 mure's tethere  
 itg 9 purple flower  
 Rain main: dense gr. band, no veg  
 Lat SC : " " " "

at 90m

bfw 7.1  
 bfo 0.55  
 wdw 1.0  
 wdc 4.2  
 wdt 5.2  
 wdt tot 0.08  
 wds 0.2 0.52 0.55 ice max  
 RC 10% willow, sloughing  
 SD 80 gr, 20.5  
 LWD 2 pc 10% wdc over  
 OK M under cut w/ willow OH  
 Sand w/ moss layer  
 R SC deep under cut in 0.5 m  
 bank sloughing, moss on roots  
 w/ grass OH - exc. bed.



\* moss channel is  
 higher bank of left channel  
 is volcanic.

at 80m

bfw 9.7

bfd 0.5

win

ws

wwt

wd

wds

wdt

CC 70-80 100% spruce

RC 30% willow (open stand)

SB 40GE 30 40 20 5 10 spruce

LWD, 11 pc (med size) logjam

bkt left channel

< 1% slope, veg, forested

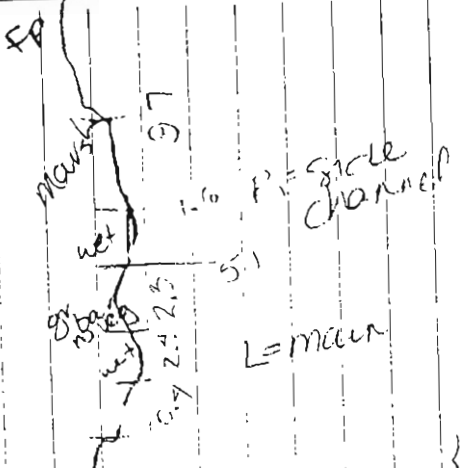
firm, stable

Right channel

highly sloughing over

undercut banks

Island of slope reveg.



LEVEL



at 70 m

well rooted  
+ stable nature

bfd 11.1  
bfd 5  
wum 3.2  
wusc 2.9

wut 0.11, 0.38  
wdm 0.01, 0.01  
wdc 0.03, 0.13  
wdt 0.07, 0.05

wdt

CC 10-70

RC 15%

SD 2000, 60 gr 205

LWD

3 pc, log jam of 5m weedy debris  
jam has caused flow to reverse

main pool: 5m wide & 1 m deep

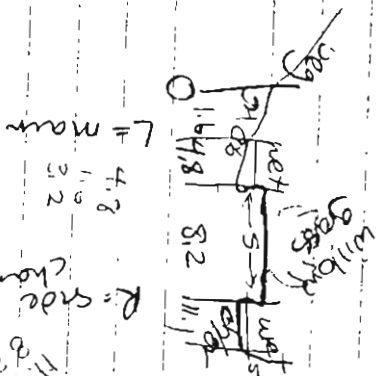
bnt LN slope 2% 41 pl, spr + LP

R of willow riparian OH grass

R of sedge sand grass to veg

R-S undercut sand bank with  
green OH, hard sloughing moss  
and lupinus sp.

ISLAND undercut on both banks w/ grass &  
willow OH - eroding



at 60 m

bfd 0.4

wum

wusc

wut

wdm

wdc

wdt

CC 5-10

RC 80% willow

SD 60 gr 305

LWD

3 pc, log jam of 5m weedy debris

main pool: 5m wide & 1 m deep

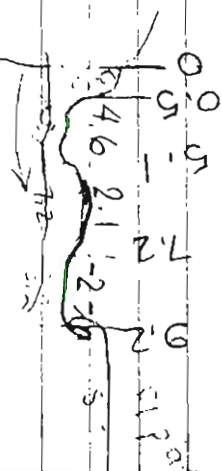
bnt LN slope 2% 41 pl, spr + LP

R of willow riparian OH grass

R of sedge sand grass to veg

R-S undercut sand bank with  
green OH, hard sloughing moss  
and lupinus sp.

ISLAND undercut on both banks w/ grass &  
willow OH - eroding



CC 5-10 (main channel)

RC 80% willow (side channel)

SD 60 gr 305

LWD

3 pc, log jam of 5m weedy debris

main pool: 5m wide & 1 m deep

willow OH, moss & grass

R-S undercut, bank level 50%

has sloughed away some of the  
edges of bank appear rounded  
and mossy photo + 10

snuberry riparian grasses  
slope < 10%

note 5 bank (fl plane) 1 old beaver  
evidence. WD instreams

Not due to beaver, b/c root wicks  
are attached to whole tree

at 50 m

bFW 10.9

bfd 1

WW 3.0

WD 9, 27, 38

100% 30% entire 50 of wetland

RC 20% WWC grasses within snow berm

LWD 4pc 30% WWC

bh N slope veg to cobble/gravel point bar, some new veg on bar SS LP

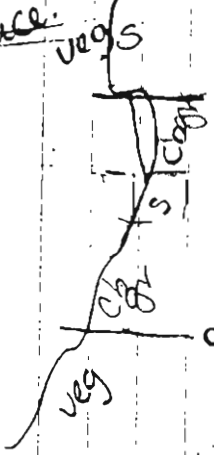
S under cut ~ 1m horiz, bank's sloughing, grass 20 OH, EVC

rip cover mostly sand few sm fines

Sb 50 S, 49 G, 1 Cb,

see 40 m for detailed bar description

service



at 40 m

bFW 11.4

bfd 1.4

WW 2.7

WD 12 32 40

RC 30-40

20% spruce, few snags

RC 30-40 WWC 10% grasses + shrubs

LWD 30-40 12 pc water lilies - jam at 25m

bh L-N (stream now faces N - N bank's actually the west bank (LEFT).

- gradual slope, point bar, sand to cobble to veg on sand/cobble then flood plain w slope (10% LWD)

embanked in point bar, willow, grasses, Lupinus sp, veg 2 (purple fl.) are growing out onto point bar

10-20% cover of riparian veg on Rb.

R=5, under cut, OH moss + grass, bank sloughing ~ 5-10m logs form part of bank then point into stream at jam, RT small woody debris

FABULOUS fish habitat

LEVEL

11.4

5.7

9.7

LWD

Sp

Ob

S

8.7

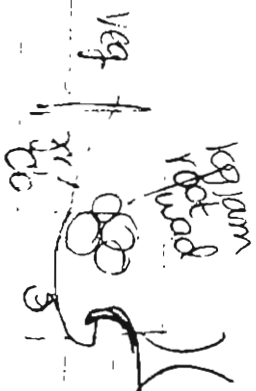
13.8

100



@ 30m

bfcw 8.2  
bfc 0.6  
w 3.2  
wd 25, 19, 8, 13  
cc 30%  
rc 10% willow  
LND 6pc, 50% wuc  
SD 60Gr, 30S, 10Cb  
BNH N slope 41 pl cobbles/gr to  
veg & forested area EP spruce  
5 undercut rootwads snag really  
to fall into stream. mbs OH  
sloughing into stream but  
still allows for fish passage  
beneath

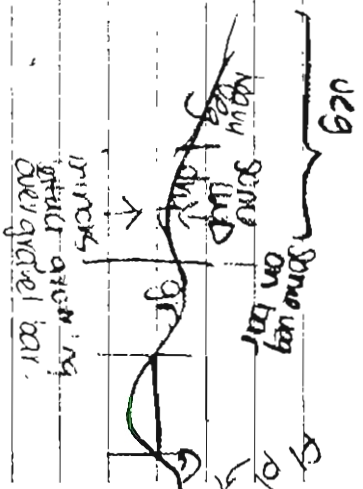


moss  
equisetum

N = L  
S = P

@ 30m

bfcw 6.6  
bfc 0.0  
w 3.1  
wd 25, 19, 8, 13  
cc 30%  
rc 10% willow  
LND 40Gr, 60S, few firs.  
SD 1 pc 2 1/2 wuc



veg 10 ranked loc. 1  
veg 15 round leaves.

bent N. 21 pl 3.3/ slope 1.0m  
to LP + spruce forested area  
high channel w/ SWD, etc  
bent up point bar

3.0 @ 20m to OH rootwads of  
40m spruce, bent undercut  
20m

at 6m point bar gravel +  
sand

at 20m willow OH bent in transition  
between undercut + pt bar  
Channel seems to be forming more vegetated  
100m → 0m

8.9  
4.6  
at 10m/13

trib channel



b/w 8.9m 2% grade

b/d 1.2m

Ww 4.3

Wd 17, 27, 45, 50

CC 5% spruce

BC 20% WWC willow

LWD 0 pc

Sb 70% gravel, 2% Co, 28% S.

Bnk N(1) is the CF of 8m rib. Log ym at mouth & pooling behind (uis), gravel bar at u/s side (footprint)

2-5 gravel sand point bar, veg up slope, willow, grasses & Lupinus sp.

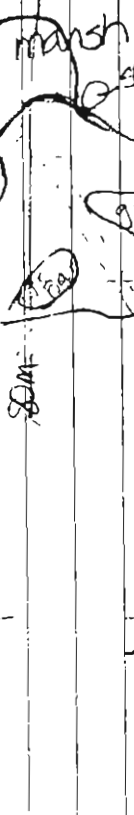
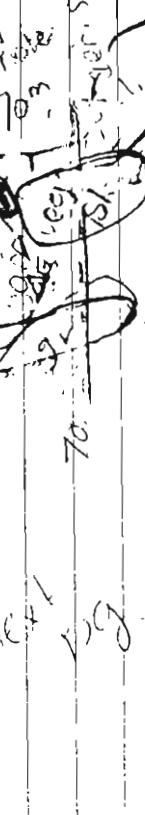
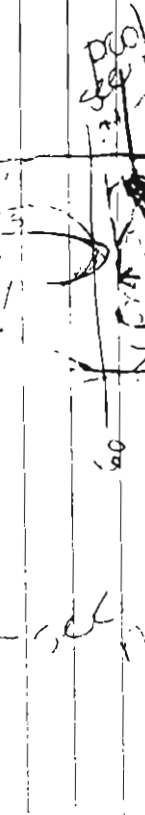
willow, minor s. l. t. u. a. grass

photo 8 in w/s of site

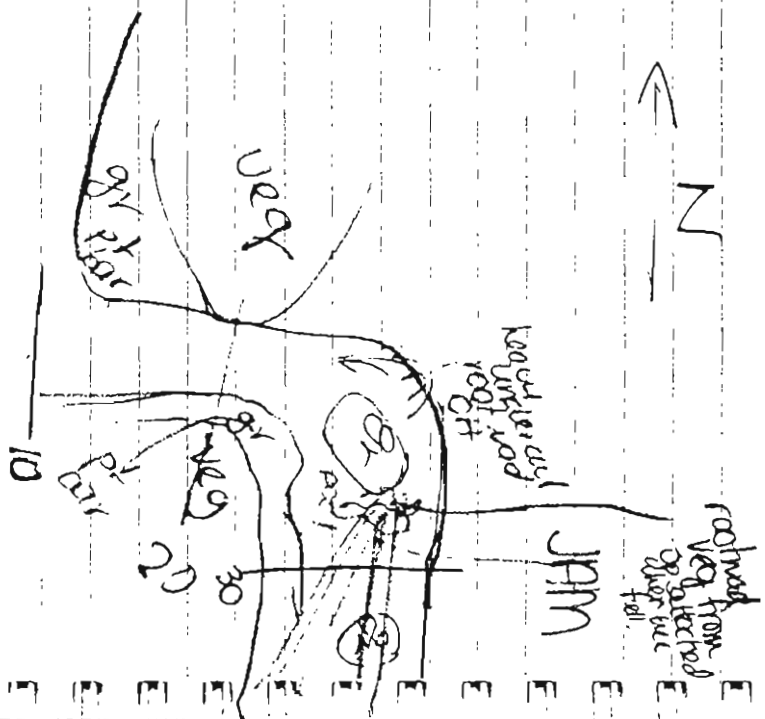
SITE 5 cont.

appears that forms in stream have formed during flood high flows around gorge

LWD, gravel, spruce, willow, LWD, 8m rib, 100m



Hab zones



SITE 5 cont.

Poduncle

at 0 m.

bf w 9.7 m

bf d 0.4 m

w w 5.7

w w 2.5 x 1.6

cc

pc

sc

lnd

bmk

ny

almost

spring

wet.

R=5

50

15%

veg

2.1 m

upbank

lupine

willow

grasses/moss

fruits lettuce

pathfinder

LEVEL



SITE 6  
PODUNK CR. MIDDLE REACH 2.  
GPS FILE 5092622A  
644025E 5467239N  
from ROAD

FLOW NE <sup>about</sup> 100 m.  
TEMP° 8°C photos skat  
at #11  
(2.15 US)  
hab types:

0-70 RfW 1.5%  
70-100 m Cascade pool w/ 4%

L=N

at 100

bfn 4.7

bfd 0.23

WN 4.2

WD 0.31-16

CC 10/10 30% LP of

LC 10% willow <sup>entire</sup> w/ low w/ leaves

Sc 30% bark, 10% qf

LWD O

bck L=N 2m-1 plus moss +

veg on berceol

R=S Curcume moss slanging

OH veg (rip) some gravel (100m)

dep.

LEVEL

at 30m

bfw 5.0m

bfd 0.25

ww 5.0m

wd .03 10.05

CC 100% 50-

RC 15% willow OH

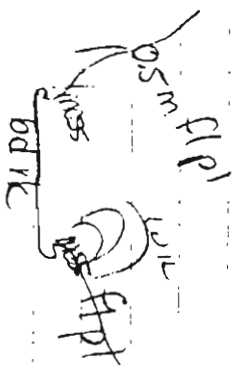
50 bdrock

LWD 0

brk N steep mossy grasses, lands

sloping over - moss to water level

S cutbank + OH ~ 0.2 under owl willow grass OH.



@ 30m

bfc 6.0m

bfd 1.0m

ww

wd .03 10.05 + 1.027

CC 10 4P/SPs

50 25 bare 80% 2gr 5 clac

RC 10 willow

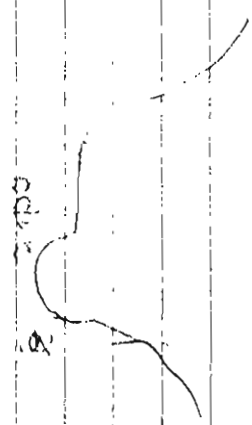
LWD 9

brk N bank 2m tier 45%

inclined grass/moss 4P

S 80% incline mostly mature

willow 4P spr.





-5.4

3.7

@ 70

bfw 5.1

bfd 0.4

ww 3.7

wd 0.06

CC 2% spr

RC 5% mature willow

LWD 1 burned in S bank - no sprigs present

Sb 45% bdrk, 30 gr 20 Cb 5 bld

Bnk N, gravel dep (stream bed)

45% slope, veg, cut bank

w/ little veg OH - dry

S. 0.6 m bank mss. sloughed

over time, makes up entire bank

some but bank ~ 0.20 m

w mature willow OH

SPR

0.9

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

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0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

rd

7

ax 60m

bfw 4.1

bfd 0.25

ww 4.1

wd 0.5

CC 10% LP

RC 5% willow, grass, veg

LWD 0

Sb 40 bdrk 30 Cb, 20 gr 10 bdr

bdrk N 25% slope veg grass mss

LP spr, for mature willow

very mobile

cut bank - 0.2 m high

exc pink hoo (spr) very

littered up w/ mss

slough over bank

S. bdrk bdrk bank w/ mss

cover sloughing over time

algae on rocks against S

U. moist bank

Algae

LEVEL

Pond. w. sex back from stream

50m

bfn 4.7  
bfd 0.5

wu 4.7

ud 0.08 0.03

cc 5% LP, Spr, Pond

RC 5% mature willow grass

Sb 30 bark, 40 db, 20g 10 bla

LND 0

Bnk N boulder bank w/ some

cutaneous, moss & VEG ⑪

OH Slope is ~30% wet mainly

grass mature willow & Spr/Pond/LP

S Steep, moss over boulder some

willow & Spruce growing

on bank Boulder bank

Some complex areas, fair

habitat for small fish

Channel is confined at this point



@ 40

bfn 5.4m

bfd 0.4

wu 5.4m

ud 0.08 0.03

cc 10% Spr/LP

RC 5% mature willow grass VEG 12

Sb 30 bark, 40 db, 20g 10 gr

LND 0 (small pebbles)

Bnk N cutaneous, LND deep

In bank w/ deep growth ~ 0.10" above water level

↑ Riparian willow (mature)

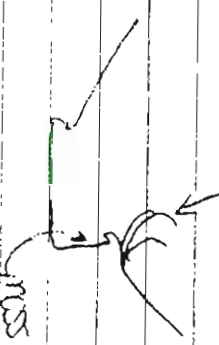
grass equilibrium + VEG ⑪ ⑫

S 1.4m back bank w/

moss growth & willow over

hang some grass & VEG ⑫

\* Riparian willow losing greenery  
prob. practices ↑ cover in Spr/Sum



willow



@30

b/w 4.9m

b/ci 0.5m

ww 4.0

wd 0.23, 0.25, 0.20

cc 0

RC 5m<sup>2</sup> time w/ low grass

ab 30 bdrk 40db 10gr 20db

LND 2pc 60% w/c (both are med wd)

bdrk same as 50m

9" 0°

cc

@20

b/w 5.9m

b/ci 0.35

wd 5.3

cc 0

RC 5m<sup>2</sup> time w/ low

LND 0

SP 50cc, 30gr, 50db, 50db

BRK 1/2 w/ low grass - 1/2 w/ low

9 1/2 w/ low grass - 1/2 w/ low

5m<sup>2</sup> time w/ low grass

grass - LP, SP, 50db, 50db

S. 2nd part w/ 0.2 w/ 0.4 reg

above 1.4 m is flood plain

2m at stepping to road

grass shrubs predom LP, Pond, spr

UEG (13) trifolia?

equus - 1/2 w/ low grass

grasses

LEVEL

@ 10m

3.5

bfn 6.5

bfd 0.55

wu 4.4

wu 0.05

cc 7.0%

RC 15%

SD 40 cb, 30 gr 20 bd 10 sand

LWD 1 pc 8% silver

BNT N/Llect bent with moss

wood overhang, sm woody debris

build up 2 50% slope at 1m

grass, LP Forneosa. Spruce

R=5.00 cobb gravel point bar, w/ grass

mass overhang at 0.2 m

0.25 m high dry

dry

LP spruce

dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

LWD

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

@ 0m

3.6

3.5

bfn 5.4

bfd 0.55

wu 3.8

wu 0.05

cc 7.0%

RC 15%

SD 40 cb, 30 gr 20 bd 10 sand

LWD 1 pc 8% silver

BNT N/Llect bent with moss

wood overhang, sm woody debris

build up 2 50% slope at 1m

grass, LP Forneosa. Spruce

R=5.00 cobb gravel point bar, w/ grass

mass overhang at 0.2 m

0.25 m high dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

dry

LWD

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

SP

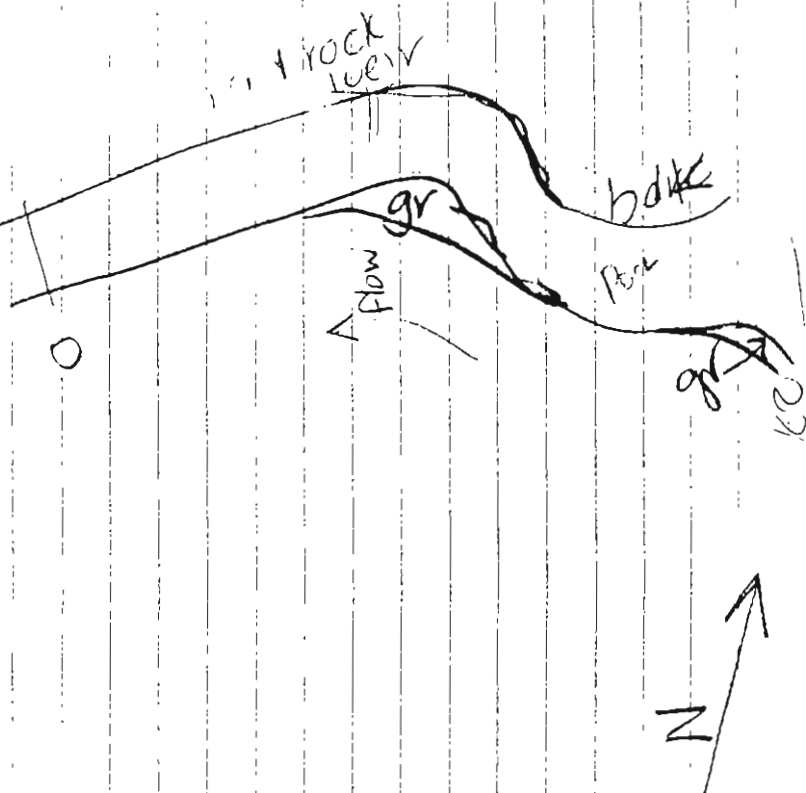
SP

LEVEL

SITE ⑥

MID-PODUNK

0-10 Pool OGR  
10-70 Riffle 2% Gr  
70-100 Cascade Riffle  
Pool 4% Gr





27 Sept 06.

# REACT 3

52 bank +  
d/s facing

STEF ⑦ PODUNKER LPSTREAN

20

1-2

1.5

650 3.2

1. a.

540.0.2

1.4. 1.2.2

17, 18, 19

UC 20-120 C

P.C. 20000 mat. willen

So 10 Co 60 gr 30 S fines

LWD O

Bnh L 10% slope 71 p1

*Quercus lupinus* sp. f.

willow, on spr

R. 2 m bank - Hpl - 3 acres  
willow, few spruce - majority  
of veg here is shrub.

LEVYEL

at 50

bfd 2.2

bfd 0.2

ww 2.2

wd 10.24

cc 0

RC 15 willow

Sb 40Cb 40gr 15S 5fines

LWD 1 pc 5% WWC

RC L. gr/cb sloping bank

10 m to willow flpl

R 1 m bank cut w/

willow rip OH + grass

Sb 54 80

willow flpl

willow flpl

grass

cobble

at 80

bfd 3.6

bfd 0.3

ww 2.6

wd 2.830

cc 3.0

RC 40 / ww

Sb 40Cc 30S, 10A, 2S 20Gr

LWD 0

BRK L 0.2 m undercut bank

w/ willow OH

moss

R slope gr/cb to cut on

cut bank w/ willow / OH

OH dry

willow flpl

note @ 85 m stagnant side channel 5 m. Has been cut off from U/S flow but joins Podunk

LEVEL

0 7.0

bfd 0.25

wlc 1.1

wlc 6.6t

cc 0

Rc 20.1 willow

Sh 60CD 30gr 10 sand

LWD 2P small 2.1, wlc

wlc 2.3

wrc 9,13,15.

Bnk Lc OH veg. undercut

Rc gravel bar

Lrc gravel bar

Rrc undercut OH veg

willow gr ~ 0.3m

LC = Stone

note end of gravel/cb bar.

bar has few willows

fairly mature appears

creek cut ~ bar

0 1.1 4.2 5.5

gr/will

R

cb/gr

0 10

bfd 2.6

wlc 0.25

wlc 2.6

wlc 6,13,11.

Rc 20 wlc will

cc 10.1, spr

Sh 50 bark 30 20 10gr

LWD 0

Bnk L grassy dry to

OH veg moss cut out

will OH

R 1m high bank

moss sticking, bounce

plane w/ willow

grass

1 @ 50

bfw 3.1

bfd 0.25

ww 3.1

wd 10, 11, 8, 10

cc 5% spr

RC 15% willow + spr (juv)

Sb 50 bdrk. 20 cb 20 gr 10 S

LWD 0

bnk L: fl pl willow + spr juv.

grass, 0.4 m bank

cut, moss sloughing / rounded

R 1 m bank moss sl / rounded

w / willow OH



at 40

bfw 3.4

bfd 11, 17, 14

ww 3.4

wd 0.45

RC 10 willow

cc 5% spr

Sb 50 bdrk 20 cb 20 gr 10 S

LWD 0

bnk L flood plain w / willow moss

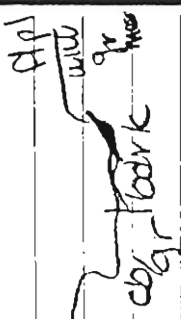
grass + a w spruce

bank is 0.5 m cut w /

moss sloughing + grass OH

R banded bdrk w / cb dep.

Some sand 1.5 m to fl pl.



40 m is end of pool



at 30

bfdw 5.3

bfd 0.4

wu 3.3

wd 28, 27, 22

RC 20-30/10 SPR

RC 15% willow

SB 50 bare 20 gr 20 S 10 Cb

LND 0 (1 pc on bank - no use)

Bank L slope gravel point bar no

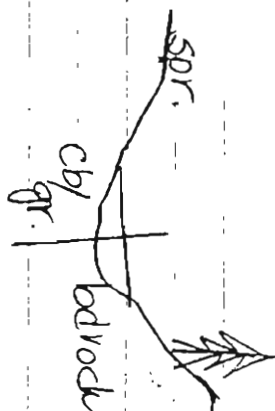
veg for 1.5 m then SPR

grass, moss - fl pl

R: direct steep slope w/ moss

growth / grass on (few)

algae



at 20

bfdw 4.0

bfd 0.2

wu 4.0

wd 9, 8, 17

RC 20% willow

CC 0

SB 20 Cb 60 gr 20 S

LND 0

Bank L fl pl at 0.5m

bank is cut w/ moss sticks

grass + willow (sprung) OH

R: sloping gr to rd

@ 15m L: bank bare w/ 4m

wide to road.

evidence of anthropic

R: same as left

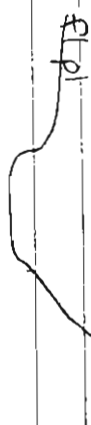
appears to be an old

road sloping to present

road (possibly where

stream was crossed in past

at bridge?)





45.4  
2.6  
2.8

at 10

bfw 5.4

bfd 0.25

ww 2.8

wd 2.8, 15

cc 0

RC 20% wmc willow grasses

sb 40 brack 20 cb 30 gr 10 S

LWD 0

brk L under cut w/ grass + moss  
sloughing willow OH

R sloping gr/cb/s to old  
road veg w/ lupinus grass  
willow peanly everlasting +  
equisetum

@ 5 m some spr juv or  
both banks

equisetum peanly everlasting



at 0 3.5  
1.6

bfw 3.1

bfd 0.25

ww 1.6

wd 1.5, 1.7

cc 0

RC 20% will gr

SO 40 cb 40 gr 20 S

LWD 0

Brk L 3m high armoured  
boulder bank w/ veg  
at bwer 2m grass  
willow

R 3H boulder sloping to  
road w/ grass veg from  
road to 5m from stream  
armoured stream bank!!

Under bridge:

R side is confined by logs  
roaking up structure flow  
is on R side - L is dry

new rd. bridge



LEVEL



Nov 6 (Wed) 1986  
Spearwing Lower

Row file R11C613 A

GPS

600627.0

5519+35.0

@ 30m N of (40m)

1 22 SCALE 444, 6006178 135

LEVEL



# Spawning Creek.

0-60 straight little  
 from bridge downstream  
 at 60m wide channel + make  
 wide bend to head S (slightly  
 west). Side channel makes  
 wider bend and rejoining  
 main channel @ ~ 30m (4km)  
 with 0m). big island weerts  
 after bend. grazing steepens  
 channel (main) is more  
 confined, bld is deeper. Banks  
 become cut rather than  
 sloping with flood plane  
 @ ~ 1.5m. In higher  
 flows reaches length as  
 cable is small - no boulders.  
 Before side channel, re-enters  
 main channel, 2 pools  
 (0.6m depth). Old root  
 weeds OH (live) then a  
 subsurface channels carries  
 flow to main channel ~ 30m)  
 At the time of sampling, the  
 pool was covered with ice 5  
 1 cm thick.

@ 100

bfw

1.3

2fo

2w

4.3

2w

5cm

CC

20 cm

RC

0

SC

20 cm

1w

0

EL

2.5

RE

gravel

same

100m north of

Site is 15 m-21s of bridge, banks  
 are eroded here in CW nature at  
 top. little veg along bank.

@ 20

W

b/c 5 m

b/c 11.8 m

WW 5.5 m

wd 6.5, 16, 16.5

2C 40 CN, few poplar

RC 5.1

Sb SA 100

LWD 0

BL slope to field w/ Row (c310)

CW

some LWD stop bank from

flood

BL slope to Kosada, Rozdln,

CW,



at 80

b/c 10 m

WW 8.1

b/c 1.3

wd 15, 25, 11

CC 40: CW / poplar RC 5

Sb 70 gr, 20.3 1000

Cb ave 8 gr 15-20 cm

LWD 0 instream

BL SA 90

BR SA 90

at 70 m

b/c 1.0

2.5 bfw

6.7 WW

wd 12, 13, 17

CC 30 CW, poplar RC 10 willow

Sb 55 gr 40.5 5 cb 10-20

LWD 0

BL SA 90

BR 11



at 60m

bfd 12m

bfd 0.9

wu 7.8

wc 6.2, 12, 13

cc 80% cu,

Sb 60gr 40 s aut 3cm

LWD 0 (few things in

wu)

RC R 03 div 10-15%

BL store w/ rosaceae, thorn

berry, EW at waters edge

poplar to flood plane (sp)

road level

BR same as left but Plane

is forested w/ cu, (Hink)

o Shrub - rosaceae

x

x

x

x

x

x

x

x

x

at 50m

wu 8m

bfd 14.3

bfd 0.8m

bd 5, 9.5, 10

cc 40 cu, df, poplar

LWD 0

Sb 60gr 40 s

gr @ 4-5cm

RC 10 Rosdw gran

BL v. steep slope (1m horiz

+ 1m vert) w/ rosaceae

+ few cu to flood plane

- field

BR SA 60

x

x

x

x

x

x

x

x

x

x

x

@ 40m

bfw 14.0

ww 9.2

dfd 0.6

wd 8cm, 8cm 8.5

cc 60% CW, poplar

rc 10% rosaceae, Rozoin

gran

BL slighter undercut section

LWD (med size) embedded

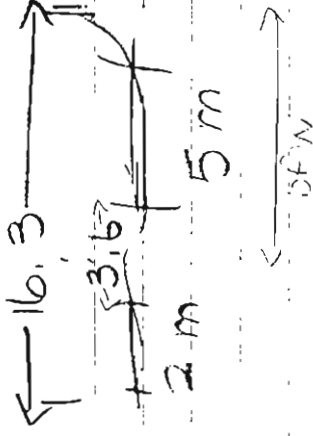
into bank ~ 20cm

high small po

BR SA 30

LWD

Sb 10cb 6Dgr 30S



30cm

cfw 0.5

dfw 0.5

wd 8.5

cc 60% CW, 13.12

rc 10% rosaceae, 4.3.5

gran

BL 20% CW, poplar

LWD 10% R

Sb 20/cb (25cm ave)

5 bd (0.5m)

60gr

15S

LWD 20 LB of side channel

between 30+40m, out of

water but maybe driven

in + flows

BC slope to fl. plane

BR 3H 40

\* channel beats here

beg of 5c. (15' and 1/2 veg

12/cw) margin channel

to R. at 1st.



at 0

bd 1.5

bs 7.5

wa 4.0

ad 19, 23, 15

cc 25% CW (1 native / 2 imm)

RC 0 Reg CW, 1-2 CW

Sb 3000 15-20 cm

50 gr

20 gr

LWD

0 from LB)

under CW w/ some

weary OH

deep 50% little

ing to FP.

RS

Side channel runs

Subsurface ~ 25 m to

main weed - @ ~ 30 m

foal 0.6 m

Side channel

Water 0-40 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

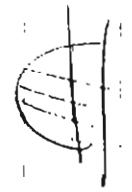
Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB

Water 0-20 cm LB





0m  
Back (cl)  
gravel

Slightly ↑  
than a/dt

50m

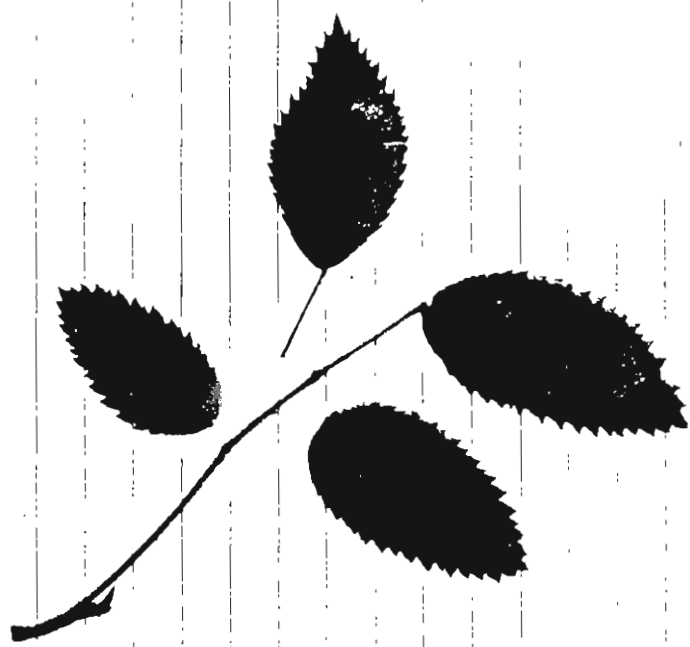
monobony

gradient  
0-60 0.6%  
40-100 2.5%

Coarse  
gravel

1-2.5m  
diameter  
5-6cm

0m  
DND  
10-15  
sand  
under  
ground



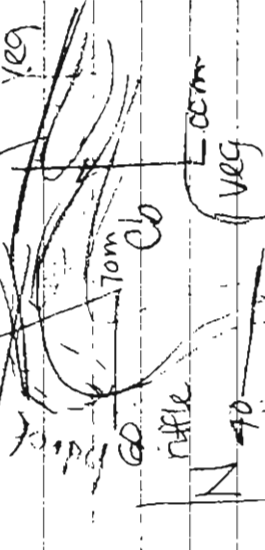


# REACH 1.

C. W. L. C. R.  
9 OCT 36

lower pool

cd (high water)



0-20 riffle

20-40 glide

40-60 riffle

60-69 pool

69-100 riffle

0-60 2.5%

60-100 4 1/2%

0m

at 100 m

bfdw

bfd 2m

WW

wd 20, 110, 32

LC 0

RC 15 S alder

Sb 5 bd, 50 db 30gr 15 S

LWD 1 pc mod (0.15 dia) 1%

BL ch slope to veg willow + S alder

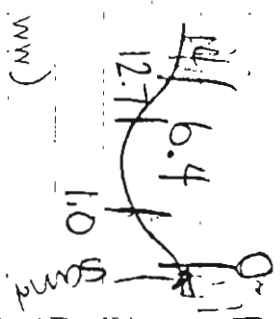
to SS + LP mature forest

R veg island S alder - dry channel

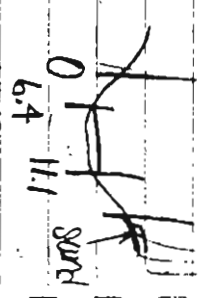
at 100 m

15.13

90m  
 bfw 20m  
 ww 15, 18, 15  
 CC 0  
 RC 10 Sadder willow (0 ww)  
 LWD 100 med. 1/2  
 Sh 10 bd 50 co 20 gr 20 S  
 BL point bar gravel to upper veg  
 R sloped to sand dep ~ 0.2m high  
 9 Veg atop.

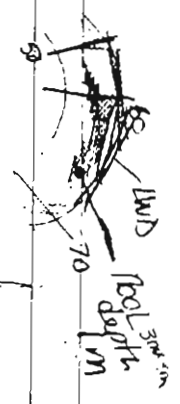


at 80m  
 bfw 14.9  
 bfd 2.5m  
 wd 28, 21, 10  
 WW 4.7  
 CC 0  
 RC 10 Sadder willow (0 ww)  
 LWD 0  
 Sh SA 90  
 BL + R SA 90

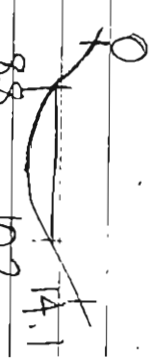


at 80m  
 bfw 14.9  
 bfd 2.5m  
 wd 28, 21, 10  
 WW 4.7  
 CC 0  
 RC 10 Sadder willow (0 ww)  
 LWD 0  
 Sh SA 90  
 BL + R SA 90

at 60m  
 bfw 3.5m  
 ww 38, 79, 59  
 CC 0  
 RC 10 Sadder (0 ww)  
 Sh 10 bd 50 co 20 gr 20 S  
 LWD 100 med. 1/2  
 BL SA 30  
 BR bedrock to surface along road  
 bank cut to 3m



at 70  
 bfw 2.5m  
 wd 18, 28, 22  
 WW 8.8  
 CC 0  
 RC 5 willow  
 LWD see diagram @ 60m  
 Sh SA 60  
 BL SA 60  
 BR SA 60



at 70  
 bfw 2.5m  
 wd 18, 28, 22  
 WW 8.8  
 CC 0  
 RC 5 willow  
 LWD see diagram @ 60m  
 Sh SA 60  
 BL SA 60  
 BR SA 60

at 50m  
 bfw  
 bfd 2.5m  
 wd 36, 40, 29  
 ww  
 CC 15 ss  
 RC 10 garden 0 wnc  
 Sb 20.1 bdrack 10bd 35cb 30gr 55  
 LWD 0  
 BL w slope to 0.1 m cutbank @ 1m  
 R 10/3 from NW, veg OH  
 R bdrack to 3m, wetland organisms  
 sloughing from 3-5m, m33 q veg  
 OH, ss, tree sloughing (22%)

at 40  
 wd 13, 14, 34  
 CC 0  
 RC 10 garden  
 LWD 0  
 Sb 30% bdrack, 5bd, 30cb 20gr 155  
 BL SA 50  
 R bdrack to veg OH, sloughing  
 at 4m (atop bank)

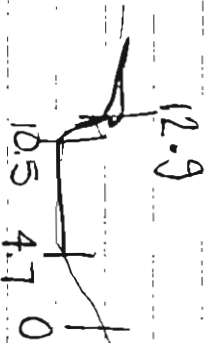
at 30m  
 bfw  
 bfd 2  
 ww  
 wd 19, 21, 21  
 CC 30 ss  
 RC 10 garden (0 wnc)  
 Sb 15 c/wc 45cb 35gr 105  
 LWD 0  
 BL 15 m root ch (ss, m33) sloughing  
 over - exc cover vegetation m33  
 R bdrack to veg to 2 25% slope mature forest

@ 20m  
 bfw  
 bfd 2m  
 wd 26, 20, 18  
 ww  
 CC 15 / ss  
 RC 15% garden willow (5% wnc)  
 Sb 5 bdrack, 35cb 25gr 15bd 205  
 LWD 0  
 BL 2m cutbank w/ 40% veg & root OH  
 R moss & w m veg (herb layer) sloughing  
 R slope cb/gr to veg to 30% slope  
 - forested

LEVEL

at 10 m  
bfw 12.9

wd 22, 13, 18



CC 0

RC 10% S after a bulge (0.1 mwc)

Sb SA20

LWD 0

BL cut back at 2m (ab slope to under 0.3% <sup>and</sup>)

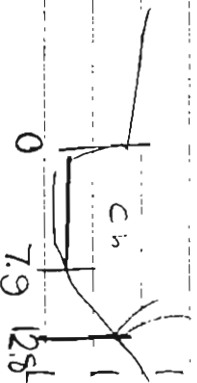
bank squaring & deposits removed in area?

driving & flows are laid off at 2m and for all 5m

R ch/yr color (within bfw) to veg off to

veg slope 20% slope mature SS forest

wd 11, 29, 19



CC 0

RC 2% S after (RB - left bank becomes Sutter by)

Sb SA20

LWD 1pc LB extends across Sutter CF along

left bank & into NW of Vicer

LB SA 10 - just below 2 in Sutter

RF SA 10

27 Sept 96

SITE ⑧ VUICH CR. (REACH 2) MID.

@ 100m

MIDDLE

bfw

bfd 1.0

wdlc 3.2

wdlc 52.23 15

wdlc 5.0 5.7 6

wdlc 5.0 3

CC 10% spr

RC 30% willow, lupinus, gr

RC 10% major shrub 2' tall is in left channel

LWD 1 pc RC

Sh 50 CB, 30 gr 5 bd 155

BNK 0.2m cut bank w 0.2m

high (undercut) riparian

willow almost reach

across whole ww of this

arm (L side of isl.)

channel f 1 pl grass lupinus

spr, LP, willow fireweed

some motts

R: Slope cb/gr to under

cut bank (dry), moss

covered root wads, maple

+ spr, willow over

to grass.

algae

L = N

@ 100m cont

mid channel

island (protc)

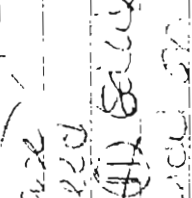
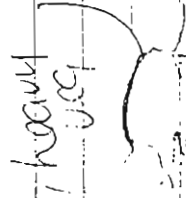
cobble gravel coarse

veg on fireweed

willow ~~veg~~ (12 Salix sp)

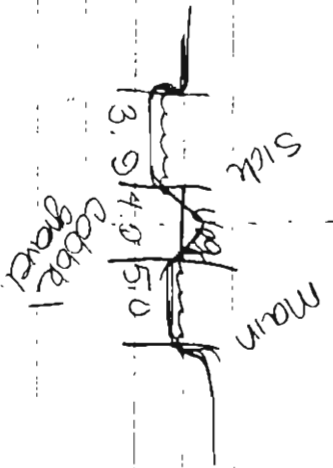
lupinus covered 20

\* woody debris out 4/5 end of slams (-110 m)





@ 30m



bfd 0.4

wuic 3.9

wuic 12 15 12

wuic

wuic 9 14 10

CC 5.1% LP SPR

RC 25% willow veg 14

Sb 15bd cb 55 20gr 105

LWD 0

bnt L 0.25m undercay banks

5m root OH + 0.5m veg

OH. flpl willow LP SPR

R 1.0m flpl willow SPD

bank is undercut slightly

w/ moss grass - herb layer

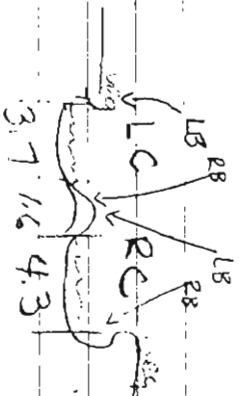
sloughing over-rounding

roots coming through

mossy layer

13) coarse/ grass sloping -  
(bank) w/ fireweed with  
of 1m.

@ 80m



bfd

bfd 0.4m

wuic

wuic 10 17 17

wuic

wuic 20 23 17

wuic

CC 20 20 20 1P

RC 20 1 willow veg ①

LWD

LWD 1pc 3 1 willow veg 14

Sb 30 3m ad (30cm ad)

Bk 1 0.6m cut bank w/ willow

+ (veg 14) OH. flpl

R Same as 30m

fireweed.

island bed/cb

" begins at 78m

at 70 m

bfw

bfd 0.5 m

wu

wd 11, 8, 12

CC60-79 20% Spr LP

RC 20% willow veg (14) grass

SD 35 bd (20% in) Ch 50 15 Gr

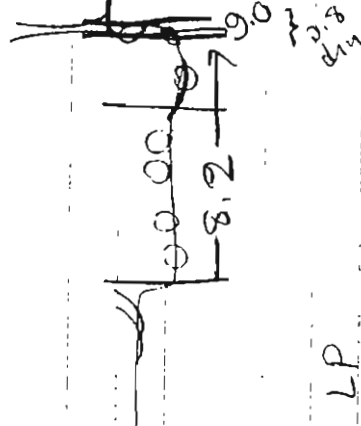
LND

BK L 0.25 m cut bank w/ willow (Satur) OH but  
↑ med bd dry.

R 0.4 m cut bank w/ mat

mass OH, some moss toughing  
- rounding

+ in high flows - med side boulders  
would cause strong cutting



at 60

bfw 3.0

bfd 1.0

wu 3.0

wd 15 10 27

CC60-79 50% willow (20% in)

RC 10% willow

SD 40 50 30 Gr 20 S 10 bd

LND 5 p (willow) 10% cover wuc

OH = 50% color to

cut bank w/ in reg  
dry

R 1.5 m OH & undercut

bank top layer soil

stabilized on veg moss

etc. if pl w spr will

+ veget Salix

R bank has exi habs, esp  
in higher flows

LEVEL



@ 50

5.5 10.3

bfd 0.5

wu

wu 16 34 45

CC40-50 5% spr

RC 10/ willow (H. Salix)

Sb 20/ 100, 40/ 100, 20/ 100

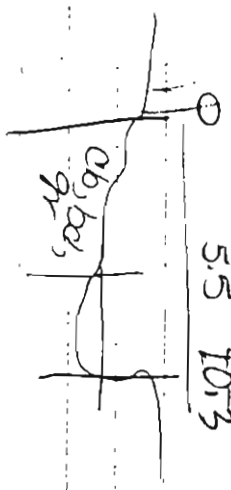
LWD 1 1/2 wu - v. slow in

bare, uncovered by flow during  
into bank.

Bk L 2 p. fl pl will LP SP

cd gr 5m od slope from wu  
to veg, veg CH during high flows

R 1.5 m undercut w/ moss +  
grasses sloughing over willow  
overhang LWD



at 40 m

bfdw

bfd 0.5

wu

wu 17 25 35

CC 30-40 50% spruce, 50% fir

RC 10/ 100, 40/ 100, 20/ 100

Sb 20/ 100, 40/ 100, 20/ 100

LWD 0 (some rock 2L)

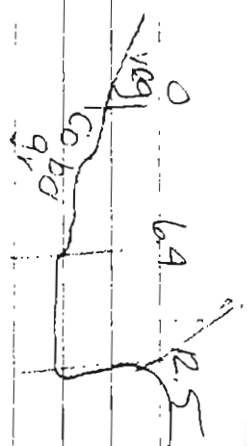
B L sloping cd ba gr to veg CH willow

" fl pl PL spr, df

good rip cover during high

flows but high - dry

R 1.5 m undercut top layer, sloughing  
over - undercut with grasses, fireweed  
+ spruce (about 2 ft)

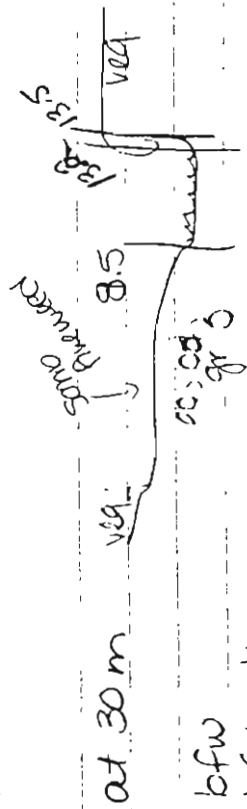


Photos 9-13 panoramic from

US-DS of R bank

(35) 30m → 20m

LEVEL



at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

cc

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sb

lwd

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at 30m

veg

8.5

veg

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at 30m

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at 30m

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at 30m

veg

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veg

bfw

bfd

ww

wd

cc

rc

sb

lwd

bl

at 30m

veg

8.5

veg

bfw

bfd

ww

wd

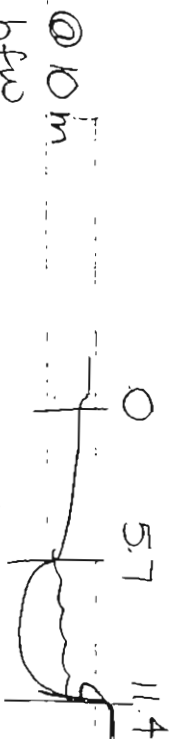
cc

rc

sb

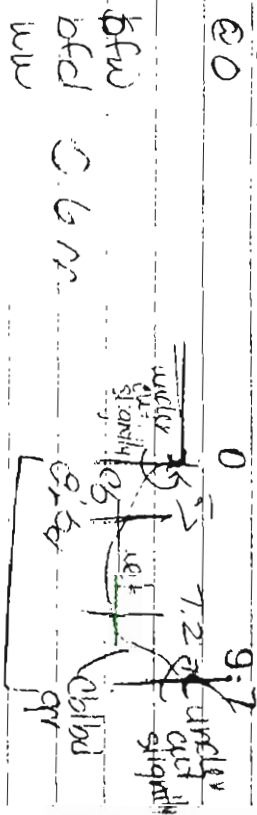
lwd





@ 10 m  
 bfw 0.6  
 bfd 0.6  
 wd 36 4 39  
 wu  
 AC 0.0 0  
 RC 15% willow sample veg (14)  
 Sp 40 cb 40 gr 10 bd 10 S  
 LWD 0  
 BL slope (ab gr) to riparian cover  
 veg fl pl. chgr so creek bed  
 but dry.  
 R. undercut w/ veg OH some bds  
 protruding into stream  
 veg OH willow (11) & live weed (14)  
 lupinus

(approx 4m w/5 from bridge)



@ 0  
 bfw 0.6 m  
 bfd 0.6 m  
 wd 35 5 38  
 wu  
 AC 30/30  
 RC 10% willow veg (14)  
 Sp 50 cc 30 gr 10 S 10 bd  
 LWD 0  
 BK L. Ch slope to CH veg 0.2 m  
 outbank, 2 species along bank  
 ch dry to veg.  
 R. 0.5 m out bank, signifying Ch  
 to veg OH willow (11) & ex.

\* Cobble is large at this site  
 diff to differentiate between  
 large cb / sm bd.



## 875

70

good upstream complexity little LWD  
but ↑ isolated bid & med size  
bcl. Potential for LWD CW + SP  
due to banks being undercut  
- illegal growth ↑

- Site is 4.5 m above bridge.  
flow under bridge is predom all  
L bank & appears to be under  
cutting substrate here.

uq jo sp 91+5102yd

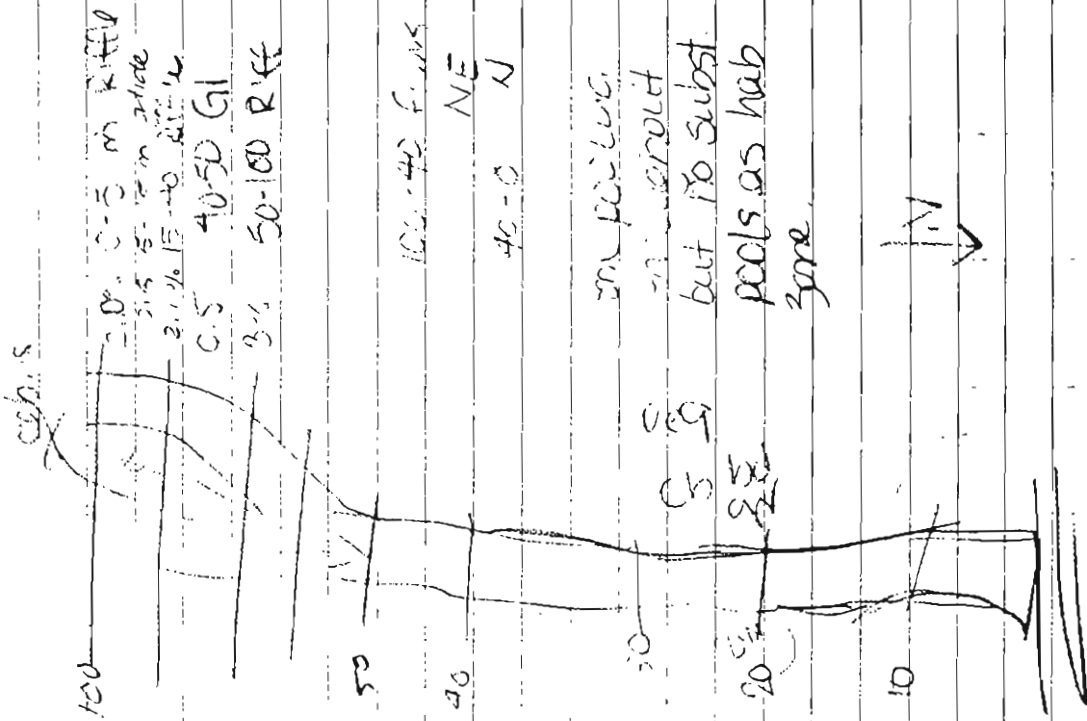
17 of Sloughing Continued

GPS FILE:

5092721A (d/s cut on at bridge)

042533E, 5474456N

5092721 B W's @ 100 m.  
642493E, 5474500N



LEVEL



at 80m note small trib RB

8. Alder

wd 14, 28, 21

5.1 3.0 0

CC 0

RC 20% S. Alder

Sb 20 bedrock, 5 bd, 40 cb 20 S 15 gr

LWD 6 pc med - 2 BB, 3 RB all are protruding into WW - causing pooling up & providing cover (15% up to 10% down)

LB slope ab ban d/s of LWD no growth to S. Alder & Juv. SS RB bedrock w/ moss, willow & SS seedlings

at 70m

wd 14, 28, 21

bd 21, 34, 31

0 2.0 3.8

CC 0

RC 25 S. Alder, willow

LWD 1 pc RB moss, separated into w/ moss & veg OH.

Sb bedrock 30, 40 cb, 20 gr 10 S

BL slope to willow OH

RB Juv. SS w/ moss, willow SS seedlings

no E. plant here

at 60m

bfd 4m

wd 15, 14, 10

CC 0

RC 30 S. Alder willow

Sb 20 bedrock, 0 gr 10 cb

LWD 0

BL bedrock conf. red 1 S. up, OH out to slope w/ moss to grassy area to S. up 40% R. T. pl.

at 50m

wd 16, 7, 6

0 1.0 4.0

CC 0

RC 20% S. Alder willow

LWD 2 pc abp bedrock LB - rotted w/ moss & green slope, no w/ cover grass for veg

Sb 45 bedrock 5 bd, 20 cb 20 gr 10 S

BL gr on bedrock to 30% slope juv SS bedrock

RB slope to steep confining bank - grass, lupinus willow, juv SS

LEVEL



Pool at 33 3m x 4m x 31m

at 40m

bfd 2

b/w 4.7

wd 34, 24, 12

ww 3.2

CC 0

RC 20% S. alder, willow

LWD

1 pc in 1/2 m into LB, flow 5% w/w, under 0.5m soil.

4 pc on RB on gravel 1/5 dm - good bare runner

no w/w here (31m x 25m)

Sb 15% black, 50cb 85gr 105

BL cut to 0.7m w/ gravel OH - gravel 19 sand sloughing

R. gravel bar - slope to LWD then steeper to RD.

at 30m

b/w 4.8

bfd 1.5

wd 8, 11, 7

ww 3.4

CC 0

RC 10 willow

LWD

7pc decayed surrounding RB OH @ 25m

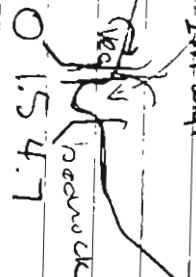
Sb 10 black, 20bd 30cb 35gr 75S

BL 0.6m undercut w/ moss + root OH to floodpl. 5m before steep slope - ss run

R SA 40m

Pool at 23m (scour caused by LWD diversion) 4m x 3m x 4cm

quite 2m length



at 20m

d 1.5

wd 20, 15, 7

SS seedlings

5.1 2.0

CC 0

RC 10% S. alder, willow (2% w/w)

LWD

2 RB from bank to mid channel 20.10 dia

Sb 20 black, 5bd, 45cb, 30gr

BL undercut 0.3m w/ gravel willow CH

some sloughing at veg to water depth

RB 9v/cb up to bed to sloping veg to increase slope - juv ss to RD

at 10m

1.7

wd 7, 14, 11

4.3 3.6

CC 0

RC 20 willow S. alder

LWD

1 LB incorp (cutoff) 2 pc RB incorp willow

Sb 10 black, 15bd, 50cb, 15gr 105

BL slope to fl plane veg OH willow

R

5m to steep slope green juv SS slope to RD 20% w/ juv ss, alder

LEVEL

Which trib (reach 3) 9 Sept 96

at 0m

bfc 1.5

WW 23, 35, 29

CCQ

RC 10 willow

dk.

LWD 1 Lg pf 30m (from oir - 30m)  
lines RB c 0.4m above water

LB 0.3m cut bank w/ grass & willow

OH, to slope SS(juv)

RB cb slope to ~20% slope veg (grass)  
to road.

Which lower (access via Sutter Cr.)

9 OCT 96 SITE 36

528

GPS FILE 00100910A 64470E 54772N

100m

Site 0m is just up stream Sutter Cr.  
rocks in which here are overgrown w/  
green algae (long hair) slimey

Photos 8-15

T = 70C

Site appears unstable, wide  
bfw, straight, few large

boulders (relative to stream size) few  
anchored LWD - little to discuss here  
over 9/11.



Called

Nicola Valley Ranch Merritt

378-5767

talked to Scott Van liet

advised dropping by

Bae-O-Bear house +

talking to Ryan Braat

to let him know what  
we're doing.

Asked if Spearing - Scott

only flows during high flows  
(springtime)

11:50 p.m.

3 Oct 96 (pm.)  
Otter Cr. recon

at 20-21 km on Otter Cr Rd  
good access for 1 more  
Site of 1988 Left bank (high)  
1/2 steep (60%) on slide  
unstable.

Sealing Cr.

5100400A

660525E, 5515417 N

at bridge - Nicola ranch

Creek is dry

Photo 11 a/s of bridge

12 u/s "

Otter Rv.

@ 27 km Otter Cr ~~is~~ good

access

3 OCT 96

OTTER CR UPPER NO REACH

GPS FILE 670540E 552793N  
S100318A

CR IS marsh-flowing thru

intersection of Hwy 5 &

OTTER CREEK ROAD turn off.

PHOTOS 11-14 south

15 north.

16 1/2 from road facing S.

17 1/2 from road, around bend

facing W. Showing slough.

Myra G. H. B. - 295-7168  
Oter Cr. Lower ~~Branch~~

gained access to reach  
between Fremont Lk &  
Otter Lk. Not applicable

on this area in too wide  
deep (appears to be an  
extension of Fremont Lake)  
no obvious flow.

Probably would not provide  
valuable information to forest practice  
damage or flood damage as this  
area is buffered by Fremont Lake.

The site, we decided, should be  
relocated to a site which provides  
more relevant information.

LEVEL