

REACH 1

T22S-R09W-S02NW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.4	VWI Range:	2 - 4

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	575	4,037	0
Secondary	77	156	2

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	6.1	Width	11.7	15.7	19.4
Depth	0.32	Height	0.4	0.8	3.4
		W:D ratio	29.9	Entrenchment	1.3
Stream Flow Type:	LF	Water temp (C):		12.0 - 12.0	
Avg. Unit Gradient:	1.3%	Habitat Units/100m:		7.1	

Riparian, Bank, and Wood Summary

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

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	1%	Reach avg: 97%
Undercut Banks:	7%	Range: 92 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	62	10.8
Volume (m ³):	67	11.7
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

WEATHERLEY CREEK PRE-TX (UMP-150)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/1/02

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	2	13	1.4	0.08	23	5	0	8	3	0	10	80
DRY CHANNEL	1	15	2.3	0.00	35	0	0	100	0	0	0	0
POOL-DAMMED	1	7	6.8	0.70	46	5	0	30	0	0	0	70
POOL-LATERAL SCOUR	11	176	5.8	0.55	1,035	202	5	11	10	4	23	47
POOL-PLUNGE	1	5	9.2	0.60	50	0	0	10	10	0	0	80
POOL-STRAIGHT SCOUR	5	109	7.2	0.58	764	71	0	3	7	4	28	58
PUDDLED UNIT	1	40	2.0	0.01	80	0	70	20	10	0	0	0
RAPID/BEDROCK	2	53	9.7	0.18	501	10	0	3	0	0	3	95
RAPID/BOULDERS	1	25	11.1	0.20	274	70	0	0	0	20	80	0
RIFFLE	7	162	6.5	0.14	1,038	165	0	2	2	3	19	74
RIFFLE W/ POCKETS	1	16	9.5	0.30	152	45	0	5	5	0	40	50
STEP/BEDROCK	3	6	4.3	0.12	32	50	0	0	0	0	8	92
STEP/BOULDERS	4	17	6.2	0.15	140	145	0	3	3	8	83	5
STEP/COBBLE	1	9	2.8	0.15	25	70	0	0	10	50	40	0
Total:	41	652	6.1	0.32	4,194	838	Avg 3	8	5	4	26	53

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	1	7	6.8	0.70	46	1.10%	5	10.8
Scour Pools	17	290	6.4	0.56	1,849	44.09%	273	14.8
Glides	0	0			0	0.00%	0	0.0
Riffles	8	178	6.9	0.16	1,190	28.38%	210	17.6
Rapids	3	78	10.2	0.18	775	18.48%	80	10.3
Cascades	2	13	1.4	0.08	23	0.54%	5	21.9
Step/Falls	8	32	5.1	0.14	196	4.68%	265	135.1
Dry	2	55	2.2	0.01	115	2.73%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

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POOL SUMMARY

	<u>Total</u>	<u># / Km</u>
All Pools:	18	31.3
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	4	7.0
Pool frequency (channel widths/pool):	3.1	
Residual pool depth (avg):	0.47	

RIPARIAN ZONE VEGETATION SUMMARY

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

Total hardwoods/1000	1077
Total conifers/1000 ft	183
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.3	6.3	0.0	3.7	0.0	2.0	0.3	12.0
15-30cm	0.3	2.7	0.3	0.0	0.0	2.0	0.7	4.7
30-50cm	0.0	0.3	0.7	0.3	0.7	0.0	1.3	0.7
50-90cm	0.0	0.3	0.7	0.0	0.0	0.0	0.7	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	9.7	1.7	4.0	0.7	4.0	1.0	5.9

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	83		93		68	
Shrub cover	58		32		5	
Grass/forb cover	42		52		73	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	17		33		67	
High terrace	67		50		0	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		17		33	
Riprap	0		0		0	
Surface slope (%)	5		15		36	

RIPARIAN ZONE VEGETATION

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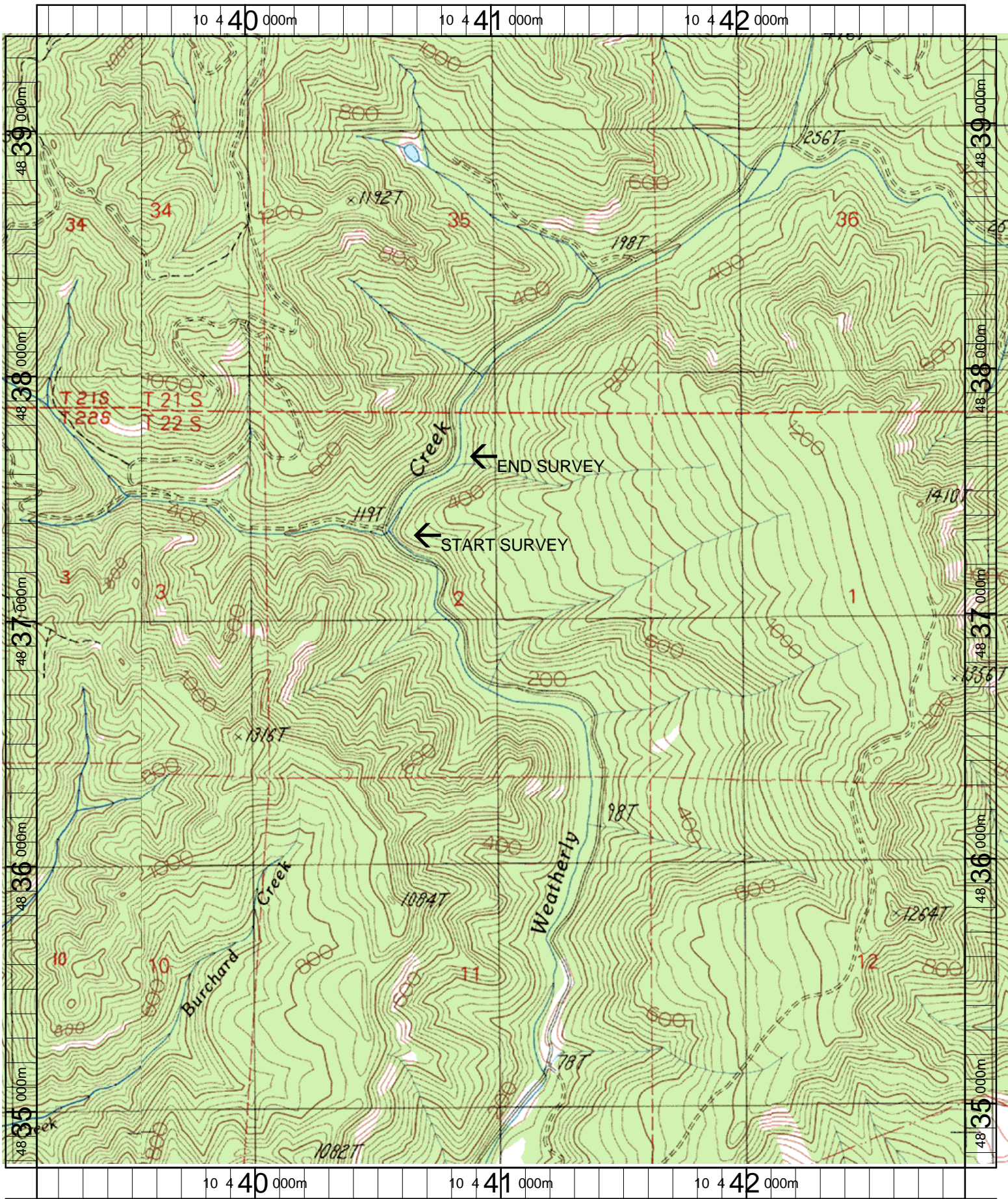
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
8	LF	1	HT	0	80	50	50	Conifer							
								Hardwood	3	2	1	1			
8	LF	2	RB	0	80	0	10	Conifer							
								Hardwood							
8	LF	3	HS	90	90	0	90	Conifer							
								Hardwood	6						
8	RT	1	HT	0	90	50	50	Conifer							
								Hardwood	2	1					
8	RT	2	HT	0	100	0	100	Conifer			1				
								Hardwood							
8	RT	3	HS	27	90	0	100	Conifer							
								Hardwood		5					
12	LF	1	HS	30	90	70	30	Conifer							
								Hardwood	3	2					
12	LF	2	HS	60	90	80	20	Conifer							
								Hardwood	4		1				
12	LF	3	RB	0	20	0	30	Conifer							
								Hardwood							
12	RT	1	HT	0	90	30	70	Conifer			1				
								Hardwood	6						
12	RT	2	HT	0	100	0	100	Conifer							
								Hardwood							
12	RT	3	HS	45	100	0	100	Conifer							
								Hardwood		1					
26	LF	1	HT	0	60	70	30	Conifer							
								Hardwood	5						
26	LF	2	HT	0	100	90	0	Conifer							
								Hardwood	3						
26	LF	3	RB	0	20	30	20	Conifer							
								Hardwood							
26	RT	1	LT	0	90	80	20	Conifer	1						PARTIAL HT
								Hardwood		3					
26	RT	2	HS	30	90	20	80	Conifer			2	2			PARTIAL HT
								Hardwood	4						
26	RT	3	HS	55	90	0	100	Conifer			2				
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 4-UMP SITE ID: 150 WEATHERLEY CREEK PRE-TX (UMP-

UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	RI	01	22.6	TJ/, BC	START, T=13C @830, TJ/	START SURVEY
2	SR	11	22.6		H=1.7	TRIB UNIT
6	RP	00	101.1		RAISED ROAD BED	
8	RR	00	160.1		HT NOT ROAD BED, RIP #	LOTS OF SMALL POOLS
10	RI	00	202.8			SNORKEL POOL #3 FLAG
12	LP	00	250.7		RIP#2	
13	LP	01	266.3	DJ		
18	LP	02	292.2	DJ	JAM AT TOP	
20	LP	00	319			SALMONIDS, SNORKEL POO
24	LP	00	359.4			SMALL SR IN BETWEEN
26	RR	00	393		RIP#3	
30	LP	01	438	/DJ		SALMONIDS
31	DP	01	444.8	WL		CRAYFISH
35	RI	00	517.5	WL		CRAYFISH
36	SP	01	526	CE/,/TJ	/TJ	DRY CE .4M DIA
37	CR	11	526		T=12C@1300	TRIB UNIT
40	RI	00	559.7			SITE #5 ORANGE FLAG
41	LP	00	575.4		END SURVEY	END SURVEY



Name: DEVILS GRAVEYARD
 Date: 3/21/2003
 Scale: 1 inch equals 1666 feet

Location: 10 441016 E 4837067 N
 Caption: WEATHERLY CREEK RESTORATION SITE - UMPQUA
 BASIN