

REACH 1

T21S-R08W-S04SW

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	100%
Moderate V-shape	0%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.2	VWI Range:	3 - 3.5

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	494	3,438	0
Secondary	3	4	1

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	6.7	Width	9.3	13.5	17.0
Depth	0.31	Height	0.4	0.8	3.1
		W:D ratio	22.6	Entrenchment	1.5
Stream Flow Type:	LF	Water temp (C):		15.0 - 15.0	
Avg. Unit Gradient:	0.8%	Habitat Units/100m:		5.7	

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D30	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	6%	Reach avg: 97%
Undercut Banks:	13%	Range: 87 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	11	2.2
Volume (m ³):	9	1.8
Key pieces (>=10m x 0.60m):	1	0.2

OREGON DEPARTMENT OF FISH AND WILDLIFE

BIG CREEK PRE-TX (UMP-126)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/2/02

REACH 1		T21S-R08W-S04SW					REACH 1						
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	
DRY CHANNEL	1	3	1.3	0.00	4	0	0	10	80	10	0	0	
GLIDE	1	22	8.5	0.20	184	5	0	20	60	20	0	0	
POOL-LATERAL SCOUR	10	189	7.3	0.53	1,375	43	5	11	25	12	7	40	
POOL-STRAIGHT SCOUR	3	62	6.4	0.69	391	11	5	13	22	13	10	38	
RAPID/BEDROCK	1	26	7.2	0.08	187	3	0	0	0	0	0	100	
RIFFLE	8	178	6.8	0.10	1,188	27	3	6	18	4	0	69	
STEP/BEDROCK	4	19	6.1	0.07	113	13	0	4	4	0	0	93	
Total:	28	497	6.7	0.31	3,442	102	Avg 3	9	22	8	3	55	

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	0	0			0	0.00%	0	0.0
Scour Pools	13	250	7.1	0.57	1,766	51.30%	54	3.1
Glides	1	22	8.5	0.20	184	5.33%	5	2.7
Riffles	8	178	6.8	0.10	1,188	34.52%	27	2.3
Rapids	1	26	7.2	0.08	187	5.44%	3	1.6
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	4	19	6.1	0.07	113	3.29%	13	11.5
Dry	1	3	1.3	0.00	4	0.11%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY		
	<u>Total</u>	<u># / Km</u>
All Pools:	13	26.3
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	1	2.0
Pool frequency (channel widths/pool):	4.1	
Residual pool depth (avg):	0.49	

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

Total hardwoods/1000	2946
Total conifers/1000 ft	224
Total conifers >20" dbh/1000 ft	41
Total conifers >35" dbh/1000 ft	41

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1		Zone 2		Zone 3		Zones 1-3	
	0-10 meters		10 - 20 meters		20 - 30 meters		0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	12.3	0.3	9.0	0.3	20.0	0.7	41.3
15-30cm	0.3	3.0	0.3	0.7	1.0	1.0	1.7	4.7
30-50cm	0.0	1.3	0.0	0.0	0.7	0.0	0.7	1.3
50-90cm	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7
>90cm	0.7	0.3	0.0	0.0	0.0	0.0	0.7	0.3
Total/100m2	1.0	17.7	0.7	9.7	2.0	21.0	1.2	16.1

Canopy closure and ground cover

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	100		92		88	
Shrub cover	35		17		8	
Grass/forb cover	55		55		73	

Predominant landform in each zone

	Zone 1		Zone 2		Zone 3	
	0-10 meters		10 - 20 meters		20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	0		17		50	
High terrace	83		50		33	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		33		17	
Riprap	0		0		0	
Surface slope (%)	0		7		21	

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

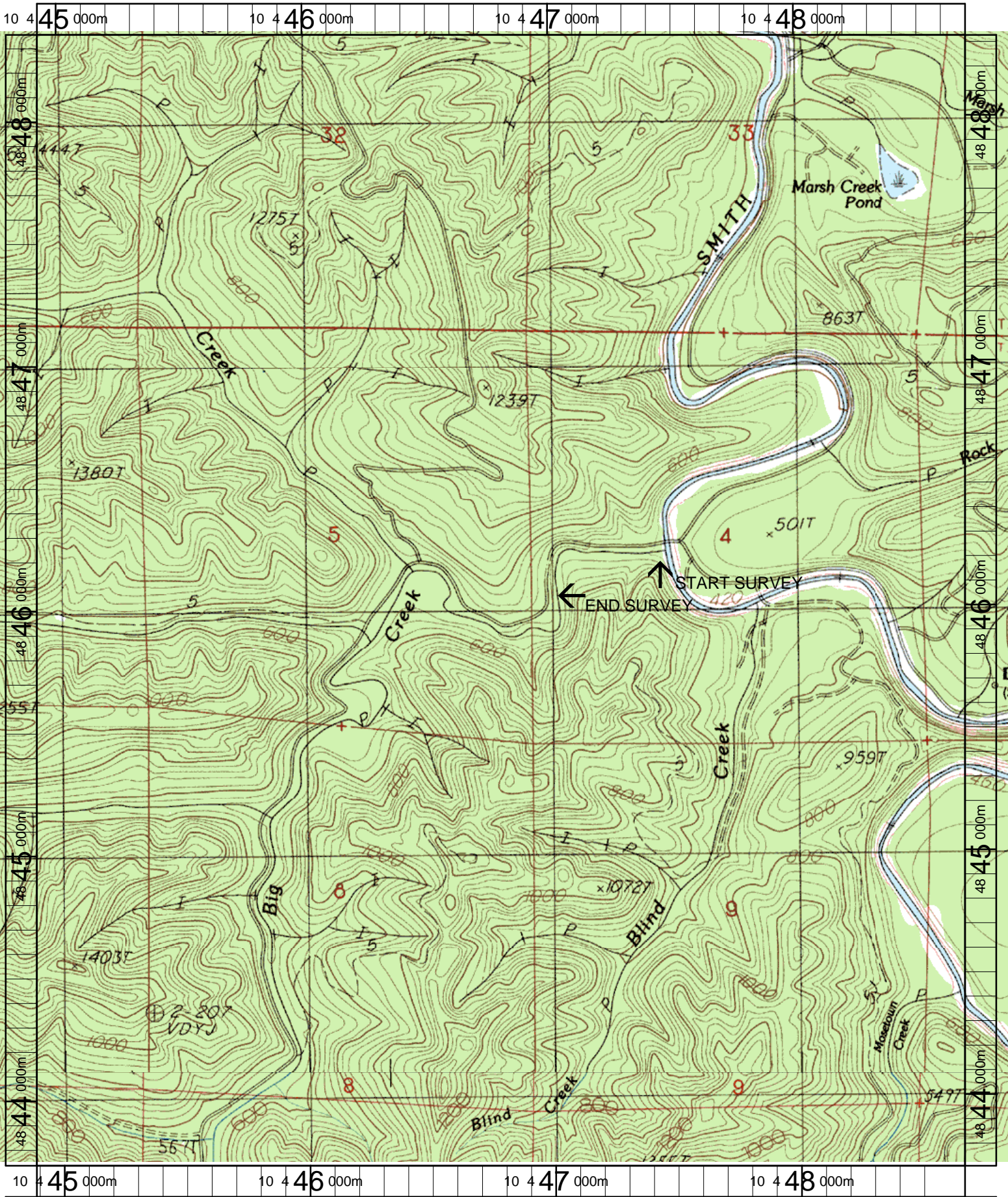
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
6	LF	1	HT	0	100	40	60	Conifer							
								Hardwood	2						
6	LF	2	HT	0	100	10	90	Conifer							
								Hardwood	8	2					
6	LF	3	HS	21	100	10	90	Conifer							
								Hardwood	19	1					
6	RT	1	HT	0	100	90	10	Conifer							MAPLE
								Hardwood			1	1	1		
6	RT	2	HS	44	100	70	10	Conifer							
								Hardwood	1						
6	RT	3	RB	0	85	0	40	Conifer	1						
								Hardwood							
11	LF	1	HT	0	100	20	80	Conifer							
								Hardwood	9	1					
11	LF	2	HT	0	100	10	90	Conifer							
								Hardwood	17						
11	LF	3	HT	0	85	30	70	Conifer							
								Hardwood	14						
11	RT	1	HT	0	100	50	0	Conifer							1
								Hardwood	13	4	1	1			
11	RT	2	RB	0	90	0	50	Conifer							
								Hardwood							
11	RT	3	HS	42	90	10	40	Conifer			1	2			PARTIAL OLD RB
								Hardwood	12						
17	LF	1	HT	0	100	0	90	Conifer				1		1	DFIR
								Hardwood	10	2					
17	LF	2	HT	0	100	10	50	Conifer	1	1					
								Hardwood	1						
17	LF	3	HT	0	100	0	100	Conifer			2				
								Hardwood	15	2					
17	RT	1	LT	0	100	10	90	Conifer							
								Hardwood	3	2	2				
17	RT	2	RB	0	60	0	40	Conifer							
								Hardwood							
17	RT	3	HS	60	70	0	100	Conifer							
								Hardwood							

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **126** **BIG CREEK PRE-TX (UMP-126)**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RI	00	22.9		T=15C, START	START JUST ABOVE CONF
6	RI	01	148.2	TJ/	TJ/, RIP#1	RIP#1
7	DC	11	148.2			TRIB UNIT
9	LP	00	170.8	/SS	/SS	
10	RI	00	195.9		CABLE MESS	CABLES
11	LP	00	223.6		RIP #2, DEAD CRAYFISH	RIP #2
12	SP	00	238			T=14C
13	RR	00	264	DJ		SAND BAG
17	RI	00	343.6		RIP#3	RIP#3, .4M POCKET
28	SR	00	494.3		END SURVEY	END SURVEY



Name: TWIN SISTERS
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 446789 E 4846036 N
 Caption: BIG CREEK RESTORATION SITE - SMITH BASIN