

**ODFW AQUATIC INVENTORY PROJECT  
OREGON PLAN FOR SALMON & WATERSHEDS  
STREAM RESTORATION HABITAT REPORT**

STREAM: Lane Creek (U-41)  
BASIN: Umpqua River  
SURVEY TYPE: Pre-Tx  
DATE: March 8, 2000  
SURVEY CREW: Clark Watly, Brent Crowe  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 6.6 km<sup>2</sup>  
USGS MAPS: Canyonville, Nickel Mtn  
ECOREGION: Coast Range Umpqua Valleys

**GENERAL DESCRIPTION:**

The Lane Creek habitat survey extended 501 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 5.0. Land use for the reach was exclosure and large (30-50 cm dbh) trees. The average unit gradient was 1.1 percent. Riffles (47%) and scour pools (37%) dominated stream habitat. Gravel (40%) and sand (26%) dominated stream substrate. Wood volume was low at 6.4 m<sup>3</sup>/100m.

**COMMENTS:**

There were no potential barriers to upstream fish migration in the surveyed length.

REACH 1

T30S-R6W-S14NE

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	5.0	VWI Range:	5 - 5

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	501	1,290	0
Secondary	34	31	0

Channel Dimensions (m)

<u>Wetted</u>		<u>Active</u>		<u>Floodprone</u>	<u>First Terrace</u>
Width	2.3	Width	4.3	7.2	8.5
Depth	0.35	Height	0.5	1.0	2.3
		W:D ratio	8.9	Entrenchment	1.7
Stream Flow Type:	MF			Water temp (C):	7.0 - 7.0
Avg. Unit Gradient:	1.1%			Habitat Units/100m:	10.2

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	EX	LT
Riparian Vegetation:	D15	C30

Bank Condition and Shade

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

Large Wood Debris

	<u>Total</u>	<u>Total / 100m</u>
All pieces (>=3m x 0.15m):	51	10.2
Volume (m <sup>3</sup> ):	32	6.4
Key pieces (>=10m x 0.60m):	2	0.4

OREGON DEPARTMENT OF FISH AND WILDLIFE

LANE CREEK PRE-TX (U-41)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

3/8/00

REACH 1

T30S-R6W-S14NE

REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
GLIDE	3	40	2.1	0.29	85	0	10	30	40	20	0	0
POOL-BACKWATER	8	17	1.3	0.24	22	0	23	45	24	4	4	0
POOL-LATERAL SCOUR	16	138	2.4	0.57	336	0	11	28	42	19	0	0
POOL-PLUNGE	2	16	3.0	0.60	48	0	10	35	38	13	5	0
POOL-STRAIGHT SCOUR	4	42	2.4	0.53	101	0	9	30	45	16	0	0
RAPID/BOULDERS	3	47	2.2	0.18	105	0	2	10	42	47	0	0
RIFFLE	10	153	2.7	0.15	419	0	6	14	44	35	2	0
RIFFLE W/ POCKETS	4	81	2.5	0.15	202	0	9	20	48	23	0	1
STEP/LOG	1	1	3.7	0.15	2	0	0	0	50	50	0	0
<b>Total:</b>	<b>51</b>	<b>535</b>	<b>2.3</b>	<b>0.35</b>	<b>1,321</b>	<b>0</b>	<b>Avg 11</b>	<b>26</b>	<b>40</b>	<b>22</b>	<b>1</b>	<b>0</b>

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )
Dammed & BW Pools	8	17	1.3	0.24	22	1.65%	0	0.0
Scour Pools	22	196	2.5	0.57	486	36.76%	0	0.0
Glides	3	40	2.1	0.29	85	6.46%	0	0.0
Riffles	14	234	2.7	0.15	622	47.07%	0	0.0
Rapids	3	47	2.2	0.18	105	7.92%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	1	1	3.7	0.15	2	0.14%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY

	Total	# / Km
All Pools:	30	59.9
Pools >=1m deep:	0	0.0
Complex pools (LWD pieces>=3):	3	6.0
Pool frequency (channel widths/pool):	4.2	
Residual pool depth (avg):	0.43	

**STREAM SUMMARY**

**LANE CREEK PRE-TX (U-41)**

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Substrate						Large Boulders (#>0.5m)
					Percent Wetted Area						
					S/O	Snd	Grvl	Cbl	Bldr	Bdrk	
51	535	2.3	0.35	1,321	11	26	40	22	1	0	

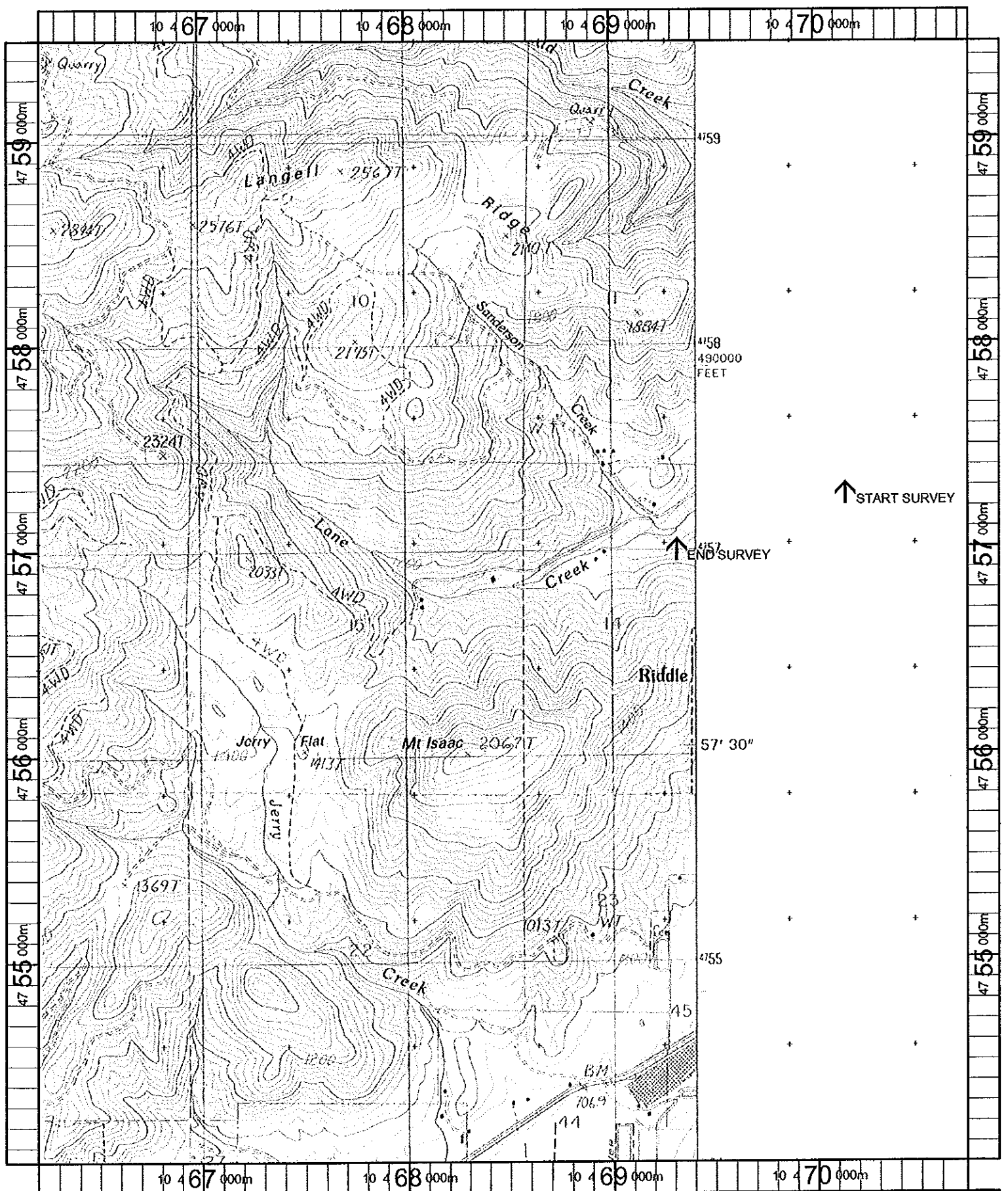
Habitat Group	Wetted Area	
	(m <sup>2</sup> )	Percent
Dammed & BW Pools	22	1.65%
Scour Pools	486	36.76%
Glides	85	6.46%
Riffles	622	47.07%
Rapids	105	7.92%
Cascades	0	0.00%
Step/Falls	2	0.14%
Dry	0	0.00%
Culverts	0	0.00%

# Comment Summary

## Restoration Monitoring Sites 2003

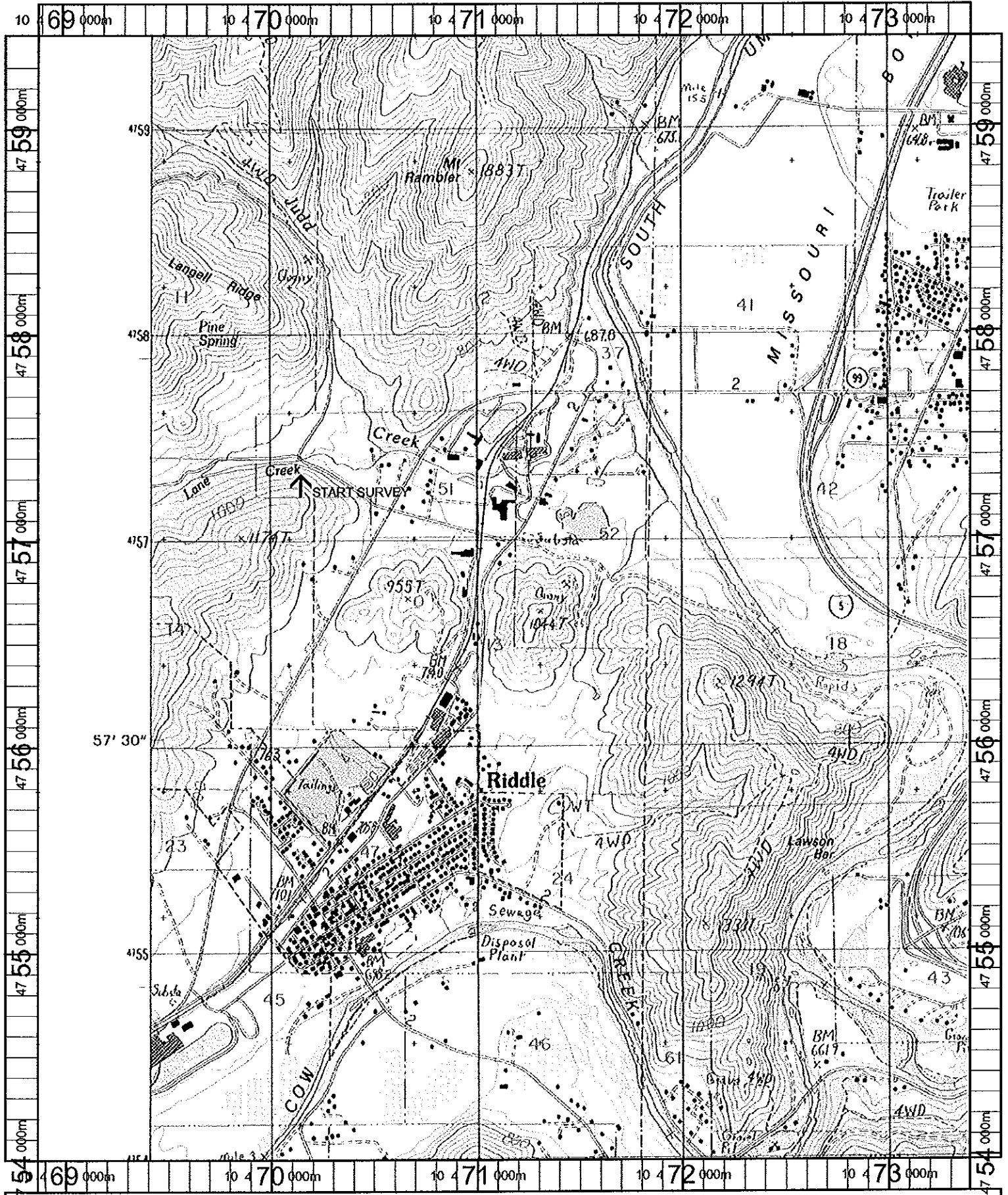
MONITORING AREA: 4-UM SITE ID: 41 LANE CREEK PRE-TX (U-41)

<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	17.9		VWI=5, RIP-RAP @CMP	
10	BW	10	97.1	DJ	YOY TROUT	
15	LP	00	138		VWI=5	
28	RI	00	268.1		VWI=5	
38	LP	00	370.9		VWI= 5	
50	GL	01	500.8	LI/	VWI= 5	



Name: NICKEL MT  
 Date: 10/17/100  
 Scale: 1 inch equals 2000 feet

Location: 10 468375 E 4756731 N  
 Caption: LANE CREEK RESTORATION SITE - UMPQUA BASIN



Name: CANYONVILLE  
 Date: 10/17/100  
 Scale: 1 inch equals 2000 feet

Location: 10 471038 E 4756703 N  
 Caption: LANE CREEK RESTORATION SITE - UMPQUA BASIN