

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

STREAM: Canyon Creek (L-12)  
BASIN: Molalla River  
SURVEY TYPE: Pre-Tx  
DATE: February 23, 2000  
SURVEY CREW: Jen Bock, Peggy Kavanagh  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 12.2 km<sup>2</sup>  
USGS MAPS: Colton, Elwood  
ECOREGION: Willamette Valley Foothills

**GENERAL DESCRIPTION:**

The Canyon Creek habitat survey extended 511 meters. The channel was alternately constrained by hillslopes and terraces in a broad valley floor. The average valley width index was 4.5. Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 5.0 percent. Rapids (59%) and cascades (30%) dominated stream habitat. Cobble (41%) and boulders (30%) dominated stream substrate. Wood volume was low at 6.5 m<sup>3</sup>/100m.

**COMMENTS:**

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



OREGON DEPARTMENT OF FISH AND WILDLIFE

CANYON CREEK (PRE-TX)

HABITAT INVENTORY

Report Date: 11/12/03

Survey Date:

2/23/00

REACH 1

T5S-R3E-S24NE

REACH 1

HABITAT DETAIL

| Habitat Type        | Number<br>Units | Total<br>Length<br>(m) | Avg<br>Width<br>(m) | Avg<br>Depth<br>(m) | Total<br>Area<br>(m <sup>2</sup> ) | Large<br>Boulders<br>(#>0.5m) | Substrate<br>Percent Wetted Area |          |           |           |           |          |
|---------------------|-----------------|------------------------|---------------------|---------------------|------------------------------------|-------------------------------|----------------------------------|----------|-----------|-----------|-----------|----------|
|                     |                 |                        |                     |                     |                                    |                               | S/O                              | Snd      | Grvl      | Cbl       | Bldr      | Bdrk     |
| CASCADE/BOULDERS    | 8               | 161                    | 3.5                 | 0.29                | 696                                | 0                             | 0                                | 6        | 18        | 31        | 46        | 0        |
| POOL-LATERAL SCOUR  | 3               | 25                     | 4.3                 | 0.77                | 114                                | 0                             | 0                                | 15       | 34        | 43        | 8         | 0        |
| POOL-PLUNGE         | 7               | 31                     | 3.8                 | 0.72                | 114                                | 0                             | 0                                | 21       | 27        | 37        | 14        | 1        |
| POOL-STRAIGHT SCOUR | 1               | 4                      | 3.7                 | 0.60                | 16                                 | 0                             | 0                                | 53       | 32        | 16        | 0         | 0        |
| RAPID/BOULDERS      | 12              | 309                    | 4.3                 | 0.37                | 1,354                              | 0                             | 0                                | 2        | 22        | 53        | 22        | 1        |
| STEP/BOULDERS       | 4               | 4                      | 3.7                 | 0.20                | 13                                 | 0                             | 0                                | 0        | 0         | 22        | 77        | 0        |
| STEP/COBBLE         | 1               | 2                      | 1.2                 | 0.15                | 2                                  | 0                             | 0                                | 0        | 10        | 80        | 10        | 0        |
| STEP/LOG            | 1               | 0                      | 5.0                 | 0.10                | 2                                  | 0                             | 0                                | 5        | 1         | 73        | 21        | 0        |
| <b>Total:</b>       | <b>37</b>       | <b>535</b>             | <b>3.9</b>          | <b>0.42</b>         | <b>2,311</b>                       | <b>0</b>                      | <b>Avg 0</b>                     | <b>9</b> | <b>20</b> | <b>41</b> | <b>30</b> | <b>0</b> |

HABITAT SUMMARY

| Habitat Group     | Number<br>Units | Total<br>Length<br>(m) | Avg<br>Width<br>(m) | Avg<br>Depth<br>(m) | Wetted Area       |         | Large Boulders |                          |
|-------------------|-----------------|------------------------|---------------------|---------------------|-------------------|---------|----------------|--------------------------|
|                   |                 |                        |                     |                     | (m <sup>2</sup> ) | Percent | Number         | (# / 100m <sup>2</sup> ) |
| Dammed & BW Pools | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |
| Scour Pools       | 11              | 60                     | 3.9                 | 0.72                | 244               | 10.55%  | 0              | 0.0                      |
| Glides            | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |
| Riffles           | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |
| Rapids            | 12              | 309                    | 4.3                 | 0.37                | 1,354             | 58.61%  | 0              | 0.0                      |
| Cascades          | 8               | 161                    | 3.5                 | 0.29                | 696               | 30.13%  | 0              | 0.0                      |
| Step/Falls        | 6               | 5                      | 3.5                 | 0.18                | 16                | 0.71%   | 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:                            | 11    | 21.5   |
| Pools >=1m deep:                      | 1     | 2.0    |
| Complex pools (LWD pieces>=3):        | 0     | 0.0    |
| Pool frequency (channel widths/pool): | 9.2   |        |
| Residual pool depth (avg):            | 0.42  |        |

**STREAM SUMMARY**

**CANYON CREEK (PRE-TX)**

| Number<br>Units | Total<br>Length<br>(m) | Avg<br>Width<br>(m) | Avg<br>Depth<br>(m) | Total<br>Area<br>(m <sup>2</sup> ) | Substrate<br>Percent Wetted Area |     |      |     |      |      | Large<br>Boulders<br>(>0.5m) |
|-----------------|------------------------|---------------------|---------------------|------------------------------------|----------------------------------|-----|------|-----|------|------|------------------------------|
|                 |                        |                     |                     |                                    | S/O                              | Snd | Grvl | Cbl | Bldr | Bdrk |                              |
| 37              | 535                    | 3.9                 | 0.42                | 2,311                              | 0                                | 9   | 20   | 41  | 30   | 0    |                              |

| Habitat Group     | Wetted Area       |         |
|-------------------|-------------------|---------|
|                   | (m <sup>2</sup> ) | Percent |
| Dammed & BW Pools | 0                 | 0.00%   |
| Scour Pools       | 244               | 10.55%  |
| Glides            | 0                 | 0.00%   |
| Riffles           | 0                 | 0.00%   |
| Rapids            | 1,354             | 58.61%  |
| Cascades          | 696               | 30.13%  |
| Step/Falls        | 16                | 0.71%   |
| Dry               | 0                 | 0.00%   |
| Culverts          | 0                 | 0.00%   |

# Comment Summary

## Restoration Monitoring Sites 2003

MONITORING AREA: 6-LC    SITE ID: 12    CANYON CREEK (PRE-TX)

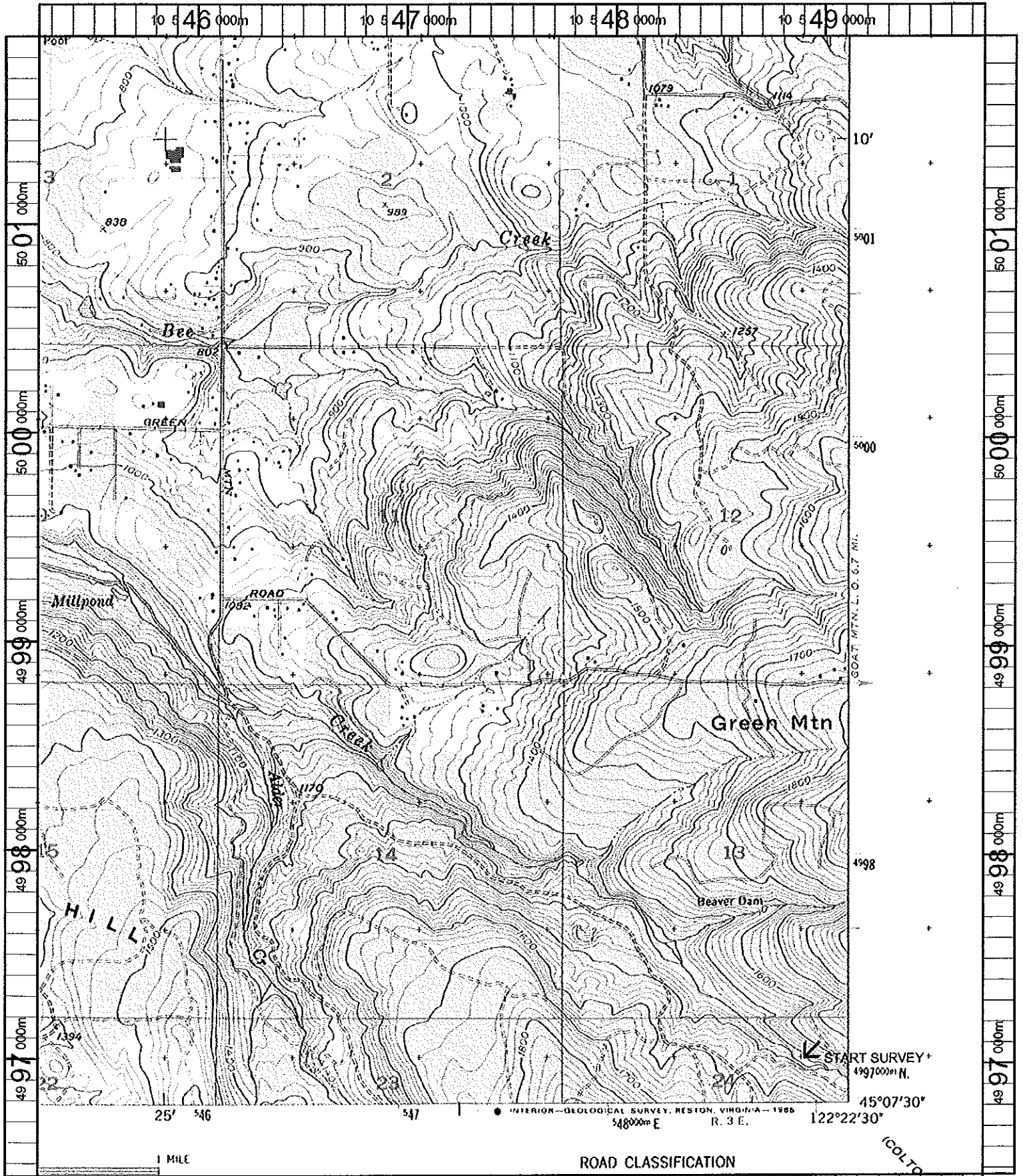
| UNIT# | TYPE | CHAN | DIST. (m) | COMMENTS   | NOTE ESTIMATOR          | NOTE NUMERATOR |
|-------|------|------|-----------|------------|-------------------------|----------------|
| 1     | RB   | 01   | 16        | /TJ, BV    | STRT @ SITE 5 YELLOW    |                |
| 2     | CB   | 11   | 16        |            | ACW= 1.5                |                |
| 3     | RB   | 00   | 33.4      | SS/        |                         |                |
| 4     | LP   | 00   | 46.9      | SS/, BV    |                         |                |
| 5     | CB   | 00   | 66.5      | BV         |                         |                |
| 6     | RB   | 00   | 95.7      | SS/        |                         |                |
| 7     | RB   | 00   | 110.1     |            | FLAG/= SITE #7          |                |
| 10    | PP   | 01   | 148.4     |            | UNDERCUT= 1.5           |                |
| 11    | SB   | 01   | 149.1     |            | H= 0.65                 |                |
| 14    | SC   | 02   | 149.1     |            | H= 0.4                  |                |
| 15    | RB   | 00   | 171       |            | L=170                   |                |
| 18    | RB   | 00   | 227.9     | BV         |                         |                |
| 19    | LP   | 00   | 233.1     |            | UNDERCUT= 0.7           |                |
| 22    | SB   | 00   | 253.4     |            | H= 0.55, FLAG SITE #7   |                |
| 23    | RB   | 00   | 283.4     | RF         | BEND IN CR. FLAG SITE 1 |                |
| 25    | SL   | 00   | 285.9     |            | H= 0.42                 |                |
| 28    | RB   | 01   | 385.2     | /TJSEENOTE | DIDN'T SURVEY THIS TJ,F |                |
| 29    | SB   | 00   | 386       |            | H= 0.65                 |                |
| 30    | CB   | 00   | 436       |            | FLAG SITE #13           |                |
| 32    | CB   | 00   | 440.4     |            | H= 0.45                 |                |
| 33    | CB   | 00   | 449.9     |            | /DRY 02 (OLD)           |                |

# Comment Summary

## Restoration Monitoring Sites 2003

MONITORING AREA: 6-LC SITE ID: 12 CANYON CREEK (PRE-TX)

| <u>UNIT#</u> | <u>TYPE</u> | <u>CHAN</u> | <u>DIST. (m)</u> | <u>COMMENTS</u> | <u>NOTE ESTIMATOR</u> | <u>NOTE NUMERATOR</u> |
|--------------|-------------|-------------|------------------|-----------------|-----------------------|-----------------------|
| 35           | SB          | 00          | 460.1            |                 | H= 0.9                |                       |
| 36           | CB          | 00          | 506.2            |                 | TIMBER HARVEST START  |                       |
| 37           | PP          | 00          | 511.3            |                 | BIG CEDAR ON RIGHT    |                       |



Name: COLTON  
 Date: 10/16/100  
 Scale: 1 Inch equals 2000 feet

Location: 10 547421 E 4999169 N  
 Caption: CANYON CREEK RESTORATION SITE - CLACKAMAS BASIN

