

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

STREAM: Munson Creek Tributary A (NC-343)
BASIN: Tillamook River
SURVEY TYPE: Pre-Tx
DATE: February 14, 2007
SURVEY CREW: Matthew Strickland, Sharon Tippery
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 1.9 km²
USGS MAPS: Beaver
ECOREGION: Coast Range Coastal Uplands

GENERAL DESCRIPTION:

The Munson Creek Tributary A habitat survey extended 780 meters. The channel was constrained by terraces in a broad valley floor. The average valley width index was 11.5 (range: 3.5-20). Land use for the reach was timber harvest and large timber (30-50 cm dbh). The average unit gradient was 5.1 percent. Rapids (69%), scour pools (12%) and riffles (11%) dominated stream habitat. Cobble (47%) and gravel (25%) dominated stream substrate. Wood volume was low at 7.2 m³/100m.

COMMENTS:

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

The Munson Creek Road culvert (1.8m diameter) was recorded 251 meters into the survey reach.

A second culvert (1.0m diameter), clogged with wood and debris, created a dammed pool at 685 meters into the survey reach.

OREGON DEPT OF FISH AND WILDLIFE MUNSON CREEK TRIBUTARY A PRE-TX (1-NC, 343)

HABITAT INVENTORY

Report Date: 4/25/2007

Survey Date:

2/14/2007

| REACH 1 | | T02S-R09W-S28SE | | | | | 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 |
| CASCADE/BOULDERS | 3 | 16 | 1.8 | 0.09 | 26 | 0 | 0 | 3 | 10 | 59 | 27 | 0 |
| CULVERT CROSSING | 2 | 22 | 1.0 | 0.15 | 21 | 0 | 5 | 8 | 18 | 33 | 38 | 0 |
| POOL-DAMMED | 1 | 14 | 8.2 | 1.50 | 112 | 0 | 26 | 32 | 32 | 11 | 0 | 0 |
| POOL-LATERAL SCOUR | 9 | 46 | 2.6 | 0.43 | 129 | 0 | 1 | 10 | 33 | 47 | 9 | 0 |
| POOL-PLUNGE | 5 | 28 | 3.6 | 0.70 | 103 | 0 | 1 | 9 | 40 | 35 | 12 | 3 |
| POOL-STRAIGHT SCOUR | 1 | 7 | 3.2 | 0.45 | 21 | 0 | 5 | 9 | 36 | 45 | 5 | 0 |
| RAPID/BOULDERS | 17 | 568 | 2.5 | 0.19 | 1,449 | 0 | 0 | 4 | 14 | 57 | 26 | 0 |
| RIFFLE | 6 | 135 | 1.8 | 0.14 | 238 | 0 | 3 | 11 | 38 | 39 | 9 | 0 |
| STEP/LOG | 4 | 2 | 3.7 | 0.15 | 9 | 0 | 0 | 6 | 38 | 42 | 14 | 0 |
| STEP/STRUCTURE | 2 | 1 | 1.0 | 0.14 | 1 | 0 | 5 | 16 | 14 | 34 | 30 | 0 |
| Total: | 50 | 839 | 2.6 | 0.30 | 2,109 | 0 | Avg: 2 | 8 | 25 | 47 | 18 | 0 |

| 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 | 14 | 8.2 | 1.50 | 112 | 5.33% | 0 | 0.0 | |
| Scour Pools | 15 | 81 | 3.0 | 0.52 | 253 | 11.99% | 0 | 0.0 | |
| Glides | 0 | 0 | | | 0 | 0.00% | 0 | 0.0 | |
| Riffles | 6 | 135 | 1.8 | 0.14 | 238 | 11.29% | 0 | 0.0 | |
| Rapids | 17 | 568 | 2.5 | 0.19 | 1,449 | 68.68% | 0 | 0.0 | |
| Cascades | 3 | 16 | 1.8 | 0.09 | 26 | 1.26% | 0 | 0.0 | |
| Step/Falls | 6 | 3 | 2.8 | 0.15 | 9 | 0.45% | 0 | 0.0 | |
| Dry | 0 | 0 | | | 0 | 0.00% | 0 | 0.0 | |
| Culverts | 2 | 22 | 1.0 | 0.15 | 21 | 1.01% | 0 | 0.0 | |

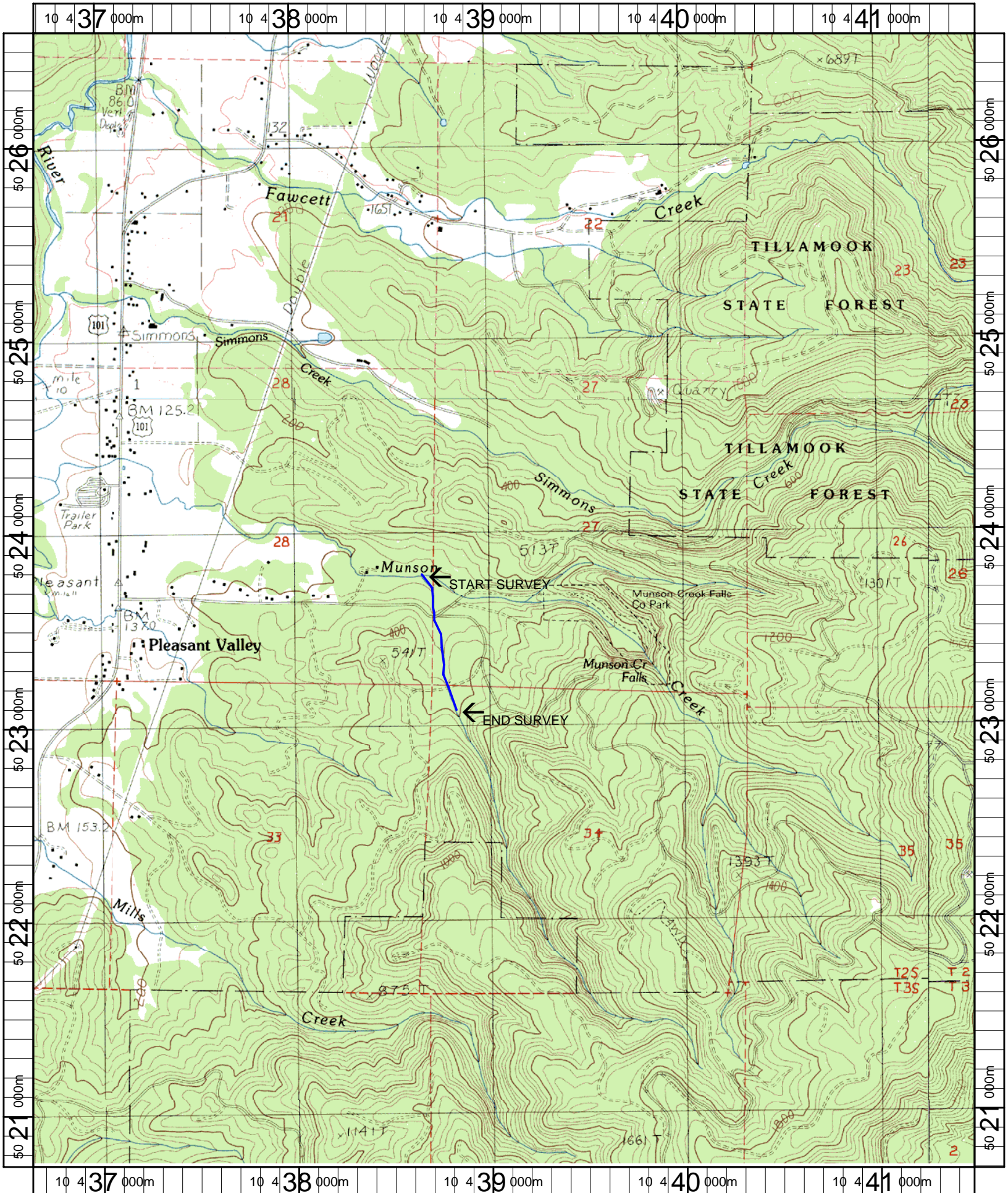
| POOL SUMMARY | | | |
|---------------------------------------|--------------|---|---|
| | <u>Total</u> | Total of all Channel Lengths <u># / Km</u> | Primary Channel Length <u># / Km</u> |
| All Pools: | 16 | 19.1 | 20.5 |
| Pools >=1m deep: | 3 | 3.6 | 3.8 |
| Complex pools (LWD pieces>=3): | 4 | 4.8 | 5.1 |
| Pool frequency (channel widths/pool): | 18.4 | | |
| Residual pool depth (avg): | 0.33 | | |

Comment Summary

Restoration Monitoring Sites 2007

MONITORING AREA: 1-NC SITE ID: 343 MUNSON CREEK TRIBUTARY A PRE-

| UNIT# | TYPE | CHAN | DIST. (m) | COMMENTS | NOTE ESTIMATOR |
|-------|------|------|-----------|----------|------------------------------|
| 19 | CC | 00 | 251.4 | CC | 1.8 DIAMETER. MUNSON CR. RD. |
| 27 | RB | 01 | 458.4 | TJ/TJ | |
| 28 | CB | 11 | 458.4 | | ACW=1.5 TEMPERATURE =9.0 |
| 29 | RI | 11 | 458.4 | | ACW=2.0 TEMPERATURE =9.0 |
| 38 | RB | 01 | 582.5 | /TJ | |
| 39 | RI | 11 | 582.5 | | ACW=1.1 TEMPERATURE =9.0 |
| 41 | RB | 00 | 633.8 | SS/ | |
| 46 | CC | 00 | 685.4 | CC | CULVERT=1.0 m DIA, LOGGING |
| 47 | DP | 00 | 699.1 | | CLOGGED CULVERT. PTC=1.5 |



Name: BEAVER
 Date: 1/9/2007
 Scale: 1 inch equals 2000 feet

Location: 10 439082 E 5023645 N
 Caption: MUNSON CREEK TRIBUTARY A RESTORATION SITE -
 TILLAMOOK BASIN