STREAM: Little North Fork Nehalem Tributary A
BASIN: North Fork Nehalem River
DATES: March 17, 2004
SURVEY CREW: Trevor Diemer and Ben Walczak
REPORT PREPARED BY: Ben Walczak and Peggy Kavanagh
STREAM ORDER: 1  BASIN AREA: 0.65km²  FIRST ORDER TRIBUTARIES: 0
USGS MAPS: Saddle Mountain
ECOREGION: Coast Range Sitka Spruce
HUC NUMBER: 17100202  LLID: none

REACH DESCRIPTION:

(T4N-R8W-S30NE) Length 382 meters. The Little North Fork Nehalem River Tributary A habitat survey began at the confluence with Little North Fork Nehalem River and ended 382 meters upstream due to a lack of flow at a tributary junction. The channel was constrained by hillslopes in a moderate v-shaped valley. The average valley width index was 3.0 (range: 1.5-5.0). Typically, the valley width index (vwi) for a hillslope-constrained reach is less than 2.5. Due to averaging, the vwi was greater than 2.5. Land use for the reach was second-growth timber (15-30cm dbh). The average unit gradient was 5.5 percent. Scour pool (21%) and rapids (68%) were the primary stream habitat types. Gravel (48%) and cobble (39%) were the primary stream substrates. Habitat was in the lower half of the reach. The pools were small and generally shallow. Wood volume was 17.1m³/100m. The trees found most frequently in the riparian zone were conifers 15-30cm (based on one riparian transect).

COMMENTS:

The crew observed fry through unit 3 (33 meters). The upper limit of distribution was not determined; a fish presence/absence survey was not conducted.

A potential barrier was noted at unit 11 (84 meters).

Spawning gravel was low.
Little North Fk Trib A (North Fk Nehalem Winter - 2004)

PERCENT GRAVEL

ELEVATION (meters)

DISTANCE (meters)

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800

100
0

PERCENT BEDROCK

ELEVATION (meters)

DISTANCE (meters)

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800

100
0

Little North Fk Trib A (North Fk Nehalem Winter - 2004)
Little North Fk Trib A (North Fk Nehalem Winter - 2004)

**NUMBER OF BOULDERS** (running average per 100 m.)

**POOLS GREATER THAN OR EQUAL TO 0.5 METERS DEEP**

**DEPTH (meters)**
OREGON DEPARTMENT OF FISH AND WILDLIFE LITTLE NORTH FORK NEHALEM TRIBUTARY A
HABITAT INVENTORY  Report Date:  2/13/2007  Survey Date:  3/17/2004

REACH 1  T05N-R08W-S30NE  REACH 1

Valley and Channel Summary

<table>
<thead>
<tr>
<th>Valley Characteristics (Percent Reach Length)</th>
<th>Narrow Valley Floor</th>
<th>Broad Valley Floor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steep V-shape</td>
<td>0%</td>
<td>Constraining Terraces 0%</td>
</tr>
<tr>
<td>Moderate V-shape</td>
<td>100%</td>
<td>Multiple Terraces 0%</td>
</tr>
<tr>
<td>Open V-shape</td>
<td>0%</td>
<td>Wide Floodplain 0%</td>
</tr>
<tr>
<td>Valley Width Index</td>
<td>3.0</td>
<td>VWI Range: 1.5 - 5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Morphology (Percent Reach Length)</th>
<th>Constrained</th>
<th>Unconstrained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hillslope</td>
<td>100%</td>
<td>Single Channel 0%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>0%</td>
<td>Multiple Channel 0%</td>
</tr>
<tr>
<td>Terrace</td>
<td>0%</td>
<td>Braided Channel 0%</td>
</tr>
<tr>
<td>Alt. Terrace/Hill</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Landuse</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Characteristics</th>
<th></th>
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<tbody>
<tr>
<td>Type</td>
<td>Length (m)</td>
</tr>
<tr>
<td>Primary</td>
<td>382</td>
</tr>
<tr>
<td>Secondary</td>
<td>29</td>
</tr>
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<table>
<thead>
<tr>
<th>Channel Dimensions (m)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetted</td>
<td>Active</td>
</tr>
<tr>
<td>Width:</td>
<td>2.7</td>
</tr>
<tr>
<td>Depth:</td>
<td>0.23</td>
</tr>
<tr>
<td>W:D ratio:</td>
<td>25.8</td>
</tr>
<tr>
<td>Stream Flow Type:</td>
<td>LF</td>
</tr>
<tr>
<td>Average Unit Gradient:</td>
<td>5.5%</td>
</tr>
<tr>
<td>Water temperature (°C):</td>
<td>8.0 - 8.0</td>
</tr>
<tr>
<td>Entrenchment (ACW:FPW ratio):</td>
<td>1.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Riparian, Bank, and Wood Summary</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Land Use:</td>
<td>ST</td>
</tr>
<tr>
<td>Riparian Vegetation:</td>
<td>C15</td>
</tr>
<tr>
<td>Bank Condition and Shade</td>
<td>Bank Status Percent Reach Length Shade (% of 180)</td>
</tr>
<tr>
<td>Actively Eroding:</td>
<td>3%</td>
</tr>
<tr>
<td>Undercut Banks:</td>
<td>11%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Large Wood Debris</th>
<th>Total</th>
<th>Total / 100m primary channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>All pieces (&gt;=3m x 0.15m):</td>
<td>30</td>
<td>7.9</td>
</tr>
<tr>
<td>Volume (m³):</td>
<td>65</td>
<td>17.1</td>
</tr>
<tr>
<td>Key pieces (&gt;=12m x 0.60m):</td>
<td>3</td>
<td>0.8</td>
</tr>
</tbody>
</table>
## HABITAT INVENTORY

**OREGON DEPARTMENT OF FISH AND WILDLIFE**
**LITTLE NORTH FORK NEHALEM TRIBUTARY A**

**REACH 1**
**T05N-R08W-S30NE**

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### HABITAT DETAIL

<table>
<thead>
<tr>
<th>Habitat Type</th>
<th>Number</th>
<th>Total Units</th>
<th>Total Length (m)</th>
<th>Avg Width (m)</th>
<th>Total Avg Depth (m)</th>
<th>Large Boulders (#&gt;0.5m)</th>
<th>Substrate</th>
<th>Percent Wetted Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>POOL-LATERAL SCOUR</td>
<td>9</td>
<td>57</td>
<td>2.6</td>
<td>0.44</td>
<td>147</td>
<td>2</td>
<td>3</td>
<td>9</td>
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<tr>
<td>POOL-PLUNGE</td>
<td>2</td>
<td>6</td>
<td>6.3</td>
<td>0.65</td>
<td>38</td>
<td>2</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>PUDDLED UNIT</td>
<td>1</td>
<td>8</td>
<td>2.0</td>
<td>0.01</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>RAPID/BOULDERS</td>
<td>13</td>
<td>299</td>
<td>2.0</td>
<td>0.09</td>
<td>608</td>
<td>18</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>RIFFLE</td>
<td>2</td>
<td>38</td>
<td>1.6</td>
<td>0.10</td>
<td>62</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>STEP/COBBLE</td>
<td>1</td>
<td>2</td>
<td>5.0</td>
<td>0.10</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>STEP/LOG</td>
<td>2</td>
<td>1</td>
<td>4.5</td>
<td>0.10</td>
<td>6</td>
<td>0</td>
<td>3</td>
<td>18</td>
</tr>
</tbody>
</table>

**Total:**
- Total Units: 30
- Total Length: 411 m
- Avg Width: 2.7 m
- Total Avg Depth: 888 m
- Large Boulders: 22
- Avg Percent Wetted Area: 48%

### HABITAT SUMMARY

<table>
<thead>
<tr>
<th>Habitat Group</th>
<th>Number</th>
<th>Total Units</th>
<th>Total Length (m)</th>
<th>Avg Width (m)</th>
<th>Total Avg Depth (m)</th>
<th>Wetted Area (m²)</th>
<th>Large Boulders (Number / 100m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dammed &amp; BW Pools</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0 / 0.0</td>
</tr>
<tr>
<td>Scour Pools</td>
<td>11</td>
<td>63</td>
<td>3.3</td>
<td>0.48</td>
<td>185</td>
<td>20.8%</td>
<td>4 / 2.2</td>
</tr>
<tr>
<td>Glides</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>0 / 0.0</td>
</tr>
<tr>
<td>Riffles</td>
<td>2</td>
<td>38</td>
<td>1.6</td>
<td>0.10</td>
<td>62</td>
<td>6.97%</td>
<td>0 / 0.0</td>
</tr>
<tr>
<td>Rapids</td>
<td>13</td>
<td>299</td>
<td>2.0</td>
<td>0.09</td>
<td>608</td>
<td>68.40%</td>
<td>18 / 3.0</td>
</tr>
<tr>
<td>Cascades</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>0 / 0.0</td>
</tr>
<tr>
<td>Step/Falls</td>
<td>3</td>
<td>3</td>
<td>4.7</td>
<td>0.10</td>
<td>17</td>
<td>1.89%</td>
<td>0 / 0.0</td>
</tr>
<tr>
<td>Dry</td>
<td>1</td>
<td>8</td>
<td>2.0</td>
<td>0.01</td>
<td>17</td>
<td>1.89%</td>
<td>0 / 0.0</td>
</tr>
<tr>
<td>Culverts</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
<td>0 / 0.0</td>
</tr>
</tbody>
</table>

### POOL SUMMARY

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th># / Km</th>
<th>Primary Channel Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Pools:</td>
<td>11</td>
<td>26.8</td>
<td>28.8</td>
</tr>
<tr>
<td>Pools &gt;=1m deep:</td>
<td>0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Complex pools (LWD pieces&gt;=3):</td>
<td>1</td>
<td>2.4</td>
<td>2.6</td>
</tr>
<tr>
<td>Pool frequency (channel widths/pool):</td>
<td>5.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual pool depth (avg):</td>
<td>0.39</td>
<td></td>
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</tbody>
</table>
### STREAM SUMMARY

<table>
<thead>
<tr>
<th>Number Units</th>
<th>Total Length (m)</th>
<th>Avg Width (m)</th>
<th>Avg Depth (m)</th>
<th>Total Wetted Area (m²)</th>
<th>Substrate Percent Wetted Area</th>
<th>Large Boulders (#&gt;0.5m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>S/O</td>
<td>Snd</td>
</tr>
<tr>
<td>30</td>
<td>411</td>
<td>2.7</td>
<td>0.23</td>
<td>888</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

### Habitat Group

<table>
<thead>
<tr>
<th>Habitat Group</th>
<th>Wetted Area (m²)</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dammed &amp; BW Pools</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Scour Pools</td>
<td>185</td>
<td>20.84%</td>
</tr>
<tr>
<td>Glides</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Riffles</td>
<td>62</td>
<td>6.97%</td>
</tr>
<tr>
<td>Rapids</td>
<td>608</td>
<td>68.40%</td>
</tr>
<tr>
<td>Cascades</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Step/Falls</td>
<td>17</td>
<td>1.89%</td>
</tr>
<tr>
<td>Dry</td>
<td>17</td>
<td>1.89%</td>
</tr>
<tr>
<td>Culverts</td>
<td>0</td>
<td>0.00%</td>
</tr>
</tbody>
</table>
## Summary of Riparian Zone (0-30m) transects

Total hardwoods/1000 ft: 0
Total conifers/1000 ft: 1402
Total conifers >20" dbh/1000 ft: 0
Total conifers >35" dbh/1000 ft: 0

### Average number of trees in a 5-meter wide band

<table>
<thead>
<tr>
<th>Diameter class (cm)</th>
<th>Zone 1 0-10 meters</th>
<th>Zone 2 10 - 20 meters</th>
<th>Zone 3 20 - 30 meters</th>
<th>Zones 1-3 0-30 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conifer</td>
<td>Hardwood</td>
<td>Conifer</td>
<td>Hardwood</td>
</tr>
<tr>
<td>3-15cm</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>15-30cm</td>
<td>5.0</td>
<td>0.0</td>
<td>4.0</td>
<td>0.0</td>
</tr>
<tr>
<td>30-50cm</td>
<td>1.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
</tr>
<tr>
<td>50-90cm</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>&gt;90cm</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Total/100m²</td>
<td>8.0</td>
<td>0.0</td>
<td>7.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

### Canopy closure and ground cover

<table>
<thead>
<tr>
<th></th>
<th>Zone 1 0-10 meters</th>
<th>Zone 2 10 - 20 meters</th>
<th>Zone 3 20 - 30 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopy closure</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
</tr>
<tr>
<td>Shrub cover</td>
<td>83</td>
<td>83</td>
<td>88</td>
</tr>
<tr>
<td>Grass/forb cover</td>
<td>75</td>
<td>80</td>
<td>80</td>
</tr>
</tbody>
</table>

### Predominant landform in each zone

<table>
<thead>
<tr>
<th></th>
<th>Zone 1 0-10 meters</th>
<th>Zone 2 10 - 20 meters</th>
<th>Zone 3 20 - 30 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hillslope</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
</tr>
<tr>
<td>High terrace</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Low terrace</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Floodplain</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Wetland/meadow</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Stream channel</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Roadbed/Railroad</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Riprap</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Surface slope (%)</td>
<td>43</td>
<td>40</td>
<td>43</td>
</tr>
</tbody>
</table>
Summary of Riparian Zone (0-30m) for all reaches

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

<table>
<thead>
<tr>
<th></th>
<th>Total hardwoods/1000</th>
<th>Total conifers/1000 ft</th>
<th>Total conifers &gt;20&quot; dbh/1000 ft</th>
<th>Total conifers &gt;35&quot; dbh/1000 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>1402</td>
<td>0</td>
<td>0</td>
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</table>

Average number of trees in a 5-m wide band

<table>
<thead>
<tr>
<th>Diameter class (cm)</th>
<th>Zones 1-3 0-30 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conifer</td>
</tr>
<tr>
<td>3-15cm</td>
<td>2.0</td>
</tr>
<tr>
<td>15-30cm</td>
<td>13.0</td>
</tr>
<tr>
<td>30-50cm</td>
<td>8.0</td>
</tr>
<tr>
<td>50-90cm</td>
<td>0.0</td>
</tr>
<tr>
<td>&gt;90cm</td>
<td>0.0</td>
</tr>
</tbody>
</table>
### RIPARIAN ZONE VEGETATION

#### Reach 1

<table>
<thead>
<tr>
<th>Unit</th>
<th>Side</th>
<th>Zone</th>
<th>Surface</th>
<th>Slope</th>
<th>Canopy</th>
<th>Shrub</th>
<th>Grass</th>
<th>Diameter class (cm)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>LF</td>
<td>1</td>
<td>HS</td>
<td>80</td>
<td>85</td>
<td>10</td>
<td>70</td>
<td>3-15</td>
<td>2</td>
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<tr>
<td>10</td>
<td>LF</td>
<td>2</td>
<td>HS</td>
<td>65</td>
<td>80</td>
<td>5</td>
<td>85</td>
<td>15-30</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>LF</td>
<td>3</td>
<td>HS</td>
<td>70</td>
<td>85</td>
<td>5</td>
<td>80</td>
<td>30-50</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>RT</td>
<td>1</td>
<td>HS</td>
<td>5</td>
<td>80</td>
<td>20</td>
<td>80</td>
<td>50-90</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>RT</td>
<td>2</td>
<td>HS</td>
<td>15</td>
<td>85</td>
<td>25</td>
<td>75</td>
<td>&gt;90</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>RT</td>
<td>3</td>
<td>HS</td>
<td>15</td>
<td>90</td>
<td>20</td>
<td>80</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Cover (percent)**: Grass, Canopy, Shrub, Grass

**Diameter class (cm)**: 3-15, 15-30, 30-50, 50-90, >90

**Notes**: 10T0444433, 5082391 2D, 10T0444433 5082391 2D
<table>
<thead>
<tr>
<th>REACH</th>
<th>UNIT#</th>
<th>TYPE</th>
<th>CHAN</th>
<th>DIST.(m)</th>
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