

REACH 1

T24S-R03W-S16NW

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 | 0% |
| Moderate V-shape | 0% | Multiple Terraces | 100% |
| 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 | 100% |
| Bedrock | 0% | Multiple Channel | 0% |
| Terrace | 0% | 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 | 519 | 3,411 | 0 |
| Secondary | 7 | 5 | 0 |

Channel Dimensions (m)

| <u>Wetted</u> | | <u>Active</u> | | <u>Floodprone</u> | <u>First Terrace</u> |
|---------------------|------|---------------------|------|-------------------|----------------------|
| Width | 6.0 | Width | 9.6 | 21.8 | 24.4 |
| Depth | 0.43 | Height | 0.3 | 0.7 | 1.3 |
| | | W:D ratio | 28.9 | Entrenchment | 2.3 |
| Stream Flow Type: | LF | Water temp (C): | | 15.0 - 15.0 | |
| Avg. Unit Gradient: | 1.1% | Habitat Units/100m: | | 5.8 | |

Riparian, Bank, and Wood Summary

| | <u>Primary</u> | <u>Secondary</u> |
|----------------------|----------------|------------------|
| Land Use: | TH | ST |
| Riparian Vegetation: | D15 | G |

Bank Condition and Shade

| <u>Bank Status</u> | <u>Percent Reach Length</u> | <u>Shade (% of 180)</u> |
|--------------------|-----------------------------|-------------------------|
| Actively Eroding: | 10% | Reach avg: 89% |
| Undercut Banks: | 12% | Range: 53 - 100 |

Large Wood Debris

| | <u>Total</u> | <u>Total / 100m</u> |
|-----------------------------|--------------|---------------------|
| All pieces (>=3m x 0.15m): | 87 | 16.8 |
| Volume (m ³): | 342 | 65.8 |
| Key pieces (>=10m x 0.60m): | 32 | 6.2 |

OREGON DEPARTMENT OF FISH AND WILDLIFE

COON CREEK POST-TX (UMP-131)

HABITAT INVENTORY

Report Date: 3/17/03

Survey Date:

7/31/02

| REACH 1 | | T24S-R03W-S16NW | | | | | 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/BEDROCK | 1 | 3 | 1.3 | 0.02 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | |
| CASCADE/BOULDERS | 1 | 4 | 0.3 | 0.05 | 1 | 0 | 50 | 30 | 20 | 0 | 0 | 0 | |
| POOL-LATERAL SCOUR | 13 | 286 | 6.7 | 0.79 | 1,974 | 9 | 21 | 47 | 16 | 11 | 5 | 1 | |
| RAPID/BOULDERS | 5 | 79 | 4.5 | 0.16 | 400 | 2 | 0 | 14 | 34 | 50 | 2 | 0 | |
| RIFFLE | 6 | 108 | 6.4 | 0.16 | 670 | 7 | 0 | 22 | 47 | 32 | 0 | 0 | |
| RIFFLE W/ POCKETS | 1 | 25 | 7.9 | 0.20 | 198 | 3 | 10 | 50 | 30 | 10 | 0 | 0 | |
| STEP/COBBLE | 3 | 22 | 7.4 | 0.15 | 168 | 6 | 0 | 19 | 36 | 29 | 9 | 6 | |
| Total: | 30 | 526 | 6.0 | 0.43 | 3,416 | 27 | Avg 11 | 32 | 27 | 23 | 3 | 4 | |

| 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 | 286 | 6.7 | 0.79 | 1,974 | 57.80% | 9 | 0.5 |
| Glides | 0 | 0 | | | 0 | 0.00% | 0 | 0.0 |
| Riffles | 7 | 133 | 6.6 | 0.16 | 868 | 25.41% | 10 | 1.2 |
| Rapids | 5 | 79 | 4.5 | 0.16 | 400 | 11.71% | 2 | 0.5 |
| Cascades | 2 | 7 | 0.8 | 0.04 | 5 | 0.16% | 0 | 0.0 |
| Step/Falls | 3 | 22 | 7.4 | 0.15 | 168 | 4.93% | 6 | 3.6 |
| Dry | 0 | 0 | | | 0 | 0.00% | 0 | 0.0 |
| Culverts | 0 | 0 | | | 0 | 0.00% | 0 | 0.0 |

| POOL SUMMARY | | |
|---------------------------------------|--------------|---------------|
| | <u>Total</u> | <u># / Km</u> |
| All Pools: | 13 | 25.0 |
| Pools >=1m deep: | 2 | 3.9 |
| Complex pools (LWD pieces>=3): | 10 | 19.3 |
| Pool frequency (channel widths/pool): | 4.2 | |
| Residual pool depth (avg): | 0.62 | |

RIPARIAN ZONE VEGETATION SUMMARY

REACH 1 **REACH 1**

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

| | |
|---------------------------------|------|
| Total hardwoods/1000 | 1504 |
| Total conifers/1000 ft | 81 |
| Total conifers >20" dbh/1000 ft | 0 |
| Total conifers >35" dbh/1000 ft | 0 |

Average number of trees in a 5-meter wide band

| Diameter class (cm) | Zone 1 0-10 meters | | Zone 2 10 - 20 meters | | Zone 3 20 - 30 meters | | Zones 1-3 0-30 meters | |
|---------------------|-----------------------|----------|--------------------------|----------|--------------------------|----------|--------------------------|----------|
| | Conifer | Hardwood | Conifer | Hardwood | Conifer | Hardwood | Conifer | Hardwood |
| 3-15cm | 0.3 | 4.7 | 0.0 | 4.0 | 0.0 | 6.3 | 0.3 | 15.0 |
| 15-30cm | 0.0 | 3.0 | 0.0 | 1.7 | 0.0 | 1.3 | 0.0 | 6.0 |
| 30-50cm | 0.3 | 0.3 | 0.3 | 1.7 | 0.3 | 1.3 | 1.0 | 3.3 |
| 50-90cm | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| >90cm | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 |
| Total/100m2 | 0.7 | 8.0 | 0.3 | 7.3 | 0.3 | 9.3 | 0.4 | 8.2 |

Canopy closure and ground cover

| | Zone 1 0-10 meters (%) | Zone 2 10 - 20 meters (%) | Zone 3 20 - 30 meters (%) |
|------------------|------------------------------|---------------------------------|---------------------------------|
| Canopy closure | 82 | 78 | 73 |
| Shrub cover | 52 | 55 | 60 |
| Grass/forb cover | 48 | 28 | 23 |

Predominant landform in each zone

| | Zone 1 0-10 meters (%) | Zone 2 10 - 20 meters (%) | Zone 3 20 - 30 meters (%) |
|-------------------|------------------------------|---------------------------------|---------------------------------|
| Hillslope | 33 | 33 | 33 |
| High terrace | 17 | 50 | 67 |
| Low terrace | 50 | 17 | 0 |
| Floodplain | 0 | 0 | 0 |
| Wetland/meadow | 0 | 0 | 0 |
| Stream channel | 0 | 0 | 0 |
| Roadbed/Railroad | 0 | 0 | 0 |
| Riprap | 0 | 0 | 0 |
| Surface slope (%) | 15 | 18 | 12 |

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 | |
| 9 | LF | 1 | HS | 40 | 80 | 10 | 90 | Conifer | | | | 1 | | |
| | | | | | | | | Hardwood | 2 | 2 | | | | |
| 9 | LF | 2 | HS | 70 | 100 | 30 | 70 | Conifer | | | | 1 | | |
| | | | | | | | | Hardwood | | 3 | 3 | | | |
| 9 | LF | 3 | HS | 40 | 100 | 30 | 70 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 1 | 2 | 2 | | | |
| 9 | RT | 1 | HT | 0 | 90 | 80 | 20 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 4 | 3 | | | | |
| 9 | RT | 2 | HT | 0 | 90 | 80 | 20 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 3 | | 1 | | | |
| 9 | RT | 3 | HT | 0 | 100 | 60 | 40 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 12 | 2 | 2 | | | |
| 19 | LF | 1 | HS | 50 | 90 | 60 | 40 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 2 | 1 | 1 | | | |
| 19 | LF | 2 | HS | 40 | 0 | 0 | 0 | Conifer | | | | | | CLEARCUT |
| | | | | | | | | Hardwood | | | | | | |
| 19 | LF | 3 | HS | 30 | 0 | 0 | 0 | Conifer | | | | | | CLEARCUT |
| | | | | | | | | Hardwood | | | | | | |
| 19 | RT | 1 | LT | 0 | 100 | 70 | 30 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 2 | | | | | |
| 19 | RT | 2 | HT | 0 | 100 | 70 | 30 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 5 | 1 | | | | |
| 19 | RT | 3 | HT | 0 | 100 | 100 | 0 | Conifer | | | | | | MAPLE |
| | | | | | | | | Hardwood | 3 | | | | 1 | |
| 25 | LF | 1 | LT | 0 | 30 | 0 | 100 | Conifer | 1 | | | | | |
| | | | | | | | | Hardwood | | | | | | |
| 25 | LF | 2 | HT | 0 | 80 | 50 | 50 | Conifer | | | | | | |
| | | | | | | | | Hardwood | | 1 | 1 | | | |
| 25 | LF | 3 | HT | 0 | 50 | 90 | 10 | Conifer | | | | 1 | | |
| | | | | | | | | Hardwood | 3 | | | | | |
| 25 | RT | 1 | LT | 0 | 100 | 90 | 10 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 4 | 3 | | | | |
| 25 | RT | 2 | LT | 0 | 100 | 100 | 0 | Conifer | | | | | | |
| | | | | | | | | Hardwood | 4 | | | | | |
| 25 | RT | 3 | HT | 0 | 90 | 80 | 20 | Conifer | | | | | | |
| | | | | | | | | Hardwood | | | | | | |

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: **4-UMP** SITE ID: **131** **COON CREEK POST-TX (UMP-131)**

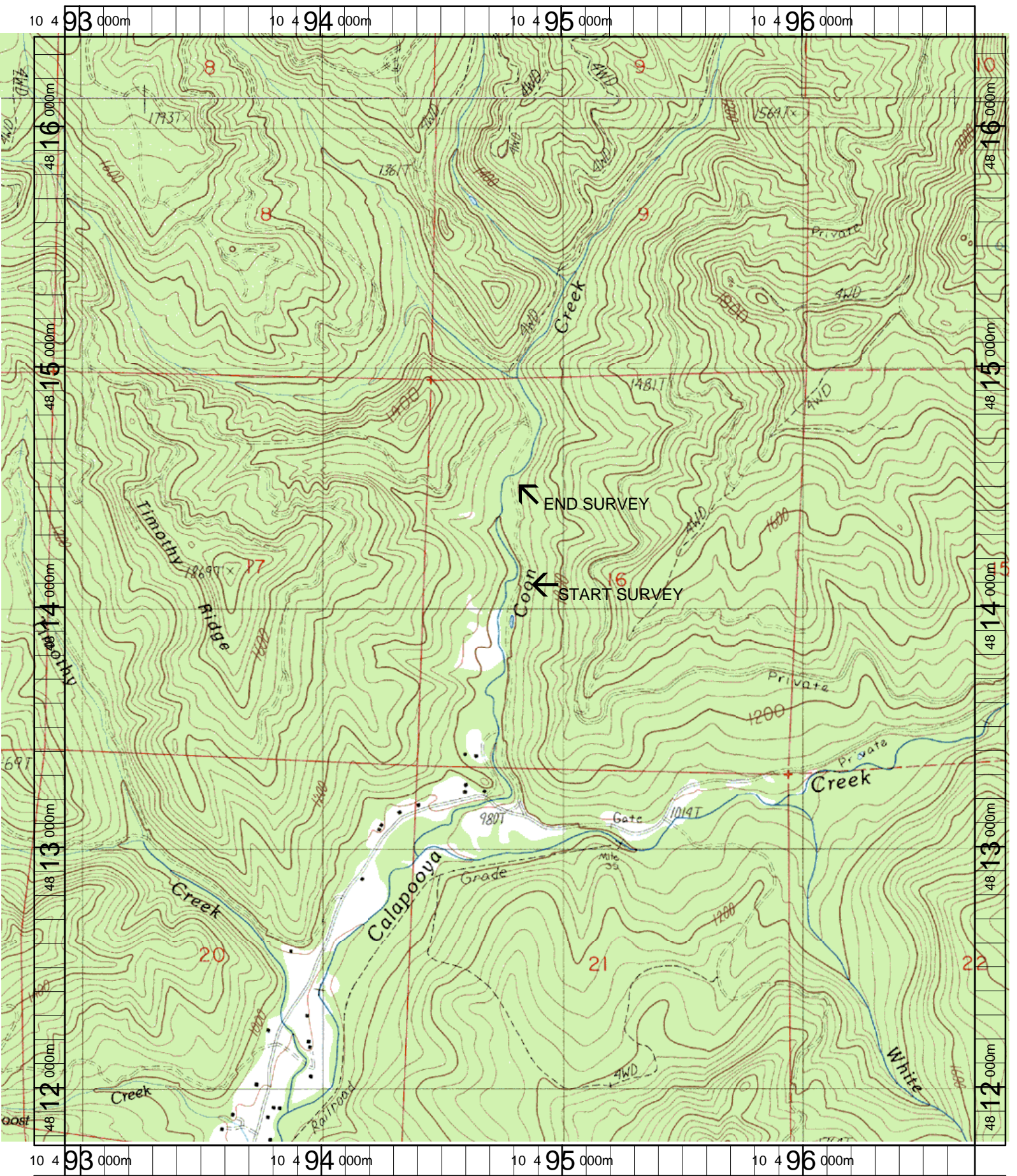
| <u>UNIT#</u> | <u>TYPE</u> | <u>CHAN</u> | <u>DIST. (m)</u> | <u>COMMENTS</u> | <u>NOTE ESTIMATOR</u> | <u>NOTE NUMERATOR</u> |
|--------------|-------------|-------------|------------------|-----------------|-----------------------|-----------------------|
| 1 | RB | 00 | 11.8 | | START | START SURVEY |
| 2 | LP | 00 | 30.8 | HS | T=15C | |
| 3 | RB | 00 | 43.2 | | | FISH |
| 4 | LP | 00 | 67.6 | HS | | |
| 5 | RI | 00 | 81.9 | BV | | |
| 6 | LP | 00 | 95.8 | | BV | |
| 7 | SC | 00 | 104.5 | HS | | FISH |
| 8 | RI | 00 | 117.9 | HS,BV | | |
| 9 | RP | 01 | 142.9 | RF, /TJ,HS | /TJ, BV | |
| 10 | CB | 11 | 142.9 | | ACW=1.2, T=12C | TRIB UNIT T=12C |
| 11 | LP | 00 | 154.2 | HS,BV | DEER TRACKS | |
| 12 | SC | 00 | 160.8 | WL | | CHIPMUNK |
| 13 | LP | 00 | 189.1 | BV,HS | BV | FISH |
| 16 | RB | 00 | 252.3 | HS | | |
| 17 | LP | 01 | 283.6 | TJ/ | TJ/ | FISH |
| 18 | CR | 11 | 283.6 | | | TRIB UNIT |
| 19 | RI | 00 | 308.6 | | RIP#2 | RIP#2 |
| 20 | LP | 00 | 321.9 | HS | WATCH OUT FOR BEES | |
| 23 | RB | 00 | 366.8 | | | FISH |
| 24 | LP | 00 | 397.8 | HS | | |
| 25 | RB | 00 | 418.1 | | RIP#3 | |

Comment Summary

Oregon Plan Monitoring Sites 2002

MONITORING AREA: 4-UMP SITE ID: 131 COON CREEK POST-TX (UMP-131)

| <u>UNIT#</u> | <u>TYPE</u> | <u>CHAN</u> | <u>DIST. (m)</u> | <u>COMMENTS</u> | <u>NOTE ESTIMATOR</u> | <u>NOTE NUMERATOR</u> |
|--------------|-------------|-------------|------------------|-----------------|-----------------------|-----------------------|
| 26 | LP | 00 | 442.9 | BV,HS,DJ | BV | |
| 27 | RI | 00 | 459.2 | | | FISH |
| 28 | LP | 00 | 476.4 | HS | | |
| 29 | RI | 00 | 492.5 | BV, HS | | |
| 30 | LP | 00 | 519 | HS | END SURVEY | END SURVEY |



Name: HINKLE CREEK
 Date: 3/20/2003
 Scale: 1 inch equals 1666 feet

Location: 10 494822 E 4814069 N
 Caption: COON CREEK RESTORATION SITE - CALAPOOYA BASIN