## **FINAL Meeting Notes**

# Lewis River License Implementation Terrestrial Coordination Committee (TCC) Meeting June 14, 2006 Ariel, WA

## **TCC Participants Present: (10)**

Brock Applegate, WDFW
Joe Hiss, USFWS
Eric Holman, WDFW
LouEllyn Jones, USFWS
Diana MacDonald, Cowlitz PUD
Kimberly McCune, PacifiCorp Energy
Colleen McShane, EDAW, Inc. (via teleconference 3:00pm – 5:00pm)
Bob Nelson, Rocky Mountain Elk Foundation
Kirk Naylor, PacifiCorp Energy
Todd Olson, PacifiCorp Energy

## Calendar:

| June 23, 2006 | ACC Meeting – Cle Elum Hatchery site visit | Cle Elum, WA |
|---------------|--|--------------|
| July 12, 2006 | TCC Meeting                                | Merwin Hydro |
| July 13, 2006 | ACC Meeting                                | Merwin Hydro |

| Assignments from June 14th Meeting:   |                    |
|---|--------------------|
| Naylor: Add the additional owl circle West of the Yale to the map, and revise   | Complete – 6/22/06 |
| lands west of Swift Creek and within the 2-mile buffer. Present the revised     |                    |
| version to the TCC for review (specifically Township 7N, Range 5E, Sections 20, |                    |
| 29 & 30).   |                    |
| Naylor: Email revised version of Consideration for Tree Harvest Activities      | Complete – 6/16/06 |
| document to TCC for review and approval.  |                    |
| McCune: Scan and email the Objective k documents to the TCC for review.         | Complete - 6/15/06 |
| McCune: Request citations for documents from Mitch Wainwright (USDA             | Complete - 6/15/06 |
| Forest Service) and email to Colleen McShane (EDAW).                            |                    |

| Assignments from May 30th Meeting:   |                          |
|--|--------------------------|
| McCune: Mail final Conservation Easement 4/28/06 Meeting Notes to Eric     | Complete - 5/31/06       |
| Holman.  |                          |
| McCune: Distribute modified Lewis River Wildlife Management Lands          | Complete – 6/14/06       |
| maps to TCC for review and approval.                                       |                          |
| McShane: Add WDFW requested objectives $(h - k)$ , with suggested edits in | <b>Complete</b> – 6/4/06 |
| raptor section of WHMP S&G document for TCC review and approval.           |                          |
| McShane: Add objective in WHMP S&G document, Public Access section         | Complete - 6/4/06        |
| which addresses the topic of number nineteen in WDFW's Considerations      |                          |
| for Tree Harvest Activities - Maintain permanent, big game concealment     |                          |

| zone buffers along public roads.                                       |                          |
|--|--------------------------|
| McShane: Add text at the end of the WHMP S&G document to include the   | <b>Complete – 6/4/06</b> |
| Considerations for Tree Harvest Activities.                            |                          |
| Naylor: Make changes to Considerations for Tree Harvest Activities     | Complete - 6/16/06       |
| document (Attachment B) and submit to TCC for review and approval.     |                          |
| Hiss: Revise draft PacifiCorp Energy lands and proposed owl management | Complete - 6/14/06       |
| areas map to include Cowlitz PUD for the administrative record.        |                          |

| Parking lot items from February 10 <sup>th</sup> Meeting:       |  |
|---|--|
| Exhibit B – Settlement Agreement Maps (exclusion vs. secondary) | Complete – changes<br>were made per TCC<br>4/28/06 |
| PacifiCorp WHMP Budget (annual)                                 |  |
| Conservation Agreement – what is wanted?                        | Ongoing - 4/28/06                                  |

| Parking lot items from January 9th Meeting:                               |                           |
|---|---------------------------|
| Footnote: Mass wasting  |                           |
| Naylor: Section 4.2.4 – Further mapping activity and check effects of new | Pending BiOp              |
| objective for raptors   |                           |
| Spotted owl – Modifications needed to Section 4.2.4 Objectives h & i      | <b>Complete – 1/11/06</b> |
| Applegate: Guidelines for Tree Harvest Activities, TCC Approval           | Complete - 5/30/06        |

The TCC meeting first consisted of a site visit to Devil's Backbone from 9:30am – 2:30pm, courtesy of the Cowlitz PUD and Meridian Environmental, Inc, consultant to the PUD. Attached as an addendum to these meeting notes is the Site Visit Agenda and related maps.

## Opening, Review of Agenda, Finalize Meeting Notes

Kirk Naylor (PacifiCorp Energy) called the meeting to order at 2:45pm. Naylor reviewed the Agenda with the TCC and asked if there were any additions or changes to the Agenda. The TCC did not have requested changes.

Naylor asked the TCC if they have any changes to the Draft 5/30/06 Meeting Notes. LouEllyn Jones (USFWS) requested the removal of the following parking lot item from the meeting notes:

| Parking lot items from February 10 <sup>th</sup> Meeting:            |  |
|--|--|
| Jones: Further discussion regarding Monitoring (species vs. habitat) |  |

The TCC 5/30/06 Meeting Notes were approved at 2:50pm with the above-requested changes.

Naylor asked the TCC if they have any changes to the Draft 5/30/06 Conservation Easement Meeting Notes. The discussion on the Conservation Easement meeting notes is confidential and proprietary and not for public viewing. The TCC approved the Conservation Easement Meeting Notes without any changes at 3:00pm.

## Northern Spotted Owl (NSO) Management Circles Discussion

Naylor reviewed the NSO map with the TCC attendees. He identified the Spotted Owl Special Emphasis Area (SOSEA), the 2-mile buffer to the SOSEA, and PacifiCorp Energy and Cowlitz PUD lands within the owl circles. Naylor informed the TCC that the map he is presenting is a larger version of the map provided by Joe Hiss (USFWS).

Naylor also reviewed PacifiCorp Energy land parcels inside the SOSEA. PacifiCorp Energy owns approximately 640 acres inside the SOSEA; however, the Swift dam is also included in the SOSEA acreage calculation. There was discussion and acknowledgement by some TCC members of the DNR lands identified as SOSEA on the north side of Swift Dam and reservoir.

The TCC agreed that there is an additional spotted owl circle on the west side of Yale that encompasses Utility lands. In addition, the TCC acknowledged how NSO habitat areas may or may not affect land acquisition decisions.

Naylor will add the additional owl circle west of the Yale to the map, and adjust the 2-mile SOSEA buffer on lands west of Swift Creek. The revised version will be presented to the TCC for review.

## WHMP Standards & Guidelines Document Discussion

#### 4.2 RAPTOR SITE MANAGEMENT – SPOTTED OWL

Modify the first and second bullets on page 51 to read as follows:

- For SOSEAs, critical spotted owl habitat is defined as the area "within a median home range circle that is that is centered within the SOSEA or on adjacent federal lands" (WAC 222-16-080; see Exhibit F). For SOSEAs in the Cascades, a total of 2,605 acres (1,054 ha) of suitable habitat within 1.8 miles (2.9 km) of a status 1-3 Management Circle, including all suitable habitat within 0.7 mile (1.1 km) of the center, is assumed to necessary to maintain the viability of the owls associated with the circle (WAC 222-10-041; see Exhibit F). There is, however, an exemption for small parcels of private timberlands within SOSEAs: Forest practices proposed on lands owned or controlled by a landowner whose forest land ownership within the SOSEA is less than or equal to 500 acres and where the forest practice is not within 0.7 mile (1.1 km) of a northern spotted owl site center shall not be considered to be on lands designated as critical habitat (state) for northern spotted owls (WAC 222-16-080; see Exhibit F).
- Outside SOSEAs, critical spotted owl habitat is defined as "the 70 acres (28 ha) of the highest quality habitat surrounding a northern spotted owl site center located outside a SOSEA. The highest quality suitable habitat shall be determined by the DNR in cooperation with the WDFW. Consideration shall be given to habitat quality, proximity to the activity center and contiguity" (WAC-222-16-080; see Exhibit F). Outside SOSEAs, at least 70 acres (28 ha) of the highest quality habitat around the site center are to be maintained during the nesting season (March 1-August 31) (Pierce et al. 2005, DNR 1997) (WAC 222-10-041 [see Exhibit F]).

Modify all bullets on pages 52 & 53 to read as follows:

- A canopy closure of 60 percent or more and a layered, multi-species canopy where 50 percent or more of the canopy closure is provided by large overstory trees (typically, there should be at least 75 trees/acre >= 20 in. dbh, or at least 35 trees/acre >= 30 in. dbh [185 trees/ha >51 cm dbh or 86 trees/ha >=76 cm dbh]);
- >= 3 snags or trees/acre >= 20 in. dbh and 16 ft tall (7 snags or trees/ha >=51 cm dbh and 5 m tall) and with various deformities such as large cavities, broken tops, dwarf mistletoe infections, and other indications of decadence; and
- $\Rightarrow$  >= 2 fallen trees/acre >= 20 in. dbh (5 fallen trees/ha >= 51 cm dbh) and other woody debris on the ground.

Sub-mature habitat provides all the characteristics need for spotted owls for roosting, foraging, and dispersing and is defined as (WAC 222-16-085; see Exhibit F):

- Forest communities that are conifer-dominated or conifer-hardwood ( $\geq 30$  percent confer);
- Canopy closures that is  $\geq = 70$  percent;
- Tree density between 115 and 280 trees/acre >= 4 in. dbh (284-691/ha >= 10 cm) with dominant and co-dominant trees >=85 ft (26 m) tall, or dominants/codominants >= 85 ft high (26 m) with >= 2 layers and 25-50 percent intermediate trees
- $\Rightarrow$  >= 3 snags or cavity trees/acre >=20 in. dbh and 16 ft high (7.4/ha, 50 cm dbh and 5 m high).

Young forest marginal habitat provides some of the characteristics needed by spotted owls for roosting, foraging and dispersal and is defined as having the following attributes (WAC 222-16-085; see Exhibit F):

- Forest communities that are conifer dominated or conifer-hardwood (>= 30 percent conifer);
- Canopy closure that is  $\geq = 70$  percent;
- Tree density between 115 and 280 trees/acre >= 4 in. dbh (284-691/ha >= 10 cm) with dominant and co-dominant trees >=85 ft (26 m) tall, or dominants/codominants >= 85 ft (26 m) high with >= 2 layers and 25-50 percent intermediate trees;
- > = 2 snags or cavity trees/acres >=20 in. dbh and 16 ft high (7.4/ha, 50 cm dbh) or >= 10 percent of the ground covered with wood >=4 in. (10 cm) diameter with 25-60 percent shrub cover.

## 4.2.4 Raptor Site Management Goal and Objectives

Modify Objectives h, i & j to read as follows:

Objective h: Manage WHMP lands that are > 2 miles (3.2 km) from the Siouxon SOSEA and within Spotted Owl Management Circles (Status 1-3) to maintain at least 50 percent submature habitat or better, as defined by WAC 22-16-085, within the Licensees' ownership in each management circle. In addition, all conifer trees > 21 in. dbh within Spotted Owl Management Circles will be retained unless otherwise determined by the TCC.

Objective i: Over the life of the licenses, manage at least 50 percent of WHMP lands within a 2-mile (3.2 km) buffer outside of the Siouxon SOSEA and directly contiguous with land inside the SOSEA to provide/develop high quality nesting spotted owl habitat, as defined by WAC 222-10-085. Includes WHMP lands in: Township 7 North, Range 5 East, Sections 20, 29, and 30 and Township 6 North, Range 4 East, Sections 21, 28, 31, 32, 33; applies only to WHMP lands in Sections 31 and 32 that are south of the Lewis River.

Objective j: Manage WHMP lands within the SOSEA under Forest Practices, especially WAC 222-16-080 and 222-10-041.

## **Objective k Discussion**

Brock Applegate (WDFW) specifically requested additional time for review of the documents mentioned in Objective k. The TCC agreed that the following objective k shall remain in draft form for the next 7-days pending review of the two (2) referenced documents in the suggested text below:

Objective k: Manage standing live and dead trees along designated trails through WHMP lands to maintain safety based on USDA-FS Long-Range Planning for Developed Sites in the Pacific Northwest: The Context of Hazard Tree Management (Harvey and Hessburg 1992) and Field Guide for Danger Tree Identification and Response (Toupin and Barger 2005). Leave all trees and snags cut for safety reasons as down wood in the forest adjacent to the trail. Leave any large down wood cleared from the trail in the adjacent forest stand.

Kimberly McCune (PacifiCorp Energy) will scan and email the documents to the TCC for review. In addition, McCune will obtain the citations from Mitch Wainwright (USDA Forest Service) and email to Colleen McShane (EDAW).

## 4.3.4 Public Access Management Goal and Objectives

The TCC approved the new Objective g as follows:

**Objective g:** Where needed and feasible, develop and/or maintain buffers along roads open to public vehicles to conceal big game and other wildlife using adjacent habitats.

## **Next Meeting's Agenda**

- Land acquisition update
- Evaluation of shrublands
- Merwin Plan review and site visit

Meeting adjourned at 4:45 pm

## **Next Scheduled Meetings**

July 12, 2006 Merwin Hydro Facility Ariel, WA

## Handouts

- 1. Final Meeting Agenda
- 2. Draft meeting notes from 5/30/06
- 3. Draft Conservation Easement meeting notes from 5/30/06 (CONFIDENTIAL)
- 4. NSO Territory Buffer & SOSEA, as provided by PacifiCorp Energy
- 5. Objective k: Email to Joe Hiss, dated 6/12/06
- 6. Lewis River Wildlife Management Land Maps, as provided by PacifiCorp Energy

## Swift No. 2 Wildlife Habitat Management Plan Site Visit Devil's Backbone & Project Works

Wednesday, June 14, 2006

## Materials for Pre-Field Review and On-Site Discussion

This packet of information includes several items that will be useful in preparing for the field trip to the Swift No. 2 Devil's Backbone and Project Works management units on June 14<sup>th</sup>. It will also be important to have this information with you in the field.

## Item 1. Itinerary

Note that the trip is scheduled to begin in the morning and end in the afternoon: remember to bring lunch.

## Item 2. Draft Management Unit Maps

These two maps (*DevilsBBParcel3.pdf* and *ProjectWorks2.pdf*) provide an overview of Devil's Backbone and Project Works management units.

## Item 3. Draft Site Management Worksheet template

The template shows how the Site Management Worksheets (Item 4) fit into the process of developing and implementing the Wildlife Habitat Management Plan (WHMP). The template shows how the worksheets can be used to:

- compile and present existing information about each site;
- identify management opportunities and constraints;
- link management activities to the baseline HEP and Year 17 HEP:
- link management activities to the goals and objectives outlined in the Standards & Guidelines Document (SGD); and
- plan, track, and report management activities through the license period.

## Item 4. Site Management Worksheets

The Site Management Worksheets will become part of the WHMP. During the site visit, we will use these worksheets to focus our observations and discussions of habitat management at each of the four stops we will make in the Devil's Backbone MU.

You will note that the Management Strategies blocks on the four worksheets are blank.. We would like you to write in the management strategies that you believe would be most effective at each site, given the framework of the SGD, the Settlement Agreement, and the Conservation Easement.

# Swift No. 2 Wildlife Habitat Management Plan Site Visit

Devil's Backbone & Project Works

Wednesday, June 14, 2006 Itinerary

## \*\*\* BRING A LUNCH \*\*\*

\* Bring maps, worksheets, clipboard \*

9:00 am: Meet at Merwin

Introductions and site visit overview

9:45 am: Leave Merwin

10:15 am: Arrive Devil's Backbone Management Unit

Park at the corner of USFS Rd. 90 and the 7902 Rd.

Stop 1: Riparian Deciduous Forest (DBMU-10).

If the gate is unlocked, drive to the following sites (4x4 not necessary, but the road is overgrown and may be hard on your vehicle's paint). If the gate is locked, we will walk.

Stop 2: Palustrine Emergent Marsh (DBMU-11)

Stop 3: Pole Conifer, medium density (DBMU-2)

Stop 4: Pole Conifer, high density (DBMU-2)

2:00 pm: Leave Devil's Backbone Management Unit

2:10 pm Arrive Project Works Management Unit

2:40 pm Leave Project Works Management Unit

3:00 pm: Arrive Merwin

# Site Management Worksheet: Draft Template

| Site ID  |  | Devil's Backbone Management Unit (DBMU) or Project Works Management Unit (PWMU) with alpha-numeric code for each site, corresponding to cover type maps |  |  |                |  |
|--|--|---|--|--|----------------|--|
| Acres  |  |   |  |  |                |  |
| Cover ty   | ре   | Generally from TER-1, b   | out may be me  | odified/updated based on ground  | -truthing.     |  |
| Site Rev   | iew Type   | Source and date of infor Plots)   | mation (e.g.,  | HEP, Aerial Photo Interp, Walk-  | through, Quick |  |
| SGD Ma<br>Goal   | nagement   | From current SGD docu   | ment   |  |                |  |
| SGD Ma<br>Objectiv   | nagement<br>es   | From current SGD docu   | ment   |  |                |  |
| HEP Eva<br>Species<br>HSIs   | aluation<br>and Baseline   | From TER-2 for applicab   | ole models   |  |                |  |
| Analysis   | Species  | From TER-3  |  |  |                |  |
| Site Description  General attributes (slope; over average and range of tree dian |  |   | ee diameters;  | understory, groundcover; tree car<br>spacing; snag abundance; LWD<br>vildlife use; evidence of human u | abundance)     |  |
| Site Cor   | straints   | Any constraints that would limit management activities (e.g., steep slopes, wet soils, location within Conservation Easement boundary).                 |  |  |                |  |
| Access   |  | Nearest roads (or lack there of), gates, notes on condition   |  |  |                |  |
| Manage<br>Strategi   |  |   | To be developed based on SGD Management Goals and Objectives and HSIs, together with site-specific opportunities for habitat protection and enhancement. |  |                |  |
|  |  |   |  | mmended management strategion<br>habitat quality or quantity for oth                                   | •              |  |
| Impleme  | entation   |   |  |  |                |  |
| Year   | Initial Recomm   | nendations  | Estimated Cost   | Implemented Actions  | Actual<br>Cost |  |
| 1  | e.g., conduct snag and LWD inventory; identify weed infestations |   |  | Snag and LWD inventory completed; re-assessment scheduled for Year 10                                  |                |  |
| 2  |  |   |  |  |                |  |
| 3  |  |   |  |  |                |  |
| 4  |  |   |  |  |                |  |
| 5  |  |   |  |  |                |  |
| 10   | e.g., conduct snag inventory; identify weed infestations         |   |  | Create 2 snags/acre  |                |  |
| 10   |  |   |  |  |                |  |

# **Stop 1: Site Management Worksheet**

| Site ID  | DBMU-10   |  |  |  |
|--|---|--|--|--|
| Acres  | 3.1 acres   |  |  |  |
|  |   |  |  |  |
| Cover type                                     | Riparian Deciduous Forest   |  |  |  |
| Site Review Type                               | Visual walk-through 9/1/05  |  |  |  |
| SGD Management Goal                            | <b>Riparian</b> : Protect, maintain, and/or enhance riparian areas to include a diversity of native plant species and vegetation structures to benefit wildlife species that use riparian habitats.   |  |  |  |
| SGD Management<br>Objectives                   | <b>Riparian-a</b> : Identify and establish buffers. <b>Riparian d</b> : Protect existing large snags. <b>Riparian-e</b> : As part of implementation of WHMP, identify riparian sites damaged by anthropogenic processes and prepare restoration plans within 5 yrs., if feasible. |  |  |  |
| HEP Evaluation<br>Species and Baseline<br>HSIs | Pileated woodpecker: 0.32 Mink: Not run in Riparian Deciduous Black-capped chickadee: 0.19 Elk: 0.43 in Unit S-1 Yellow warbler, 0.65   |  |  |  |
| Analysis Species                               | Cascade torrent salamander, papillose tail-dropper  |  |  |  |
| Site Description                               | Red Alder overstory, sparse mid-story shrub and understory forb component, bisected by an unnamed stream. Western Hemlock/Coolwort Foamflower PA, with several old, large-diameter hemlock stumps, but no snags and little LWD.   |  |  |  |
| Site Constraints                               | Possible seasonal flooding  |  |  |  |
| Access   | Good: bordered by USFS 90 Rd on the south.; USFS 1700 Rd. on the east   |  |  |  |
| Management Strategies                          |   |  |  |  |
| Resource Trade-offs                            |   |  |  |  |
| Implementation                                 |   |  |  |  |
| Year Initial Recomm                            | nendations Estimated Implemented Actions Actual Cost Cost   |  |  |  |
|  |   |  |  |  |
|  |   |  |  |  |

# **Stop 2: Site Management Worksheet**

| Site ID                       |   | DBMU-11   |                               |  |                      |  |
|-------------------------------|---|---|-------------------------------|--|----------------------|--|
| Acres                         |   | 6.0 acres   |                               |  |                      |  |
| Cover typ                     | ре  | Palustrine Emergent Marsh   |                               |  |                      |  |
| Review 1                      |   | Visual walk-through 9/1/0   |                               |  |                      |  |
| SGD Man                       | nagement Goal   |   |                               | nhance wetlands to provide a ol, and other wildlife species. | diversity of habitat |  |
| SGD Man<br>Objective          | nagement<br>es  | <b>Wetland-e</b> : Identify and functions.                            | establish bu                  | ffers to maintain and protect w                              | etland habitat and   |  |
| HEP Eval<br>Species a<br>HSIs | luation<br>and Baseline   | Pond-breeding amphibia<br>Mink: No open water<br>Yellow warbler: 0.65 | ns: No open                   | water  |                      |  |
| Analysis                      | Species   | Beaver, great blue heror  | (rookeries),                  | wood duck.   |                      |  |
| Site Desc                     | Sedge and grass wetland with sparse amounts of snowberry and vine maple shrub.  Deciduous forest along edge of wetland transitions to Pole Conifer. Several small-diameter standing snags and small-diameter woody debris. Shrubs show signs of heavy browsing. |   |                               | Several small-   |                      |  |
| Site Cons                     | straints  | None  |                               |  |                      |  |
| Access                        |   | Good. USFS 90 Rd. to 7  | 7092 Rd. (gated) to 7092A Rd. |  |                      |  |
| Management Strategies         |   |   |                               |  |                      |  |
|                               | e Trade-offs  |   |                               |  |                      |  |
| Impleme                       |   |   | Г <u>-</u>                    |  | T .                  |  |
| Year                          | Initial Recommendations   |   | Estimated<br>Cost             | Implemented Actions  | Actual<br>Cost       |  |
|                               |   |   |                               |  |                      |  |
|                               |   |   |                               |  |                      |  |
|                               |   |   |                               |  |                      |  |
|                               |   |   |                               |  |                      |  |
|                               |   |   |                               |  |                      |  |
|                               |   |   |                               |  |                      |  |
|                               | 1   |   | l                             |  |                      |  |

# **Stop 3: Site Management Worksheet**

| Site ID              |   | DBMU-2 (medium stand density area)   |                   |   |                     |
|----------------------|---|--|-------------------|---|---------------------|
| Acres                |   | 104.5  |                   |   |                     |
| Cover ty             | pe  | Pole Conifer   |                   |   |                     |
| Review               | -   | Visual walk-through and 5  | stand density     | quick plots 9/1/05  |                     |
|                      | nagement  | Old-growth: Promote the development, maintenance, and connectivity of old-growth coniferous forest and/or associated habitat components for wildlife species that use old-growth habitat.  |                   |   |                     |
| SGD Ma<br>Objectiv   | nagement<br>es  | Old growth-d: Within 5 years of WHMP implementation, identify and evaluate specific mature conifer stands or other areas that could improve habitat connectivity between old-growth stands or increase number or size of old-growth patches, and develop a schedule to manage/protect these areas as appropriate. Forestland-c: At the MU level, promote habitat diversity by increasing or maintaining minor native tree species composition. |                   |   |                     |
| HEP Eva              |   | Old-growth: Pileated woo   | dpecker: 0.8      | 9 in Old-growth Elk                                       | c: 0.43 in Unit S-1 |
| Species<br>Baseline  |   | Forestland: Pileated woodpecker: 0.18 in Pole Conifer Elk: 0.43 in Unit S-1 Black-capped chickadee: 0.43 in Pole Conifer Savannah sparrow: not run in Pole Conifer   |                   |   |                     |
| Analysis             | Species   | Old-growth: Northern flying squirrel, marten, Larch Mountain salamander, northern spotted owl, bald eagle  Forestland: Northern flying squirrel, northern spotted owl  |                   |   |                     |
| Site Des             | Flat site dominated by Douglas-fir and western hemlock from 8 to 18 in. dbh, with quadratic mean diameter of 11.6 in. Stand age = 35 yrs.; crown closure = 100%; canopy height = 80 ft., trees per acre = 266. Few small-diameter snags, no large diameter snags, moderate LDW. Variable understory; dominated by Oregon graps swordfern. Patchy herbaceous cover includes oxalis, inside-out-flower, bedstraw, vanilla-leaf. |  |                   | closure = 100%;<br>snags, no large<br>by Oregon grape and |                     |
| Site Con             | straints  | None   |                   |   |                     |
| Access               |   | Good: USFS 90 Rd. to 709   | 92Rd (gated)      | 7092A Rd. crosses throu                                   | igh stand.          |
| Managei<br>Strategie |   |  | ,,                |   | -                   |
| Resourc              | e Trade-offs  |  |                   |   |                     |
| Impleme              | entation  |  |                   |   |                     |
| Year                 | Initial Recom   | mendations   | Estimated<br>Cost | Implemented Actions                                       | Actual<br>Cost      |
|                      |   |  |                   |   |                     |
|                      |   |  |                   |   |                     |
|                      |   |  |                   |   |                     |

# **Stop 4: Site Management Worksheet**

| Site ID  | DBMU-B (high stand density area)   |  |  |  |
|--|--|--|--|--|
| Acres  | 104.5  |  |  |  |
| Cover type                                     | Pole Conifer   |  |  |  |
| Review Type                                    |  |  |  |  |
| SGD Management<br>Goals                        | Visual walk-through and 5 stand density quick plots 9/1/05  Old-growth: Promote the development, maintenance, and connectivity of old-growth coniferous forest and/or associated habitat components for wildlife species that use old-growth habitat.  |  |  |  |
| SGD Management<br>Objectives                   | Old growth-d: Within 5 years of WHMP implementation, identify and evaluate specific mature conifer stands or other areas that could improve habitat connectivity between old-growth stands or increase number or size of old-growth patches, and develop a schedule to manage/protect these areas as appropriate. Forestland-c: At the MU level, promote habitat diversity by increasing or maintaining minor native tree species composition.   |  |  |  |
| HEP Evaluation<br>Species and<br>Baseline HSIs | Old-growth: Pileated woodpecker: 0.89  Forestland: Pileated woodpecker: 0.18 in Pole Conifer Black-capped chickadee : 0.43 in Pole Conifer Savannah sparrow: not run in Pole Conifer   |  |  |  |
| Analysis Species                               | Old-growth: Northern flying squirrel, marten, Larch Mountain salamander, northern spotted owl, bald eagle  Forestland: Northern flying squirrel, northern spotted owl  |  |  |  |
| Site Description                               | Flat site dominated by Douglas-fir and western hemlock from 8 to 18 in. dbh, with a quadratic mean diameter of 11.6 in. Stand age = 35 yrs.; crown closure = 100%; canopy height = 80 ft., trees per acre = 266. Few small-diameter snags, no large diameter snags, moderate LDW. Variable understory; dominated by Oregon grape and swordfern, with salal, red huckleberry, vine maple and hazel also present. Patchy herbaceous cover includes oxalis, inside-out-flower, bedstraw, vanilla-leaf.  |  |  |  |
| Site Constraints                               | None.  |  |  |  |
| Access   | Good: USFS 90 Rd., 7092 Rd (gated); 7092A crosses through stand.   |  |  |  |
| Management<br>Strategies                       |  |  |  |  |
| Resource Trade-offs                            |  |  |  |  |
| Implementation                                 |  |  |  |  |
| Year Initial Reco                              | Description of the control of the co |  |  |  |
|  |  |  |  |  |



