

**STATE FOREST LAND
ENVIRONMENTAL CHECKLIST**

Purpose of Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. *Questions in italics are supplemental to Ecology's standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/ watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at <http://www.dnr.wa.gov> under "SEPA Center." These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. *All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the forest practice application acres, or the actual timber sale acres.*

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

Timber Sale Name: GRCC 4 Ds Salvage

Agreement #: C3011SP0001

2. Name of applicant: Department of Natural Resources

3. Address and phone number of applicant and contact person:

Washington Department of Natural Resources (DNR)
South Puget Sound Region
950 Farman Avenue North
Enumclaw, WA 98022
(360) 825-1631
Contact: Audrey Mainwaring

4. Date checklist prepared: 11/3/2011
5. Agency requesting checklist: Department of Natural Resources
6. Proposed timing or schedule (including phasing, if applicable):
- a. *Auction Date*: Approximately 2/1/2012
 - b. *Planned contract end date (but may be extended)*: 12/31/2014
 - c. *Phasing*: None
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Timber Sale

- a. *Site preparation*: Applying herbicide as needed; pile slash if necessary; pull brush with excavator or push out with brush rake on dozer
- b. *Regeneration Method*: Hand planting
- c. *Vegetation Management*: Treatment ongoing using mechanical, herbicides, or hand cutting
- d. *Thinning*: No thinning planned

Roads: Road maintenance will be conducted as necessary to ensure compliance with forest practices rules

Rock Pits and/or Sale: None

Other: None

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
- 303 (d) – listed water body in WAU: temp sediment completed TMDL (total maximum daily load):
 - Landscape plan:
 - Watershed analysis:
 - Interdisciplinary team (ID Team) report:
 - Road design plan:
 - Wildlife report:
 - Geotechnical report: Landslide Risk Analysis by Ana Shafer, dated September 1, 2010, Preliminary Geotechnical Assessment by Ana Shafer, dated July 9, 2007
 - Other specialist report(s):
 - Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):
 - Rock pit plan:
 - Other:

P&T Special Concerns Report
Policy for Sustainable Forests (PSF)
Soil Survey
WA Department of Fish and Wildlife's (WDFW) Priority Habitat and Species (PHS) database
RMAP # R240027
Habitat Conservation Plan (HCP)
South Puget Planning Unit Marbled Murrelet habitat concurrence letter, dated 7/16/2009

Referenced documents may be obtained for review from the South Puget Sound Region office in Enumclaw during the SEPA comment period.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

HPA Burning permit Shoreline permit Incidental take permit FPA Other:

11. Give brief, complete description of our proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description.)

a. *Complete proposal description:*

The 4 Ds Salvage Sale will be a salvage of down logs and standing dead or dying trees removing approximately 340 MBF of timber volume over approximately 90 acres in a forested stand to the south and southeast of the Green River Community College campus in Auburn. There are 200 feet of permanent road construction. Permanent road construction includes installation of one 24" culvert. This road will remain for future management access, including emergency and fire response.

Steepest slope in salvage area is 50%. Salvaging will be done by hand falling; yarding will be done with a dozer and skidder. Trees to be salvaged will only be dead, downed, dying and diseased (4Ds) conifer and a few hardwoods. Brush (includes but not limited to vine maple, snowberry, salal, red huckleberry, hazelnut) will be set back in growth in areas that the 4Ds are salvaged from. Western redcedar (not susceptible to *Phellinus*) is planned to be planted following the salvage.

b. *Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.*

The stand is comprised of approximately Douglas fir and western hemlock as the major species with a minor component of western red cedar, alder, cottonwood and maple. The origin of the stand is approximately 1895-1910. The current stand has numerous pockets of *Phellinus sulphurascens* that has infected individual trees and small clumps of trees. Proposal will salvage dead, downed, diseased, and dying trees for firewood or saw logs which may include felling standing snags or danger trees near recreation trails. The salvage will consist of 80 percent Douglas fir and 20 percent western hemlock.

c. Road activity summary. See also forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		200	0.1	-
Reconstruction		-		-
Abandonment		-	-	-
Bridge Install/Replace	-			-
Culvert Install/Replace (fish)	-			-
Culvert Install/Replace (no fish)	1			

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. (See timber sale map available at DNR region office, and/or color landscape/WAU map on the DNR website <http://www.dnr.wa.gov> under "SEPA Center.")

a. Legal description:

The area is located to the south and southeast of Green River Community College 12401 SE 320th Street, Auburn WA 98092 and is a portion of S1/2 NW1/4 of S16 T21N R5E, portion of N1/2 NW1/4 SW1/4 of S16 T21N R5E, and a portion of W1/2 NE1/4 of S16 T21N R5E, W.M.

b. Distance and direction from nearest town (include road names):

From State Highway 18 at approximately mile marker 9 take the SE 304th Street exit. Turn right onto SE 304th Street. SE 304th Street becomes 132nd Avenue SE which becomes 132 Way SE. After approximately 1 mile Turn left onto 124 Avenue SE go approximately .5 mile to Green River Community College and proposal area.

c. Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website <http://www.dnr.wa.gov> under "SEPA Center.")

WAU Name	WAU Acres	DNR land owned	Proposal Acres
Lower Green-Duwamish	152,697	1,771	90

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website <http://www.dnr.wa.gov> under "SEPA Center" for a broader landscape perspective.)

Green River Community College is expanding with a new trades complex in 2013 that will be built on the North side of 320th street. There is currently a ball field that will be moved from this site. A new facilities building will be constructed on campus in 2011.

Another future project currently planned on the proposal site is a woodland stormwater detention project involving Gator Pond and Gator Creek that flows into and drains Gator Pond. This project is planned under Army Corps Project #2010-557.

The 4 Ds proposal is located on DNR managed land in the city of Auburn and is managed under the DNR's HCP and Policy for Sustainable Forests. All 90 acres of the proposal are located in the Lower Green-

Duwamish Watershed Administrative Unit (WAU). Please see the tables below for information regarding DNR's management within the WAU. This information is based on the best available data as of January 3, 2011 and is based off the GIS spatial, not the tabular information. Therefore, there may be discrepancies between the spatial information and what the landowner submitted as acres for a forest practice activity.

WAU	Total Acres	Non-DNR Acres	% Private & Public ownership (non-DNR)	DNR managed forested acres	% DNR managed forest	Hydrologically mature acres of DNR managed land in ROS zone	% Hydrologically Mature DNR managed land in ROS zone	Proposal acres within WAU
Lower Green-Duwamish WAU (90301)	125,697	123,926	99%	1,771	1%	279	43%	90 (Not within ROS zone)

Future forestry activities in the Lower Green-Duwamish WAU include timber salvage, road construction/maintenance, and silviculture activities. These activities have in the recent past and will continue to follow the HCP, Policy for Sustainable Forests (PSF), and forest practices rules. This will ensure that all components of the environment are protected and minimize the possibility of adverse impacts. Please see table below.

Harvest Type	Harvested Acres on DNR Land in the last 7 years	Harvested Acres on Non-DNR Land in the last 7 years	Harvested Acres on All Lands in the last 7 years	Proposed Harvest Acres on DNR Land in Next Two Years
Even age	155	1,448	1,603	0
Uneven age	57	309	366	0
Salvage	5	40	45	90

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

Flat, Rolling, Hilly, Steep Slopes, Mountainous, Other:

- 1) *General description of the WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).*
 - a. Landforms – Generally hilly topography
 - b. Climate - Weighted average rainfall is 42 inches per year
 - c. Elevation - 0' to 3,194'
 - d. Forest vegetation zone - West Cascade hemlock zone
- 2) *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*
 - a. Climate—Average rainfall 35 inches/year
 - b. Elevation--360' to 430'

- b. What is the steepest slope on the site (approximate percent slope)?
50% on a small portion of the unit.
- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. *Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.*

State Soil Survey #	Soil Texture or Soil Complex Name	% Slope	Acres	Mass Wasting Potential	Erosion Potential
1995	Everett	5-15%	90	Insignificant	Low

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.
- 1) *Surface indications:*
There is some slope instability in the steeper areas, Deadhorse Canyon and Happy Camp area. These areas will not be entered for any salvage.

Surface indications include steep banks and inner gorges adjacent to streams, bedrock hollows, concentrated wet soils on very steep slopes, and stream channel deposits. None of these indicators are inside the salvage area.
 - 2) *Is there evidence of natural slope failures in the sub-basin(s)?*
 No Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

Shallow and deep seated – convergent headwalls, inner gorges, bedrock hollows, concentrated wet soils on very steep slopes and cliffs. See preliminary geotechnical assessment included in the Landslide Risk Analysis, dated 9/1/2010.
 - 3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*
 No Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:
Associated management activity:

Highway 18 widening construction in approximately 1996, cut into the east side of the hill above the highway.
 - 4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*
 No Yes, describe similarities between the conditions and activities on these sites:
 - 5) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*

Potentially unstable slopes or landforms were excluded from the salvage area.

- d. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Approx. acreage new roads: <0.1
Approx. acreage new landings: 0
Fill source: Does not apply

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Yes, minor erosion could occur from exposed soil on roads, landings and skid trail surfaces. Eroded materials will be deposited to the adjoining forest floor.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):* Less than 1% in permanent forest road (Spur 1).

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)

This will be minimized by monitoring and, if needed, restricting yarding during the wet winter months. Regular road maintenance will help limit erosion. Culverts and ditches will be constructed to control the water flow and redistribute water to the forest floor. The residual leave trees and vegetation will help limit erosion related to runoff.

2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust from truck traffic, rock mining, crushing or hauling, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

There will be insignificant amounts of dust and engine exhaust created from trucks and heavy equipment.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Efficient use of yarding equipment will reduce emissions.

3. Water

- a. Surface:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See timber sale map available at DNR region office, or forest practice application base maps.)*

a) *Downstream water bodies:* Big Soos Creek to the east and Green River to the south

b) *Complete the following riparian & wetland management zone table:*

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in Feet (per side for streams)
Unnamed stream	3	1	118'+
Unnamed streams	4	2	100'
Gator Creek	4	1	100'
Gator Pond	Non-typed (<0.25 acres)	1	30 foot ELZ

c) *List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.*

Spur 1 will be constructed across Gator Creek south of Gator Pond. This crossing will include a culvert to allow adequate water flow. No right of way debris resulting from road construction will be placed near the stream.

Gator Pond is less than 0.25 acres in size and will be protected with a 30 foot no entry buffer. This buffer exceeds DNR Habitat Conservation Plan (HCP) requirements and is intended to protect the soils around the wetland from damage due to compaction.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) to the described waters? If yes, please describe and attach available plans.
 No Yes (See RMZ/WMZ table above and timber sale map available at DNR region office.)
Description (include culverts):
 Salvage will occur up to the distances listed in the table above for Type 4 streams. Salvage in the northeast corner of the proposal boundary will be outside the site index tree height buffer from the Type 3 stream in Deadhorse Canyon.
- 2) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.
 None
- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (Include diversions for fish-passage culvert installation.)
 No Yes, description:
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
 No Yes, describe location:
- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
 No Yes, type and volume:
- 7) *Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?*

Within the Lower Green-Duwamish less than 1 percent of the soils are susceptible to high erosion potential and less than 1 percent are classified as high mass wasting potential according to DNR P&T WAU Status Reports. Specific landforms that indicate unstable slopes include bedrock hollows and convergent head walls, inner gorges, deep seated landslides and outer edges of meandering bends have been excluded from the proposal area.

- 8) *Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?*
 No Yes, describe changes and possible causes:

There is accelerated aggradation and buried organic material due to natural processes.

- 9) *Could this proposal affect water quality based on the answers to the questions 1-8 above?*
 No Yes, explain:

- 10) *What are the approximate road miles per square mile in the WAU and sub-basin(s)?*

There are approximately 5.1 road miles per square mile across within the Lower Green-Duwamish WAU.

Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?

No Yes, describe:

- 11) *Is the proposal within a significant rain-on-snow (ROS) zone? If not, **STOP HERE** and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.*

No Yes, approximate percent of WAU in significant ROS zone.

Approximate percent of sub-basin(s):

- 12) *If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?*

- 13) *Is there evidence of changes to channels associated with peak flows in the WAU or sub-basin(s)?*

No Yes, describe observations:

Within the Lower Green-Duwamish WAU there is stream-bed movement and accelerated channel cutting.

- 14) *Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.*

The foreseeable likelihood of this proposal contributing to peak flow impact when viewed in conjunction with past, present and future proposals is unlikely.

- 15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*

No Yes, possible impacts:

- 16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*

Careful past, present, and future harvest planning has and will continue to distribute harvests across the landscape through time, in order to reduce hydrologic impacts within the WAU.

b. Ground Water:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Does not apply.

- 3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*

No Yes, describe:

a) *Note protection measures, if any.*

c. Water Runoff (including storm water):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The source of runoff from this proposal is rainfall from impermeable surfaces of dirt or rocked forest roads. This runoff is planned to be collected by ditches, ditchouts and cross drains and diverted to a stable area on the forest floor. Overland surface runoff will collect naturally in topographic depressions within the proposal area. Surface water will be intercepted by vegetation and filtrate into the soil prior to entering streams or wetlands.

- 2) Could waste materials enter ground or surface waters? If so, generally describe.

Insignificant amounts of oil and other lubricants may be discharged as a result of heavy equipment use.

a) *Note protection measures, if any.*

No lubricants or chemicals will be disposed of on site. If spills occur as a result of accidental discharge, cleanup will be done in accordance with DOE regulations.

- d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)

4. Plants

a. Check or circle types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, cottonwood, western larch, birch, other:
evergreen tree: Douglas fir, grand fir, Pacific silver fir, ponderosa pine, lodgepole pine,
western hemlock, mountain hemlock, Englemann spruce, Sitka spruce,
red cedar, yellow cedar, other:
shrubs: huckleberry, salmonberry, salal, other: Oregon grape, snowberry, red elderberry,
vine maple, hazel
grass
pasture
crop or grain
wet soil plants: cattail, buttercup, bullrush, skunk cabbage, devil's club, other:
water plants: water lily, eelgrass, milfoil, other:
other types of vegetation:
plant communities of concern:

b. What kind and amount of vegetation will be removed or altered? (See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)

The proposal will be a salvage of down logs and danger trees, consisting of primarily coniferous trees with an occasional deciduous tree.

1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area.

The proposal area consists of approximately a 115-year old mixed conifer-hardwood stand that initiated following a wildland fire in 1895 and to the south consists of a plantation approximately 5 years old.

2) Retention tree plan: Standing healthy trees, both conifer and hardwoods will be retained.

c. List threatened or endangered plant species known to be on or near the site.

None

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Hand planting of conifer seedlings will occur following the salvage operation.

5. Animal

a. Circle or check any birds animals or unique habitats which have been observed on or near the site or are known to be on or near the site:

- birds: hawk, heron, eagle, songbirds, pigeon, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other:
unique habitats: talus slopes, caves, cliffs, oak woodlands, balds, mineral springs

b. List any threatened or endangered species known to be on or near the site (include federal- and state-listed species).

None

- c. Is the site part of a migration route? If so, explain.

Pacific flyway

Other migration route:

Explain if any boxes checked:

This proposal lies within the Pacific Flyway and may be used by various migratory waterfowl. No waterfowl have been witnessed onsite.

- d. Proposed measures to preserve or enhance wildlife, if any:

Some standing non-hazard snags will be left for cavity-dwellers. Stream and wetland protection will provide areas of no disturbance for wildlife habitat. The overall proposal is minimal impact in the salvage area and will retain a forested stand following the salvage activity, which will retain habitat for wildlife use. Planting of root rot resistant species will provide a future healthy stand for wildlife use.

- 1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

There are no species of concern that require protection measures under the DNR's 1997 HCP.

6. Energy and Natural Resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Does not apply.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Does not apply.

7. Environmental Health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

Minimal health hazard due to operating heavy equipment and the minor spillage of fuel and/or lubricating oils are always possible with this type of operation. The risk of forest fire is present when slash fuel moisture is low.

- 1) Describe special emergency services that might be required.

Department of Natural Resources, Green River Community College, plus private and rural fire suppression resources will be required if a fire occurs. Emergency medical or air

ambulance will be utilized for personnel injuries. Hazardous material spills may require Department of Ecology and/or county assistance.

- 2) Proposed measures to reduce or control environmental health hazards, if any:

Fire equipment will be required on site during the closed fire season April 15th to October 15th. Operations will cease if relative humidity falls below 30 percent. For spills see question B-3-c-2.

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None

- 2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.

Low levels of noise will be created from harvesting equipment between the hours 6am-5pm

- 3) Proposed measures to reduce or control noise impacts, if any:
None

8. Land and Shoreline Use

- a. What is the current use of the site and adjacent properties? (*Site includes the complete proposal, e.g. rock pits and access roads.*)

Current use of site and adjacent properties is forestry, recreation, education and residential.

- b. Has the site been used for agriculture? If so, describe.

No

- c. Describe any structures on the site.

None

- d. Will any structures be demolished? If so, what?

No.

- e. What is the current zoning classification of the site?

Rural Area-5 dwelling units per acre for parcels 1621059003 and 1621059011. There was no zoning designation for parcel 1621059008.

- f. What is the current comprehensive plan designation of the site?

These parcels are listed as um, ra or none under King County's comprehensive plan encompassing urban, rural, and rural & urban designations of the urban growth area.

g. If applicable, what is the current shoreline master program designation of the site?

Does not apply.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

Parcel 1621059011 is designated Class 2 under critical aquifer recharge area.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace? None

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Does not apply.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

Does not apply.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?

Does not apply.

b. What views in the immediate vicinity would be altered or obstructed?

Roads, skid trails and decked logs may be visible from recreation trails and college parking areas.

- 1) *Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?*
 No Yes, viewing location: Green River Community College recreation trails
- 2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*
 No Yes, scenic corridor name:
- 3) *How will this proposal affect any views described in 1) or 2) above?* This proposal will slightly alter the area by salvaging down trees and felling hazard trees.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Areas of large gaps in the forest canopy will be reforested with conifer seedlings.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Does not apply.

b. Could light or glare from the finished-project be a safety hazard or interfere with views?

Does not apply.

c. What existing off-site sources of light or glare may affect your proposal?

Does not apply.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Recreation trails exist throughout the proposal area for use by college students, staff, adjacent residents and the public for recreation and educational purposes.

b. Would the proposed project displace any existing recreational uses? If so, describe:

Trails may be temporarily closed during harvesting and will re-open when work is completed.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Information will be provided to notify the community of work being done in area and time-frame of temporary closure of trails.

13. Historic and Cultural Preservation

- a. Are there any places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None found on site during a Department of Archaeology and Historic Preservation (DAHP) database search and a review of TRAX.

- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

Various portions of the stand are used for general educational and scientific purposes by the Green River Community College forestry class.

- c. Proposed measures to reduce or control impacts, if any:
(Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.)

If historic or prehistoric archaeological sites or resources, or human skeletal remains are found within the proposal area during operations they will not be intentionally disturbed or removed from the site and Department of Natural Resources guidelines for inadvertent discovery of cultural resources will be followed.

14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

See the associated map.

- 1) *Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?*
No

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

The immediate project area is not currently served by public transit. The nearest transit stop is approximately 1 mile away, off the Green River Community College campus.

- c. How many parking spaces would the completed project have? How many would the project eliminate?

None

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).
Yes, two spur roads will be constructed. Only 135 feet of one of the spur roads will be permanent and remain following the activity.

- 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?*
Does not apply.

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
- No.
- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
- Does not apply. Logs salvaged under this proposal is planned to be used as firewood by the college.
- g. Proposed measures to reduce or control transportation impacts, if any:
- Signs will be posted closing affected portions of the college campus parking area during operations.

15. Public Services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.
- No.
- b. Proposed measures to reduce or control direct impacts on public services, if any.
- Does not apply.

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.
- None.
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. **None**
- None.

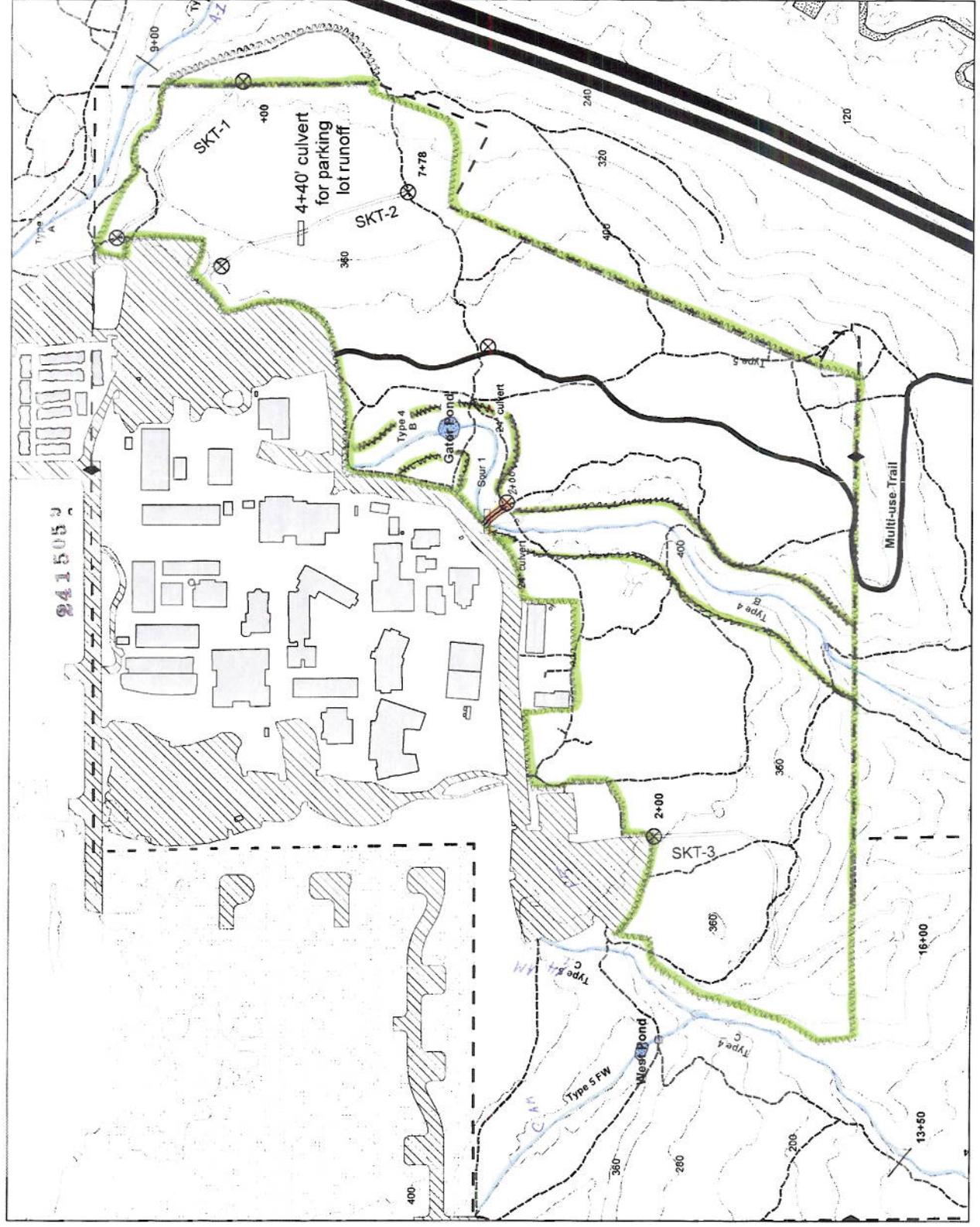
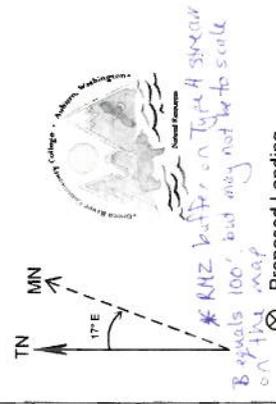
C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Completed by: Dick Hopkins and Mark Thibo Date: 11-23-2011
11/28/11
 Natural Resource Instructor Assistant Region Manager
 Green River Community College WA Dept. of Natural Resources

GRCC School Forest

Sec. 16, T21N, R05E, W.M.



- Proposed Landing**
- ⊗ Culvert
 - ◆ 1/4 Corners
 - ≡ Bridges
 - Fish Blockage
 - Proposed Permanent Road
 - Skid Trail (SKT)
 - Harvest Boundary Unit
 - Property Bdry
 - Multi-Use Trail
 - Trails
 - SR 18
 - Roads
 - GRCC Buildings
 - Private Land
 - Waterbody
 - 40 ft. Contour
 - Stream
- Scale:**
1:3,875
1 inch = 323 feet
- Legend:**
0 400 800 Feet
Contour interval 40 feet
Date: 11/15/2011
Author: Dan Alden