

City of Snohomish
Blackmans Lake Level Evaluation; Summary of Outlet Analysis

**ATTACHMENT 5.
SEPA CHECKLIST**

January 2008

WAC 197-11-960 Environmental checklist.

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.

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.

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 NONPROJECT 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:

Blackmans Lake Outlet Modifications

2. Name of applicant:

City of Snohomish

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

*Ann Stanton
116 Union Avenue
Snohomish, WA 98290
Phone: 360-568-3115*

4. Date checklist prepared:

November 21, 2006

5. Agency requesting checklist:

City of Snohomish

6. Proposed timing or schedule (including phasing, if applicable):

The evaluation of outlet modifications will be completed by December 2006. Implementation of any outlet improvements would occur following easement acquisition and detailed design. The earliest implementation of outlet improvements would be the summer of 2008. A more probable implementation time would be summer of 2009.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No further additions to the proposed project are anticipated at this time.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

No known environmental information was prepared for this project.

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.

Not applicable.

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

The outlet improvements include the construction of a weir in the outlet channel near 13th Street as well as vegetative clearing and sediment removal from the outlet channel. Consequently, City permits associated with construction will be required including right-of-way use permit and a grading permit. Since work in the channel is occurring, an HPA permit is also likely required. Construction should occur in the summer during periods of no lake discharge to reduce the potential of any discharge of turbid water. Also, USACOE 404 permit will be required to remove fill (sediment) from the creek bed.

11. Give brief, complete description of your 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 additional specific information on project description.)

The project includes the construction of an 8-foot weir spanning the creek with metal vertical supports into the outlet channel (Swift Creek) located on the upstream side of the culvert under 13th Street. Other aspects of the project include invasive non-native vegetation removal (blackberry and ivy) along the outlet channel between the lake and 13th Street. In addition, sediment removal between the lake and up to 140 feet downstream of Smithson Place should be incorporated as part of this project.

12. Location of the 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.

The project includes work along the outlet channel from Blackmans Lake up to 140 feet downstream of Smithson Place located in NW 1/4 and SW 1/4 of S7 T28N R06E. The outlet channel approximately parallels Avenue A on the west side until 13th Street, diagonally crosses 13th Street and emerges on the east side of Avenue A. The entire project is located within the City of Snohomish.

B. ENVIRONMENTAL ELEMENTS

1. **Earth**

- a. General description of the site (circle one): **Flat** rolling, hilly, steep slopes, mountainous, other

The topography of the project area may generally be described as flat. Elevation in the study area along the channel reach in question from a high point of 140.2 feet to a low point of 137 feet on the downstream side of Smithson Place.

- b. What is the steepest slope on the site (approximate percent slope)?

The slope of the channel varies from adverse slope of -0.00117 to a positive slope of 0.0118 as measured from existing culvert invert to invert after the removal of sediment. The side-slopes of the channel vary and are about 1:1 at its steepest location.

- 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.

Soils in the study area include Mukilteo muck and Tokul gravelly loam. The Mukilteo muck is located between the lake and 13th Street. The Tokul gravelly loam is located downstream of this point to the end of the potential sediment removal zone.

Key features of these major groups are as follows:

- **Mukilteo Soils**—*This soil consists of very deep, very poorly drained organic soils in depressional areas. These soils formed in organic material derived dominantly from sedges. The organic material is often 52 inches to more than 60 inches thick. This soil is noted for ponding and low soil strength.*
- **Tokul Soils**—*Tokul soils are a moderately deep, moderately well drained soil located on till plains. It formed in glacial till and volcanic ash. Areas are long and narrow and are orientated from northwest to southeast. The native vegetation is mainly conifers. The soil is located over hardpan at a depth of 20 to 40 inches. In some areas the surface layer is cobbly loam or the soil does not have a hardpan but is underlain by compacted glacial till at a depth of 20 to 40 inches.*

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

There is no evidence of unstable soil in the immediate vicinity of the project locations.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

There is no filling identified. Grading, in terms of sediment removal, may occur along the outlet channel and from the existing culverts. Approximate sediment volume is 185 cubic yards.

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

Yes, the work is located along an existing surface water channel. Construction on the outlet could lead to soil erosion and sedimentation. Appropriate soil erosion and sedimentation control permits will be acquired, if applicable, and appropriate Best Management Practices (BMPs) will be installed and maintained to address the potential for soil erosion and sedimentation.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Due to the nature of the project the percentage of impervious surfaces will not increase from pre-construction levels.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

As the project is designed soil erosion and sedimentation control potential will be considered. Appropriate soil erosion and sedimentation control permits will be acquired, if applicable, and appropriate Best Management Practices (BMPs) will be installed and maintained to address the potential for soil erosion and sedimentation.

2. Air

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

Typical construction equipment will be utilized for the implementation of the project. It is expected that there will be minimal exposure of sediment, which could become entrained into the air. Appropriate soil erosion and sedimentation control permits will be acquired, if applicable, and appropriate Best Management Practices (BMPs) will be utilized to address the potential for airborne sediment particles.

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

There are no off-site sources of emissions or odor that may affect the proposal.

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

Appropriate soil erosion and sedimentation control permits will be acquired, if applicable, and appropriate Best Management Practices (BMPs) will be utilized to address the potential for airborne sediment particles. BMPs utilized may include covering staged soil and spraying water on exposed soil to reduce the potential for entrainment.

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.

Yes. The project is located immediately downstream of Blackmans Lake located in the City of Snohomish. The outlet from the lake forms the headwater of Swifty Creek. Swifty Creek normally flows into a constructed drainage system several thousand feet downstream that discharges into the Pilchuck River. The historical drainage course flowed into the Snohomish River. High flows still may enter the Snohomish River.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes. The purpose of the project is to improve the outlet condition and provide a better control of the lake surface elevation. This requires work within the outlet channel.

- 3) 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.

There will be no fill associated with this project. There will be sediment removal along the outlet channel and culverts totaling approximately 185 cubic yards.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No surface water withdrawals or diversion will be required for this project. During construction, any flow leaving the lake may be temporarily bypassed around the sediment removal location.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The outlet channel conveys discharge from the lake, consequently the channel lies within the channel's floodplain.

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.

b. Ground:

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.

No waste material will be discharged into the ground as a result of the project.

c. Water runoff (including stormwater):

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.

There will be no additional runoff associated with the construction of this project-there is no increase of impervious area.

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

The direct discharge of waste materials to ground or surface waters as a result of the proposed project is unlikely, with the exception of potential for sediment eroded from the construction site to be carried though the outlet channel system. In the unlikely event of an oil, grease or gas spill during construction of the project, these materials may temporarily enter the drainage system until the spill is stopped and the materials removed from the site.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

As specified previously, appropriate soil erosion and sedimentation control permits will be acquired, if applicable, and appropriate Best Management Practices (BMPs) will be installed and maintained to address the potential for soil erosion and sedimentation.

4. Plants

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

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs

grass

pasture

crop or grain

- ✓ _____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- _____ water plants: water lily, eelgrass, milfoil, other
- ✓ _____ other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

The existing outlet channel has excessive vegetation encroaching into the channel flow area, including blackberry and ivy. It is anticipated that this non-native vegetation will be removed and native species planted following the removal of sediment from the channel. No detailed dimensions of the vegetation removal have been established but will likely measure 20 feet wide by about 500 feet long, or about 1100 square yards.

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

A comprehensive site inspection for threatened or endangered species has not been conducted. The following is a list of endangered and threatened species listed in Washington State Department of Natural Resources for Snohomish County.

<i>Scientific Name</i>	<i>Common Name</i>	<i>Status</i>
<i>Carex proposita</i>	<i>Smokey Mountain Sedge</i>	<i>Threatened</i>
<i>Lobelia dortmanna</i>	<i>Water Lobelia</i>	<i>Threatened</i>
<i>Platanthera chorisiana</i>	<i>Choris' Bog-orchard</i>	<i>Threatened</i>

The plant species listed are consistent with the Washington State Department of Natural Resource listings for endangered, threatened, and sensitive plants found at the following web site:

<http://www.dnr.wa.gov/nhp/refdesk/lists/plantsxco/snohomish.html>

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

The use of native plants and other vegetations will be determined in the design phase of the proposed project.

5. Animals

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

- ✓ _____ birds: hawk, heron, eagle, songbirds, other:
- ✓ _____ mammals: deer, bear, elk, beaver, other: coyote
- ✓ _____ fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site.

A comprehensive site inspection for threatened or endangered species has not been conducted. The following is a list of endangered or threatened animal species that may be in the area.

<i>Scientific Name</i>	<i>Common Name</i>	<i>Status</i>
<i>Haliaeetus leucocephalus</i>	<i>Bald Eagle</i>	<i>Threatened</i>
<i>Pandion haliaetus</i>	<i>Peregrine Falcon</i>	<i>Endangered</i>
<i>Brachyramphus marmoratus</i>	<i>Marmoratus Marbled Murrelet</i>	<i>Threatened</i>

A state list of threatened and endangered species may be found at the following website:

<http://www.wdfw.wa.gov/wlm/diversty/soc/soc.htm>

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

No.

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

The removal of non-native vegetation and the planting of native species should enhance wildlife usage of the area.

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.

None.

- 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.

No, except during construction where fuels and oils are required for equipment operation.

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

No special emergency services will be required.

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

Does not apply.

b. Noise

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

There are no major sources of noise within the project area that would affect the project.

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

The construction of the project would require the use of heavy equipment. Heavy equipment generating noise would be present during typical working hours (8AM to 4PM).

- 3) Proposed measures to reduce or control noise impacts, if any:

All local noise ordinances will be followed during construction.

8. Land and shoreline use

- a. What is the current use of the site and adjacent properties?

The property in the area is developed as single family residential and high density residential.

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

The site has not been used for agriculture in recent history.

c. Describe any structures on the site.

There are no structures in the outlet channel with the exception of the existing culverts which will remain in place.

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

No.

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

The current zoning of the site is Open Space.

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

The comprehensive plan designation for the site is the same as zoning, Open Space.

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

The lake edge is designated as Suburban, the wetland at the lake outlet is Rural.

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

Yes, the stream and wetland near the lake is designated as a Critical Area.

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

Not applicable.

j. Approximately how many people would the completed project displace?

No displacement would occur as a result of this project.

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

Not applicable

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.

Not applicable

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

Not applicable

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

Not applicable

10. Aesthetics

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

Does not apply.

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

No views would be altered or obstructed from the proposed project.

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

None.

11. Light and glare

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

None.

- 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?

None.

- 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?

Fishing within Blackmans Lake is an important community asset. Also, the nearby City park provides walking opportunities in the area.

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

No. However, during construction, there may be temporary detours and possibly road closures.

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

None.

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 known.

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

None known.

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

None.

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.

The project lies approximately parallel to Avenue A in the vicinity of 13th Street.

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

Not applicable.

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

Not applicable.

- 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).

No.

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

Water, rail, and air transportation will not be used and is not in the immediate vicinity of the proposed project.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Not applicable.

- g. Proposed measures to reduce or control transportation impacts, if any:

Not applicable.

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.

The proposed project, after construction, would require periodic maintenance.

- b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

Utilities are present in the area, but are not pertinent to the function of the proposed project.

- 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.

Not Applicable

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.

Signature:

Date Submitted: