SEPA CHECKLIST

Drainage Improvement Near 140th Street SW and Serene Way Phase 2 (RR 48837)

July 2018
Purpose of Checklist:
Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

SUMMARY

A. BACKGROUND

Name of proposed project:
Drainage Improvement Near 140 St SW & Serene Way - Phase 2 (RR 48837)

Name of applicant:
Snohomish County Public Works - Surface Water Management Division

Address and phone number of applicant and contact person:
3000 Rockefeller Avenue, M/S 607
Everett, WA  98201
Contact Person:  Crilly Ritz, Senior Planner
Transportation and Environmental Services Division
(425) 262-2476
crilly.ritz@snoco.org

Date checklist prepared:
July 27, 2018

Agency requesting checklist:
Snohomish County Public Works

Proposed timing or schedule (including phasing, if applicable):
The project would be constructed in 2019 pending regulatory approval and funding availability.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, please explain.
The proposed project is Phase 2 of a project to improve the Lake Serene outlet drainage system that was begun in 2017. Phase 1 was constructed in October 2017 as part of an emergency effort to replace the original lake outlet which had become blocked and was causing urban flooding. There are no additional plans for future additions, expansions, or other activity related to this project.

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

Critical Area Study

Biological Assessment - Section 7 Endangered Species Act consultation documentation / No effect letter
Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, please explain.

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

<table>
<thead>
<tr>
<th>☑ Permit/Approval:</th>
<th>Required from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Section 404 Authorization: Nationwide Permit</td>
<td>U.S. Army Corps of Engineers</td>
</tr>
<tr>
<td>☑ Section 7 Endangered Species Act Consultation</td>
<td>NOAA Fisheries and U.S. Fish and Wildlife Service</td>
</tr>
<tr>
<td>☑ Section 106 National Historic Preservation Act</td>
<td>Federal Lead Agency (Corps of Engineers)</td>
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<tr>
<td>☑ Section 401 Water Quality and CZM Certification</td>
<td>Washington State Department of Ecology</td>
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<tr>
<td>☑ NPDES Permit</td>
<td>Washington State Department of Ecology</td>
</tr>
<tr>
<td>☑ Hydraulic Project Approval (HPA)</td>
<td>Washington State Department of Fish and Wildlife</td>
</tr>
<tr>
<td>☑ Drainage &amp; Land Disturbing Activity Certification</td>
<td>Snohomish County – Public Works</td>
</tr>
<tr>
<td>☑ Critical Area Certification</td>
<td>Snohomish County – Public Works</td>
</tr>
</tbody>
</table>

1. Give a brief, complete description of your proposal, including the proposed uses and the size of the project 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 proposed conveyance system and in-channel work improvement is Phase 2 of the Drainage Improvement Project near 140th Street SW that was installed in 2017. A new outlet from Lake Serene was installed at that time to replace a failing outlet pipe that caused elevated water surface levels in Lake Serene that were threatening road infrastructure and increasing flooding problems for lakefront residences.

   For several years, Snohomish County has been evaluating an upgrade to the Lake Serene outlet and downstream drainage system to reduce potential flood damages to public and private property and to replace the failed private outlet pipe with new publicly owned and maintained outfall infrastructure. The lake is the headwaters to Norma Creek, a tributary to Puget Sound. (See Drainage Improvement - Lake Serene Outlet Plan and Profile in Appendix and Site Photos.)
The current project proposes to replace in kind the existing drainage conveyance system between Serene Way and Beverly Park Road. The drainage system conveys flows that originate from the outlet of Lake Serene. The drainage system replacement would provide continuous positive drainage that would improve the system’s hydraulic conveyance. The conveyance system is comprised of both open channel and enclosed pipe (tight lined) sections. The project consists of removing a total length of 443 linear feet of existing 18-inch corrugated metal pipe (CMP) and replacing it with 18-inch corrugated polyethylene storm sewer pipe (CPSSP). Four catch basins will be replaced between Serene Way and Beverly Park Road.

The proposed work includes re-grading the open channel between Serene Way and Beverly Park Road to provide a continuous grade along the channel bottom, and sloping the adjacent stream banks at approximately 3:1 slopes. Vegetation will be restored to existing conditions. There will be a small keystone block retaining wall built to support the parking pad of the adjacent private residence (approximately 3’-4’ tall). The existing keystone block wall supporting Beverly Park Road will be replaced in kind with no changes to length.

In an open channel reach downstream between 55th Avenue West and 59th Avenue West, the project proposes to add stabilization measures to handle slightly increased flow rates and to prevent any impacts to downstream property owners. The surface treatments used to stabilize the stream include adding a cobble/gravel mixture to reinforce existing knick points (where there is a sharp change in channel slope often caused by erosion), and creating constructed riffles (a rocky or shallow part of a stream). All stabilization treatments will be placed on top of the existing grade, and will not involve excavation within the main channel. There will be three locations where the banks are unstable and will be sloped back or otherwise modified to increase stability.

2. 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/range if known. If a proposal would occur over a range of areas, provide the range or boundaries of the site(s). Provide 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 drainage improvement project site is located in unincorporated southwest Snohomish County at two locations. Location one is between Serene Way and Beverly Park Road, in Section 34, Township 28 North, Range 4 East, W.M. The second location is between 59th Avenue West and 141st Street SW, in Section
B. ENVIRONMENTAL ELEMENTS

1. Earth

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

☐ FLAT
☐ ROLLING
☐ HILLY
☐ STEEP SLOPES
☐ MOUNTAINOUS
☐ OTHER (please describe): The project site has flat topography. The work would occur in Snohomish County road right-of-way adjacent to Serene Way and Beverly Park Road and on private property.

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

The project site is flat within the stream channel but there are steep slopes in portions of the area adjacent to the stream and at the roadway sideslopes at culverted roadway crossings.

c. What general types of soil are found on the site (i.e., clay – sand – gravel – peat – muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The Natural Resources Conservation Service identifies the Alderwood-Urban land complex, 2 to 8 percent slopes soil series at the project site. The soil series is described below:

This soil unit is typically found on glacial till plains. The Alderwood soils are gravelly sandy loams and the Urban lands are those covered by streets, structures, and impervious areas such as parking lots that obscure or alter the soils so that identification is not possible. Included in this unit are small areas of hydric soils such as McKenna and Norma soils and Terric Medisaprists in depressional areas and drainage ways on plains. Alderwood soils are moderately deep over a hardpan and moderately well drained. They formed in glacial till.

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

There are surface indications of erosion hazards associated with stream scour on streambanks. The erosion tends to be localized. There is no history of landslide related unstable soils in the project vicinity.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling excavation and grading proposed. Indicate source of fill.
The project proposes to excavate (cut) and replace excavated soils where the existing pipe system is located and would install replacement pipe. Excavation would occur in open channel sections. The proposed replacement pipe would be an 18-inch CPSSP pipe with a total length of 443 linear feet. For the enclosed pipe portion of the project, there will be approximately 494 cubic yards of material excavated. Pipe zone bedding material consisting of gravel backfill will be laid at the bottom of the trench and around the sides and 6 inches over the top of the pipe. A total of 131 cubic yards of pipe zone bedding material would be installed. The remainder of the trench will be filled with gravel borrow with an approximate volume of 319 cubic yards. All ground surfaces will be replaced with in kind materials and seeded once final grades have been established. The project would not increase impervious surface area.

The project proposes to excavate 226 linear feet in the open channel portions of the project and would remove approximately 406 cubic yards of streambed and stream bank material. All disturbed areas will be vegetated or otherwise stabilized to prevent erosion.

Work in the stabilization reach, downstream of the main project area, will involve placing approximately 38 cubic yards of a cobble and gravel mix to create grade control structures. This reach is currently unstable, and as such the grade control structures will be used to stabilize it and prevent further erosion from the increased flows.

f. Could erosion occur as a result of clearing, construction or use? If so, please generally describe.
   Erosion could occur during clearing and grading activities for the drainage improvements. It is not expected that these activities would result in significant adverse erosion related impacts. Erosion control best management practices (BMPs) would be used for temporary erosion and pollution control. Stormwater runoff generated on the construction site would be directed to existing systems or temporary sediment basins.

g. About what percent of the site will be covered with impervious surfaces after project construction (i.e., asphalt or buildings)?
   No new impervious surfaces will be created, and all disturbed surfaces will be replaced with in kind materials. There is approximately 703 square feet of impervious surfaces, including roadway asphalt for Serene Way and Beverly Park Rd, and sidewalks that will be replaced in kind.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
   No significant adverse impacts are anticipated. Application of erosion control Best Management Practices (BMPs) will be used throughout project construction. These BMPs will be in place around stockpiles of excavated materials.
materials, in active construction areas and will be designed to prevent sediments from entering surface water and the pipe system being installed at the project site. Excavated soils not re-used in the project area will be disposed of offsite at a permitted facility.

All project activity will be conducted subject to implementing Best Management Practices and will comply with the provisions of all applicable permits. Best Management Practices may include, but are not limited to the following:

- Protective covering will be placed over exposed soil areas to prevent sediments and other contaminants from entering the road side areas near the lake. Protective covering will be clear plastic sheeting, straw mulch, jute matting, or erosion control blanket per Department of Ecology requirements.
- A temporary erosion and sediment control plan will be implemented during construction.
- Erosion and sedimentation control measures will be routinely inspected, maintained and repaired. Damaged or inadequate erosion and sedimentation control measures will be corrected quickly.

2. Air
   a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, please generally describe and give approximate quantities if known.

   Construction equipment, construction-related activities, and vehicles carrying workers and equipment to and from the site would result in minor, temporary increases in emissions and dust. There would be no increase in emissions once construction is complete. During grading, dust levels may increase temporarily. In addition, minor temporary increases in emissions would be released from construction equipment.

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

   No off site sources of emissions would affect construction.

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

   During construction, equipment emissions would not exceed state and national air quality standards. The project would use only equipment and trucks in optimal operational condition. Dust control measures would be implemented to minimize airborne dust.

3. Water
   a. Surface Water:
      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, please describe type and provide names. If appropriate, state what stream or river if flows into.

Lake Serene is located approximately 600 feet east of the project site. The outflow from Lake Serene forms the headwaters of Norma Creek. During the summer months, the lake level drops below the elevation of the outlet. The current outlet, which was installed in 2017 during an emergency project, is located on the east end of the public boat launch at the shoreline.

From the outlet the stream flows west through an 18-inch corrugated polyethylene storm sewer pipe (CPSSP) to a catch basin at the intersection with Serene Way. At the intersection, the conveyance pipe runs north along Serene Way for 148 feet before turning west, heading under Serene Way and across private property for approximately 286 feet. At this point, the stream flows through a short open channel section, continuing its flow west where it enters an 18-inch culvert to cross Beverly Park Road. A wetland, identified as Wetland A, straddles this stream reach.

After crossing Beverly Park Road, the stream flows through a long piped conveyance system until it discharges to an open channel at the intersection of 138th Street SW and 48th Place West, where a large wetland contributes flow to the stream. The stream continues in a westerly direction through a series of open channels with culverts.

At 59th Avenue West, Norma Creek receives additional flow from a tributary stream. Norma Creek extends approximately one mile from 59th Avenue West to Puget Sound through a steep, deeply incised ravine. Several left bank tributary streams to Norma Creek are mapped within the lower basin, passing through smaller ravines to the south of the mainstem ravine. At Norma Beach, the stream cuts through steep coastal bluffs and flows through a culvert under the railroad tracks to enter Puget Sound. The upper reaches of the Norma Creek basin consist of suburban residential neighborhoods and commercial development along the east and west side of the Highway 99 corridor. The lower reaches of the stream are mostly undeveloped.

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.

The proposed project would replace the pipe conveyance system and excavate portions of the upper open channel stream reach and adjacent wetland area that convey Norma Creek, which has its headwaters at the outlet from Lake Serene. The project proposes to replace portions of the conveyance pipes and regrade a portion of the upper open channel section to improve hydraulic conveyance downstream from the outlet. The improved conveyance will cause slightly higher flows within the system. The upper open channel section will be wider than existing to sustain water surface elevations and velocities. The
The project will also add cobble grade controls to the downstream reach of Norma Creek.

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.

   The project proposes no dredge activity in wetlands or surface waters. Portions of the upstream channel reach and the adjacent wetland between Serene Way and Beverly Park Road will be excavated. The stream channel profile would be lowered approximately one to two feet and streambanks sloped back. No fill would be placed in the wetland or stream. The area excavated within the ordinary high water mark and wetland would total 226 linear feet and 406 cubic yards removed, totaling approximately 4,283 square feet. Work in the stabilization reach, downstream of the main project area, will involve placing approximately 38 cubic yards of a cobble and gravel mix to create grade control structures.

4. Will the proposal require surface water withdrawals or diversions? Please give a general description, purpose, and approximate quantities if known.

   No withdrawals or diversions are proposed. Stream bypass during construction will utilize temporary coffer dams and either be a gravity bypass utilizing an 18-inch diameter single wall CPSSP or a pumped system with sufficient capacity to handle the stream flows.

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

   The project work would not occur within a mapped 100-year floodplain. The nearest floodplain is located at the Lake Serene shoreline.

6. Does the proposal involve any discharges of waste materials to surface waters? If so, please describe the type of waste and anticipated volume of discharge.

   No waste materials would be discharged to surface waters.

   b. Groundwater:

   1. Will groundwater be withdrawn from a well for drinking water or other purposes? If so, please give a general description of the well, proposed uses and approximate quantities withdrawn from the well.

      No. The project proposes no groundwater withdrawals or discharges of waste materials to surface waters. If areas of excavation require dewatering during construction, pumped water would be treated with application of sedimentation control Best Management Practices (BMPS) prior to discharge to the ground for infiltration.

   2. Will water be discharged to groundwater? Please give a general description, purpose, and approximate quantities if known.

      No water would be discharged to groundwater.
3. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (i.e., domestic sewage, industrial, containing the following chemicals..., agricultural, etc.).
   Not Applicable

4. 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.
   Not Applicable.

c. Water Runoff (including storm water):
   1. Describe the source of runoff (including stormwater) 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, please describe.
      Currently, storm water runoff from the existing roadway is collected in roadside ditches and catch basins. It joins the lake outlet system as the headwaters of Norma Creek. No additional stormwater runoff would be generated from the proposed pipe installation and in-stream work. Existing drainage patterns will be maintained.

   2. Could waste materials enter ground or surface waters? If so, please generally describe.
      Erosion of onsite soils during construction could potentially transport soil sediments to the stream. The erosion risk is expected to be minimal with the use of erosion control BMPs.

   3. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, please describe.
      The project proposes to maintain existing drainage patterns described in #1 above.

d. Proposed measures to reduce or control surface water, groundwater, runoff water, and drainage impacts, if any:
   Construction would occur primarily during the drier summer and early fall season. Temporary Erosion and Sedimentation Control measures and a Stormwater Pollution Prevention Plan (SWPPP) would be developed as part of the final project plans and included in construction contract documents. During and after construction, BMPs including, but not limited to, silt fences, coffer dams, mulching, and filter berms would be used to control and minimize adverse impacts in the event that there are precipitation events that result in surface runoff and sediment transport.

   The project would comply with Snohomish County drainage regulations (chapter 30.63A SCC) that regulate storm water runoff from all new development and redevelopment. Best management practices would be used
throughout construction, including working during low or no flow conditions (July-September) and placing protective covering over exposed soil areas.

4. Plants

a. Check all types of vegetation below found on or in close proximity to the site:
   □ deciduous tree: alder, maple, aspen, other
   □ evergreen tree: fir, cedar, pine, other
   □ shrubs
   □ grass
   □ pasture
   □ crop or grain
   □ orchards, vineyards, or other permanent crops
   □ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
   □ water plants: water lily, eelgrass, milfoil, other
   □ other types of vegetation present:

b. What kind and amount of vegetation will be removed or altered?
   Existing grass vegetation along the pipe alignment will be removed during construction. All disturbed areas will be seeded and planted at the close of construction. Some deciduous trees and shrubs may be removed associated with work in the open channel sections. It is estimated that five trees and some shrubs would be removed.

c. List threatened and endangered plant species known to be on or near the site.
   No threatened or endangered plant species are known to be on or adjacent to the project site. If such plant species are found, all project work would comply with the requirements of the Endangered Species Act and other applicable regulations.

d. List all noxious weeds and invasive species known to be on or near the site.
   Blackberry is the most common introduced invasive weed species present at the project site. Reed canarygrass is located in the wetland area between Serene Way and Beverly Park Road. Other species include holly and ivy.

e. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation of the site, if any:
   The project proposes to use native plants as part of the re-vegetation plan to restore disturbed areas in the open channel portion of the project. Native shrubs and trees would be planted to restore temporary impacts to the stream buffer and the wetland area located at the upstream open stream channel.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. (i.e. birds: hawks, heron, eagle, songbirds, owls, ducks,
woodpeckers; mammals: deer, bear, elk, beaver, opossum, raccoon, coyote, small rodents; fish: bass, salmon, trout, herring, shellfish, other):

b. List any threatened and endangered wildlife species known to be on or near the site. There are no known threatened and endangered wildlife species at or near the site.

As of July 30, 2018 the following threatened, endangered, sensitive, or priority species that may be found within the county include (check all that apply):

<table>
<thead>
<tr>
<th>☑</th>
<th>Common Name</th>
<th>Latin Name</th>
<th>Federal Listing</th>
<th>State Listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Puget Sound ESU Chinook Steelhead</td>
<td>Onchorynchus tshawytscha</td>
<td>Threatened</td>
<td>Candidate</td>
</tr>
<tr>
<td>☐</td>
<td>Puget Sound DPS Steelhead</td>
<td>O. mykiss</td>
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<td>N/A</td>
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<tr>
<td>☐</td>
<td>Bull trout</td>
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<td>Candidate</td>
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<tr>
<td>☐</td>
<td>Pygmy whitefish</td>
<td>Prosopium coulteri</td>
<td>N/A</td>
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<td>☐</td>
<td>Margined sculpin</td>
<td>Cottus marginatus</td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>☐</td>
<td>Olympic mudminnow</td>
<td>Novumbra hubbsi</td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>☐</td>
<td>Oregon spotted frog</td>
<td>Rana pretiosa</td>
<td>Threatened</td>
<td>Sensitive</td>
</tr>
<tr>
<td>☐</td>
<td>Larch mountain salamander</td>
<td>Plethodon marselli</td>
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<td>Sensitive</td>
</tr>
<tr>
<td>☐</td>
<td>Common loon</td>
<td>Gavia immer</td>
<td>N/A</td>
<td>Sensitive</td>
</tr>
<tr>
<td>☐</td>
<td>Peregrine falcon</td>
<td>Falco peregrinus</td>
<td>Species of Concern</td>
<td>Sensitive</td>
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<tr>
<td>☐</td>
<td>Marbled murrelet</td>
<td>Brachyramphus marmoratus</td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
<tr>
<td>☐</td>
<td>Northern spotted owl</td>
<td>Strix occidentalis caurina</td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
<tr>
<td>☐</td>
<td>Yellow-billed cuckoo</td>
<td>Coccyzus americanus</td>
<td>Threatened</td>
<td>Candidate</td>
</tr>
<tr>
<td>☐</td>
<td>Fisher</td>
<td>Martes pennanti</td>
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</tr>
<tr>
<td>☐</td>
<td>Gray wolf</td>
<td>Canis lupus</td>
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<td>Endangered</td>
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<tr>
<td>☐</td>
<td>Grizzly bear</td>
<td>Ursus arctos horribilis</td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
<tr>
<td>☐</td>
<td>Southern resident killer whale</td>
<td>Orcinus Orca</td>
<td>Endangered</td>
<td>Endangered</td>
</tr>
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</table>

Threatened or endangered fish and wildlife species are not known to be on or near the site. Endangered Species Act listed threatened salmonid species use streams outside of the project area.

If federal threatened and endangered species are found, all work will conform to the requirements of the Endangered Species Act administered by the US Fish and Wildlife Service and the National Marine Fisheries Service. Where state listed species or Priority Habitats and Species (PHS) are found, the Washington Department of Fish and Wildlife Priority Habitats
and Species recommendations will be followed, when appropriate. The most current PHS list can be found at: http://wdfw.wa.gov/conservation/phs/list/.

c. Is the site part of a migration route? If so, please explain.
   Yes. The site is within the Pacific Flyway. Migratory waterfowl can be observed in the greater project vicinity. The project site is located within 2.5 miles of salt water.

d. List any invasive animal species known to be on or near the site.
   None are known to occur at the project site.

e. Proposed measures to preserve or enhance wildlife, if any:
   Project construction would occur during the summer months when rainfall is minimal. This would help to minimize erosion and prevent sedimentation of surface waters that provide in-stream habitat.

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? Please describe whether it will be used for heating, manufacturing, etc.
      No changes in energy use would result from the completed proposal. No energy is needed to meet the completed project’s needs. However, during construction minor amounts of fuel would be used by construction equipment during site work.

   b. Would your project affect the potential use of solar energy by adjacent properties? If so, please 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:
      None.

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, please describe.
      No potentially hazardous materials have been identified at or in proximity to the project site. Fuel spills and other construction equipment fluids could potentially occur during construction.

      1. Describe any known or possible contamination at the site from present or past uses.
         There are no known or possible sources of contamination at the site from present or past uses. The project sites are located in residential areas with less potential for site contamination.
2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. **There are no known pipelines or other sources of hazardous chemicals in the project areas.** There are no existing hazardous chemicals or conditions that are expected to affect pipe installation.

3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project’s development or construction, or any time during the operating life of the project. **No toxic or hazardous chemicals would be stored, used, or produced during construction other than construction equipment fuel and lubricants required for equipment operation.**

4. Describe special emergency services that might be required. **Emergency response vehicles may be required in the event of a construction accident such as a spill. The completed project would not require any additional emergency services.**

5. Proposed measures to reduce or control environmental health hazards, if any: **The project would adhere to construction best management practices to prevent environmental health hazards associated with construction.**

   b. Noise:

   1. What types of noise exist in the area which may affect your project (i.e., traffic, equipment, operation, aircraft, 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 (i.e., traffic, construction, operation, other)? **Indicate what hours noise would come from the site.** During (short-term) construction, there would be increased noise levels generated by heavy equipment. These noise levels would exceed existing background noise levels associated with the residential neighborhood in the project area. There will be no change in the types and levels of noise as a result of installing the pipe.

   3. Proposed measures to reduce or control noise impacts, if any: **Other than limiting construction to daytime hours and primarily on weekdays, no additional measures to reduce or control noise impacts are proposed.**

8. **Land and Shoreline Use**

   a. What is the current use of the site and adjacent properties? Will the proposal affect current land use on nearby or adjacent properties? If so, please describe. **The current use of the site is private residential property and Snohomish County maintained road right of way. The land use is primarily residential in proximity to the project site. The proposed project would not affect current land use on nearby properties.**
b. Has the site been used as working farmlands or working forestlands? If so, please describe. How much agriculture or forestland of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forestland tax status will be converted to non-farm or non-forest use?

The project site has not been used for working farmlands or working forestlands.

1. Will the proposal affect or be affected by surrounding working farmland or forestland’s normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:
   No.

c. Describe any structures on the site.

   There are no buildings or other structures within the road right of way. There are single family residences in proximity to the proposed work in the portions of the project that cross private property.

d. Will any structures be demolished? If so, what?
   No.

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

   The project site is located in an area zoned WFB (Waterfront Beach) at the Lake Serene shoreline. Adjacent land areas further from Lake Serene are zoned for various urban residential densities ranging from R-7200, R-9600, and Low Density Multi Residential (LDMR).

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

   The Snohomish County Comprehensive Plan designates the land area at the project site as Urban Medium Density Residential.

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

   The project lies outside of areas designated by the Shoreline Master Program.

h. Has any part of the site been classified critical area by the city or county? If so, please specify.

   Snohomish County regulates Norma Creek as a critical area and regulates land use activities in critical area buffers that extend landward from stream’s ordinary high water mark. One wetland (Wetland A), straddles the Norma Creek daylighted channel located between Serene Way and Beverly Park Road. There are no wetlands located along the lower stream reach between 55th Avenue West and 59th Avenue West.

i. Approximately how many people would reside or work in the completed project?
   None.

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

   The project would not displace residents.
k. Proposed measures to reduce or control impacts to nearby agricultural and forestlands of long-term commercial significance, if any:
   Not Applicable.

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

   The project would comply with Snohomish County development regulations.

m. Proposed measures to avoid or reduce displacement, 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:
   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?
   Not applicable.

b. What view in the immediate vicinity would be altered or obstructed?
   Other than visual modifications associated with site grading and clearing, no views would be altered or obstructed.

c. Proposed measures to reduce or control aesthetic impacts, if any:
   Revegetation would occur after final site grades have been established.

11. Light and Glare
a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
   The project proposes no features that would produce light and glare.

b. Could light or glare from the finished project be a safety hazard or interfere with views?
   No.

c. What existing off-site sources of light or glare may affect your proposal?
   No.

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?
The boat launch located at the Lake Serene shoreline is maintained by the Washington State Department of Fish and Wildlife. It provides access to the lake for recreational boaters and recreational fishing.

b. Would the proposed project displace any existing recreation uses? If so, please describe.  
No existing recreational uses would be displaced.

c. Proposed measures to reduce or control impacts on recreating, including recreation opportunities to be provided by the project or applicant, if any:  
No measures are proposed.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites located on or near the site that are over 45 years old listed in or eligible for listing in national, site, or local preservation registers located on or near the site? If so, please general describe.  
No. There are no known archaeological sites or known places or objects listed on or proposed for national, state, or local registers in the greater project area.

b. Are there any landmarks, features or other evidence of Tribal or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.  
There are no landmarks, features, or other evidence of Native American or historic use or occupation located at the project site, including human burials or old cemeteries.

c. Describe methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with Tribes and the Department of Archeology and Historic Preservation, archaeological surveys, historic maps, GIS data, etc.  
A preliminary cultural resources screening was conducted using archaeological site GIS data provided by the Washington State Department of Archaeology and Historic Preservation (DAHP) to Snohomish County as part of a data sharing agreement. No recorded sites were found as part of this preliminary screening. Compliance with local, state and federal laws is required as part of the proposed work.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required:  
As noted above, the project site was screened using GIS by Snohomish County Public Works to determine its proximity to known archaeological and cultural sites using GIS site data provided by the Washington State Department of Archaeology and Historic Preservation (DAHP) as part of a data sharing agreement. Compliance with local, state and federal laws is required as part of the proposed work.
The following management recommendations would likely be developed as part of future consultation:

- The proposed project would proceed as planned. A project specific Unanticipated Discoveries Protocol (UDP) would be developed, including keeping a UDP on site during the entire project.
- If any ground-disturbing activities or other project activities related to this development or in any future development uncover protected cultural material (e.g., bones, shell, stone or antler tools), all work in the immediate vicinity would stop, the area would be secured, and any equipment moved to a safe distance away from the location. The on-site superintendent would then follow the steps specified in the UDP developed for the project.
- If any ground-disturbing activities or other project activities related to this site uncover human remains, all work in the immediate vicinity would stop, the area secured, and any equipment be moved to a safe distance away from the location. The on-site superintendent would then follow the steps specified in the UDP developed for the project.

14. Transportation

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

The project site is located on and adjacent to Serene Way and Beverly Park Road north of 140th Street SW, near and in an east-west alignment that extends from 55th Avenue West to 59th Avenue west between 141st Street SW and 143rd Street SW.

The project’s cross culvert replacement at Beverly Park Road approximately 400 feet north of the Beverly Park Road/140th Street SW intersection will require temporary closures on Beverly Park that include a combination of single lane and full road closures.

b. Is the site or affected geographic area currently served by public transit? If so, please generally describe. If not, what is the approximate distance to the nearest transit stop?

There is a transit route located south of the project site located at Beverly Park Road and 140th Street SW.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project proposal eliminate?

None.

d. Will the proposal require any new – or improvements to existing – roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, please generally describe (indicate private or public).

No new roads or other improvements would be needed.

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

No.
f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial or non-passenger vehicles). What data or transportation models were used to make these estimates?

   No additional traffic would be generated by the completed project.

g. Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, please generally describe.

   The proposal would not interfere with or be affected by movement of agricultural and/or forest products.

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

   Traffic control as needed would be provided during construction to maintain roadway and construction site safety. A traffic control plan would be developed.

15. Public Services

a. Would the project result in an increased need for public services (i.e., fire protection, police protection, public transit, health care, schools, other)? If so, please generally describe.

   No additional or increased need for public services would result from this project.

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

   Traffic control during construction would be planned, sequenced, and administered to allow continuation of basic services during construction activities in the roadway right-of-way.

16. Utilities

a. Check all utilities currently available at the site:

   ☑ Electricity
   ☑ Natural Gas
   ☑ Water
   ☑ Refuse Service
   ☑ Telephone
   ☑ Sanitary Sewer
   ☑ Septic System

   ☑ Other (please describe) There are overhead utilities for electric power along Serene Way and Beverly Park Road located on Snohomish County Public Utility District poles. There are underground water, gas, and communication lines located in proximity to the excavation work needed for the culvert replacement work on Beverly Park Road. Permanent relocation will not be required to perform the work, but these lines will require support during construction.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site of in the immediate vicinity which might be needed.
The project proposes no new utilities. Utility pole and attached aerial utility lines would not be affected by the project and relocation of underground utilities will not be required.

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.

Digital Signature and Date: _____________________July 27, 2018_________
Position and Agency/Organization: Senior Planner, Snohomish County Public Works
Appendix - Site Photos, Vicinity Maps, Preliminary Construction Plans

Upstream Open Channel Location: The proposed work here includes re-grading the open channel between Serene Way and Beverly Park Road to provide a continuous grade along the channel bottom, and sloping out the adjacent stream banks at approximately 3:1 slopes. The area would be planted with native vegetation after grading is completed.
Downstream Open Channel Location: In the downstream area between 55th Avenue West and 59th Avenue West, the project proposes to add stabilization measures to handle slightly increased flow rates and to prevent impacts to downstream property owners. The surface treatments used to stabilize the stream include adding a cobble/gravel mixture to reinforce existing knick points (where there is a sharp change in channel slope often caused by erosion), and creating constructed riffles (a rocky or shallow part of a stream). All stabilization treatments will be placed on top of the existing grade, and will not involve excavation within the main channel. There will be three locations where the banks are unstable and will be sloped back or otherwise modified to increase stability.
Downstream Open Channel Location: An additional area in the downstream area between 55th Avenue West and 59th Avenue West, where the project proposes to add stabilization measures to handle slightly increased flow rates and to prevent impacts to downstream property owners.
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