



STATE ENVIRONMENTAL POLICY ACT (SEPA) DETERMINATION OF NON-SIGNIFICANCE

For more information about this project visit www.redmond.gov/landuseapps

PROJECT INFORMATION

PROJECT NAME: Willows Road Culvert Replacment & Roadway Repaving

SEPA FILE NUMBER: SEPA-2018-01389

PROJECT DESCRIPTION:

Willows Road culvert replacements and roadway repaving between NE 90th St. and NE 124th St.

PROJECT LOCATION: Willows Road ROW

SITE ADDRESS:

APPLICANT: Emily Flanagan

LEAD AGENCY: City of Redmond

The lead agency for this proposal has determined that the requirements of environmental analysis, protection, and mitigation measures have been adequately addressed through the City's regulations and Comprehensive Plan together with applicable State and Federal laws.

Additionally, the lead agency has determined that the proposal does not have a probable significant adverse impact on the environment as described under SEPA.

An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. **This information is available to the public on request.**

CITY CONTACT INFORMATION

PROJECT PLANNER NAME: Cathy Beam

PHONE NUMBER: 425-556-2429

EMAIL: cbeam@redmond.gov

IMPORTANT DATES

COMMENT PERIOD

Depending upon the proposal, a comment period may not be required. An "**X**" is placed next to the applicable comment period provision.

There is no comment period for this DNS. Please see below for appeal provisions.

'X' This DNS is issued under WAC 197-11-340(2), and the lead agency will not make a decision on this proposal for 14 days from the date below. Comments can be submitted to the Project Planner, via phone, fax (425)556-2400, email or in person at the Development Services Center located at 15670 NE 85th Street, Redmond, WA 98052. **Comments must be submitted by 01/10/2019.**

APPEAL PERIOD

You may appeal this determination to the City of Redmond Office of the City Clerk, Redmond City Hall, 15670 NE 85th Street, P.O. Box 97010, Redmond, WA 98073-9710, **no later than 5:00 p.m. on 01/25/2019**, by submitting a completed City of Redmond Appeal Application Form available on the City's website at www.redmond.gov or at City Hall. You should be prepared to make specific factual objections.

DATE OF DNS ISSUANCE: December 26, 2018

For more information about the project or SEPA procedures, please contact the project planner.

RESPONSIBLE OFFICIAL: Erika Vandenbrande
Planning Director

SIGNATURE: 

RESPONSIBLE OFFICIAL: Kristy Wilson Interim
Public Works Director

SIGNATURE: 

Address: 15670 NE 85th Street Redmond, WA 98052

CITY OF REDMOND

ENVIRONMENTAL CHECKLIST

PROJECT ACTION

(Revised March 2018)

Purpose of the 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 City of Redmond 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" and indicate the reason why the question "does not apply". It is not adequate to submit responses such as "N/A" or "does not apply"; without providing a reason why the specific section does not relate or cause an impact. Complete answers to the questions now may avoid unnecessary delays later. If you need more space to write answers attach them and reference the question number.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the City 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. When you submit this checklist the City may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Review Planner: CBeam

Date of Review: 12/5/18

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>8. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain.</p> <div style="background-color: #ffffcc; height: 80px; width: 100%;"></div>	<div style="background-color: #c6e0b4; height: 80px; width: 100%; display: flex; align-items: center; justify-content: center;"> <p>CB</p> </div>
<p>9. List any environmental information you know about that has been prepared or will be prepared directly related to this proposal.</p> <div style="background-color: #ffffcc; height: 80px; width: 100%; padding: 5px;"> <p>See Attachment A.</p> </div>	<div style="background-color: #c6e0b4; height: 80px; width: 100%; display: flex; align-items: center; justify-content: center;"> <p>CB</p> </div>
<p>10. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain.</p> <div style="background-color: #ffffcc; height: 80px; width: 100%;"></div>	<div style="background-color: #c6e0b4; height: 80px; width: 100%; display: flex; align-items: center; justify-content: center;"> <p>CB</p> </div>
<p>11. List any government approvals or permits that will be needed for your proposal, if known.</p> <div style="background-color: #ffffcc; height: 80px; width: 100%; padding: 5px;"> <p>See Attachment A.</p> </div>	<div style="background-color: #c6e0b4; height: 80px; width: 100%; display: flex; align-items: center; justify-content: center;"> <p>CB</p> </div>
<p>12. 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.</p> <div style="background-color: #ffffcc; height: 80px; width: 100%; padding: 5px;"> <p>See Attachment A.</p> </div>	<div style="background-color: #c6e0b4; height: 80px; width: 100%; display: flex; align-items: center; justify-content: center;"> <p>CB</p> </div>

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<p>13. 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.</p> <p style="background-color: yellow;">See Attachment A.</p>	CB
<p>B. ENVIRONMENTAL ELEMENTS</p> <p>1. Earth</p> <p>a. General description of the site</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Flat <input type="checkbox"/> Rolling <input type="checkbox"/> Hilly <input type="checkbox"/> Steep slopes <input type="checkbox"/> Mountainous <input type="checkbox"/> Other <p>b. What is the steepest slope on the site (approximate percent slope)? Describe location and areas of different topography.</p> <p style="background-color: yellow;">30% (Source: Critical Areas Report, Appendix A, p. 63)</p>	CB

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<p>c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, mulch)? 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.</p> <p>Alderwood gravelly sandy loam, Earlmont silt loam, Indianola loamy sand, Kitsap silt loam, and Tukwila muck. There are three farmland preservation properties adjacent to the Sammamish Valley Park near the intersection of Willows Road NE and NE 124th Street (parcels 2726059014, 2726059127, and 2726059076). These properties will not be affected by the project.</p>	<p>CB</p>
<p>d. Are there surface indications or history of unstable soils in the immediate vicinity? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe.</p> <p>See Attachment A.</p>	<p>CB</p>
<p>e. Describe the purpose, type, total area, location and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.</p> <p>See Attachment A.</p>	<p>CB</p>
<p>f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.</p> <p>There is potential for construction-related erosion, though best management practices (BMPs) will be used throughout the project. The erosion potential of the undisturbed on-site soils is low to moderate because most of the adjacent areas are relatively flat and landscaped or well-vegetated.</p>	<p>CB</p>
<p>g. About what percentage of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?</p> <p>The proposed project will not result in an increase in impervious surfaces. Except for the culvert replacement work, the objective of the proposed project is to repave an existing roadway without the addition of new lanes or facilities.</p>	<p>CB - 11.6 acres total IS</p>

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<p>h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.</p> <p>See Attachment A.</p>	<p>CB</p>
<p>i. Does the landfill or excavation involve over 100 cubic yards throughout the lifetime of the project?</p> <p>No.</p>	<p>CB</p>
<p>2. Air</p>	
<p>a. What types of emissions to the air (i.e. dust, automobile, odors, industrial wood smoke, and greenhouse gases) would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.</p> <p>See Attachment A.</p>	<p>CB</p>
<p>b. Are there any off-site sources of emissions or odor that may affect your proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, generally describe.</p>	<p>CB</p>
<p>c. Proposed measures to reduce or control emissions or other impacts to air, if any.</p> <p>See Attachment A.</p>	<p>CB</p>

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<p>3. Water</p> <p>a. Surface</p> <p>1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, lakes, ponds, wetlands)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe type, location and provide names. If appropriate, state what stream or river it flows into. Provide a sketch if not shown on site plans.</p> <p>See Attachment A.</p> <p>2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe and attach available plans. Note approximate distance between surface waters and any construction, fill, etc.</p> <p>See Attachment A.</p> <p>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.</p> <p>See Attachment A.</p> <p>4. Will the proposal require surface water withdrawals or diversions? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Will the proposal require permanent dewatering or temporary dewatering? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, give general description, purpose, and approximate quantities if known.</p> <p>See Attachment A.</p>	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>

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<p>5. Does the proposal lie within a 100-year floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note location on the site plan.</p> <p>The proposed project is adjacent to a 100-year floodplain area located east of Willows Road along the Sammamish River, but the project is located outside of the floodplain.</p>	<p>CB</p>
<p>6. Does the proposal involve any discharge of waste materials to surface waters? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe the type of waste and anticipated volume of discharge.</p>	<p>CB</p>
<p>7. Is your property located within the Bear/Evans Creek Watershed (see attached map)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, answer questions 8 & 9. If no, go to the next section.</p>	<p>CB</p>
<p>8. Provide details on how you propose to maximize infiltration of runoff to recharge associated stream during the summer months.</p> <p>Not applicable; the project is not located within the Bear/Evans Creek Watershed.</p>	<p>CB</p>
<p>9. Does your project propose an increase in fecal coliform levels in the surface water? If so, describe impacts.</p> <p>Not applicable; the project is not located within the Bear/Evans Creek Watershed.</p>	<p>CB</p>

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<p>b. Ground</p> <p>1. Will groundwater be withdrawn from a well for drinking water or other purpose? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give general description, purpose, and approximate quantities if known.</p> <div style="background-color: yellow; height: 120px; width: 100%;"></div> <p>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.</p> <div style="background-color: yellow; padding: 5px;"> <p>Not applicable; waste material will not be discharged into the ground from septic tanks or other sources because the project does not propose to construct structures that would require sewage systems for humans or animals.</p> </div> <p>c. Water Runoff (including storm water):</p> <p>1. Describe the source(s) of runoff (including storm water) and method of collection, transport/conveyance, and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.</p> <div style="background-color: yellow; padding: 5px;"> <p>See Attachment A.</p> </div>	<div style="background-color: #c8e6c9; padding: 20px; text-align: center; margin-bottom: 20px;"> <p>CB</p> </div> <div style="background-color: #c8e6c9; padding: 20px; text-align: center; margin-bottom: 20px;"> <p>CB</p> </div> <div style="background-color: #c8e6c9; padding: 20px;"> <p>CB - The referenced wetland was constructed as a stormwater facility in 1995.</p> </div>

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<p>2. Could waste materials enter ground or surface waters? If so, generally describe.</p> <p>No.</p> <p>3. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.</p> <p>Yes, the proposed project will temporarily alter the drainage of Willows Creek and Gun Club Creek in order to construct wider culverts. However, upon completion of the project, drainage patterns will return to pre-construction conditions.</p> <p>d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any.</p> <p>See Attachment A.</p>	<p>CB</p> <p>CB</p> <p>CB</p>
<p>4. Plants</p> <p>a. Select types of vegetation found on the site:</p> <p>Deciduous Tree: Alder <input checked="" type="checkbox"/> Maple <input type="checkbox"/> Aspen <input type="checkbox"/> Other <input checked="" type="checkbox"/></p> <p>Evergreen Tree: Cedar <input type="checkbox"/> Fir <input type="checkbox"/> Pine <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p><input checked="" type="checkbox"/> Shrubs</p> <p><input checked="" type="checkbox"/> Grass</p> <p><input type="checkbox"/> Pasture</p> <p><input type="checkbox"/> Crop or Grain</p> <p><input type="checkbox"/> Orchards, Vineyards, or Other Permanent Crops</p> <p>Wet soil plants: Cattail <input checked="" type="checkbox"/> Buttercup <input type="checkbox"/> Bullrush <input type="checkbox"/></p> <p>Skunk Cabbage <input type="checkbox"/> Other <input checked="" type="checkbox"/></p> <p>Water plants: Water lily <input type="checkbox"/> Eelgrass <input type="checkbox"/> Milfoil <input type="checkbox"/></p> <p>Other <input type="checkbox"/></p>	

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<p>Other types of vegetation (please list)</p> <p>Deciduous trees: red-osier dogwood Wet soil plants: water parsley, reed canary grass</p> <p>b. What kind and amount of vegetation will be removed or altered?</p> <p>See Attachment A.</p> <p>c. Provide the number of significant and landmark trees located on the site and estimate the number proposed to be removed and saved in the table below.</p>	<p>CB</p>																				
<table border="1" data-bbox="235 934 1039 1386"> <thead> <tr> <th>Tree Type</th> <th>Total (#)</th> <th>Removed (#)</th> <th>Saved (#)</th> <th>Percentage saved (%)</th> </tr> </thead> <tbody> <tr> <td>Landmark (>30" dbh*)</td> <td>1</td> <td>0</td> <td>1</td> <td>100</td> </tr> <tr> <td>Significant (6" – 30" dbh*)</td> <td>26</td> <td>11</td> <td>15</td> <td>58%</td> </tr> <tr> <td>Percentage (%)</td> <td>27</td> <td>11</td> <td>16</td> <td>62%</td> </tr> </tbody> </table> <p><i>Note: Since a SEPA Determination is issued early on in the project's review process; the information above is a preliminary estimate only and could change during the development review process.</i></p> <p>* DBH – Diameter at breast height</p>	Tree Type	Total (#)	Removed (#)	Saved (#)	Percentage saved (%)	Landmark (>30" dbh*)	1	0	1	100	Significant (6" – 30" dbh*)	26	11	15	58%	Percentage (%)	27	11	16	62%	<p>CB - Tree removal tied to the Willows Creek culvert replacement.</p>
Tree Type	Total (#)	Removed (#)	Saved (#)	Percentage saved (%)																	
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<p>d. List threatened or endangered species known to be on or near the site.</p> <p>There are no identified threatened or endangered plant species on or near the project site.</p>	<p>CB</p>																				

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<p>e. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:</p> <p style="background-color: yellow; padding: 5px;">See Attachment A.</p> <p>f. List all noxious weeds and invasive species known to be on or near the site.</p> <p style="background-color: yellow; padding: 5px;">Himalayan blackberry and reed canarygrass.</p>	<p style="background-color: #d9ead3; padding: 5px;">CB - All restoration work along the culvert replacements shall meet CAO requirements and 5 year monitoring period.</p> <p style="background-color: #d9ead3; padding: 5px; text-align: center;">CB</p>
<p>5. Animals</p>	
<p>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.</p> <p>Birds: Hawk <input type="checkbox"/> Heron <input type="checkbox"/> Eagle <input type="checkbox"/> Songbirds <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>Mammals: Deer <input type="checkbox"/> Bear <input type="checkbox"/> Elk <input type="checkbox"/> Beaver <input type="checkbox"/></p> <p>Fish: Bass <input type="checkbox"/> Salmon <input checked="" type="checkbox"/> Trout <input checked="" type="checkbox"/> Herring <input type="checkbox"/> Shellfish <input type="checkbox"/> Other <input type="checkbox"/></p>	<p style="background-color: #d9ead3; padding: 5px; text-align: center;">CB</p>
<p>b. List any threatened or endangered species known to be on or near the site.</p> <p style="background-color: yellow; padding: 5px;">See Attachment A.</p>	<p style="background-color: #d9ead3; padding: 5px; text-align: center;">CB</p>
<p>c. Is the site part of a migration route? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, explain.</p> <p style="background-color: yellow; padding: 5px;">Washington is located within the Pacific Flyway, which is one of four administrative "flyways" for waterfowl in North America.</p>	<p style="background-color: #d9ead3; padding: 5px; text-align: center;">CB</p>

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<p>d. Proposed measures to preserve or enhance wildlife, if any:</p> <p>See Attachment A.</p>	<p>CB</p>
<p>e. List any invasive animal species known to be on or near the site.</p> <p>None known.</p>	<p>CB</p>
<p>6. Energy and Natural Resources</p>	
<p>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.</p> <p>Not applicable; the project does not propose to build any structures that would require energy sources.</p>	<p>CB</p>
<p>b. Would your project affect the potential use of solar energy by adjacent properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, generally describe.</p>	<p>CB</p>
<p>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.</p> <p>Not applicable; the project does not propose to build any structures that would require energy sources and therefore energy conservation features.</p>	<p>CB</p>

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<p>7. Environmental Health</p> <p>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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe.</p> <p>Project construction will use equipment that has the potential to leak/spill toxic chemicals, though the project includes precautions for preventing contamination of sensitive areas (see below).</p> <p>1. Describe any known or possible contamination at the site from present or past practices.</p> <p>According to the Ecology database of contaminated sites, there is no known contamination within the project area.</p> <p>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.</p> <p>See Attachment A.</p> <p>3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. (for example: flammable liquids, combustible liquids, flammable gases, combustible or flammable fibers, flammable solids, unstable materials, corrosives, oxidizing materials, organic peroxides, nitromethane, ammonium nitrate, highly toxic material, poisonous gas, smokeless powder, black sporting powder, ammunition, explosives, cryogenics, medical gas, radioactive material, biological material or high piled storage (over 12' in most cases).</p> <p>Project construction will use equipment that has the potential to leak/spill toxic chemicals, though the project includes precautions for preventing contamination of sensitive areas (see below).</p>	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>

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<p>4. Describe special emergency services that might be required.</p> <p>No new special emergency services will be required as a result of the project.</p>	<p>CB</p>
<p>5. Proposed measures to reduce or control environmental health hazards, if any.</p> <p>See Attachment A.</p>	<p>CB</p>
<p>b. Noise</p>	
<p>1. What types of noise exist in the area which may affect your project (for example: traffic equipment, operation, other)?</p>	
<p>There is existing noise from traffic on Willows Road (70 dBA 50 feet from the source); however, this noise will not affect the project.</p>	<p>CB</p>
<p>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.</p>	
<p>Noise will be generated by paving and construction equipment (101 dBA 50 feet from the source). It is estimated that the noise will attenuate to background levels around 3,460 feet from the project area. Noise can be expected during work hours between 7 a.m. and 10 p.m. because the project does not impact residential zones per Redmond Municipal Code (RMC) Chapter 6.36.</p>	<p>CB</p>

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<p>3. Proposed measures to reduce or control noise impacts, if any.</p> <p>The project will follow City noise ordinance regulations outlined in RMC Chapter 6.36.</p>	<p>CB</p>
<p>8. Land and Shoreline Use</p> <p>a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.</p> <p>The project area along Willows Road is surrounded by commercial development, the Willows Run Golf Complex, and Sammamish Valley Park. The proposed project will not affect current land uses on adjacent properties.</p> <p>b. Has the site been used as working farmlands or working forest lands? Is so, describe. How much agricultural or forest land 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 forest land tax status will be converted to non-farm or non-forest use?</p> <p>The project area does not contain existing farmlands or forest lands.</p> <p>1). Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?</p> <p>The proposed project will not affect or be affected by farm or forest lands.</p>	<p>CB</p> <p>CB</p> <p>CB</p> <p>CB</p>

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<p>c. Describe any structures on site.</p> <p>Besides the existing road and culverts, there are no structures on the project site.</p>	<p>CB</p>
<p>d. Will any structures be demolished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, what?</p> <p>The project proposes to replace the existing culverts and to repave Willows Road.</p>	<p>CB</p>
<p>e. What is the current zoning classification of the site?</p> <p>See Attachment A.</p>	<p>CB</p>
<p>f. What is the current comprehensive plan designation of the site?</p> <p>The comprehensive plan designations for the surrounding parcels are business park, manufacturing park, urban recreation, and park and open space.</p>	<p>CB</p>
<p>g. If applicable, what is the current shoreline master program designation of the site?</p> <p>Not applicable; the project is not within shoreline jurisdiction.</p>	<p>CB</p>
<p>h. Has any part of the site been classified as a critical area by the city or county? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, specify. (If unsure, check with City)</p> <p>See Attachment A.</p>	<p>CB</p>

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<p>i. Approximately how many people would reside or work in the completed project?</p> <p>None; the proposed project only includes transportation improvements.</p>	<p>CB</p>
<p>j. Approximately how many people would the completed project displace?</p> <p>None.</p>	<p>CB</p>
<p>k. Proposed measures to avoid or reduce displacement impacts, if any:</p> <p>Not applicable; the proposed project will not displace anyone.</p>	<p>CB</p>
<p>l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:</p> <p>The proposed project will not change anything that would affect existing or projected land uses and plans.</p>	<p>CB</p>
<p>m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:</p> <p>The proposed project will not affect or be affected by farmland or forest land, so no mitigation is required.</p>	<p>CB</p>
<p>n. What percentage of the building will be used for:</p> <p>Warehousing <u> N/A </u></p> <p>Manufacturing <u> N/A </u></p> <p>Office <u> N/A </u></p> <p>Retail <u> N/A </u></p>	

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>Service (specify) <u>N/A</u></p> <p>Other (specify) <u>N/A</u></p> <p>Residential <u>N/A</u></p>	<p>CB</p>
<p>0. What is the proposed I.B.C. construction type?</p> <p><u>Not applicable; the project does not propose to build any structures besides culvert replacements.</u></p>	<p>CB</p>
<p>p. How many square feet are proposed (gross square footage including all floors, mezzanines, etc.)?</p> <p><u>Not applicable; the project does not propose to build any structures besides culvert replacements.</u></p>	<p>CB</p>
<p>q. How many square feet are available for future expansion (gross square footage including floors, mezzanines and additions)?</p> <p><u>Not applicable; the project does not propose to build any structures besides culvert replacements.</u></p>	<p>CB</p>
<p>9. Housing</p> <p>a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.</p> <p><u>Not applicable; the proposed project will not create any housing.</u></p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.</p> <p>None; the proposed project will not eliminate any housing.</p> <p>c. Proposed measures to reduce or control housing impacts, if any:</p> <p>Not applicable; the proposed project will not impact housing, so no mitigation is required.</p>	<p>CB</p> <p>CB</p>
<p>10. Aesthetics</p>	
<p>a. What is the tallest height of any proposed structure(s), not including antennas? What is the principal exterior building material(s) proposed?</p> <p>Not applicable; no structures will be built as part of the proposed project.</p>	<p>CB</p>
<p>b. What views in the immediate vicinity would be altered or obstructed?</p> <p>None; the proposed project will not alter or obstruct any views.</p>	<p>CB</p>
<p>c. Proposed measures to reduce or control aesthetic impacts, if any:</p> <p>Not applicable; the proposed project will not impact the aesthetics, so no mitigation is required.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>11. Light and Glare</p> <p>a. What type of light or glare will the proposal produce? What time of day or night would it mainly occur?</p> <p style="background-color: #ffffcc; padding: 5px;">None; the proposed project will not produce light or glare.</p> <p>b. Could light or glare from the finished project be a safety hazard or interfere with views?</p> <p style="background-color: #ffffcc; padding: 5px;">No, the proposed project will not produce light or glare.</p> <p>c. What existing off-site sources of light or glare may affect your proposal?</p> <p style="background-color: #ffffcc; padding: 5px;">None; there are no off-site sources of light or glare that will affect the proposed project.</p> <p>d. Proposed measures to reduce or control light and glare impacts, if any:</p> <p style="background-color: #ffffcc; padding: 5px;">Not applicable; the proposed project will not impact light or glare, so no mitigation is required.</p>	<p style="text-align: center; background-color: #c6e0b4; padding: 10px;">CB</p> <p style="text-align: center; background-color: #c6e0b4; padding: 10px;">CB</p> <p style="text-align: center; background-color: #c6e0b4; padding: 10px;">CB</p> <p style="text-align: center; background-color: #c6e0b4; padding: 10px;">CB</p>
<p>12. Recreation</p> <p>a. What designated and informal recreational opportunities are in the immediate vicinity?</p> <p style="background-color: #ffffcc; padding: 5px;">See Attachment A.</p>	<p style="text-align: center; background-color: #c6e0b4; padding: 10px;">CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Would the proposed project displace any existing recreational uses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe.</p> <div style="background-color: #ffffcc; height: 100px; width: 100%;"></div> <p>c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:</p> <div style="background-color: #ffffcc; padding: 5px;"> <p>Not applicable; the proposed project will not impact recreation, so no mitigation is required.</p> </div>	<div style="background-color: #c6e0b4; text-align: center; padding: 10px;">CB</div> <div style="background-color: #c6e0b4; text-align: center; padding: 10px;">CB</div>
<p>13. Historic and Cultural Preservation</p> <p>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, state, or local preservation registers located on or near the site? If so, generally describe.</p> <div style="background-color: #ffffcc; padding: 5px;"> <p>No historic buildings are located in the project area, though a number of historic buildings designated as Redmond City Landmarks are located in downtown Redmond, which is approximately a mile south of the project area. The proposed project will not impact these buildings.</p> </div>	<div style="background-color: #c6e0b4; text-align: center; padding: 10px;">CB</div>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>b. Are there any landmarks, features, or other evidence of Indian 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.</p> <p>No cultural resources were identified during geotechnical bore pit monitoring. Two historic sites (45KI451 and 45KI818) are located along the Sammamish River on the eastern border of the Willows Run Golf Complex. The proposed project will not impact these sites.</p>	<p>CB</p>
<p>c. Describe the 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 Archaeological and Historic Preservation, archaeological surveys, historic maps, GIS data, etc.</p> <p>An archaeological assessment was prepared to address the results of past archaeological studies within the project vicinity. In addition, an archaeologist monitored geotechnical borings at four locations in the project area in which no cultural resources were identified.</p>	<p>CB</p>
<p>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.</p> <p>The proposed project will develop a Monitoring and Discovery Plan to address potential discovery of any archaeological material or human remains during construction of the culverts. In addition, the proposed project will develop an Inadvertent Discovery Plan (IDP) for the repaving component of the project prior to proceeding with construction involving ground disturbance.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>14. Transportation</p> <p>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.</p> <p style="background-color: #ffffcc; padding: 5px;">Access to the project area will be via existing public roads. Willows Road between NE 90th Street and NE 124th Street is a two- to three-lane arterial with intersections at NE 91st Street, NE 95th Street, NE 100th Court, and NE 116th Street. A nearby parking lot will be used for material storage and equipment staging.</p> <p>b. Is the site currently or affected geographic area currently served by public transit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, generally describe. If not, what is the approximate distance to the nearest transit stop?</p> <p style="background-color: #ffffcc; padding: 5px;">King County Metro operates two routes on Willows Road: Dial-A-Ride Transit (DART) Route 930 (Kingsgate Park-and-Ride to Redmond Town Center), Route 243 (Overlake Transit Center to Kenmore Park-and-Ride), and Route 244 (Kenmore Park-and-Ride to Overlake Transit Center). There are multiple bus stops along Willows Road between NE 90th Street and NE 124th Street.</p> <p>c. How many additional parking spaces would the completed project have? How many would the project eliminate?</p> <p style="background-color: #ffffcc; padding: 5px;">None; the proposed project will not construct or eliminate any parking spaces.</p> <p>d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or transportation facilities not including driveways? If so, generally describe (indicate whether public or private).</p> <p style="background-color: #ffffcc; padding: 5px;">No, the proposed project includes road improvements to Willows Road.</p>	<p style="text-align: center; background-color: #c8e6c9; padding: 10px;">CB</p> <p style="text-align: center; background-color: #c8e6c9; padding: 10px;">CB</p> <p style="text-align: center; background-color: #c8e6c9; padding: 10px;">CB</p> <p style="text-align: center; background-color: #c8e6c9; padding: 10px;">CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.</p> <p>No.</p>	<p>CB</p>
<p>f. How many weekday vehicular trips (one way) per day would be generated by the completed project? _____ If known, indicate when peak volumes would occur: _____ - _____ a.m. and _____ - _____ p.m. How many of these trips occur in the a.m. peak hours? _____ How many of these trips occur in the p.m. peak hours? _____ What percentage of the volume would be trucks (such as commercial and non-passenger vehicles)? _____ What data or transportation models were used to make these estimates?</p> <p>The proposed project will not generate additional vehicular trips.</p>	<p>CB</p>
<p>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, generally describe.</p> <p>No.</p>	<p>CB</p>
<p>h. Proposed measures to reduce or control transportation impacts, if any.</p> <p>Not applicable; the proposed project will not impact transportation upon completion, so no mitigation is required.</p>	<p>CB</p>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>15. Public Services</p> <p>a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, generally describe.</p> <div style="background-color: yellow; height: 120px; width: 100%;"></div> <p>b. Proposed measures to reduce or control direct impacts on public services, if any.</p> <div style="background-color: yellow; padding: 5px;"> <p>Not applicable; the proposed project will not impact public services, so no mitigation is required.</p> </div> <p>16. Utilities</p> <p>a. Select utilities currently available at the site:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Electricity <input checked="" type="checkbox"/> Natural Gas <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> Refuse Service <input checked="" type="checkbox"/> Telephone <input checked="" type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Septic System <input checked="" type="checkbox"/> Other 	<div style="background-color: #c8e6c9; height: 120px; display: flex; align-items: center; justify-content: center; margin-bottom: 20px;"> <p>CB</p> </div> <div style="background-color: #c8e6c9; height: 120px; display: flex; align-items: center; justify-content: center; margin-bottom: 20px;"> <p>CB</p> </div> <div style="background-color: #c8e6c9; height: 220px; display: flex; align-items: center; justify-content: center;"> <p>CB</p> </div>

To Be Completed By Applicant	Evaluation for Agency Use Only
<p>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.</p> <p>Not applicable; the proposed project will not require any utility services.</p>	<p>CB</p>

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.

Applicant Signature:

Emily Flangan

Digitally signed by Emily Flangan
 DN: c=US, e=eflanagan@redmond.gov, o=City of Redmond, ou=EUSD, cn=Emily Flangan
 Location: City of Redmond
 Reason: I agree to the terms defined by the placement of my signature on this document
 Contact: info.eflanagan@redmond.gov
 Date: 2018.11.29 06:13:07-0800

Name of Signee: Emily Flangan

Position and Agency/Organization: Senior Engineer, City of Redmond

Relationship of Signer to Project: Project Manager

Date Submitted: 11/29/2018

ATTACHMENT A

DATE: November 6, 2018
TO: Emily Flanagan
FROM: Benn Burke
SUBJECT: SEPA Checklist
Attachment A

PROJECT NUMBER: 553-2577-018

PROJECT NAME: Willows Road Culvert Replacements and Roadway Repaving

A. BACKGROUND

Question #9: List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

- Critical Areas Report – Prepared by Parametrix (August 2018)
- Biological Evaluation – Prepared by Parametrix (March 2018)
- JARPA – Prepared by Parametrix (March 2018)
- Permit Matrix – Prepared by Parametrix (January 2018)
- Geotechnical Report – Prepared by GeoEngineers (March 2018)
- Archaeological Assessment – Prepared by Stephenie Kramer, Michael Shong, Breanne Taylor, and Robert Kopperl (March 2018)
- Culvert Analysis Report – Prepared by Tetra Tech (August 2018)

Question #11: List any government approvals or permits that will be needed for your proposal, if known.

- Clean Water Act Section 404 Permit (Corps)
- National Historic Preservation Act Section 106 Consultation (Corps, DAHP)
- Clean Water Act Section 401 Certification (Ecology)
- Endangered Species Act Section 7 Compliance (Corps, NOAA Fisheries, USFWS)
- Hydraulic Project Approval (WDFW)
- NPDES Construction Stormwater General Permit (Ecology)
- Site Construction Permit (City of Redmond)
- Clearing and Grading Permit (City of Redmond) (potentially)

Question #12: 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 proposed project includes the following improvements: repaving the existing road section on Willows Road between NE 90th Street and NE 124th Street (approximately 2.14 miles), upgrading curb ramps to be compliant with the Americans with Disabilities Act (ADA), and replacing two culverts that span Willows Road—one at Willows Creek and one at Gun Club Creek. Approximately 587,250 square-feet of roadway will be repaved and approximately 4,410 square-feet of pavement will be required for ramp upgrades. Road improvements including repaving and curb ramp upgrades are categorically exempt from SEPA per Washington Administrative Code (WAC) 197-11-800.

The new culverts will be the same general footprint as the culverts being removed, though additional width will be added to improve fish passage. At Willows Creek, the existing 43-inch by 27-inch corrugated metal pipe (CMP) arch culvert will be replaced with a 12-foot-wide by 5-foot-high three-sided box culvert, resulting in approximately 1,300 square-feet of temporary impacts. At Gun Club Creek, the existing 36-inch by 22-inch CMP arch culvert will be replaced with a 10-foot-wide by 4-foot-high four-sided box culvert. An existing water line will be expanded to 1 foot in diameter and lowered to a depth of 7 to 8 feet below the surface, parallel to Willow Road. At Gun Club Creek there will be approximately 2,450 square-feet of temporary impacts.

In considerations for future Willows Road widening, this culvert design should be forward compatible. The culverts at Willows and Gun Club Creek are stream simulations culverts with width determined by the natural ordinary high water width of each stream. Lengthening the culverts in the future will not change the design width of these structures. The culverts height has been optimized to meet permitting requirements for fish passage culverts, while allowing for the many utilities in this corridor with limited coverage. The roadway can be widened by lengthening the proposed fish passage culverts without replacing the sections of culverts being built as part of this project assuming there are no changes to the regulatory guidelines and/or other design criteria between now and the proposed roadway widening. The topography of each creek steepens to the west, so if the roadway is extended in that direction, there will likely be extensive grading of the stream channel required to tie the elevation of the creek in with the new culvert inlet and maintain freeboard. This work would be required with the existing culverts or the proposed fish passage culverts. However, a full evaluation of the impact of roadway widened was not performed and other design issues may affect the need to modify the culvert to accommodate a future roadway widening project.

Question #13: 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 proposed project is located in the City of Redmond, King County, Washington primarily within the right-of-way (ROW) of Willows Road between NE 90th Street and NE 124th Street (S2 and S3, T25N, R5E and S27 and S34, T26N, R5E, respectively). Portions of the project will take place outside the ROW along Willows Road for which easements will be required. The north end of the project area (between NE 116th Street and NE 124th Street) is bordered by the Sammamish Valley Park and agricultural land to the east, and undeveloped forest land with scattered residential and commercial structures to the west. The central portion of the project area (between NE 100th Court and NE 116th Street) is bordered by the Willows Run Golf Course and a church parking lot to the east, and commercial/office buildings, associated parking areas, and some scattered undeveloped forest land to the west. The

southern end of the project area (between NE 90th Street and NE 100th Court) is surrounded by commercial/office buildings and associated parking areas.

The proposal area is located within the Sammamish River, Willows Creek, and Peters Creek watersheds. These watersheds are within Water Resource Inventory Area 8. The topography in the vicinity of the project area is relatively flat along the entire project corridor.

B. ENVIRONMENTAL ELEMENTS

1. Earth

Question #1d: Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

The proposed project site has moderate risk of liquefaction because of the relatively high groundwater and presence of loose- to medium-dense alluvial deposits below the site. The site has a low risk of liquefaction-induced lateral spreading because of the presence of development between the site and the Sammamish Slough. The site has a low risk for seismically-induced landslides due to the relative flatness of the site.

Question #1e: Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Temporary fill (bags of gravel) will be used for cofferdams at Willows Creek and Gun Club Creek during construction of new culverts. Both creeks will be excavated and recontoured with stream substrate at the culvert approaches to accommodate wider culverts. Approximately 16 cubic yards are estimated at Willows Creek and 15 cubic yards at Gun Club Creek.

Native soil will be used to the extent possible and local, commercial sources will be used for any additional fill needed.

Question #1h: Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Proposed measures to reduce or control erosion include, but may not be limited to: implementing construction phasing that minimizes the amount of earthwork that exposes the ground surface to erosion; implementing a TESC plan, including sediment-control BMPs such as silt fences, check dams, sediment traps, sedimentation basins, and flocculation methods; using erosion-control practices (seeding, mulching, soil conditioning with polymers, use of geosynthetics, sod stabilization, erosion-control blankets, vegetative buffer strips, and preservation of trees with construction fences); using construction entrances, exits, and parking areas that reduce sediment tracking onto public roads; and performing routine inspections of erosion-control and sediment-control BMPs and subsequent BMP maintenance.

2. Air

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

Emissions will be generated by paving equipment during the repaving of Willows Road, in addition to emissions from construction equipment during culvert replacement. There are no operational emissions associated with the

proposed project except for those from automobile traffic on Willows Road. Traffic conditions on Willows Road are not expected to change as a result of the project as it will not increase the current traffic capacity of the road.

Question #2c: Proposed measures to reduce or control emissions or other impacts to air, if any:

BMPs to prevent fugitive dust emissions will be in place throughout project construction activities. BMPs would implement measures such as:

- Spraying exposed soils with water to reduce airborne dust
- Covering dirt, gravel, and debris piles as needed to reduce dust and windblown debris
- Requiring contractors to keep machinery in good mechanical condition, reduce idling time, and use equipment with emission controls, where feasible, to minimize exhaust emissions

3. Water

a. Surface

Question #3a (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.

The proposed project is in the vicinity of Willows Creek, Gun Club Creek, and Wetlands A through E. Figures showing the locations of the creeks and wetlands are included in the Critical Areas Report.

Willows Creek flows northeasterly from wetland areas through the culvert under Willows Road between NE 95th Street and the Puget Power Trail, followed by an open channel, then through another recently replaced culvert under the Redmond Central Connector Trail. Willows Creek then flows through Wetland C and continues easterly through a series of piped and open channel sections and through a culvert under the Sammamish River Trail, which outfalls into the Sammamish River.

Gun Club Creek flows northeasterly from wetland areas through a culvert under Willows Road between the Puget Power Trail and NE 100th Court into Wetland B, followed by a culvert under NE 100th Court. Gun Club Creek continues through Wetland A and through another culvert under the Overlake Christian Church parking lot driveway. Gun Club Creek then flows easterly in a linear ditch along NE 100th Court and through a culvert under the Sammamish River Trail, which outfalls into the Sammamish River.

Wetland A is a narrow, ditched wetland located north of NE 100th Court between Willows Road and the Redmond Central Connector Trail. Wetland B is a narrow, ditched wetland located south of NE 100th Court between Willows Road and the Redmond Central Connector Trail. Wetland C is a depressional wetland located north of the Willows Road/NE 95th Street intersection and east of the Redmond Central Connector Trail. Wetland D is a narrow, ditched wetland located north of NE 95th Street between Willows Road and the Redmond Central Connector Trail. Wetland E is a slope wetland located west of Willows Road and immediately south of Willows Creek.

Question #3a (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 culvert replacement work will occur within Willows Creek and Gun Club Creek. The proposed project will temporarily divert stream flows in order to replace the existing culvert structures with wider culverts to improve

fish passage (see temporary bypass details below). Portions of Wetlands B, D, and E will be temporarily disturbed during project construction. These wetland areas will be restored following construction.

Question #3a (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.

Temporary fill (bags of gravel) will be used for cofferdams at Willows Creek and Gun Club Creek during construction of new culverts. Both creeks will be excavated and recontoured with stream substrate at the culvert approaches to accommodate wider culverts. Approximately 16 cubic yards of excavation are estimated at Willows Creek and 15 cubic yards at Gun Club Creek.

Native soil will be stockpiled and used to the extent possible and local, commercial sources will be used for any additional fill needed.

Question #3a (4): Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

Yes. In order to remove the existing structures and install new structures, it will be necessary to isolate the work area and bypass stream flows around the construction area. The City proposes to divert the entire flow of Willows Creek via a minimum 24-inch-diameter, 105-foot-long bypass pipe; similarly, Gun Club Creek will be diverted via a minimum 18-inch-diameter, 125-foot-long bypass pipe. Prior to installing the temporary bypass pipes, fish will be removed by qualified biologists from the sections of the streams to be dewatered. It is anticipated that all in-water work for the culvert replacement portion of the project will take place during the in-water work window (July 1 through September 30).

b. Ground

See SEPA Checklist.

c. Water Runoff

Question #3c (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 primary source of water to the wetlands in the project vicinity, which drain to Willows Creek and Gun Club Creek, is runoff from the adjacent trail and roads. The project will not generate any new impervious surfaces; therefore, existing runoff patterns will be unchanged from existing conditions.

The Gun Club Creek culvert has a stormwater discharge into the culvert via a catch basin. During construction, runoff and stormwater at the Gun Club Creek culvert will be diverted/pumped to an upstream wetland/detention facility until construction of the new culvert is complete. Upon completion, stormwater will be redirected to the new culvert.

Question #3d: Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

The proposed project will be designed to meet requirements of the Washington State Department of Ecology's (Ecology) current stormwater manual. A Stormwater Prevention Plan (SWPP); Spill Prevention, Control, and

Countermeasures Plan (SPCC); and a Temporary Erosion and Sedimentation Control Plan (TESC) will be developed for the proposed project.

4. Plants

Question #4b: What kind and amount of vegetation will be removed or altered?

Approximately four trees will be removed from upstream and seven trees from downstream of the existing Willows Creek culvert to accommodate the slightly wider culvert replacements. Trees to be removed include red alder and black cottonwood. No trees are located within the disturbance areas surrounding the Gun Club Creek culvert. Riparian vegetation surrounding the culverts will also be removed for construction grading.

Question #4e: Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Areas disturbed by construction activities will be stabilized with coir, mulch, or similar methods, and then planted. The project proponent will replant cleared areas adjacent to the culvert areas and will also monitor those plantings for a minimum of 5 years post-construction to ensure survival. All trees removed from the riparian area will be replaced with native trees and shrub species.

5. Animals

Question #5b: List any threatened and endangered species known to be on or near the site.

The following Endangered Species Act-listed species were identified as potentially present in the project area: bull trout, marbled murrelet, streaked horned lark, yellow-billed cuckoo, North American wolverine, Puget Sound ESU Chinook salmon, and Puget Sound DPS steelhead (ESU = environmentally significant unit, DPS = distinct population segment). However, none of these species are expected to occur in the project action area.

Listed salmonid species, including Chinook salmon, bull trout, and steelhead are precluded from Gun Club Creek and Willows Creek by inadequate habitat conditions for spawning, rearing, or migration; passage barriers; and inadequate flow regimes. Surveys conducted in both streams have also failed to identify use by these species.

Question #5d: Proposed measures to preserve or enhance wildlife, if any:

Prior to the installation of the temporary stream bypass system, qualified biologists will remove fish from the portion of the channels to be dewatered. Fish salvage will take place in accordance with current Washington State Department of Transportation (WSDOT) Fish Exclusion Protocols and Standards.

The project proposes to replace removed trees with native trees and shrubs, and will monitor the plantings to ensure the establishment for a period of 5 years post-construction. The proposed replacement plantings are anticipated to increase habitat complexity and contribute to stabilization of streambanks in the project area over the long term.

6. Energy and Natural Resources

See SEPA Checklist.

7. Environmental Health

Question #7a (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.

The Olympic Pipeline Company transmission pipeline runs parallel to Willows Road a half mile to the west. The project will not impact this transmission line.

Several underground storage tanks (USTs) are located in the project vicinity. One operational UST containing diesel is located at the York Pump Station (operated by King County Water Treatment Division) at the intersection of Willows Road NE and NE 124th Street. There are four operational USTs containing unleaded and leaded gasoline located at the Arco gas station at the intersection of Willows Road NE and NE 90th Street. The project does not propose any ground-disturbing activities in the areas surrounding these USTs, therefore they are not anticipated to impact the project.

Question #7a (5): Proposed measures to reduce or control environmental health hazards, if any:

The project proposes the following precautions to prevent the potential for contamination of sensitive areas: daily inspections of vehicles operated within 100 feet of any stream or waterbody; vehicle repairs for any leaks before resuming operations; use of staging areas for vehicle storage while not in use; and vehicle fueling at least 150 feet from any streams. Additionally, an SPCC plan will be implemented for the proposed project and spill response equipment will be on-site to respond to any potential fluid leakage.

8. Land and Shoreline Use

Question #8e: What is the current zoning classification of the site?

Willows Road is surrounded by parcels with the following zone classifications: business park, manufacturing park, urban recreation, and park and open space. The Willows Creek culvert is on a parcel zoned as business park and the Gun Club Creek culvert is on a parcel zoned as manufacturing park.

Question #8h: Has any part of the site been classified as a critical area by the city or county? If so, specify.

The City of Redmond classifies fish and wildlife habitat conservation areas (FWHCAs), wetlands, frequently flooded areas, critical aquifer recharge areas, and geologically hazardous areas as critical areas in Redmond Zoning Code (RZC) 21.64. Gun Club Creek and Willows Creek are designated as FWHCAs because they are “Waters of the State”. According to City mapping, the majority of the project area is mapped as Wellhead Protection Zone 4, with an area of Wellhead Protection Zone 2 mapped along the east side of Willows Road immediately north of NE 90th Street. City mapping also identifies nearly the entire project area as a seismic hazard area. The draft geological study states that the project area has a moderate risk of liquefaction.

Additionally, a seismic hazard Environmentally Critical Area (ECA) identified by King County encompasses the northern portion of the project area along Willows Rd NE between NE 116th Street and NE 124th Street.

Details regarding the locations, project impacts, and regulatory implications of critical areas are included in the Critical Areas Report (August 2018).

9. Housing

See SEPA Checklist.

10. Aesthetics

See SEPA Checklist.

11. Light and Glare

See SEPA Checklist.

12. Recreation

Question #12a: What designated and informal recreational opportunities are in the immediate vicinity?

Willows Run Golf Complex is immediately east of the project area along Willows Road between NE 100th Court and NE 116th Street. Sammamish Valley Park is also immediately east of the project area along Willows Road between NE 116th Street and NE 124th Street. There are several recreation businesses located within the business parks on either side of Willows Road including Arena Sports Redmond, Eastside Gym, Vertical World Redmond, and PRO Club Redmond.

13. Historic and Cultural Preservation

See SEPA Checklist.

14. Transportation

See SEPA Checklist.

15. Public Services

See SEPA Checklist.

16. Utilities

See SEPA Checklist.