SEPA ENVIRONMENTAL CHECKLIST

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.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [HELP]

1. Name of proposed project, if applicable:

   2021 Fall City Wastewater Project

2. Name of applicant:

King County Department of Local Services

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

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Fall City Capital Project Manager
Department of Local Services
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4. Date checklist prepared:

October 14, 2022

5. Agency requesting checklist:

King County

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

Construction would take 9 to 12 months, starting once permits are in hand (anticipated for summer 2023).

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

There will be two additional future phases to increase system capacity:

In approximately 2033, a 15-percent additional capacity over current flows would be added to the existing systems. Additional surge, treatment, and clarifying tank size would need to be revisited as the system expands to the allowed capacity of 49,950 gallons per day (gpd). The initial subsurface drip irrigation dosing time would also be increased and/or additional subsurface drip irrigation zones added , as supported by the future code and regulations.

An additional project phase (in approximately 20 years or 2043) would increase system capacity to about 25-percent greater than the current flows, which is anticipated to be full buildout of all lots and add existing lots that opted to not join the system because they currently have compliant systems. This phase would require additional land for an additional large on-site sewage system (LOSS) and LOSS reserve area.

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

A Wetlands and Streams Technical Memorandum was prepared in 2021 documenting wetlands and streams within the vicinity of the project. An Existing Conditions Technical Memorandum was also prepared in 2021 documenting other environmental information such as: shorelines, threatened and endangered species, and channel migration areas.

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

No other known applications are pending for governmental approvals of other proposals directly affecting the project area.

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

The following government permits will be needed for the project:

- Large On-Site Sewage System Approval (Washington Department of Health [DOH])
- Large On-Site Sewage System Operating Permit (DOH)
- National Pollutant Discharge Elimination System Construction Stormwater General Permit (Washington Department of Ecology)
- Clearing and Grading Permit (King County)
- Land Use Permit (King County)
- Floodplain Development Permit (King County)
- Shoreline Substantial Development Permit (King County)
- Washington Department of Transportation (WSDOT) Utility Accommodation Application Permit (WSDOT)
- WSDOT General Permit (WSDOT)

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

This wastewater project is primarily a repair project, to replace existing failing septic tank systems on up to 46 parcels in the Fall City Business District (FCBD) with a new decentralized treatment LOSS and subsurface irrigation reuse/disposal system. The existing lack of adequate wastewater infrastructure limits residents' ability to develop and use their properties, and comprises a significant health and environmental hazard.

The project involves the following elements:

- Replacement of up to existing 46 septic tank systems that are nonconforming or failing and abandoning existing drain fields. Existing tanks will be abandoned in place and filled with material (e.g., pea gravel, on-site soils, or cement). Any backfilling on site would use on-site soils.

- Installing a pressurized conveyance system and a pre-treatment facility. This will include flow equalization, aerobic treatment, and nitrogen removal (if required).

- Constructing a drainfield in Bernard Park covering up to 30,000 square feet of area. Installing the drainfield will include excavation through existing fill to place the drainfield lines on native soil.

  This LOSS treatment system will be constructed with clearing, grading, and excavation activities.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The proposed project elements are located as follows:

- Replacement of existing septic tanks: up to 46 parcels within the Fall City Business District, in Sections 14 and 15, Township 24N, Range 7E (see **Figure 1** and shaded area in **Figure 2**).

- Pre-treatment facility: parcel outside the Fall City Business District: 4212 34th Pl SE, Fall City, 98024, Parcel # 6730700090, in Section 14, Township 24N, Range 7E (see pre-treatment area shown in **Figure 2**).

- Drainfield: Bernard Memorial Park (4188 Preston-Fall City Road SE, Fall City, WA 98024), Parcel 1424079050) in Sections 14 and 15, Township 24N, Range 7E The The site plan is presented on **Figure 2**. A closeup of the LOSS treatment area at Bernard park, along with topographic contours is shown on **Figure 3**.

B. Environmental Elements [HELP]

Earth [help]

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

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

The steepest slope on the site is approximately 0%.

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

The majority of the Fall City Business District (95%) consists of Puyallup fine sandy loam is present on the site. The typical soil profile is ashy fine sandy loam (0 inches to 8 inches), very fine sandy loam (8 inches to 34 inches), and sand (34 inches to 60 inches). The northwest corner of the Fall City Business District consists of Everett very gravelly sandy loam, 0 to 8 percent slopes. The typical soil profile is slightly decomposed plant material (0 inches to 1 inches), very gravelly sandy loam (1 inches to 24 inches), very gravelly loamy sand (24 inches to 35 inches), and extremely cobbly coarse sand (35 inches to 60 inches).

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

There is no known history of unstable soils in the project area. The business district is protected from river channel migrations by levees/revetments.

King County iMap maps severe and moderate channel migration hazards along the Raging River on and overlapping with the eastern boundary of Bernard Park **(Figure 7**).

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.

Excavation will occur in more than one area:

Septic tanks on properties: At each of the up to 46 failing septic tank sites, the existing tank will be decommissioned in place. A new tank (up to 8 feet in diameter) will be buried up to 7 feet deep nearby. Placement of the new tank will require excavation of material to place the tank. Excavated soils not needed for backfilling around the new tank will either be removed offsite, or used on site to fill the decommissioned tank. Alternately, the decommissioned tank may be filled with pea gravel brought from a commercial off-site facility, or filled in place with low density concrete. Precise decommission method and amount of excavations needed are in development.

Pre-treatment facility site: The pre-treatment facility will be comprised of a series of buried tanks. These tanks will include a surge tank that will equalize incoming wastewater flow through the treatment system. After passing through the surge tank, flow will be routed through the treatment units that will provide aerobic treatment to reduce biological oxygen demand (BOD), total suspended solids (TSS), and nitrogen. After treatment, flow will be routed to a clarifying tank where it will be stored until is pumped to the LOSS drain field. Excavation will be required to bury all of these tanks. A portion of the excavated materials will be used to backfill and bed the tanks and the remainder will be hauled offsite for disposal. Precise quantities of excavation are in development.

Conveyance System and Connections: Temporary excavation will be needed for placing about 3,000 feet of pipe linking the connection properties to the pre-treatment facility and LOSS . A trench 12 to 18 inches wide and 4 to 6 feet deep will be required. Temporarily excavated material will be used to backfill the trench. Precise quantities of this temporarily excavated fill are in development.

Septic drainfield at LOSS site: In the drainfield to be constructed at Bernard Park, several beds will be temporarily excavated for placing the drainfield pipes. Up to 1 to 3 feet of fill will be excavated to reach the native soil; this fill will be stockpiled nearby during construction.

Pipes will be placed directly on native soil and the stockpiled soil will then be replaced on top of the pipes. Topsoil may be imported onto the site to be placed over the existing soils to support restoration replanting. Additional sand may be required to be imported beneath the drain field to provide an additional level of treatment prior to dispersal into the ground. Precise quantities of this temporarily excavated fill are in development.

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

Erosion has potential to occur as a result of clearing, grading, and excavation for installation of the LOSS, the pre-treatment facility, and during placement of new septic tanks and connecting pipes. However, the sites are relatively flat, and BMPs will be in place.

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

The project would result in less than 500 square feet of new impervious surface, consisting of the roof of a utility shed, and small lids such as 24" diameter manhole risers around septic features.

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

Appropriate best management practices (BMPs) will be followed to reduce or control erosion. These BMPs may include covering exposed soil during construction, silt fences or wattles, etc. These BMPs will be identified as design progresses.

2. Air [help]

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, generally describe and give approximate quantities if known.

Construction may result in emissions such as dust and fuel dispensing or storage.

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

No off-site sources of emission or odor are anticipated to affect the project.

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

Appropriate BMPs will be followed to reduce or control emissions. These BMPs may include limiting equipment/vehicle idle time during construction and appropriate dust control BMPs will be identified as design progresses.

3. Water [help]

a. Surface Water: [help]

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 Snoqualmie River flows north immediately north of the project area. The Snoqualmie River is a Type S stream (shoreline) and flows into the Puget Sound north of Everett, WA (**Figure 3**).

The Raging River flows north immediately east of the project area. The Raging River is also a Type S stream (shoreline) and flows into the Snoqualmie River immediately northeast of the project area (**Figure 3**).

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.

At its closest point to the described waters, the drainfield will be approximately 160 feet south of the Snoqualmie River as the river is mapped in King County GIS, and approximately 200 feet south of the OHWM delineated by Jacobs in summer 2022 (**Figure 3**).

At its closest point to the described waters, the drainfield will be approximately 200 feet west of the Raging River as the river is mapped in King County GIS, and per the OHWM delineation performed by Jacobs in summer 2022 (**Figure 3**). The drainfield features will not overlap with the area mapped as channel migration hazard along the Raging River.

Four to five of the northwestern properties have existing tanks that will be abandoned in place and are 60 to 100 feet from of the Snoqualmie River as the river is mapped in King County GIS. Replacement tanks will be installed as far from the river as allowable by the properties and the hydraulics of the system. Precise locations are currently under development.

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.

No fill or dredge material will be placed in or removed from the Snoqualmie or Raging Rivers.

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

The proposal is not expected to require surface water withdrawals or diversions.

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

The proposed drainfield lies within the 100-year floodplain (**Figure 4**). The proposed septic tank replacements do not lie within the floodplain (see **Figure 2**).

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

The project will not discharge waste materials to surface waters. Treated wastewater will be dispersed into the ground in the drainfield.

b. Ground Water: [help]

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No groundwater will be withdrawn as part of this project. It is anticipated that no groundwater would be encountered during construction, as sites are all at least 10 feet above the level of groundwater during the wettest months. Treated water from the drainfield will filter down to groundwater as intended; the project is being designed to handle current (9,400 to 19,600) and future (11,700 to 23,400) gpd.

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.

Existing septic tanks will be excavated and replaced with septic tanks with pumps on up to 46 separate sites. Linear excavation will occur to construct a small-diameter pressurized sewer to connect the replaced septic tanks to the pretreatment location(located south of the LOSS Site).

The pretreatment area will include the following:

- Three 15,000-gallon surge tanks with Nibbler dosing pump
- A series of Aerobic treatment units
- One 20,000-gallon clarifying tank
- One 5,000-gallon dosing pump tank

Clearing and excavation activities will occur to install the pretreatment area. Pretreated sewage waste from the pretreatment area will be discharged into the ground from a subsurface drip LOSS system. The subsurface drip irrigation system will use drip tubes with root intrusion protection emitters. The drip tubes will be buried a minimum of 8 inches deep into native soil and spaced 12 inches apart. The emitters will be spaced 12 inches apart along the drip tubes.

c. Water runoff (including stormwater):

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

The main source of runoff will be stormwater from precipitation on site. The method of stormwater collection and disposal will be determined as design progresses.

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

As construction equipment will be on site, there is potential for construction-related waste material to enter ground or surface waters due to accidental spills or mechanical failures. BMPs will be in place to prevent such an occurrence.

Any septic system has the potential to leak untreated wastewater into the ground before it reaches a treatment facility. However, this scenario is not anticipated with the new installations. Furthermore, untreated wastewater is currently leaking into the groundwater from aging systems, which this project will decommission and replace with non-leaking updated facilities.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

The project is not anticipated to alter or affect drainage patterns in the vicinity of the site.

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

Appropriate BMPs will be followed to reduce or control stormwater runoff. These BMPs will be identified as design progresses.

4. Plants [help]

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

_☒_deciduous tree: alder, maple, aspen, other (black cottonwood)
_☒_evergreen tree: fir, cedar, pine, other
_☒_shrubs
_☒_grass
_☐_pasture
_☐_crop or grain
_☐_Orchards, vineyards or other permanent crops.
_☐_wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
_☐_water plants: water lily, eelgrass, milfoil, other
_☐_other types of vegetation

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

Only field grasses will be removed at the LOSS site. At the pretreatment site and up to 46 septic tank sites, temporary excavation will disturb a range of vegetation conditions, including gravel driveways, paved areas, landscaped areas, and lawn.

A few small trees may need to be removed as part of the placement of new septic tanks and the pre-treatment facility.

All disturbed surface will be restored to pre-construction conditions. Grassy areas will be re-seeded after construction. Bernard Park's existing grassy habitat will be replaced. Precise

square footage of the temporarily disturbed area in the park is being determined based on soil analyses.

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

No threatened and endangered plant species are known to be on or near the site.

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

All temporarily disturbed areas will be re-seeded with native grasses.

e. List all noxious weeds and invasive species known to be on or near the site.

Himalayan blackberry (*Rubus armeniacus*) and knotweed (*Fallopia sp.*) are present. These are Class C and Class B noxious weeds respectively per King County's Noxious Weed Control Program.

5. Animals [help]

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.

Examples include:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _unknown fish species_

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

According to the U.S. Fish and Wildlife Service's IPaC, the North American Wolverine (*Gulo gulo luscus*, proposed threatened), marbled murrelet (*Brachyramphus marmoratus*, threatened), yellow-billed cuckoo (*Coccyzus americanus*, threatened), and bull trout (*Salvelinus confluentus*, threatened) are potentially on or near the site.

Habitat is not present for marbled murrelet (mature to old growth conifer stands and marine waters), wolverine (wilderness areas far from urban area), or yellow-billed cuckoo (large contiguous stands of densely vegetated riparian corridor at least 300 acres in size). Streaked horned lark use prairie or grassland, coastal beaches, agricultural fields or dredge spoil islands with very sparse low vegetation. The project site does not contain the size and exposed soils that constitute acceptable habitat for this subspecies. Bull trout can be found in the Snohomish River basin, which includes the Snoqualmie River and Raging River. Though their main populations are in the Skykomish River, Salmon Creek, and Troublesome Creek, bull trout were observed in 2000 in the Snoqualmie River between the Raging River and Tolt River (Snohomish Basin Salmon Recovery Forum 2005; Solomon and Boles 2002). The Snohomish Basin Salmon Recovery Forum (2005) note that it is presumed that adults use the Snoqualmie Watershed for foraging.

According to NOAA Fisheries' Protected Resources App, Puget Sound Chinook salmon (*Oncorhynchus tshawytscha*, threatened) and Puget Sound steelhead (*O. mykiss*, threatened) are potentially in the Snoqualmie River and Raging River, which are adjacent to the project site.

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

The entire Puget Sound area is part of the Pacific flyway migration route for songbirds.

The Snoqualmie River and Raging River serve as a migration route for fall chum, fall Chinook salmon, coho salmon, pink salmon (odd year), and summer and winter steelhead.

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

This project is not anticipated to negatively impact wildlife. Instead, this project will improve fish habitat by more efficiently treating sewage at homes adjacent to fish-bearing rivers, and by repairing existing failing sewage treatment near these rivers.

e. List any invasive animal species known to be on or near the site.

No known invasive animal species are known to be on or near the site.

6. Energy and Natural Resources [help]

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.

Electricity will be used to operate the LOSS.

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

This project would not affect the use of solar energy by adjacent properties.

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:

Appropriate energy conservation features may be followed to conserve energy. These features will be identified as design progresses.

7. Environmental Health [help]

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

Construction of the project would have risk of leaks or spills from construction equipment that is typical of any construction project involving vehicles. BMPs would be in place to reduce this risk.

1) Describe any known or possible contamination at the site from present or past uses.

Search results from the Washington Department of Ecology's (Ecology) Facility/Site Map Search revealed 5 contaminated sites within the FCBD (**Figure 5**). They are briefly described below:

- Eastlake Auto Center, 33364 SE Redmond Fall City Road, FS ID 5344, Undergoing Local Source Control work (technical assistance), completed 2010.
- Centurytel Fall City, 4210 335th Pl SE, FS ID 73418725, business is storing 10,000 pounds or more of a hazardous chemical or 500 pounds or less, depending on the extremely hazardous chemical and reports annually, ongoing.
- Model Garage Fall City, 33805 SE Redmond Fall City Rd, FS ID 15803, Undergoing Local Source Control work (technical assistance), completed 2010.
- Fall City TEXACO, 4211 Preston Fall City Rd SE, FS ID 77275183, Undergoing Local Source Control work (technical assistance and completed 2010). Also recorded a release related to a regulated leaking underground storage tank system in 1989.
- Fall City Exxon Market & Deli, 4224 Preston Fall City Rd SE, Undergoing Local Source Control work (technical assistance and completed 2010) and has an underground storage tank system.

Search results from Ecology's What's in My Neighborhood: Toxics Cleanup map revealed 1 cleanup site within the FCBD (**Figure 6**). The Chevron 90709 site (Facility Site ID: 77275183) has started cleaning up its soil and groundwater which is contaminated with gasoline related to the spill in 1989 as referenced above.

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.

Natural gas is available in the Project Area. Other existing hazardous chemicals/conditions are related to gasoline and other unknown sources (as listed in question 1).

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.

Fuel for construction equipment and vehicles may be stored and used onsite during construction. The project would comply with all City and Ecology requirements and BMPs for construction within a mapped floodplain.

4) Describe special emergency services that might be required.

No special emergency services will be required as a result of this proposal.

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

Appropriate BMPs will be followed to reduce or control environmental health hazards. These BMPs will be identified as design progresses.

b. Noise

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

Existing noise from traffic and the residential community is not anticipated to affect the project.

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

Temporary construction noise would be emitted during project construction. Operation and maintenance activities may generate noise; however, these will be minimal.

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

Appropriate BMPs will be followed to reduce or control environmental health hazards. These BMPs will be identified as design progresses.

8. Land and Shoreline Use [help]

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.

The current use of the proposed LOSS site, and pretreatment is a privately owned park (Bernard Memorial Park). The use of adjacent sites and the Fall City Business District is comprised of single-family housing and small businesses. This project is not anticipated to affect current land uses on nearby or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If 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 nonfarm or nonforest use?

The project site has not been used as working farmlands or working forest lands.

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:

The project will not affect or be affected by surrounding working farm or forest land. The closest working farm is north of the project across the Snoqualmie River.

c. Describe any structures on the site.

There are no structures on the proposed LOSS Site. There is one building (a garage) adjacent to the proposed pretreatment site. The rest of the Fall City Business District area has small-family structures, small commercial buildings, and two gas stations.

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

No buildings would need to be demolished for the project.

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

The proposed LOSS Site and one residential property are zoned Community Business-Property specific development standards – Special district Overlay (CBPSO). The rest of the properties in the project area are zoned CBSO (Community Business - Special district Overlay).

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

The current comprehensive plan designation of the project area is Rural Towns.

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

The proposed LOSS Site has a shoreline master program designation of High Intensity Shoreline. The proposed pretreatment site has a shoreline master program designation of Residential Shoreline.

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

According to the Wetlands and Streams Technical Memorandum (2021) and the Existing Conditions Memorandum (2021), the following critical areas as defined in King County Code 21A.24 are on the proposed LOSS Site:

- Aquatic areas (Snoqualmie and Raging Rivers)
- Seismic hazard area
- 100-Year floodplain
- Wildlife network associated with the Snoqualmie and Raging Rivers
- Channel migration hazards along the Raging River boundary

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

No people would reside on the LOSS or pre-treatment site. The up to 46 replaced septic systems occur on parcels where residents or businesses are already present. A third-party contractor would be hired to operate and maintain the system.

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

No displacement is anticipated.

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

No displacement is anticipated; therefore, there are no proposed measure to avoid or reduce displacement impacts.

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

The project's design and construction will meet all requirements of the Washington State Department of Health for LOSS systems, as well as the requirements for the Shoreline Master Program of King County should project elements be within 200 feet of the shoreline of Snoqualmie River, and work within a floodplain and near mapped channel migration hazards The project meets current allowable uses within the zoning of the Fall City Business District, the pretreatment area and Bernard Park area, and will not require a conditional use permit. The project's purpose is to bring currently non-conforming septic systems to a state where parcel owners can effectively use and develop their land. The project is being designed such that additional phases can be made compatible with projected future land uses.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

No impacts to agricultural and forest lands are anticipated; therefore, there are no proposed measure to avoid or reduce displacement impacts.

9. Housing [help]

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

No housing units are proposed to be provided.

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

No housing units are proposed to be eliminated.

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

No impacts to housing are anticipated; therefore, there are no proposed measure to avoid or reduce housing impacts.

10. Aesthetics [help]

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

The highest structure would be the pretreatment equipment shed. Its height would be at or less than 1 story tall. Precise building plans are under development.

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

Temporary views may be altered or obstructed during construction for those houses with a view of the construction area. No permanent views would be altered or obstructed.

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

Temporary impacts from construction would be of short duration and limited to the sight of construction equipment. Furthermore, no permanent impacts to aesthetics are anticipated. Therefore, there are no proposed measures to avoid or reduce aesthetic impacts.

11. Light and Glare [help]

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

Temporary lighting may be needed during construction toward the beginning and end of workdays. No lights would be directed towards the rivers. No permanent lighting would be produced.

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

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

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

No off-site sources of light or glare are anticipated to affect the project.

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

Temporary light impacts from construction would be of short duration. Furthermore, no permanent impacts from light and glare are anticipated. Therefore, there are no proposed measures to avoid or reduce light and glare impacts.

12. Recreation [help]

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

The proposed LOSS Site is on a privately-owned park (Bernard Memorial Park) that is informally used for water-based recreational activities associated with the Snoqualmie River. Occasionally, Fall City utilizes the park for community events.

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

Construction may temporarily limit access to the Snoqualmie River through the Bernard Park parcel's open field. Access would still be available along the casual trails close to the water.

The water treatment system that is proposed for the LOSS Site is mostly underground and is not expected to displace existing recreational uses during operation.

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

Temporary recreational impacts from construction would be of short duration. Furthermore, no permanent impacts to recreation are anticipated. Therefore, there are no proposed measures to avoid or reduce recreational impacts.

13. Historic and cultural preservation [help]

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 ? If so, specifically describe.

Yes. A portion of the project area is in downtown Fall City, with a number of historic-aged structures and buildings nearby. Within the project area specifically, the Prescott-Harshman House has been determined eligible for listing on the National Register of Historic Places (NRHP) and the David Taylor House, is recommended as not eligible. The project will have no effect on these buildings.

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.

There are no archaeological sites within the project area. Archaeological monitoring for the geotechnical studies in the LOSS was conducted in 2021, reported in *Archaeological Monitoring Technical Memorandum, 2021 Fall City Wastewater Project, King County, Washington* (Sterner 2022). No cultural resources were recorded during the archaeological monitoring. An archaeological survey of the Project Area was conducted in 2022, reported in *Cultural Resources Technical Report, Fall City Community Sewer Project, King County, Washington* (Elliott, Wiegand and Yellin 2022). The archaeological survey excavated 121 screened shovel probes in the project area with no archaeological materials identified. Numerous pre-contact archaeological sites are located in the project vicinity. The closest of these to the project area are: 45-KI-20, a potential pre-contact village site that is unevaluated, 45-KI-144, the Indian/Fall City Cemetery listed on the NRHP, and 45-KI-263, Snoqualmie Village/Chief Sanawa's Longhouse, previously determined eligible for listing on the NRHP. The project will have no effect on any known landmarks or features of Indian use, including the recorded archaeological sites and cemetery.

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 archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Prior to any predesign ground disturbance, the Washington Information System for Architectural and Archaeological Records Data (WISAARD) database and the King County Cultural Resources Protection database, both GIS-based databases, and historic maps, building records and aerial photographs were reviewed for recorded, reported, and suspected

historic properties in the Project Area. These reviews are included in the two technical reports cited in section 13.b. (above). Prior to each archaeological fieldwork session, notifications were sent to the cultural resources staff of the Muckleshoot Indian Tribe, Snoqualmie Tribe, and the Tulalip Tribes. Snoqualmie Tribe cultural resources staff participated in the archaeological survey reported in Elliott, Wiegand and Yellin (2022). Continues coordination with these three Tribes is anticipated through the EO 21-02 process for this project.

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.

The project is receiving funding from the Washington State Department of Commerce and has no federal nexus and is thus subject to EO 21-02 review. This project is DAHP Project Number 2021-11-07889 on WISAARD. As part of EO 21-02 compliance the project has conducted extensive background research, archaeological monitoring, extensive screened shovel probe survey, and building evaluations. No known cultural resources of any kind will be affected by the project. Additionally, an Archaeological Monitoring Plan and Inadvertent Discovery Plan will be drafted and in effect during project construction. It is anticipated that the installation of the main transmission line will be monitored by a professional archaeologist. Any resources encountered during construction will be evaluated and consultation with the Department of Archaeology and Historic Preservation and affected Tribes will occur.

14. Transportation [help]

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 streets serving the Fall City Business District area are outlined by Redmond-Fall City Rd SE (east to west on the northern side), Preston-Fall City Rd SE (north to south on the eastern side), SE 43rd St (east to west on the southern side), and 334th Pl SE (north to south on the western side).

Proposed construction access will be via the residential roads in the bounded area above to replace septic systems and install the septic line. Proposed access to the LOSS Site will be via Preston-Fall City Rd SE and SE 340th Place.

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

The Snoqualmie Valley Transit line serves the Fall City area within the Fall City Business District.

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

No parking spaces would be created or eliminated as part of this project. A new graveled entrance may eventually be constructed to access the pre-treatment facility or LOSS site but this would occur as part of a separate project.

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

No new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities are expected. As noted above, alternate gravel access may be created in the future as part of a separate project.

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

The project is not anticipated to use or occur in the immediate vicinity of water, rail, or air transportation.

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 and non-passenger vehicles). What data or transportation models were used to make these estimates?

Vehicular trips for the completed project would be minimal for maintenance and operation. Visits for required maintenance and water testing may occur monthly.

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.

The project will not interfere with, affect, or be affected by the movement of agricultural and forest products.

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

A Traffic Control Plan will be created to control transportation impacts during construction.

15. Public Services [help]

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

The project is not anticipated to result in an increased need for public services.

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

No impacts to public services are anticipated. Therefore, there are no proposed measures to avoid or reduce public service impacts.

16. Utilities [help]

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

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.

This proposed project is for construction of a LOSS, associated smaller OSS replacements, and construction of a sewer line. The project would be owned by the Fall City Sewer Association. As required by Ecology, the association would hire a 3rd party licensed to operate and maintain the system. Skagit County PUD would be the 3rd party guarantor responsible for managing any emergency actions associated with the system.

Please see the answer to 3b.2 for a description of the proposed work.

C. Signature [HELP]

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

Signature: 

Name of signee *Emily Drew*

Position and Agency/Organization *Consultant, Jacobs Engineering Inc.*

Date Submitted: *Oct 18 2022*

D. Supplemental sheet for nonproject actions [HELP]

(**IT IS NOT NECESSARY** to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

   Proposed measures to avoid or reduce such increases are:

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

   Proposed measures to protect or conserve plants, animals, fish, or marine life are:

3. How would the proposal be likely to deplete energy or natural resources?

   Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

   Proposed measures to protect such resources or to avoid or reduce impacts are:

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

   Proposed measures to avoid or reduce shoreline and land use impacts are:

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

   Proposed measures to reduce or respond to such demand(s) are:

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

References

Snohomish Basin Recovery Forum. 2005. *Snohomish River Basin Salmon Conservation Plan*. Salmon Conservation Plan. Snohomish County Department of Public Works, Surface Water Management Division. Everett, WA. https://www.govlink.org/watersheds/7/pdf/WRIA%207_Plan/Final_Compiled_Plan.pdf.

Solomon, Fran and Melissa Brooks. 2002. *Snoqualmie Watershed Aquatic Habitat Conditions Report: Summary of 1999-2001 Data*. King County Water and Land Resources Division. https://your.kingcounty.gov/dnrp/library/2002/kcr1212.pdf.

FIGURE 1
VICINITY MAP

Figure 1. Project Location and Vicinity

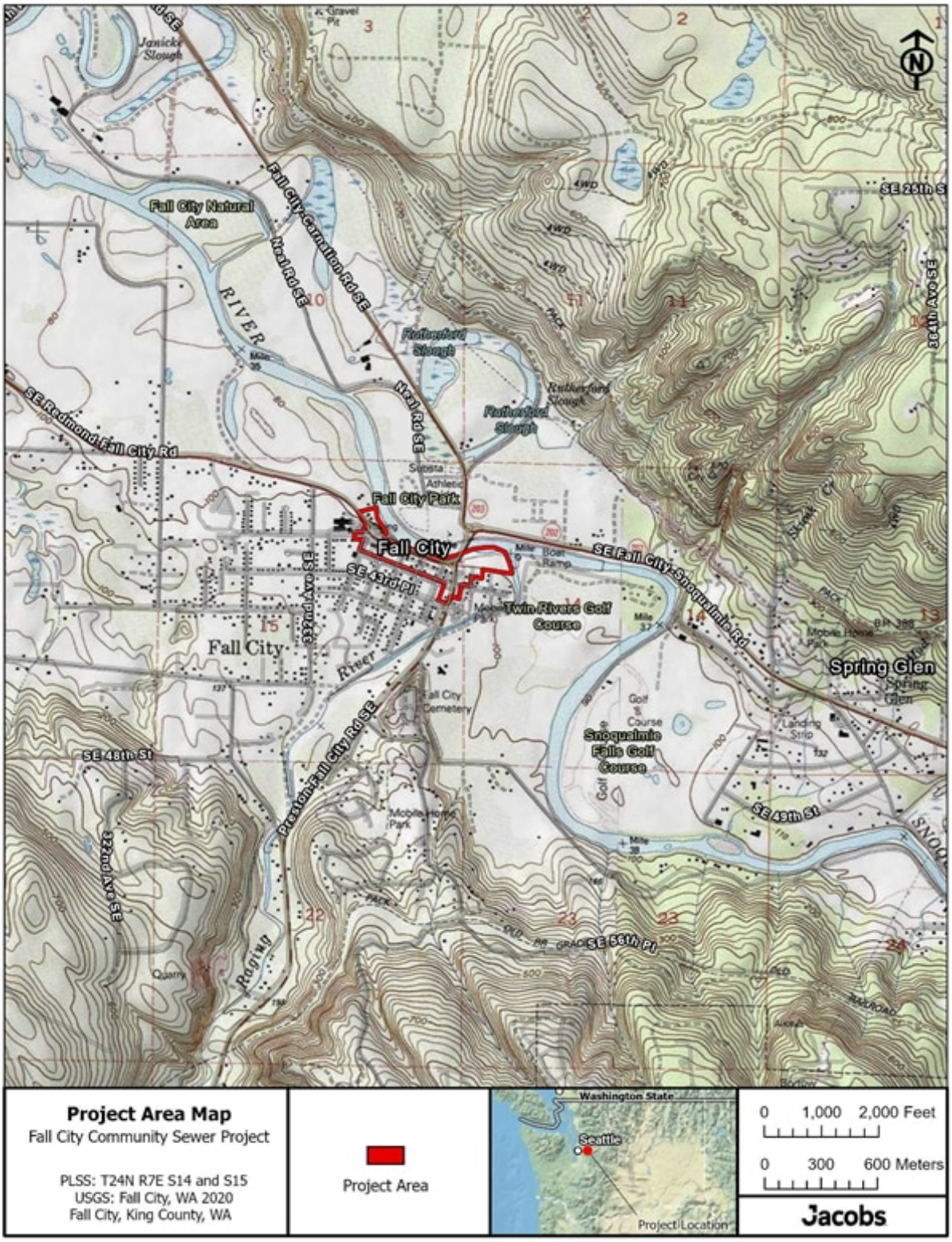
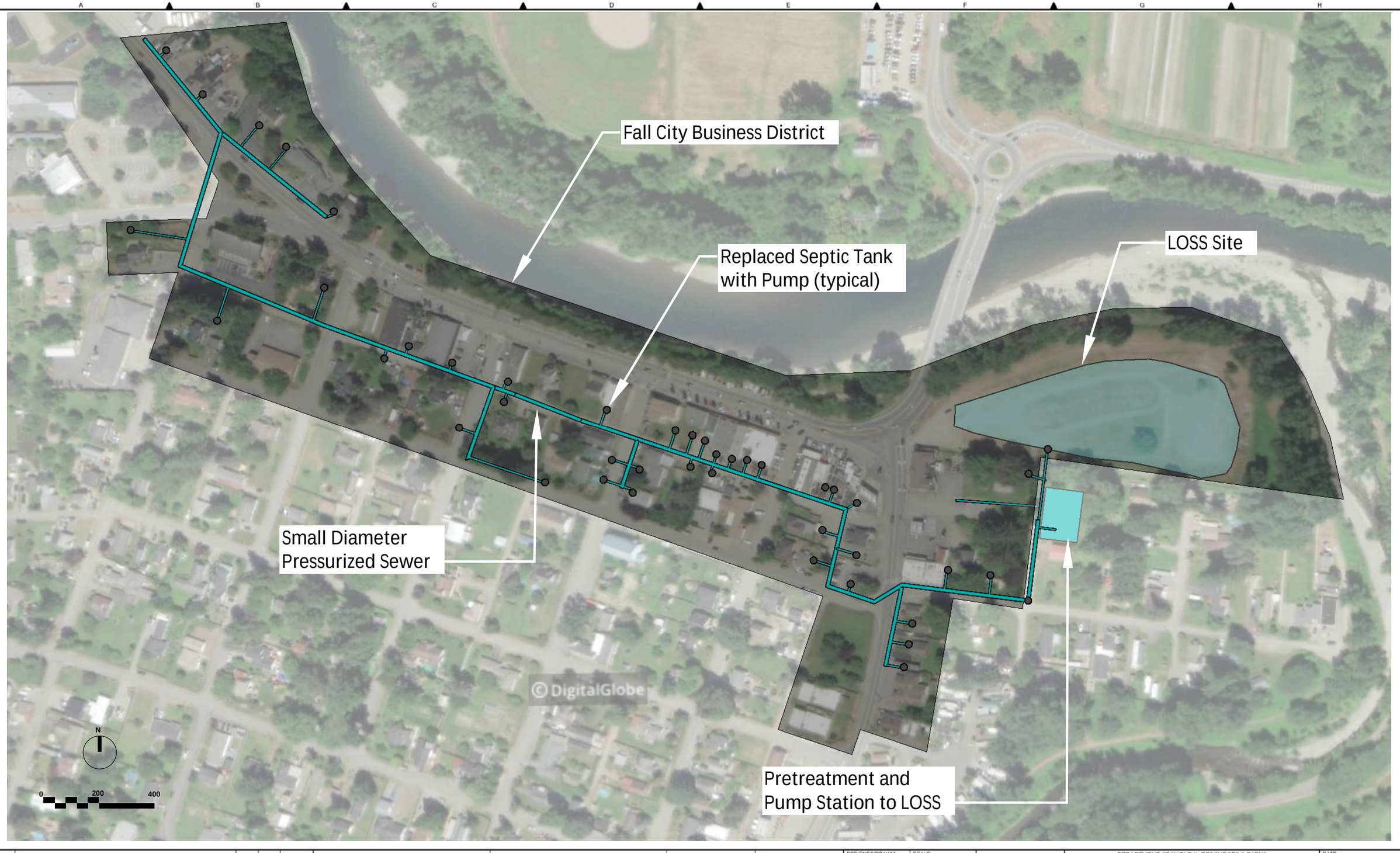


FIGURE 2
SITE PLAN



NO	REVISION DESCRIPTION	BY	APVD	DATE

Jacobs

DESIGNED/DRAWN:
DESIGN ENGINEER:
REVIEW ENGINEER: H. EMOND
SCALE:
WORK ORDER:
PROJECT NO:
CONTRACT NO:

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
2021 FALL CITY WASTEWATER

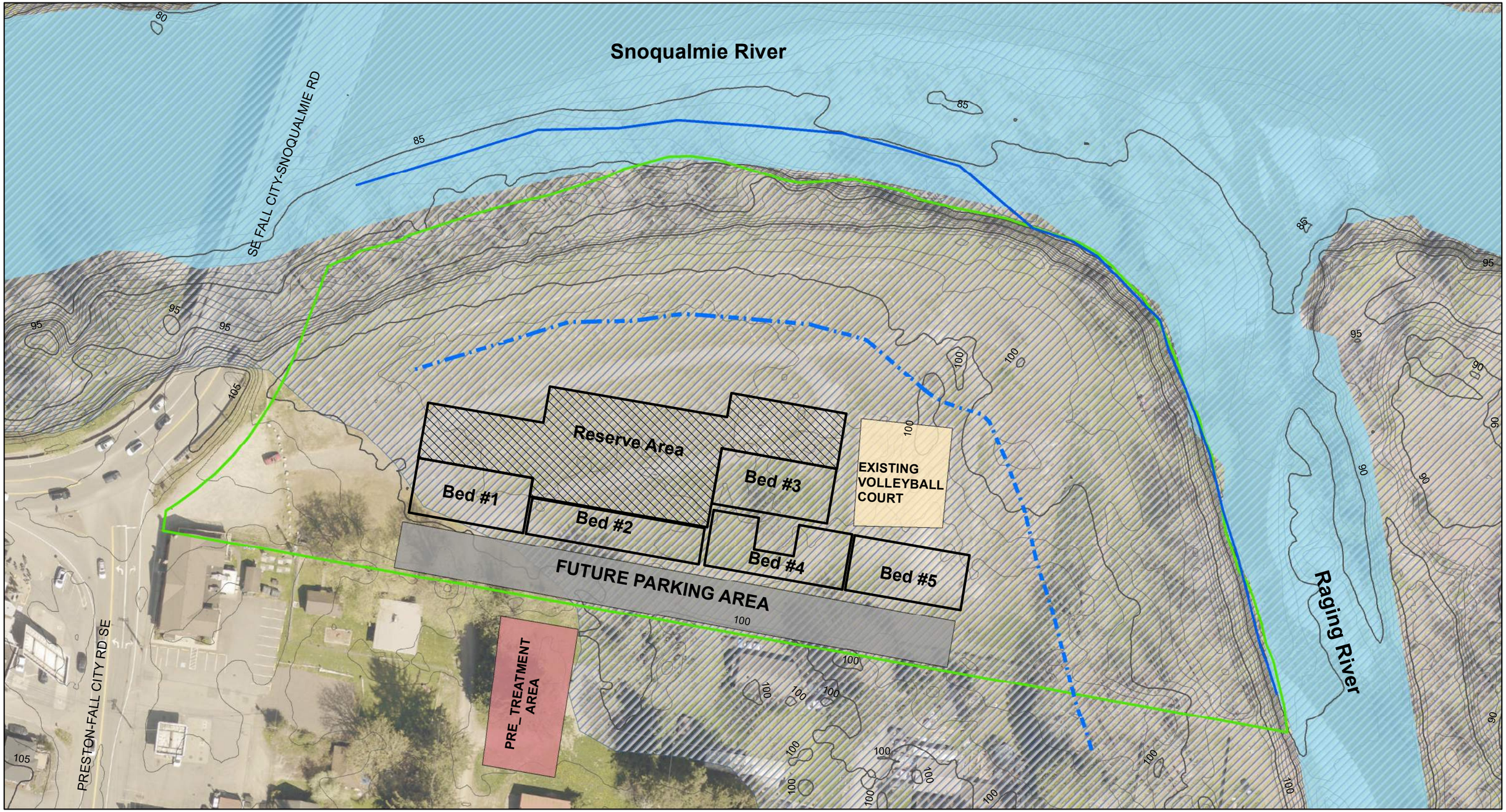
SITE PLAN - ALT 2

DATE: MAR 2022
DRAWING NO:
SHT NO / TOTAL
REV NO:

BORDER FILE EDITION: KCWTD-Dsize-TB-Border

FIGURE 3

MAP OF SNOQUALMIE RIVER AND RAGING RIVER



Legend

Drainfield Zone

- Primary Area
- Reserve Area
- Ordinary High Water Mark
- OHWM 165 feet Buffer
- LOSS Parcel Boundary
- FEMA 100-Year Floodplain
- Contours

N

0 40 80 160 240 Feet

DRAINFIELD LAYOUT
FALL CITY BUSINESS DISTRICT-BERNARD MEMORIAL PARK
2021 FALL CITY WASTEWATER PROJECT

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FIGURE 4

SNOQUALMIE AND RAGING RIVER 100-YEAR FLOODPLAIN

Legend

- Selected LOSS Site
- Project Area
- FEMA 100-Year Floodplain

N

0 150 300 600 900 Feet

FIGURE 4-4. SNOQUALMIE AND RAGING RIVER 100-YEAR FLOODPLAIN

2021 FALL CITY WASTEWATER PROJECT

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FIGURE 5

WASHINGTON DEPARTMENT OF ECOLOGY FACILITY/SITE MAP SEARCH

October 17, 2022

Ecology Facility/Site Project Area

Selected facility/site locations
Selected facility/site

Unselected facility/site locations
Unselected facility/site

Project Area

Eastlake Auto Center

Centurytel Fall City

Model Garage Fall City

Fall City Texaco

Fall City Exxon Market & Deli

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Airbus DS © 2022 TomTom
Esri, NASA, NGA, USGS, FEMA

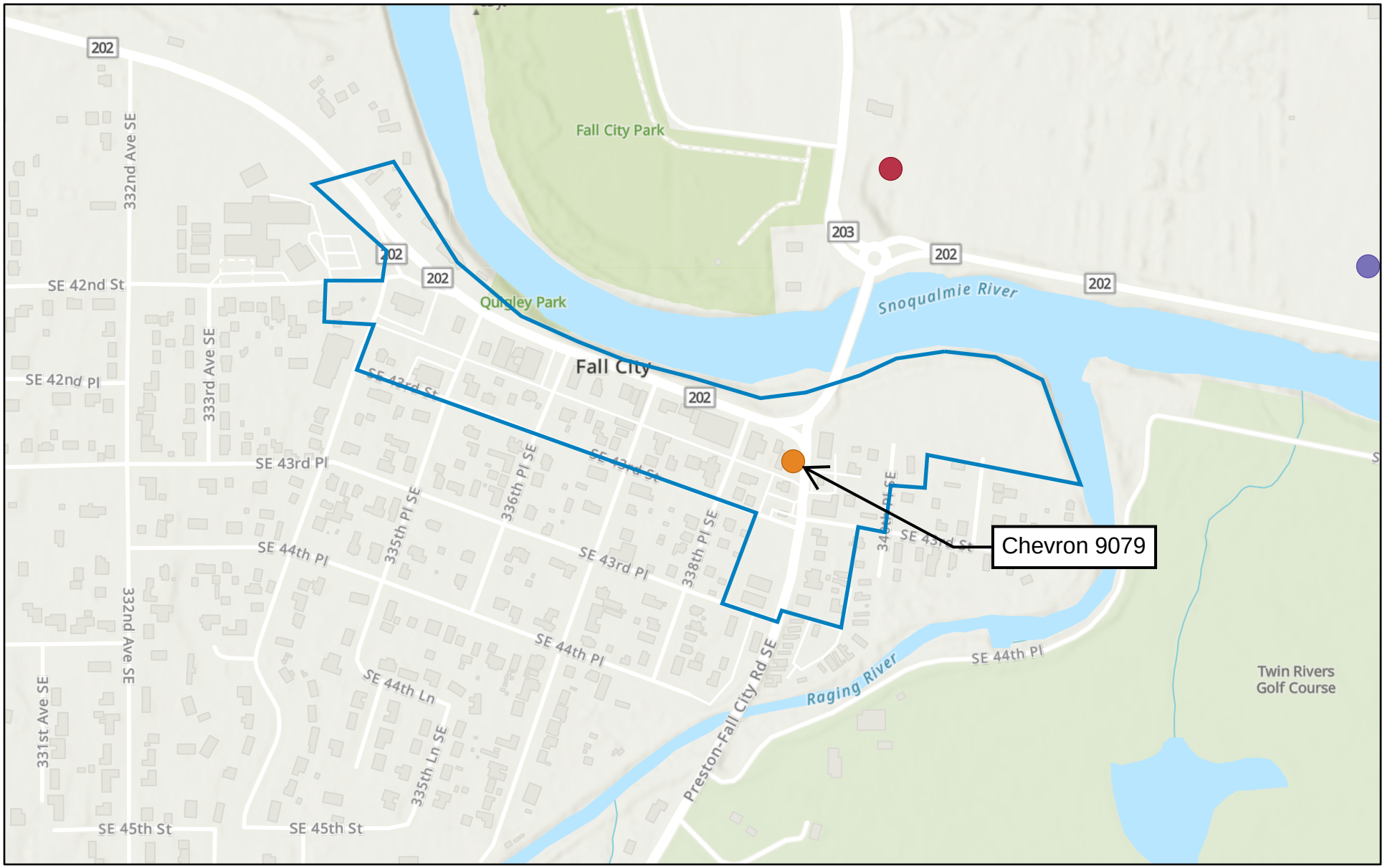
Miles
0 0.05 0.1 0.2

DEPARTMENT OF ECOLOGY
State of Washington

FIGURE 6

WASHINGTON DEPARTMENT OF ECOLOGY TOXICS CLEANUP MAP

Ecology Toxics Cleanup Project Area



10/13/2022

Cleanup Site Status

- Awaiting cleanup
- Cleanup started
- Cleanup complete
- Project Area

1:9,028

0 0.05 0.1 0.2 mi

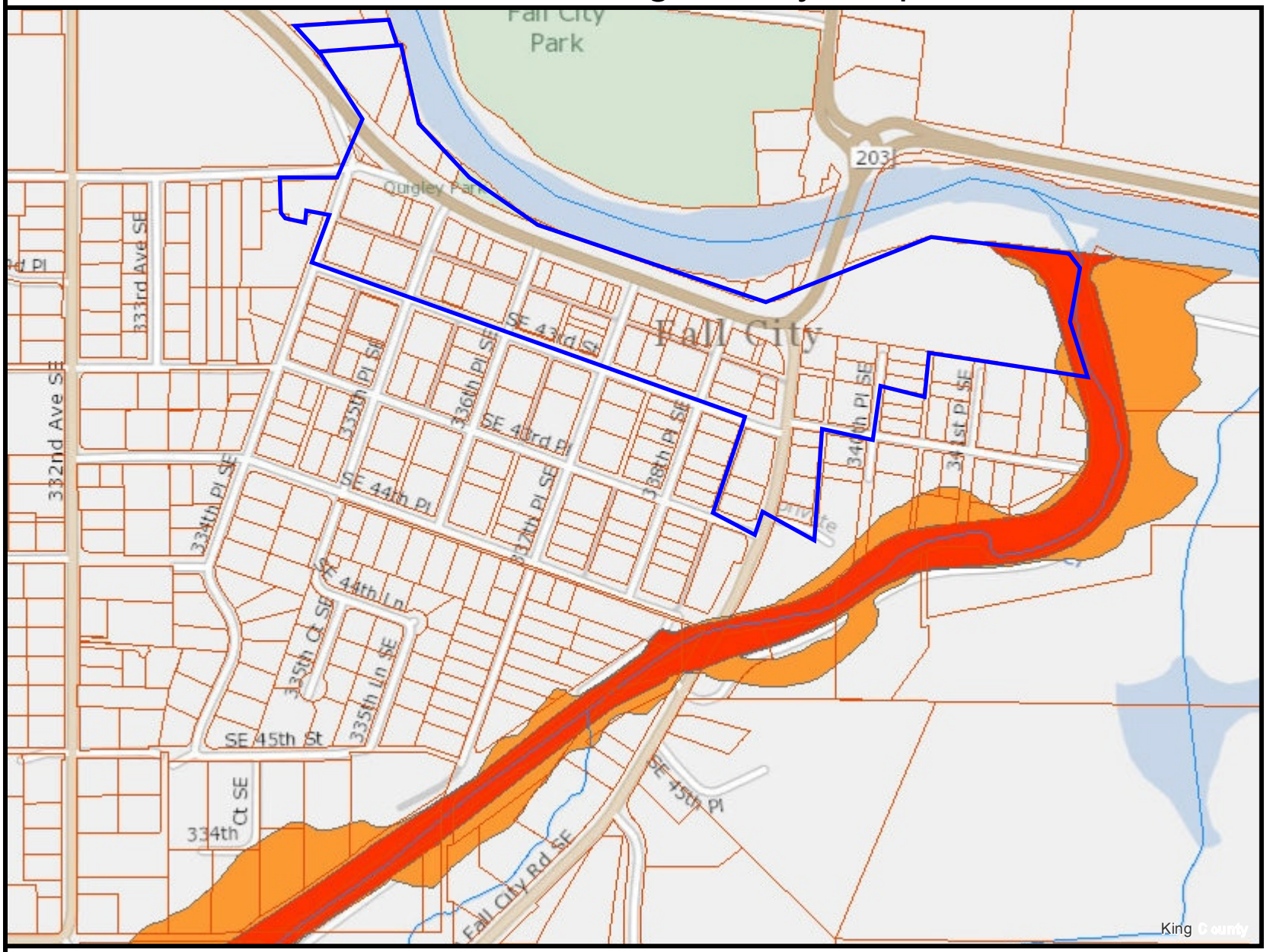
0 0.07 0.15 0.3 km

Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, King County, WA State Parks GIS, © OpenStreetMap, Microsoft, Esri, HERE,

FIGURE 7

RAGING RIVER CHANNEL MIGRATION ZONE MAP

King County iMap



Legend

- Parcels

Shoreline condition (2005 CAO)

- high
- medium
- low
- Streams

Channel migration hazard areas

- severe
- moderate

- project limits

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Date: 10/18/2022

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King County