SEPA checklist for

Whipple Creek Place Stormwater Facility Repair

A. Background

1. **Name of proposed project, if applicable:**

   Whipple Creek Place Stormwater Facility Repair

2. **Name of applicant:**

   Clark County Public Works Department

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

   Jennifer Taylor (564) 397-4227
   Clark County Public Works
   PO Box 9810
   Vancouver, WA. 98666

4. **Date checklist prepared:**

   June 10, 2020

5. **Agency requesting checklist:**

   Clark County Public Works Department

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

   Construction will occur in the summer/fall of 2021

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

   No plans exist for future additions, expansions, or further activity related to this proposal.

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

- 2020 Wetland Delineation and Critical Area Report for the Whipple Creek Place Stormwater Facility Repair Project, prepared by ICF for Clark County Public Works Department
- 2020 Cultural Resources Report for the Whipple Creek Place Stormwater Facility Repair Project, prepared by ICF for Clark County Public Works Department.
- 2019 Draft Whipple Creek Place Stormwater Facility Geotechnical Evaluation, prepared by Hart Crowser for Clark County Public Works Department

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.

The County does not know of any applications pending governmental approval for any proposals directly affecting the property.

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

- Project extends into Whipple Creek Place Master Association property and will require permanent easement for maintenance,
- U.S. Army Corps of Engineers Nationwide Permit 43, Stormwater Facility Maintenance (Section 404 of the Clean Water Act),
- Washington State Department of Ecology (Section 401 of the Clean Water Act),
- Washington Department of Fish and Wildlife (Hydraulic Project Approval), and
- Clark County Public Works Wetland and Habitat Permitting (Clark County Code Title 40)

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

The project intends to stabilize and repair erosion downstream from a failing stormwater facility at Whipple Creek Place development. The outfall will be reconfigured to limit future stream damage. The uncontrolled overflow is currently causing significant erosion on the northwest side of the facility and contributing sediment to Whipple Creek. If allowed to progress, the erosion could extend towards and damage the west retaining wall of the stormwater detention pond. The headcut is also contributing to sedimentation and high turbidity to Whipple Creek downstream from the project site, which supports winter steelhead.

The project team proposes a solution that includes:

- Extending a new outfall pipe from the existing pond outfall located at the top of the bioswale.
- Constructing an armored outfall discharge point located at the bottom of the adjacent ravine.
- Regrading the swale and eroded slope to limit risk of slope failure and/or provide mitigation plantings to offset environmental impacts and to increase stability of the slope.

- Removing two existing concrete weirs.

The project team identified a new outfall alignment through the existing bioswale after collecting environmental and geotechnical data. For stability and long-term success, the pipe will be continuous and below grade, running from the existing outfall through two new manhole structures connecting the new pipeline to existing retention pond storm pipes. The exposed end of the armored outfall will be protected by caging or grating.

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.

NW 152nd Street and NW 6th Avenue
Nearest address: 15202 NW 6th Avenue, Vancouver, Washington 98685
Parcel numbers 185575168 and 185595000
Township 03N Range 01E NW ¼ Section 22 (Figure 1, Project Location, and Figure 2, Study Area included at end of checklist)

B. Environmental Elements

1. *Earth*

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)?

35%

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 only soil mapped by United States Department of Agriculture's Natural Resources Conservation Service in the project area is Hillsboro silt loam. These soils are classified as "Farmland of Statewide Importance" and "Prime Farmland," yet these soils are present within a housing complex where development has already occurred, negating the soils' ability to be utilized for farming activities.

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

Areas of potential slope instability exist to the north and northwest of the project site surrounding Whipple Creek. These areas coincide with those labeled "Landslide Hazard Areas" and "Severe Erosion Hazard" within the Clark County geographic information system

(GIS) mapping. A limited evaluation of landslide potential in the vicinity of the Whipple Creek Place stormwater pond was conducted by Hart Crowser in 2019. Hart Crowser concluded conditions include marginally stable native ravine slopes. During that time, stormwater discharge from the pond was interpreted as the most significant cause of the instability observed.

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.

Regrading the swale and eroded slope will require 318 square feet of backfill material below ordinary high water. The bioswale will be finely graded to ensure the area drains evenly and does not create future erosion issues. Construction of the armored outfall discharge point located at the bottom of the ravine will require 373 square feet of rip rap. Rip rap will be 24- to 36-inch streambed boulders, which are rated as Class A erosion control and scour protection.

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

During construction, clearing, grading, excavating, soil stockpiling, or other construction activities that would temporarily remove vegetation or reduce soil stability could result in erosion. These types of activities would occur along the western slope of the project area that descends into the nearby draws and any impacts would be localized. Any temporarily disturbed vegetated areas would be revegetated or otherwise stabilized once construction is complete to mitigate future erosion. Shoring, or the process of stabilizing banks or trench walls to prevent erosion or collapse using shores or props, will be utilized during construction. This is to limit impacts on adjacent critical areas as well as provide a safer work environment while trenching for the outfall piping.

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

Zero percent of the site will be covered with new impervious surfaces as a result of the construction activity.

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

A project-specific temporary erosion and sediment control plan (TESC) will be prepared. Best Management Practices (BMPs) identified in the TESC will be followed to control the risk of erosion. In addition, existing vegetation would be preserved to the extent practicable. Erosion measures currently include straw wattles, erosion control blankets, and temporary seeding to hold disturbed soils in place. These measures would reduce or control erosion that might otherwise occur during ground-disturbing activities.

2. Air

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

Emissions from construction vehicles and equipment, such as backhoes and dump trucks, may temporarily affect local air quality during construction of the project. The emission

quantities have not been estimated; however, they are not expected to exceed local emission standards.

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

No offsite sources of emissions or odors are anticipated that would affect the project.

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

Air quality impacts would be temporary and limited to the period of construction. Construction crews would be required to implement measures to minimize impacts on air quality, including:

- Covering loads of excavated material,
- Cleaning vehicles and equipment prior to leaving the construction area,
- Installing and maintaining construction area entrances and exits,
- Removing soil deposited on public roads, and
- Performing proper vehicle maintenance.

3. Water

a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The project is approximately 700 feet from the confluence of Whipple Creek and an unnamed tributary to Whipple Creek. The unnamed ephemeral tributary (Washington Department of Fish and Wildlife [WDFW] permanent identifier # 149932588) is present on the project site and originates within the topographical lows on the project's western boundary. This ephemeral creek is dry for many months out of the year and flows during prolonged rain events.

Two wetlands were delineated near the project site. One is immediately west of the project area and is a Category III seasonally flooded, needle-leaved evergreen forested slope wetland. This wetland connects to the Whipple Creek Place Master Association wetland mitigation site immediately to the south of the project area. The second wetland is a Category III slope, seasonally saturated, scrub-shrub wetland immediately to the east of the unnamed tributary near where the discharge pad will be constructed (ICF 2020a).

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.

Work will require activities adjacent to the delineated wetlands and within the unnamed tributary to Whipple Creek (Figure 3). The 95% plan set shows the project and construction area in relation to these wetlands and waterway (Otak 2020).

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.

Regrading the swale and eroded slope will require 318 square feet of backfill material below ordinary high water. Construction of the armored outfall discharge point located at the bottom of the ravine will require 373 square feet of rip rap. Rip rap will be 24- to 36-inch streambed boulders, which are rated as Class A erosion control and scour protection. No filling or dredging will occur within the two wetlands.

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

The project does not propose to withdraw or divert surface waters.

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

None of the project is located within the 100-year floodplain.

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

The project would not involve any discharges of waste materials to surface waters.

b. Ground Water:

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.

The project would not withdraw groundwater from a well or discharge water to groundwater.

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.

The project would not discharge waste materials into the ground. The project does not propose any septic tanks or other sanitary waste treatment facility.

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.

Existing site conditions consist of a stormwater detention pond, immediately east of the project site, which connects to a horseshoe-shaped bioretention swale within the project site. Currently, flows from the detention pond are uncontrolled through the swale and overflow at the apex of the horseshoe swale, down a steep slope, and eventually discharge to the northwest into the unnamed tributary of Whipple Creek. This uncontrolled overflow is causing significant erosion headcut on the northwest side of the facility and is contributing sediment to Whipple Creek.

The swale is currently nonfunctional and will be graded smooth, temporarily seeded, and planted for mitigation. It will not exist after construction. Water from the pond will route through the new pipe and drainage structures from the existing outfall to the dispersion pad including at times of higher flows.

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

With the implementation of the project-specific TESC, any waste materials would be diverted away from entering nearby Whipple Creek and the associated groundwater beneath the project site.

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

This project intends to stabilize and repair erosion downstream from a failing stormwater facility outfall at Whipple Creek Place development. The outfall will also be reconfigured to limit future stream damage. The project will correct this failing outfall, discharges will be piped and directed downhill from the stormwater facility, and flows will be dispersed onto an energy dissipation pad consisting of quarry spalls.

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

All measures to reduce or control surface, ground, and runoff water, and drainage impacts will be outlined in the project-specific Stormwater Pollution Prevention Plan (SWPPP). The SWPPP will include, but not limited to, soil stabilization, sediment control, wind erosion control, vehicle tracking control, non-stormwater management, and waste management practice.

4. Plants

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

__√__**deciduous tree: alder, maple, aspen, other:** Willow *(Salix* sp*.),* Oregon ash *(Fraxinus latifolia)*, Oregon crab apple (*Malus fusca)*
__√__**evergreen tree: fir, cedar, pine, other**
__√__**shrubs**: black hawthorn ***(****Crataegus douglasii),*Sitka willow *(Salix sitchensis),* snowberry *(Symphoricarpos albus),* vine maple *(Acer circinatum),* Himilayan blackberry *(Rubus armeniacus),* salmonberry *(Rubus spectabilis*)
__√__**grass:** reed canary grass ***(****Phalaris arundinacea),* timothy *(Phleum pratense)*
____ **pasture**
____ **crop or grain**
____ **orchards, vineyards or other permanent crops.**
__√__ **wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other:** Showy maidern fern *(Thelypteris puberula)*
____ **water plants: water lily, eelgrass, milfoil, other**
____ **other types of vegetation**

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

A total of eight trees will be removed from the project site in order to complete the repair. These trees will be placed along the unnamed tributary as large woody debris along the waterway and will increase biomass, reduce water velocity during large storm events, and increase potential habitat features. Most of the vegetation that will be removed or altered consists of grass species, predominately reed canary grass (*Phalaris arundinacea*), which dominates the bioswale in the project site. Preconstruction clearing of invasive species, mainly Himalayan blackberry (*Rubus armeniacus*), will occur on the slopes of the ephemeral unnamed tributary to Whipple Creek.

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

The Washington Department of Natural Resources Natural Heritage Program inventory and database of rare plants and high-quality communities does not contain any current records of either rare plants or high-quality communities in the project area. Two plants considered rare, but not federally listed as Endangered Species Act (ESA) species, are mapped within 2 miles of the project area: dense sedge (*Carex densa*, state listed as sensitive) and western wahoo (*Euonymus occidentalis var. occidentalis*, state listed as sensitive). Neither of these species nor their suitable habitat was observed during field investigations or desktop review.

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

A project-specific mitigation planting plan will be implemented onsite to preserve or enhance vegetation. Native plants will exclusively be used to reflect the vegetation communities found in the surrounding areas. A seed mix will be utilized within the swale and other disturbed areas for revegetation and soil stabilization.

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

Reed canarygrass (*Phalaris arundinacea*), Himalayan blackberry (*Rubus armeniacus*), and English Ivy (*Hedera helix*)

5. Animals

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

Examples include:

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

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

According to the WDFW SalmonScape database, which depicts data related to salmon distribution, status, and habitats, no ESA listed fish species utilize this unnamed intermittent tributary to Whipple Creek. WDFW habitat biologist Chuck Stambaugh-Bowey confirmed the unnamed tributary where the proposed outfall and dispersion pad will be placed is non-fish bearing. However, Whipple Creek has modeled the possible presence of coho and winter steelhead. Additionally, Whipple Creek is noted as providing Evolutional Significant Units (ESUs) for Lower Columbia River Chinook Salmon: Spring, Summer, and Fall ESUs; Columbia River Chum Salmon: Fall and Winter ESUs; Lower Columbia River Coho Salmon: Coho ESU; and Lower Columbia River Steelhead: Winter and Summer Distinct Population Segments.

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

According to WDFW's Priority Habitat and Species database, the terrestrial habitat and area surrounding Whipple Creek is classified as a Biodiversity Areas and Corridor. This mapped area is known as the Whipple-Packard Creeks Biodiversity Area. This biodiversity area adjacent to Whipple Creek includes high quality riparian corridor and may contain contiguous stands of mature timber with remnant old growth. Because this area has been designated as a biodiversity area and corridor, it can be assumed that some species of terrestrial wildlife utilize the corridor as a migration route at some point in their life history; however, the project site is surrounded by dense housing to the south, east, and west, which could prove to be an impediment to terrestrial wildlife movements. In addition, the project area is located within the Pacific Flyway, a migration corridor specific to bird species. However, project activities will not impede bird migrations.

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

Construction activities have been sited to avoid work in or around jurisdictional waters to protect existing resources. Large woody debris will be placed within the waterway—increasing biomass and providing potential habitat. Additionally, mitigation plans will improve the riparian vegetative community by reducing invasive species and improving native plant structure and diversity.

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

No invasive animal species were noted on field visits, but the area could be inhabited by European starling (*Sturnus vulgaris*) and house sparrow (*Passer domesticus*) based on the area's location and the nature of the surrounding housing development.

6. Energy and Natural Resources

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

The completed project would consist of a repair to an existing stormwater outfall and would not have any energy needs.

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

The project would not affect any solar energy uses on 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:

The project would not have any energy needs; no energy conservation features are proposed.

7. Environmental Health

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

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

The Washington Department of Ecology's Water Quality Atlas and Facility/Site databases do not identify any known contaminated sites in the project area. During construction, there would be typical risk of exposure to gasoline, oil, hydraulic fluids, and related materials associated with the use of construction equipment. Equipment would be refueled in a designated area and appropriate containment measures would be implemented as outlined in the project-specific Spill Prevention Control and Countermeasures Plan that will be developed by the contractor.

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.

No toxic or hazardous chemicals/conditions are present that might affect the project's development or design.

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 .

No toxic or hazardous chemicals will be stored, used, or produced during the project's development or construction or at any time during the operating life of the project.

4) Describe special emergency services that might be required.

No special emergency services would be required by the project.

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

The contractor would prepare a detailed Spill Prevention Control and Countermeasures Plan, as necessary, which would identify all contingencies in the event of an accidental spill of hazardous materials. Equipment would be refueled in a designated area, with absorbent pads in place and spill containment equipment present to reduce the potential for contaminants to reach the water should any sort of accidental spill or leakage occur. All heavy equipment would be inspected prior to operating each day during construction.

b. *Noise*

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

Existing noise sources consist of vehicle traffic and general activities by homeowners who live in the adjacent housing complex. No additional noise sources are present in the vicinity of 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.

Construction noise would be temporary and result from the use of vehicles and equipment. The completed project would result in a functional stormwater outfall, which would not generate any rise in noise levels as a result of the project. Operation of project-related activities would be limited to Clark County's codified limits for noise and would be limited to daytime hours (6:00 a.m. to 10:00 p.m.).

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

Short-term increases in noise would be limited to the construction period. To minimize noise impacts on the surrounding land uses, construction activities would be conducted during daytime hours (6:00 a.m. to 10:00 p.m.).

8. Land and Shoreline Use

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 site is currently part of a stormwater facility consisting of a detention pond to the east, and a bioswale and associated outfall within the project area. Most of the land to the north of the project area is undeveloped forest with riparian habitat adjacent to Whipple Creek. The areas to the east, south, and west of the project area are part of the "Whipple Creek Place" housing development.

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:

No surrounding working farm or forest lands business operations will be affected as a result of the project.

c. Describe any structures on the site.

The project site is immediately adjacent to a stormwater pond/facility that is surrounded by chain-link fencing**.** A concrete weir, which is in poor condition, is in between the swale and Wetland B.

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

A failing concrete weir will be removed as part of this project. The weir is between the swale and Wetland B (Figure 3). Weir removal will improve hydrological connection between the Wetland B and adjacent upland. After removal, the area will be seeded with a native plant mix.

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

Single-Family Residential (R1-10, R-10, R10).

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

Urban Low Density Residential (UL).

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

The site does not have a shoreline master program designation.

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

The project site is located in a WDFW Priority Habitat Area. The area at the northern portion of the site is classified as the Whipple-Packard Creeks Biodiversity Area and is also Adjacent to Habitat Buffer—based on Clark County Habitat Conservation Ordinance 40.440. Two category III slope wetlands were delineated as part of the project's environmental screening.

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

No people reside or work in the completed project area as the property is a stormwater pond/facility.

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

No people would be displaced as a result of the completed project.

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

No displacement impacts would occur; no measures are necessary.

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

The project would not change any land uses; no measures are proposed.

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

There will be no proposed measures to reduce or control impacts on agricultural and forest lands of long-term commercial significance because there will be no impacts on these types of lands.

9. Housing

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

No housing units would be provided.

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

No housing units would be eliminated.

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

The project would not result in housing impacts; no measures are proposed.

10. Aesthetics

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

The project would not include any new structures aside from the portion of the aboveground outfall pipe, which will be composed of a HDPE 24-inch butt fused pipe.

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

No views in the immediate vicinity would be altered or obstructed.

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

Aesthetics would not be altered by the project; no measures are proposed.

11. Light and Glare

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

The project would not create any light or glare.

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

The project would not create any light or glare.

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

No offsite sources of light or glare would affect the project.

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

The project would not result in any light or glare impacts; no measures are proposed.

12. Recreation

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

The South Fairgrounds park land is located approximately 800 feet to the west of the project site.

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

The proposed project would not displace any existing recreational uses.

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

The project would not impact recreation opportunities; no measures are proposed.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

According to the Clark County GIS MapsOnline database, there are no historic buildings, structures, or sites located on or near the project site. GIS layers that were cross referenced were the Clark County Cultural Resources Inventory, Clark County Heritage Registry, National Register Historic Places, Washington Heritage Register, and Washington State Heritage Barn.

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.

A record search using the Washington Information System for Architectural and Archaeological Records Database (WISAARD) to identify previously documented resources, as well as a pedestrian survey was conducted in 2019 and 2020. No material evidence of cultural importance has been identified within the study area. According to the 2020 Cultural Resources Report for the Whipple Creek Place Stormwater Facility Repair Project prepared by ICF, a total of 27 archaeological resource surveys have been performed within 1 mile of the study area vicinity. Three archaeological sites have been identified within 1 mile of the study area.

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.

A literature review was conducted, which included a study of historic maps, geological data, ethnography and historic contexts, and searching the Washington Information System for Architectural and Archaeological Records Data (WISAARD) database to identify any known resources within a 1 mile radius of the study area. Fieldwork included a pedestrian survey of the entire study area, the excavation of three shovel pits (SPs), and the examination of the banks of Whipple Creek for retention failures.

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.

No eligible sites or materials were found, so no resources are expected to be disturbed by this project. An inadvertent discovery plan will be prepared for the project and followed if resources are found during construction. If unexpected archaeological discoveries be made during project construction, work will be halted, and Washington State Department of Archaeology and Historic Preservation (DAHP) will be contacted immediately. If human remains are discovered, all ground-disturbing activity in the vicinity will be halted and the Clark County Sherriff and DAHP will be notified immediately.

14. Transportation

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

The project site will be accessed from a gravel maintenance road behind a locked gate. Construction vehicles will utilize the residential road, Northwest 152nd Street to and from the project area.

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 area around the project site is not served by public transportation. The closest transit line is located approximately 1 mile away along Northwest 139th Street.

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

There will be no additional parking spaces as a result of the completed project. There will be no parking spaces eliminated as a result of the completed 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).

The project will not require any new, or improvements to, existing roads, streets, pedestrian, bicycle, or state transportation facilities.

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 will not 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 nonpassenger vehicles). What data or transportation models were used to make these estimates?

No vehicle trips would be generated as a result of the completed project.

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

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

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

No measures are proposed to reduce or control transportation impacts because there will not be any impacts on transportation.

15. Public Services

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 would not result in an increased need for public services.

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

The project would not result in impacts on public services; no measures are proposed.

16. Utilities

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other: stormwater swale; stormwater pond is immediately adjacent to the east

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 project intends to stabilize and repair erosion downstream from a failing stormwater facility outfall at the Whipple Creek Place development. The project proposes a solution that includes:

- Extending a new outfall pipe from the existing pond outfall located at the top of the bioswale.
- Constructing an armored outfall discharge point located at the bottom of the adjacent ravine.
- Regrading the swale and eroded slope to limit risk of slope failure and/or provide mitigation plantings to offset environmental impacts and to increase stability of the slope.

For stability and long-term success, the pipe will be continuous and below grade, running from the existing outfall through two new manhole structures connecting the new pipeline to existing retention pond storm pipes. The exposed end of the armored outfall will be protected by caging or grating.

C. Signature

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

Signature: Jennifer Taylor

Name of signee Jennifer Taylor

Position and Agency/Organization Environmental Coordinator

Date Submitted: 7/21/2020

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Figure 1
Vicinity Map

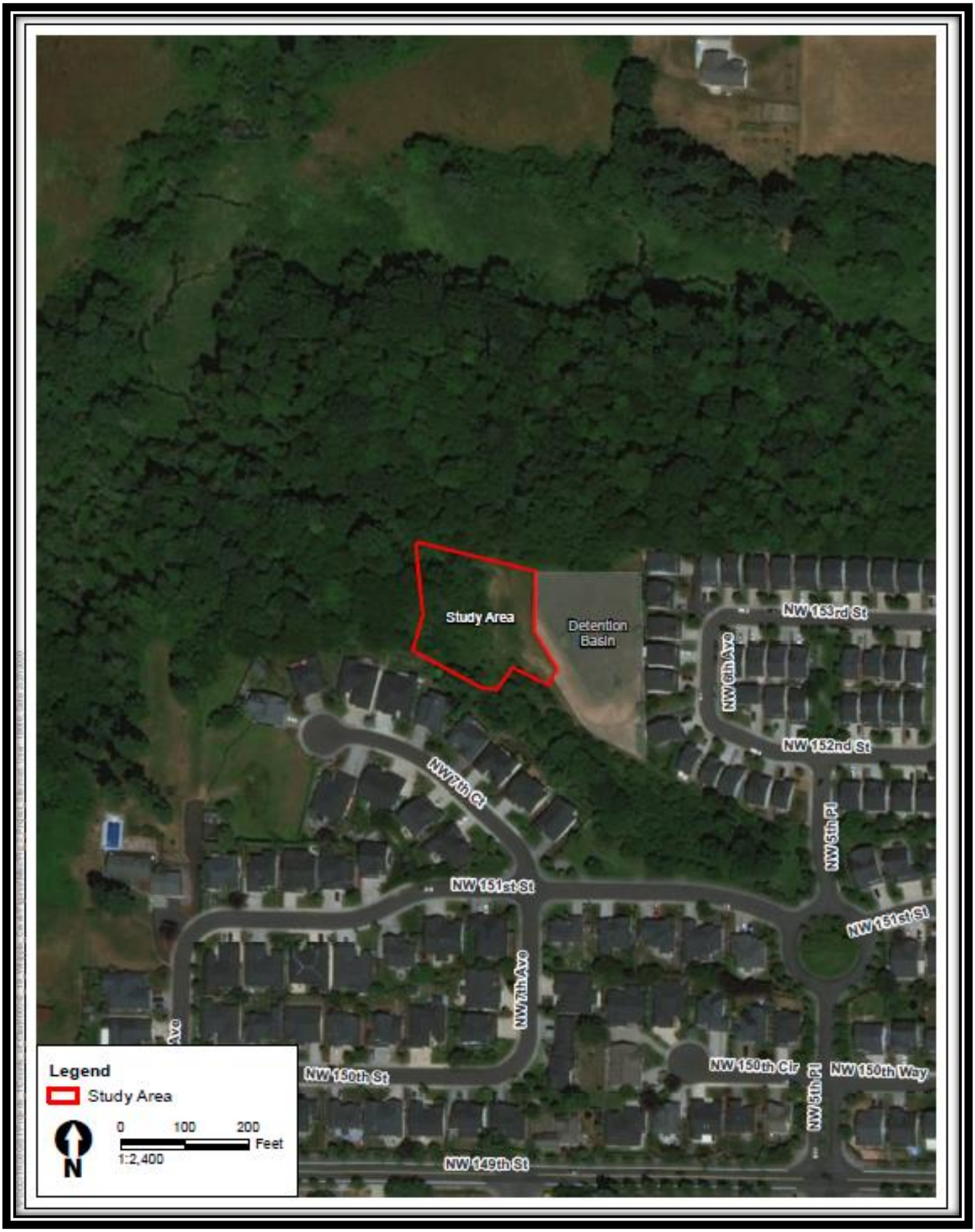

Figure 2
Study Area

Figure 3
Whipple Creek Stormwater Facility Repair Project in Relation to Critical Areas