SEATTLE PUBLIC UTILITIES
SEPA ENVIRONMENTAL CHECKLIST

This SEPA environmental review of Seattle Public Utilities' Urgent Sewer Repairs 2024-2025 Project (C600738) has been conducted in accord with the Washington State Environmental Policy Act (SEPA) (RCW 43.21C), State SEPA regulations [Washington Administrative Code (WAC) Chapter 197-11], and the City of Seattle SEPA ordinance [Seattle Municipal Code (SMC) Chapter 25.05].

A. BACKGROUND

1. Name of proposed project:

Urgent Sewer Repairs 2024-2025 Project (C600738)

2. Name of applicant:

Seattle Public Utilities (SPU)

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

Jason Sharpley, Project Manager
Seattle Public Utilities
P.O. Box 34018
Seattle, WA 98124-4018
206-258-0180; Jason.Sharpley@seattle.gov

4. Date checklist prepared:

September 8, 2022

5. Agency requesting checklist:

Seattle Public Utilities (SPU)

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

Construction is scheduled between 2023 and 2025. Work at all sites is expected to require a total of 18 working days.

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

SPU's Sewer Rehabilitation Program is used to repair deteriorated sewer mainlines throughout the City of Seattle. This Program continually identifies new repair projects, but the work at any one of these repair sites is independent of all other sites and does not limit the choice of reasonable alternatives on any of the other sites or affected pipe segments identified by this Program. Of the 23 sites in this Project, 19 sites would affect pipe segments 12 inches or less in diameter. SPU has determined those sites are exempted from threshold determinations under provisions of SEPA as established by RCW 43.21C, WAC 197-11-800(23), and Seattle Ordinance 114057 (SMC 25.05.800). Specifically, the proposed work at these 19 sites is exempt per SMC 25.05.800.X (Utilities). Sites 1, 9, 17, and 19 in this Project would

affect pipe segments more than 12 inches in diameter. As a result, SPU has determined these four (4) sites should undertake this SEPA environmental review and threshold determination.

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

No additional environmental information has been prepared or will be prepared directly related to this proposal.

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.

There are no known pending applications or proposals related to the assets covered by this proposal.

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

Implementation of the proposed work at Sites 1, 17, and 19 would require a Seattle Parks and Recreation (SPR) Revocable Use Permit (RUP). All sites would require Seattle Department of Transportation (SDOT) Utility Minor and Street Use permits. Some or all these 4 sites may require a King County Industrial Waste Discharge Permit. SPU would self-regulate for compliance with applicable City of Seattle Environmentally Critical Areas (ECA) regulations. Sites 1 and 17 would require an exemption from the Shoreline Substantial Development Permit from Seattle Department of Construction and Inspections (SDCI).

11. Give a 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.

SPU's Sewer Rehabilitation Program is used to repair and rehabilitate deteriorated sewer mainlines throughout the City of Seattle. Generally, the Program repairs sewer pipes in City-owned street rights-of-way or City easements on private property. Spot repair work typically includes (but is not limited to) excavation, replacement of broken pipe segments and pipe fittings, bedding, disposal of excavated material, dewatering, backfilling, closed-circuit television inspection after repair is done, bypass pumping of drainage and wastewater, pavement restoration and installation of curb ramps, and removal of debris. To obtain efficiencies in the contracting and construction of these repairs, SPU typically bundles individual rehabilitation sites into a single construction bid document. Contractors then bid on the packaged set of sites and the successful bidder conducts the rehabilitation as specified in the contract documents.

The Program's Urgent Sewer Repairs 2024-25 Project (C600738) would rehabilitate existing sewer and drainage pipes of varying depth and size at 23 separate sites. Of the 23 sites in this project, 19 sites would affect pipe segments 12 inches or less in diameter and are the subject of a separate SEPA exemption review. Sites 1, 9, 17, and 19 would affect sewer pipe segments more than 12 inches in diameter (Attachment A) and are the subject of this SEPA environmental review and threshold determination. The work at each site is summarized below.

Site 1: SPU discovered a cross bore (a side sewer installed through a sewer pipe) 109 feet upstream of maintenance hole 059-432. The work would repair the 15-inch diameter vitrified clay sewer mainline and redirect the side sewer around the repaired sewer mainline. The affected pipe segment is approximately 8 feet deep.

Site 9: The work would replace approximately 30 feet of an existing 18-inch diameter clay pipe with a 10-inch diameter clay pipe and install a new maintenance hole approximately 30 feet downstream of existing maintenance hole 059-249. The affected pipe segment is approximately 16 feet deep.

Site 17: The work would repair a 6-inch / 15-inch diameter vitrified clay mainline wye 137.8 feet downstream of maintenance hole 067-239 and reinstate the related lateral. The affected pipe segment is approximately 13 feet deep.

Site 19: The work would repair two 6-inch / 24-inch diameter vitrified clay mainline wyes. Locations would be at 175.1 feet upstream of maintenance hole 047-032 where the wye would be replaced with a tee and the related lateral reinstated and at 205.3 feet upstream of maintenance hole 047-032 where the wye would be replaced with a tee and the related lateral reinstated. If necessary to complete the work at the location of the wye at 205.3 feet, a third wye may be required to be replaced with a tee and the related lateral reinstated. The affected pipe segment is approximately 19 feet deep.

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.

A vicinity map depicting the general location of the project sites is included as Attachment A. The specific repair sites are in City of Seattle street rights-of-way and have no specific address. Sites 1 and 9 are near 3971 Lake Washington Blvd S and 3700 S Genesee St, respectively, in the Columbia City neighborhood. Site 17 is near 5929 Seward Park Ave in the Seward Park neighborhood. Site 19 is located near 3027 61st Ave SW in the West Seattle neighborhood.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

☒ Flat ☐ Rolling ☐ Hilly ☐ Steep Slopes ☐ Mountainous ☐ Other:

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

Each site is mostly flat to gently sloping.

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 general geologic condition of the Puget Sound region is a result of glacial and non-glacial activity that occurred over the course of millions of years. Review of the geologic map covering the project location (Troost *et al*. 2005, available at http://pubs.usgs.gov/of/2005/1252/) indicates Site 1 is underlain primarily by lake deposits. Site 9 is underlain by glacial advance outwash deposits. Site 17 is primarily underlain by sandstone bedrock. Site 19 is primarily underlain by uplifted beach deposits. However, urban development at all sites over the last 100 years has resulted in a predominance of disturbed native soils/sediments, cut slopes, and placements of fill material throughout the project site and immediately surrounding area. Surficial soils consist of placements of fill material.

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

The SDCI GIS map (https://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2) does not map any areas of unstable soils near Sites 1, 9, and and 17. Site 19 is mapped as being in a Liquefaction ECA. There are no surface indications of unstable soils at any of these sites.

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

Excavation, fill, and grading would be required to make repairs at each site. The volume of excavated materials is estimated to be less than a total of 200 cubic yards. That excavated material would likely be used to backfill the excavations.

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

All pipe segments are in existing impervious (paved) areas with minimal potential for erosion. Ground disturbance and vegetation trimming would be limited to that required for construction staging and access. Such areas would be situated in existing paved areas wherever possible. Erosion and sedimentation could occur as a result of project construction, although this risk is low because the project sites are paved, flat or relatively flat, and temporary erosion and sediment control BMPs would be deployed, inspected, and maintained as needed. Disturbed areas would be restored to their near-original conditions. Damaged and demolished pavements would be restored as required by SDOT.

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

All pipe segments are in existing impervious (paved) areas. Existing paved surfaces damaged by construction would be repaired as required by SDOT. The proposed work would neither increase nor decrease impervious surfaces.

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

No filling or excavation would take place in or near watercourses or wetlands and best management practices (BMPs) would be used to protect the existing stormwater drainage systems and to minimize erosion and sedimentation. A temporary erosion and sedimentation control plan would be prepared and implemented. BMPs as identified in the City of Seattle's Stormwater Code SMC Title 22, Subtitle VIII, relevant City of Seattle Director's Rules, and Volume 2 Construction Stormwater Control Manual would be used to manage stormwater runoff, construction disturbance, and erosion during construction.

2. Air

a. What types of emissions to the air would result from the proposal [*e.g.*, dust, automobile, odors, industrial wood smoke, greenhouse gases (GHG)] during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

During construction, emissions would occur from vehicles and mobile and stationary equipment that combust gasoline and diesel fuels, such as crew vehicles, trucks, and construction equipment. Those emissions would include oxides of nitrogen, carbon monoxide, particulate matter and smoke, uncombusted hydrocarbons, hydrogen sulfide, carbon dioxide, and water vapor. Emissions during construction could also include fugitive dust.

This proposal would generate greenhouse gas (GHG) emissions through construction activity only. Total GHG emissions for the project are estimated to be about 111.8 metric tons of carbon dioxide emission (MTCO2e). GHG emission calculations are shown in Attachment B and summarized in Table 1. One metric ton is equal to 2,205 pounds.

This project would generate GHG emissions during the maximum estimated total 18 working day construction period through the operation of diesel- and gasoline-powered equipment and to transport materials, equipment, and workers to and from the project sites. Because project construction methods were not completely known at the time this checklist was prepared, the estimates provided here are based on daily vehicle operation times for the maximum estimated project duration (18 working days); actual times may be less. Estimates are also based on typical transportation and construction equipment used for this type of work.

Embodied energy and associated GHG emissions in materials used in this project have not been estimated as part of this SEPA environmental review due to the difficulty and inaccuracy of calculating such estimates.

During project operation, the project is not expected to result in increased GHG emissions as compared with pre-project levels. The subject pipe sections are not expected to require additional maintenance for approximately 50 years.

Table 1. Summary of Greenhouse Gas (GHG) Emissions

Activity/Emission Type	GHG Emissions (pounds of CO_2e)[1]	GHS Emissions (metric tons of CO_2e)[1]
Buildings	0	0
Paving	220,500	100
Construction Activities (Diesel)	20,284.2	9.2
Construction Activities (Gasoline)	5,686.2	2.6
Long-term Operation/ Maintenance (Diesel)	0	0
Long-term Operation/Maintenance (Gasoline)	0	0
Total GHG Emissions	246,470.4	111.8

[1] Note: 1 metric ton = 2,204.6 pounds of CO_2e. 1,000 pounds = 0.45 metric tons of CO_2e

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

There are no off-site sources of emissions or odors that would affect this proposal.

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

During construction, impacts to air quality would be reduced and controlled through implementation of standard federal, state, and local emission control criteria and City of Seattle construction practices. These would include requiring contractors to use best available control technologies, ensure proper vehicle maintenance, and minimize vehicle and equipment idling.

3. Water

a. Surface:

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

Site 1 is within 100 feet of Lake Washington.

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

None of the proposed work would require work over or in surface water bodies or wetlands. Site 1 is within 100 feet of Lake Washington and would disturb a currently paved and landscaped area.

(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 material would be placed in or removed from surface water or wetlands.

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

The proposed work would not require surface water withdrawals or diversions.

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

No site is in a 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.

No, the project proposes to discharge to the sanitary sewer and does not propose any discharges of waste materials to surface waters.

b. Ground:

(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 withdrawals are planned. However, construction may encounter groundwater—particularly at Site 19—which would need to be collected and removed from the excavations. The volumes and disposal methods of such collected water are not known at this time.

(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.

This project would not discharge waste material from septic tanks or other sources to groundwater.

c. Water Runoff (including storm water):

(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 completed project would not alter existing stormwater drainage patterns.

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

There would be no waste materials from the project that could enter surface or ground waters.

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

No site disturbance is anticipated. The proposed work would not alter or otherwise affect drainage patterns.

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

The project would not create any new impervious surfaces that would create stormwater runoff. No adverse impacts to surface, ground, or runoff water are anticipated. Best management practices, as identified in the applicable BMPs identified in the City of Seattle's Stormwater Code SMC Title 22, Subtitle VIII, relevant City of Seattle Director's Rules, and Volume 2 Construction Stormwater Control Manual, would be used as needed to control erosion and sediment transport from and to the project site during construction.

4. Plants

a. Types of vegetation found on the site:

☒ Deciduous trees:	☐ Alder	☒ Maple	☐ Aspen	☐ Other:
☒ Evergreen trees:	☐ Fir	☐ Cedar	☐ Pine	☐ Other:
☒ Shrubs				
☒ Grass				
☐ Pasture				
☐ Crop or grain				
☐ Orchards, vineyards, or other permanent crops				
☐ Wet soil plants:	☐ Cattail	☒ Buttercup	☐ Bulrush	☐ Skunk cabbage
☐ Other:				
☐ Water plants:	☐ water lily	☐ eelgrass	☐ milfoil	☐ Other:
☐ Other types of vegetation:				

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

Pipe segments are buried under paved street rights-of-way. Work at Site 1 may require removal of a mature street tree (Japanese maple [*Acer palmatum*]). Other vegetation (such as turf) damaged by construction, staging, or access would be restored to pre-project conditions.

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

According to a review of the Washington Department of Natural Resources (WDNR) Natural Heritage Program's document called "Sections that Contain Natural Heritage Features, Current as of July 15, 2021" (accessed at www.dnr.wa.gov), there are no documented occurrences of sensitive, threatened, or endangered plant species in or near the work sites. No federally listed endangered or threatened plant species or State-listed sensitive plant species are known to occur within the municipal limits of the City of Seattle.

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

The proposed work would limit plant removal, pruning, and other vegetation disturbance to the minimum required for project site construction. Replacement for potential removal of one Japanese maple street tree would be determined by SDOT. Otherwise, the proposed work is in street rights-of-ways and would affect paved surfaces outside of street tree canopy drip-lines.

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

Sites are in unvegetated paved street rights-of-way, including sidewalks. The King County Noxious Weed Program (available at King County iMap interactive mapping website, http://gismaps.kingcounty.gov/iMap/) identifies garden loosestrife (*Lysimachia vulgaris*, a designated Class B noxious weed in King County) near Site 1. Site 9 is near known or former infestations of giant hogweed (*Heracleum mantegazzianum*), a designated Class A noxious weed in King County.

5. Animals

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

Birds:	☒ Hawk	☒ Heron	☒ Eagle	☒ Songbirds
☒ Other: crow, pigeon, gull				
Mammals:	☐ Deer	☐ Bear	☐ Elk	☐ Beaver
☒ Other: possum, raccoon, squirrel				
Fish:	☐ Bass	☐ Salmon	☐ Trout	☐ Herring
☐ Shellfish	☐ Other:			

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

A check of the Washington Department of Fish and Wildlife's "Priority Habitat Species on the Web" database on August 1, 2022, identified no threatened or endangered species near any site.

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

The Seattle area is in the migratory route of many birds and other animal species and is part of the Pacific Flyway, a major north-south route of travel for migratory birds in the Americas extending from Alaska to Patagonia, South America.

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

The proposed work would limit plant removal and other vegetation disturbance to the minimum required for construction. Project work would be performed in accordance with applicable City of Seattle water quality regulations and construction BMPs.

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

King County lists the European starling, house sparrow, Eastern gray squirrel, and fox squirrel as terrestrial invasive species for the county (http://www.kingcounty.gov/services/environment/animals-and-plants/biodiversity/threats/Invasives.aspx).

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.*

No energy would be required to meet the constructed project's energy needs, beyond the energy already utilized for the existing sewer and storm systems. The completed project would not require energy.

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

The proposed project does not involve building structures or planting vegetation that would block access to the sun for 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:

There are no conservation features or proposed measures to reduce or control energy impacts because there would be no such impacts.

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:

Small amounts of materials likely to be present during construction, mainly to support vehicle and construction equipment, include gasoline and diesel fuels, hydraulic fluids, oils, lubricants, but also may include solvents, paints, and other chemical products. A spill of one of these chemicals could potentially occur during construction due to equipment failure or worker error. Though unlikely, contaminated soils, sediments, or groundwater could also be exposed. If disturbed, contaminated substances could expose construction workers and potentially other individuals in the vicinity through blowing dust, stormwater runoff, or vapors.

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

No contamination of soil or groundwater has been identified.

(2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

There are no known hazardous chemicals or conditions that might affect project development and 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.

Chemicals and pollutants that may be present during construction include:

- Petroleum products including fuel, lubricants, hydraulic fluids, and form oils
- Paints, glues, solvents, and adhesives
- Chemicals associated with portable toilets

No toxic or hazardous chemicals would be stored, used, or produced at any time.

(4) Describe special emergency services that might be required.

No special emergency services such as confined space rescue would be required during construction or operation of the project. Possible fire or medic services could be required during project construction, as well as possibly during operation of the completed project. However, the completed project would not demand higher levels of special emergency services than already exist at the project location.

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

The construction contractor would be required to develop and implement a Spill Plan to control and manage spills during construction. During construction, the contractor would use standard operating procedures and BMPs identified in the City of Seattle's Stormwater Code SMC Title 22, Subtitle VIII, relevant City of Seattle Director's Rules, and Volume 2 Construction Stormwater Control Manual to reduce or control any possible environmental health hazards. In addition, a spill response kit will be maintained at each site during construction work at that site, and all project site workers would be trained in spill prevention and containment consistent with the City of Seattle's Standard Specifications for Road, bridge, and Municipal Construction.

b. Noise

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

Noises that exist in the area would not 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.

Noise levels near project construction would temporarily increase during construction. Short-term noise from construction equipment would be limited to the allowable maximum levels of applicable laws, including the City of Seattle's Noise Control Ordinance [SMC Chapter 25.08.425—Construction and Equipment Operations]. Within the allowable maximum levels, SMC 25.08 permits noise from construction equipment between the hours of 7 a.m. and 7 p.m. weekdays, and 9 a.m. and 7 p.m. weekends and legal holidays. SPU expects construction would require 18 working days. Any expected construction outside of these noise windows, the construction contractor will be required to apply for noise and work variances through the City of Seattle.

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

Construction of the project would comply with requirements of applicable noise control laws and regulations addressing maximum noise levels and the days/hours during which noise-generating construction work is allowed, including the Washington State Noise Control Act of 1974 (70A.20 RCW), the implementing Maximum Environmental Noise Level regulations adopted by the Washington State Department of Ecology (Chapter 173-60 WAC), City of Seattle Noise Control regulations (SMC Chapter 25.08), and/or other applicable noise ordinances and regulations.

SPU and its contractors are required to comply with the Washington Industrial Safety and Health Act of 1973 (Chapter 49.17 RCW) and implement Hearing Loss Prevention regulations adopted by the Washington Department of Labor and Industries (Chapter 296-817 WAC) to limit construction worker noise exposure. Actions taken to achieve this, while used primarily to limit construction worker noise exposure, may also help reduce or mitigate overall noise levels emanating from the project sites and may include pre-planning site work to minimize magnitude and duration of on-site construction operations; selecting the quietest/smallest equipment able to do the job; installing noise mufflers on engines and high pressure air exhausts; using temporary barriers and equipment covers; and ensuring construction equipment is properly maintained by changing seals, lubricating machinery contact surfaces, and replacing worn parts.

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.

Current land use at project sites are single family residential buildings park and open space. The proposed work would be in improved public transportation rights-of-ways. Proposed work could result in short-term, temporary street/bike lane and sidewalk closures, and/or route detours for streets or sidewalks that would be experienced by individuals who live, work, or visit destinations on or near the project.

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 non-forest use?

No project site is in an area recently been used as working farmland or forestland. The project would not result in any land use conversion.

(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 proposed work would neither be affected by nor affect surrounding working farm or forest land normal business operations because there are no such operations at or near the project sites.

c. Describe any structures on the site.

The proposed work involves existing, buried sewer and stormwater infrastructure and other utilities in improved street rights-of-way and utility easements. Other structures in the vicinity of project sites include street signs and utility poles, residential structures, and fences and are not associated with the project.

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

The project would not demolish above-ground structures.

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

Sites are zoned Single Family Residential.

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

Sites are designated Neighborhood Residential.

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

Site 1 is in the Urban Residential and Conservancy Recreation environments of the City of Seattle's Shoreline Management District.

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

SDCI's GIS map (https://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2) shows Site 9 as being within the methane buffer of the historic landfill at Genesee Park.

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

No people would reside or work in the completed project.

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

The project would not displace any people.

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

There would be no displacement impacts.

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

The project would be compatible with existing and projected land uses and plans. No measures are required to ensure the proposal is compatible with existing and projected land uses and plans.

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

There are no nearby agricultural lands or forestlands of long-term commercial significance. No measures are required to reduce or control impacts to agricultural and forest lands of long-term commercial significance.

9. Housing

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

The proposed project would not construct any housing units.

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

The proposed project would not eliminate any housing units.

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

No measures are proposed because there would be no housing impacts.

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?

All structures are buried. Above-ground structures would not be modified or constructed.

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

No views would be altered or obstructed.

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

No such measures are proposed because there would be no aesthetic impacts.

11. Light and Glare

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

The constructed project would not produce light or glare. No new streetlights are proposed or required. During construction, if an emergency requires after-dark work, the construction contractor may deploy portable lights that temporarily produce light and glare.

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

The completed project would not create light or glare.

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

There are no existing off-site sources of light and glare that would affect the proposal.

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

No measures are needed to reduce or control light and glare impacts because no impacts would occur. If the contractor elects to work after-dark, portable lighting would be adjusted as feasible to minimize glare. A lighting plan will be at the discretion and approval of SDOT inspectors.

12. Recreation

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

Sidewalks in the project locations allow for informal recreation such as walking, jogging, and cycling. Roadways affected by the proposed work allow for recreational activity such as walking, jogging, and cycling. Site 1 is on Lake Washington Blvd S, which is managed by SPR as part of the City's Lake Washington Boulevard Park. Site 9 is within 1,300 feet of the City of Seattle's Genesee Park and within 500 feet of Hawthorne Elementary School and its associated playground. Site 17 is within 0.25 mile of the City's Seward Park. Site 19 is within 0.25 mile of Alki Beach, a popular recreation location.

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

The proposed work would not permanently displace existing recreational uses. Project construction activities could result in short-term, temporary access impacts, such as temporary street closures or detours affecting vehicle, bike, and pedestrian routes/access. The project would ensure safe pedestrian and vehicle access is maintained at all times consistent with approved traffic control plans required as part of SDOT's street use permitting process.

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 may have short-term, temporary impacts to parking, vehicle access, and recreational activity due to temporary travel lane and/or street closures or detours.

Project notifications through website updates, emails, and mailings would provide affected residents with advance notice regarding temporary closures and detours.

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.

No buildings or structures would be disturbed by the project. The project was checked against the registers listed in Item B.13.c below. None of these registers recorded any places or objects listed on, or proposed for, national, state, or local preservation registers located on or adjacent to the project.

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.

According to the information sources listed in Item B.13.c below, there are no such cultural resources at or near the project site. The Washington State Department of Archaeology and Historic Preservation's Landscape Predictive Model indicates the project sites are in areas of High Risk for discovery of cultural resources.

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 Archaeology and Historic Preservation, archaeological surveys, historic maps, GIS data, *etc.*

To determine if the project is on or near properties listed, or documented to be eligible for listing, on federal, state, or local cultural/historical registers, the project location was checked against these registers on August 1, 2022:

- Washington Information System for Architectural & Archaeological Research Data (WISAARD) maintained by the Washington State Department of Archaeology and Historic Preservation (https://wisaard.dahp.wa.gov/)
- King County and City Landmarks List maintained by the King County Historic Preservation Program, (https://www.kingcounty.gov/~/media/services/home-property/historic-preservation/documents/resources/T06_KCLandmarkList.ashx?la=en)
- Landmark List, and Map of Designated Landmarks, maintained by the City of Seattle Department of Neighborhoods (http://www.seattle.gov/neighborhoods/programs-and-services/historic-preservation/landmarks/landmarks-map)

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 proposed work would not affect buildings or known cultural resources and involve no ground-disturbing activity. Only portions of SPU's existing sewer and stormwater systems would be affected. None of those objects are considered historically or culturally important. Additionally, the proposed work is located on previously disturbed and filled upland areas. The project's location on previously disturbed and filled ground and avoidance of ground-disturbing activity eliminate any likelihood of encountering contextually significant archaeological materials.

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.

Sites are in existing public street rights-of-way. Staging areas would be at the pipe repair locations in existing street ROW or utility easements where possible. Street closures and traffic control would be required for access to the repair locations.

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 proposed project would not affect public transit. Metro Route 50 travels on Seward Park Ave S through Site 17 and along S Genesee St at Site 9. S Genesee St is also a school bus route. The project would not require closure or relocation of existing transit stops, and detours, if any, would ensure vehicle traffic is allowed to pass through or around the work area.

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

The completed project would neither create nor eliminate any parking spaces, although there may be temporary parking closures. The specific timing and duration of parking closures are not known at this time, but such closures would comply with relevant policies and requirements administered by SDOT.

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).

Demolished and damaged paved surfaces would be restored as required by SDOT.

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

Construction at sites would require approximately 120 round trips. Most of those trips would occur during business hours (between 7 a.m. and 6 p.m.) on weekdays (Mondays through Fridays). The completed project would not require additional maintenance and inspections trips beyond those which currently occur.

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 proposal is not expected to 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:

Standard construction signs and flagging would be used to ensure worksite safety and reduce any temporary transportation impacts. Access for emergency-response vehicles would be maintained at all times. Project work at all sites would comply with applicable construction traffic management requirements administered by SDOT.

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 create an increased need for public services.

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

No impacts on public services are anticipated and no mitigation measures are proposed.

16. Utilities

a. Check utilities available at the site:

☐ None
☒ Electricity ☒ Natural gas ☒ Water ☒ Refuse service
☒ Telephone ☒ Sanitary sewer ☐ Septic system
☒ Other: cable, fiber optics

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.

During construction, sewer service would be interrupted for brief periods to install and then disconnect a bypass around the affected mains. SPU would notify affected residents and businesses by issuing Service Disruption Notices (in the form of door hangers) at least 48 hours before those outages occur. No new utilities are being

proposed. No interruptions of other utilities or services are anticipated during construction.

C. SIGNATURE

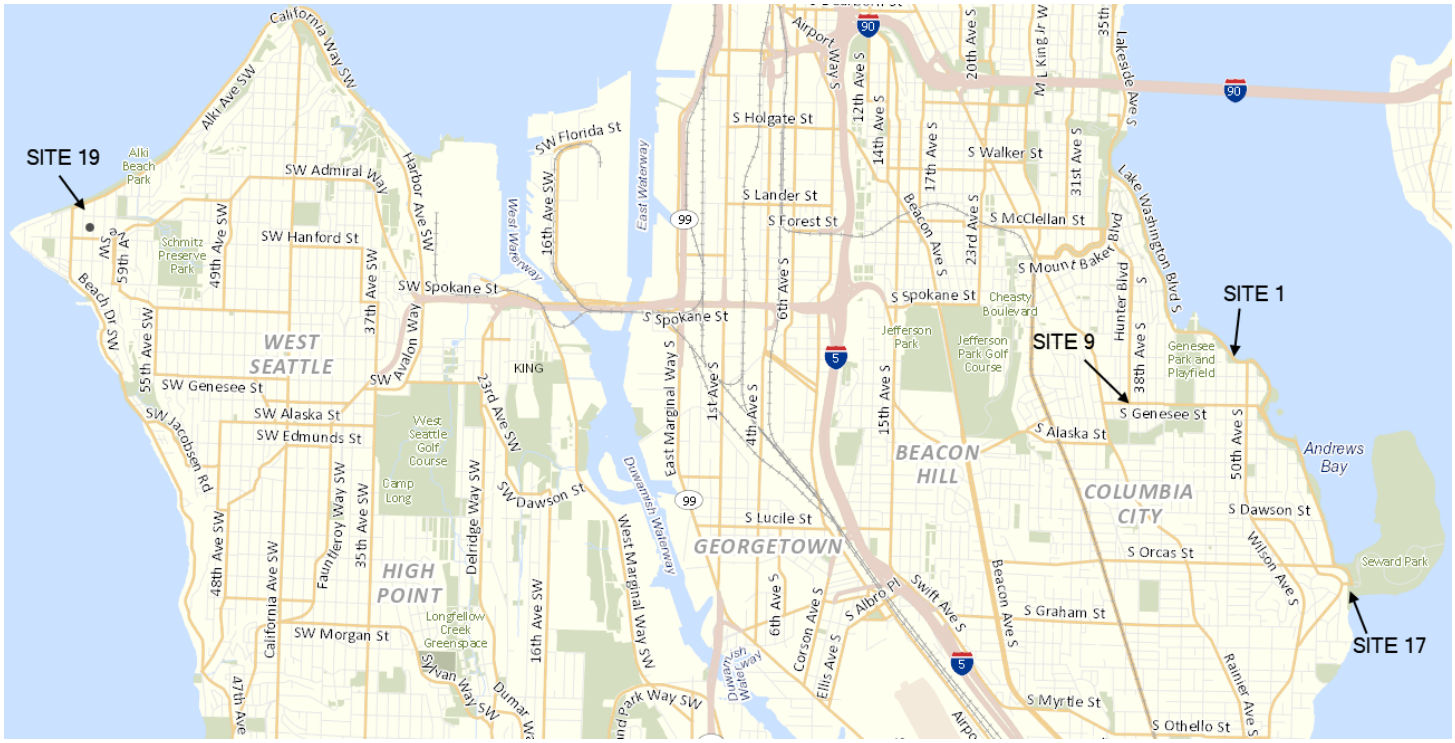
The above answers are true and complete to the best of my knowledge. I understand the lead agency is relying on them to make its decision.

Signature: Jason Sharpley Digitally signed by Jason Sharpley Date: 2022.09.26 14:23:51 -07'00'

Jason Sharpley, Project Manager

Attachment A: Vicinity Map
Attachment B: Greenhouse Gas Emissions Worksheet

Attachment A: Vicinity Map



Attachment B: Greenhouse Gas Emissions Worksheet

Section I: Buildings						
			Emissions Per Unit or Per Thousand Square Feet ($MTCO_2e$)			
Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Embodied	Energy	Transportation	**Lifespan Emissions ($MTCO_2e$)**
Single-Family Home	0		98	672	792	**0**
Multi-Family Unit in Large Building	0		33	357	766	**0**
Multi-Family Unit in Small Building	0		54	681	766	**0**
Mobile Home	0		41	475	709	**0**
Education		0.0	39	646	361	**0**
Food Sales		0.0	39	1,541	282	**0**
Food Service		0.0	39	1,994	561	**0**
Health Care Inpatient		0.0	39	1,938	582	**0**
Health Care Outpatient		0.0	39	737	571	**0**
Lodging		0.0	39	777	117	**0**
Retail (Other than Mall)		0.0	39	577	247	**0**
Office		0.0	39	723	588	**0**
Public Assembly		0.0	39	733	150	**0**
Public Order and Safety		0.0	39	899	374	**0**
Religious Worship		0.0	39	339	129	**0**
Service		0.0	39	599	266	**0**
Warehouse and Storage		0.0	39	352	181	**0**
Other		0.0	39	1,278	257	**0**
Vacant		0.0	39	162	47	**0**
					TOTAL Section I Buildings	**0**

Section II: Pavement						
						Emissions ($MTCO_2e$)
Pavement (sidewalk, panels, asphalt patch)		0				**0**
Asphalt or Concrete Pad (50 $MTCO_2e$/1,000 sq. ft. of pavement at a depth of 6 inches)		Up to 2,000 SF				**100**
					TOTAL Section II Pavement	**100**

Section III: Construction	
(See detailed calculations below)	**Emissions ($MTCO_2e$)**
TOTAL Section III Construction	**11.8**

Section IV: Operations and Maintenance	
(See detailed calculations below)	**Emissions ($MTCO_2e$)**
TOTAL Section IV Operations and Maintenance	**0**

TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT ($MTCO_2e$)	**111.8**

Attachment B: Greenhouse Gas Emissions Worksheet (continued)

Section III Construction Details		
Construction: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
1 large Vactor Truck	72	18 working days x 1 round trip (RT) per working day x 1 vehicle x 20 miles/round-trip ÷ 5 mpg
1 excavator	420	60 hours x 7 gallons/hour (345 hp engine)
1 dump truck	72	18 working days x 1 RT/day x 1 vehicle x 20 miles/round trip ÷ 5 mpg
1 supporting box truck	72	18 working days x 1 RT/day x 1 vehicle x 20 miles/round trip ÷ 5 mpg
Asphalt Truck (10 CY capacity)	16	1 round trip per site x 4 sites x 20 miles/round trip ÷ 5 mpg
Roller	112	4 working days (covering 4 sites) x 4 hours x 7 gallons/hour (345 hp engine)
Subtotal Diesel Gallons	764	
GHG Emissions in lbs CO_2e	20,284.2	26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e	9.2	1,000 lbs = 0.45359237 metric tons

Construction: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Pick-up trucks or crew vans (2)	54	18 working days x 1 RT/day x 3 vehicles x 20 miles/round-trip ÷ 20 mpg
Misc. hand equipment (2)	180	18 working days x 10 hours/day x 2 pieces of equipment x 0.5 gal/hour
Subtotal Gasoline Gallons	234	
GHG Emissions in lbs CO_2e	5,686.2	24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e	2.6	1,000 lbs = 0.45359237 metric tons

Construction Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	20,284.2	9.2
Gasoline	5,686.2	2.6
Total for Construction	**25,970.4**	**11.8**

Section IV Long-Term Operations and Maintenance Details		
Operations and Maintenance: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
Maintenance Operation (truck)	0	
Subtotal Diesel Gallons	0	
GHG Emissions in lbs CO_2e	0	
GHG Emissions in metric tons CO_2e	0	

Operations and Maintenance Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	0	0
Gasoline	0	0
Total Operations and Maintenance	0	0