SEATTLE PUBLIC UTILITIES
SEPA ENVIRONMENTAL CHECKLIST

This SEPA environmental review of Seattle Public Utilities' Water Main Rehabilitation Package 7 Central (Sites 1, 2, and 3) (C600996) Project 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:

Water Main Rehabilitation Multisite Package 7 Central (Sites 1, 2, and 3)

2. Name of applicant:

Seattle Public Utilities (SPU)

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

Fernando Platin, Project Manager
Seattle Public Utilities
700 5th Ave, Suite 4900
P.O. Box 34018
Seattle, WA 98124-4018
(206) 615-0991; Fernando.Platin@seattle.gov

4. Date checklist prepared:

August 25, 2025

5. Agency requesting checklist:

Seattle Public Utilities (SPU)

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

The work at E Miller St (Site 1), E Lynn St (Site 2), and E Boston St (Site 3) described in this Checklist is expected to take up to 6 months (averaging 40 working days at each Site for 120 working days total). Project construction is scheduled to begin Fall 2027 and be completed by the end of 2028.

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

SPU currently has no plans for future additions or expansions related to the proposed project.

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

No environmental information has been prepared that is 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.

SPU is not aware of pending government approvals of other proposals that directly affect the properties covered by this proposal.

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

Work at Sites 1, 2, and 3 may require some or all of the following permits and approvals:

- City of Seattle, Department of Transportation (SDOT), Major Utility Permit (type 51, major projects)
- SDOT, Street Use Permit (type 31, construction use)

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 owns and maintains nearly 1,700 miles of pipes in the City of Seattle's drinking water distribution system and service area. All water main segments in the distribution system are periodically screened for replacement depending on age and condition. Potential candidates for pipe rehabilitation are primarily identified by monitoring a main's leak/break rate (failure rate). In addition to conventional 'cut and cover' pipe replacement methods, rehabilitation may include trenchless lining (such as cured-in-place [CIPP] and horizontal directional drilling [HDD], or other methods) and use of alternative pipe materials.

To obtain efficiencies in contracting and constructing these water main rehabilitations, SPU sometimes bundles work at multiple locations into a single construction bid document. Contractors then bid on the bundled work and the successful bidder performs the work as specified in contract documents. For this reason, SPU is currently preparing Water Main Rehabilitation Multisite Package 7 Central, which bundles four (4) rehabilitation sites located in street rights-of-way and Lake View Cemetery in the City of Seattle. Three (3) of the sites in this Package 7 Central (Attachment B) involve pipes larger than 12 inches in diameter and are being reviewed using this SEPA Environmental Checklist for purposes of SEPA compliance. Site 4 in this package involves pipes 12 inches in diameter or less and is the subject of a separate SEPA Exemption Memo and is not evaluated in this Environmental Checklist.

The proposed work at Site 1 would cut in and install 12-inch by 8-inch ductile iron cross with a total of approximately 30 linear feet of 20-inch, 12-inch, and 8-inch restrained joint, ductile iron water main. This would include two (2) 8-inch gate valves, two (2) 12-inch gate valves, and other associated minor fittings. The work would also cut in and install one (1) 8-inch isolation gate valve at existing hydrant on the northwest corner of E Miller St at Federal Ave E. All demolished and damaged pavement would be restored as required by SDOT and would include the construction of any impacted sidewalks.

The proposed work at Site 2 would install approximately 23 linear feet of 20-inch, 164 linear feet of 8-inch, and 18 linear feet of 6-inch restrained joint ductile iron water main along with one 20-inch butterfly valve (BFV) and 6-inch bypass around the BFV. The work would also install two (2) 8-inch isolation gate valves and one (1) new fire hydrant at the northwest corner of E Lynn St and Federal Ave E. Approximately 26 linear feet of ¾ copper water service from the new

8-inch water main would be relocated and reestablished, and an existing blow-off valve, which is the connection point for the water main extending to the west on E Lynn St, would be abandoned. All demolished and damaged pavement would be restored as required by SDOT and would include the construction of up to six (6) new curb ramps and related sidewalk.

The proposed work at Site 3 would install approximately 36 linear feet of 20-inch, 329 linear feet of 12-inch, and 35 linear feet of 8-inch restrained joint ductile iron water main. The work would also install four (4) 12-inch and two (2) 8-inch isolation gate valves, one (1) new fire hydrant at the northeast corner of E Boston St and 11th Ave E, and one (1) flushing hydrant at the northwest corner of E Boston St and Federal Ave E. All demolished and damaged pavement would be restored as required by SDOT and would include the construction of up to twelve (12) new curb ramps and related sidewalk.

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.

Sites 1, 2, and 3 are in improved public street rights-of-way in the Eastlake neighborhood in the City of Seattle (zip code 98102) (Attachment B). The project at Site 1 includes rights-of-way for E Miller St and Federal Ave E. The project at Site 2 includes rights-of-way for E Lynn St between 10th Ave E and 11th Ave E and for Federal Ave E between E Boston St and E Miller St. The project at Site 3 includes rights-of-way for E Boston St between Federal Ave E and 11th Ave E and portions of rights-of-way for Federal Ave E and 11th Ave E. There are no street addresses for these project sites. Site 1 is in the northeast quarter of Section 20, Township 25N, Range 4E. Site 2 is in both the northeast and southeast quarters of Section 20, Township 25N, Range 4E. Site 3 is in the southeast quarter of Section 20, Township 25N, Range 4E.

All three (3) sites evaluated in this checklist are within the Cedar-Sammamish Water Resource Inventory Area (WRIA 8).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site: *[Check the applicable boxes]*

☒ Flat ☐ Rolling ☐ Hilly ☐ Steep Slopes ☐ Mountainous
☐ Other: (identify)

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

The work area is flat.

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.

Geologic conditions of the Puget Sound region are a result of glacial and non-glacial activity occurring over the course of millions of years and are described in the Washington Department of Natural Resources' Washington Geologic Information Portal (https://geologyportal.dnr.wa.gov/). However, urban development in this area over the last 100 years has resulted in a predominance of disturbed native soils/sediments, cut slopes, and placements of fill material. The entirety of all project site locations evaluated in this checklist and the immediate surrounding areas have been completely developed and disturbed in this way. The areas have not been used for agricultural purposes.

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

The City of Seattle designates geologically hazardous areas as Environmentally Critical Areas (ECAs) based on historic and current geological conditions, including topography and underlaying soils. According to the City of Seattle ECA maps (http://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2), Sites 1, 2, and 3 are not located within an ECA. Additionally, the project sites are in street rights-of-way and do not show surface features of unstable soils.

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.

Project construction at the sites evaluated in this checklist would require the excavation of approximately 570 cubic yards (CY) of soil and backfilling with approximately 570 CY of pipe bedding and other fill material (Table 1). The fill will come from an SPU-approved borrow site. At this time, about 570 CY of spoil are expected to be exported from the project areas. All exported excavated material would be disposed of at an SPU-approved upland location or used as fill material (if suitable) at sites approved for filling and grading.

Table 1: Excavation and Fill Surface Areas and Volumes

Project Site	Surface Area (square feet (SF))	Excavation Volume (cubic yards (CY))	Fill Volume (CY)
Site 1	1,020 SF	65 CY	65 CY
Site 2	2,070 SF	165 CY	165 CY
Site 3	5,130 SF	340 CY	340X CY
Totals	**8,220 SF**	**570 CY**	**570 CY**

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

No significant erosion is anticipated during or as a result of the proposed work. A temporary erosion and sedimentation control plan would be prepared and implemented. The completed project would be covered by concrete and asphalt.

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

The proposed project would demolish approximately 8,220 SF of currently existing impervious surface (such as pavement, sidewalk, curb, and gutter) and replace it with the same area of impervious surface (hot mix asphalt and concrete). There would be no new impervious surfaces. No currently pervious surfaces would be replaced with new impervious surfaces.

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

A temporary erosion and sedimentation control plan would be prepared and implemented. Best Management Practices (BMPs) as identified in the City of Seattle's Stormwater Code SMC 22.800 – 22.808, Director's Rule: 2009-004 SPU/16-2009 Department of Planning and Development (DPD), and Volume 2 Construction Stormwater Control Technical Requirements Manual would be used to manage stormwater runoff, construction disturbance, and erosion as needed 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.

The proposed work would generate GHG emissions during the estimated 40 working days (on average) required per site through the operation of diesel- and gasoline-powered equipment and vehicles and in the transportation of materials, equipment, and workers to and from each site. Construction equipment could include hand-held power tools, gasoline- and diesel-powered compressors and generators, and gasoline- and diesel-powered vehicles to remove existing roadway and utility infrastructure and construct new roadway and utility improvements. These tools would generate GHG emissions due to the combustion of gasoline and diesel fuels, and include oxides of nitrogen, carbon monoxide, particulate matter and smoke, un-combusted hydrocarbons, hydrogen sulfide, carbon dioxide, and water vapor. Other emissions during construction could include fugitive dust from ground-disturbing activities. These effects are expected to be localized, temporary, and minimized.

Total GHG emissions for the proposed work at Sites 1, 2, and 3 are summarized in the table below; calculations are provided in Attachment C. The estimates provided are based on assumptions for typical numbers of vehicle operations to execute the work. The completed project is not expected to generate GHG emissions through its assumed life expectancy of 100 years. GHG emissions generated during the manufacture of materials (embodied emissions) used in this project are not estimated or otherwise considered in this environmental analysis due to the difficulty and inaccuracy inherent in calculating such estimates.

Table 2: 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	906,090.6	411
Construction Activities (Diesel)	359,274.6	162.96
Construction Activities (Gasoline)	29,160	13.23
Long-term Maintenance (Diesel)	0	0
Long-term Maintenance (Gasoline)	0	0
Total GHG Emissions	1,294,525.2	587.19

[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 known off-site sources of emissions that may 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, proper vehicle maintenance, and minimizing 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.

There are no surface water bodies on or near these project locations. Portage Bay is more than 1,050 feet northeast of Sites 1, 2, and 3.

(**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.**

There are no surface water bodies on or near these project locations.

(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.

There are no surface water bodies on or near these project locations. No material would be placed in or removed from surface waters or wetlands.

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

Stormwater runoff from the project areas is directed into the existing combined sewer system. The project would not change the volume, timing, or duration of those discharges.

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

The project areas are not identified by the City of Seattle or the Federal Emergency Management Act (FEMA) as a flood-prone area.

(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 produce or discharge 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 ground water would be withdrawn, discharged, or surcharged as a result of this project.

(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.

No waste material would be discharged to ground water for this project.

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.

Stormwater runoff may need to be managed during construction to prevent sediment from entering and leaving the construction site. Any precipitation that lands on the construction site would be contained on-site and allowed to infiltrate. Barriers such as sandbags would be used to prevent runoff from entering the construction zone. Once construction is complete, temporary erosion control measures would be removed. The completed project would be re-covered with concrete and asphalt but would not create a need to manage additional stormwater runoff beyond currently existing conditions. Stormwater would follow current (pre-construction) pathways. The current volume, timing, and duration of these stormwater flows are not known.

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

No waste materials from this project would enter ground or surface waters.

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

No, the proposal would not alter drainage patterns.

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

No adverse impacts to surface, ground, or runoff water are anticipated. 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 as needed to control erosion and sediment transport to and from the project sites during construction. Construction work would be monitored, maintained, and adjusted as necessary to meet changing conditions.

4. Plants

a. Types of vegetation found on the site: *[check the applicable boxes]*

☒ Deciduous trees:	☐ Alder	☐ Maple	☐ Aspen	☒ Other: street trees; black cottonwood
☐ Evergreen trees:	☐ Fir	☐ Cedar	☐ Pine	☐ Other: (identify)
☒ Shrubs				
☒ Grass (mown turf and weeds)				
☐ Pasture				
☐ Crop or grain				
☐ Orchards, vineyards, or other permanent crops				
☐ Wet soil plants:	☐ Cattail	☐ Buttercup	☐ Bulrush	☐ Skunk cabbage
☐ Other: (identify)				
☐ Water plants**:**	☐ water lily	☐ eelgrass	☐ milfoil	☐ Other: (identify)
☐ Other types of vegetation: (identify*)*				

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

Street trees are present in the improved street rights-of-way affected by this project. Construction of the proposed project would not remove any vegetation. Trees in the right-of-way may need to be pruned to accommodate project construction. Trenching may also damage the root zones below the driplines of those trees. As part of SDOT's permitting, an arborist will evaluate if protective root construction techniques are needed.

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

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 project would limit pruning to that required for project construction and would restore ground-disturbed areas. Mitigation for any root zone disturbance would be determined in cooperation with SDOT as part of that Department's issuance of permits for the project.

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

The sites are mostly unvegetated paved street rights-of-way, including sidewalks and shoulders. However, numerous weeds are present in adjacent vegetated areas. The King County Noxious Weed Program (available at King County iMap interactive online mapping program, http://gismaps.kingcounty.gov/iMap/) identifies no noxious weeds in the project locations.

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: *[check the applicable boxes]*

Birds: ☒ Hawk ☒ Heron ☒ Eagle ☒ Songbirds
☒ Other: The project sites are within the Pacific Flyway migratory corridor and the project areas are known to host a wide variety of transient, resident, and migratory waterfowl, songbirds, and raptors. In addition to the boxes checked, some commonly observed species include transient geese, ducks, crows, pigeons, and gulls.

Mammals: ☐ Deer ☐ Bear ☐ Elk ☐ Beaver
☒ Other: The geographic extent of the project encompasses presence and habitats for a variety of animal species commonly found in urban areas. Commonly observed species include rats, opossum, raccoons, squirrels, rabbits, mice, and bats.

Fish: ☐ Bass ☐ Salmon ☐ Trout ☐ Herring
☐ Shellfish ☐ Other: These and other fish species are present in the Duwamish Waterway, Puget Sound, and Lake Washington. However, the project locations are more than 1,050 feet away from Portage Bay, the nearest fish-bearing water.

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

Based on a check of the Washington Department of Fish and Wildlife's "Priority Habitat Species on the Web" database on May 8, 2025, Sites 1, 2, and 3 are within a known historic occurrence of western pond turtle (*Actinemys marmorata*), a State-listed endangered species. Extant populations of western pond turtle are known from only a handful of locations in Washington, none of which are within or close to the City of Seattle.

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

Seattle 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.

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

This project would use BMPs and conservation measures, as identified in the City of Seattle's Stormwater Code SMC 22.800 – 22.808, Director's Rule: 2009-004 SPU/16-2009 DPD, and Volume 2 Construction Stormwater Control Technical Requirements Manual, to generally protect fish and wildlife. For example, equipment to be used for construction activity would be cleaned and inspected before it arrives at the project site to avoid and minimize the potential for fuel or lubricant leaks. In addition, SPU's construction contractor would be required to develop and implement a Spill Plan to control and manage spills during construction.

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 species for this area (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.*

The completed project would not require any supplementary energy to operate because it would replace existing infrastructure.

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. The pump station feeding into the pressure zone would more efficiently operate within its pump curve by interconnecting the distribution system with larger pipes.

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:

Sites 1, 2, and 3 are not known to have any environmental health hazards. Environmental health hazards likely to be present during construction include gasoline and diesel fuels, hydraulic fluids, oils, lubricants, solvents, paints, and other chemical products. A spill of one of these chemicals could potentially occur during construction because of equipment failure or worker error. If disturbed soils contain contaminated substances at higher than

anticipated levels, it could expose construction workers and potentially other individuals in the vicinity through fugitive dust, stormwater runoff, and/or vapors.

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

Sites 1, 2, and 3 are not known to have potential contamination from present or past uses.

(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.

Sites 1, 2, and 3 are not known to have hazardous chemicals/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.

Environmental health hazards likely to be present during construction include gasoline and diesel fuels, hydraulic fluids, oils, lubricants, solvents, paints, and other chemical products. A spill of one of these chemicals could potentially occur during construction because of equipment failure or worker error. Such materials would be stored and handled in accord with City of Seattle standard specifications and requirements.

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

Fire and/or medic services could be required during project construction. The completed project would not result in higher levels of special emergency services than already exist. Typical emergency services required for medical emergencies are provided by the Seattle Fire Department. Typical security services are provided by the Seattle Police Department and SPU's contractor during project construction. SPU's contractor would be required to prepare a health and safety plan.

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

No such measures are proposed; there would be no environmental health hazards.

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 areas 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 in the vicinity of construction would temporarily increase during construction activities. Short-term noise from construction equipment would be limited to the allowable maximum levels of City of Seattle's Noise Control Ordinance

(SMC Chapter 25.08). 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. There would be no additional noise after completion of the project except for periodic inspection, maintenance, and renovation activity.

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

Construction equipment would be muffled in accordance with the applicable laws. SMC Chapter 25.08 (which prescribes limits to noise and construction activities) would be enforced while the project is being constructed and during operations, except for emergencies.

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 proposed project sites are located within public rights-of-way used for vehicle and pedestrian travel and parking. Adjacent property uses are neighborhood residential. The work would not change 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 sites have not been recently used for agricultural purposes or forestry. The project would not result in 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 only aboveground structures in the rights-of-way at the project locations include fire hydrants, light poles, street signs, and other traffic and pedestrian-related appurtenances.

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

There are no above-grade building structures in the rights-of-way where the project sites are located. No building structures would be demolished but some water main segments would be demolished or abandoned. All removed, demolished, or damaged street pavement, curbs, and curb ramps would be replaced. While the project does not expect to damage or demolish light poles, signage, and related appurtenances, any such damaged features would be replaced.

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

Sites 1 and 3 are within a NR3 (Neighborhood Residential) zone, which generally allows detached single-family houses as well as attached and detached accessory dwellings. Site 2 is within both a NR3 zone and a LR2 (M) (Multifamily Residential) zone, where residential developments such as townhouses, rowhouses, and apartments are allowed.

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

The current comprehensive plan designation of Site 2 is both Single Family Residential and Multi-Family Residential. The designation of Sites 1 and 3 is Single Family Residential.

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

None of the sites are within a Shoreline Management District.

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

Environmentally Critical Areas as mapped by the City of Seattle (https://www.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2) do not occur at any of the project sites.

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?

No people would be displaced by the project.

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 proposed project is consistent with current 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 and forest lands 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 remove 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?

Approximately two (2) fire hydrants would be installed. No other building structures or above-ground structures are proposed.

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

No views would be altered or obstructed by the project. The project would be located at or below existing street grades.

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 produce 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 an emergency requires after-dark work during construction, portable lighting would be adjusted as feasible to minimize glare.

12. Recreation

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

There are no designated recreational opportunities in the immediate vicinity. E Miller St, E Lynn St, 11th Ave E, Federal Ave E, and E Boston St are all used by pedestrians, joggers, and bicyclists. Sites 1, 2, and 3 are approximately 0.3 mile northwest of Boren Park.

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

Project construction would temporarily displace pedestrians, joggers, and bicyclists from E Miller St, E Lynn St, 11th Ave E, Federal Ave E, and E Boston St. The proposed project would not interfere with access to or use of parks or other recreational sites and would not permanently 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:

Construction of the proposed project would require temporary lane and sidewalk closures. Such closures would comply with relevant policies administered by SDOT as part of the Street Use permitting process. There are numerous route alternatives for pedestrians, joggers, and bicyclists in the neighborhoods. Because the proposed project does not have any permanent recreational impacts, no measures to reduce or control recreational impacts are required.

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.

The proposed work would not affect any qualifying buildings, structures, or known cultural resources. This project would affect only City of Seattle existing roadway assets and municipal water system assets. None of those objects are considered historically or culturally significant. Additionally, there are no buildings, structures, or sites on or near the project site that are more than 45 years old and listed in or determined eligible for listing in national, state, or local preservation registers.

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 known landmarks, features, or other evidence of Indian or historic use or occupation, including human burials or old cemeteries. No historic-period or pre-contact material evidence, artifacts, or areas of cultural importance are known from or near Sites 1, 2, or 3. According to the Washington Information System for Architectural and Archaeological Records Data (WISAARD) landscape Predictive Model based on environmental factors, the project sites are in areas with Moderate and High Risk of inadvertent discovery of archaeological resources. The proposed work would disturb upland areas previously disturbed and filled by construction of roadways and utilities. The

work's locations on previously disturbed and filled ground resources reduce the chance of encountering contextually significant archaeological materials.

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 National Register or Washington Heritage Register eligible properties are in or adjacent to the project, the project sites were checked against the following resources on May 8, 2025:

Seattle Department of Neighborhoods Landmark Map:
http://www.seattle.gov/neighborhoods/programs-and-services/historic-preservation/landmarks/landmarks-map

Seattle Department of Neighborhoods Historic Resources Survey Database:
http://www.seattle.gov/neighborhoods/programs-and-services/historic-preservation/historic-resources-survey #historicresourcessurveydatabase

King County Historic Preservation Viewer:
https://kingcounty.maps.arcgis.com/apps/View/index.html?appid=08c6e1fe041b4f7a8912e21b55219de1

Washington Heritage Register and National Register of Historic Places:
http://www.dahp.wa.gov/historic-register

Washington Information System for Architectural and Archaeological Records Data database: https://wisaard.dahp.wa.gov/

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. The proposed work would affect only City of Seattle existing roadway assets and municipal water system assets. None of those objects are considered historically or culturally significant. Based on the Washington State Department of Archaeological and Historic Preservation's landscape Predictive Model, Sites 1 and 2 are in an area with High Risk and Site 3 is in an area with Moderate Risk of inadvertent discovery of archaeological resources. Therefore, the project will have an approved Inadvertent Discovery Plan onsite and in effect during all construction and ground-disturbing activities. The proposed work would disturb upland areas previously disturbed and filled by construction of roadways and utilities. The work's locations on previously disturbed and filled ground reduce the chance 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.

The project is located on improved public street rights-of-way that include East Miller Street (a Neighborhood Yield Street), East Lynn Street (a Neighborhood Yield Street), 11th Avenue East (a Neighborhood Yield Street), Federal Avenue East (a Neighborhood Yield Street), and East Boston Street (a Neighborhood Corridor). Primary access to Sites 1 and 2 would be via East Miller Street and East Lynn Street, respectively. Primary access to Site 3 would be via East Boston Street.

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 closest public transportation route is Metro Route 49, which stops at both 10th Ave E and E Miller St, approximately 225 feet west of Site 1 and 580 feet northwest of Site 2, and 10th Ave E and E Newton St, approximately 570 feet southwest of Site 3.

c. 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 would restore demolished and damaged street panels, curbs, gutters, and curb ramps to pre-construction conditions or better. No new roads or streets would be constructed as part of the project.

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

The proposed project would not use or occur in the immediate vicinity of water, rail, or air transportation.

e. 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?

Project construction would generate approximately 1,350 vehicle round-trips due to workers and materials being transported to and from the site during the total 120 working day construction period. Most of those trips would occur during business hours (between 7 am and 7 pm) on weekdays (Mondays through Fridays). The completed project would not generate vehicle round trips because the project is not expected to require maintenance over the project's 100-year lifespan.

f. 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.

Agricultural and forest products are not transported in the local area.

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

Temporary travel lane and parking lane closures are not expected to adversely impact vehicular traffic or bus routes. Work would occur between peak travel times as allowed by SDOT. Traffic detours, temporary lane closures, and emergency access would comply with relevant policies administered by SDOT as part of the Street Use permitting process. The

project would be required to prepare a traffic control plan as part of that permitting process.

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 proposed project is not expected to create an increased need for public services. The project would be required at all times to accommodate emergency access for buildings access via the affected streets. Emergency access would comply with relevant policies administered by SDOT as part of the Street Use permitting process.

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

During construction, the project would be required at all times to accommodate emergency access for structures accessed via affected streets. Otherwise, no mitigation is being proposed because the project would have no adverse impact on public services.

16. Utilities

a. Check utilities available at the site, if any: *[check the applicable boxes]*

☐ None
☒ Electricity ☒ Natural gas ☒ Water ☒ Refuse service
☒ Telephone ☒ Sanitary sewer ☐ Septic system
☒ Other (identify): Communications (Fiber/Cable)

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.

No new utilities are being proposed. Brief interruptions of water service would be required when existing water services are connected to the new water main. No interruptions of other utilities or services are anticipated as a result of project construction.

C. SIGNATURE

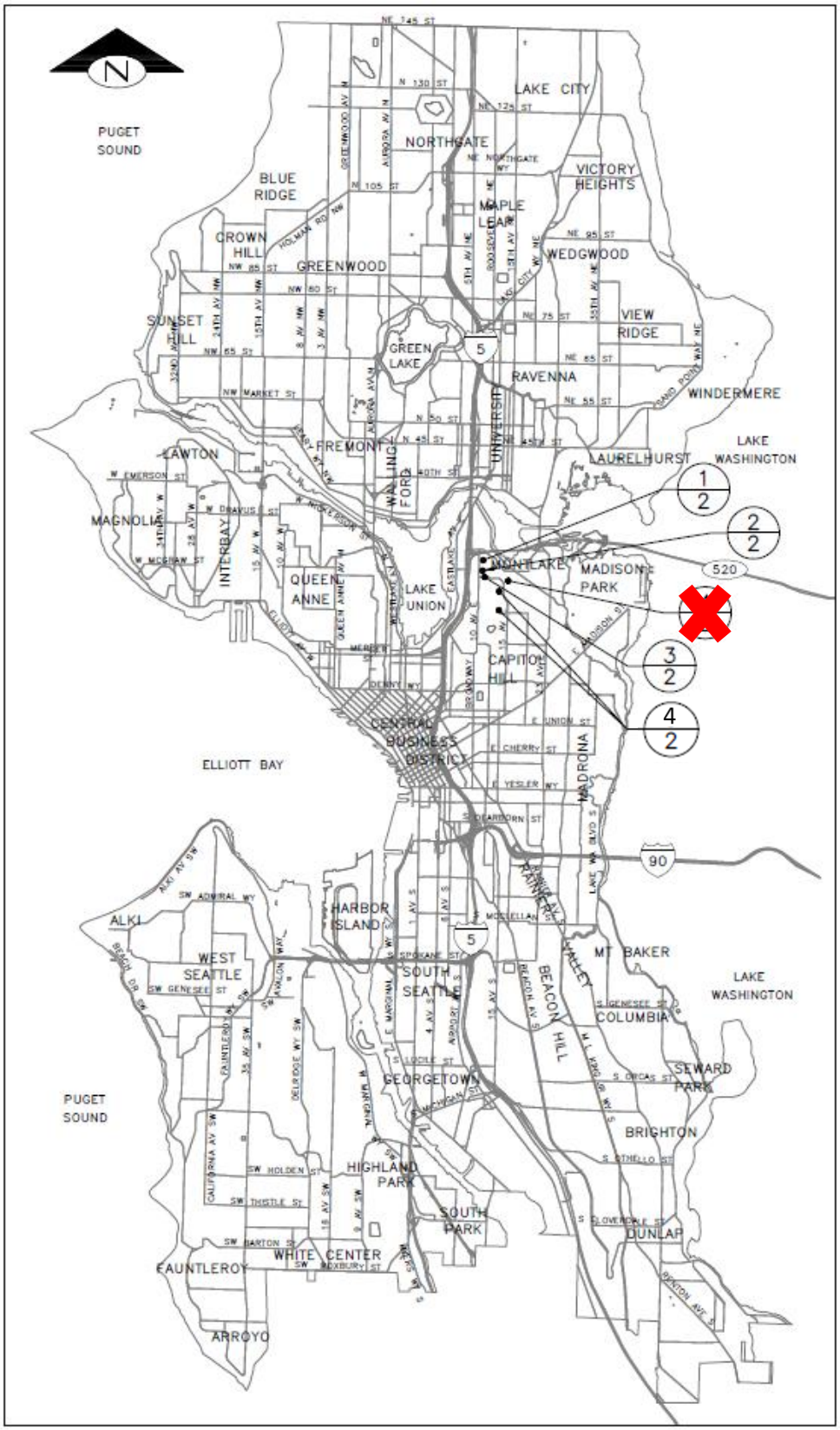
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Fernando Platin Digitally signed by Fernando Platin Date: 2025.08.19 09:58:16 -07'00' Date: 8/19/25

Fernando Platin
Project Manager

Attachment A – Vicinity Map
Attachment B – Site Map
Attachment C – Greenhouse Gas Emissions Worksheet

Attachment A – Vicinity Map of All Sites in Water Main Rehabilitation Package 7 Central


N
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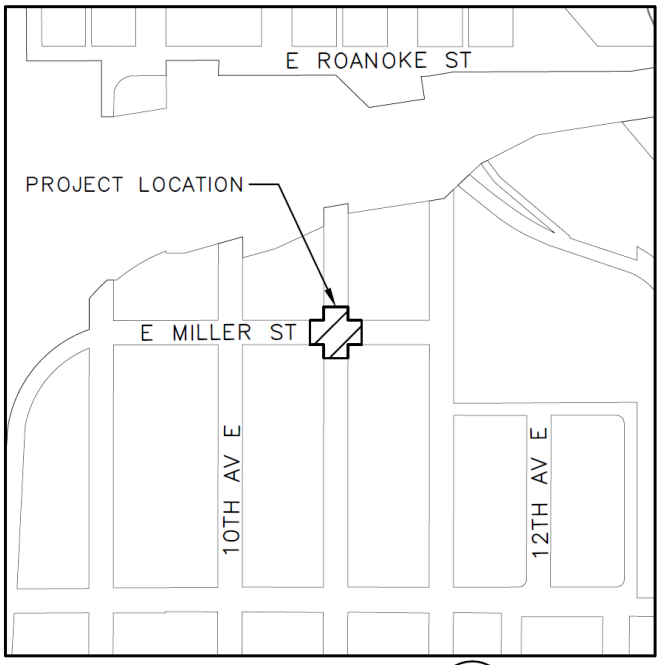
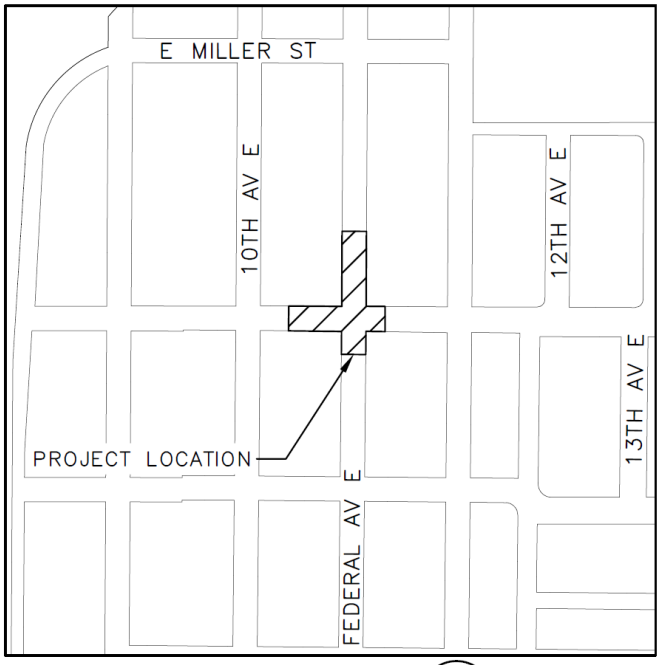
LAKE CITY
NORTHGATE
VICTORY HEIGHTS
BLUE RIDGE
MAPLE LEAF
CROWN HILL
GREENWOOD
WEDGWOOD
SUNSET HILL
VIEW RIDGE
GREEN LAKE
RAVENNA
WINDERMERE
LAWTON
FREMONT
LAUREL HURST
LAKE WASHINGTON
MAGNOLIA
INTERBAY
QUEEN ANNE
LAKE UNION
MONTLAKE
MADISON PARK
CAPITOL HILL
CENTRAL BUSINESS DISTRICT
ELLIOTT BAY
MADRONA
ALKI
HARBOR ISLAND
WEST SEATTLE
SOUTH SEATTLE
MT BAKER
BEACON HILL
COLUMBIA
SEWARD PARK
GEORGETOWN
BRIGHTON
HIGHLAND PARK
SOUTH PARK
DUNLAP
WHITE CENTER
FAUNTLEROY
ARROYO
1 2
2 2
3 2
4 2
520
90
5

Attachment B – Project Location (Sites 1, 2, and 3)



E MILLER ST 1/1
SCALE: 1" = 200'



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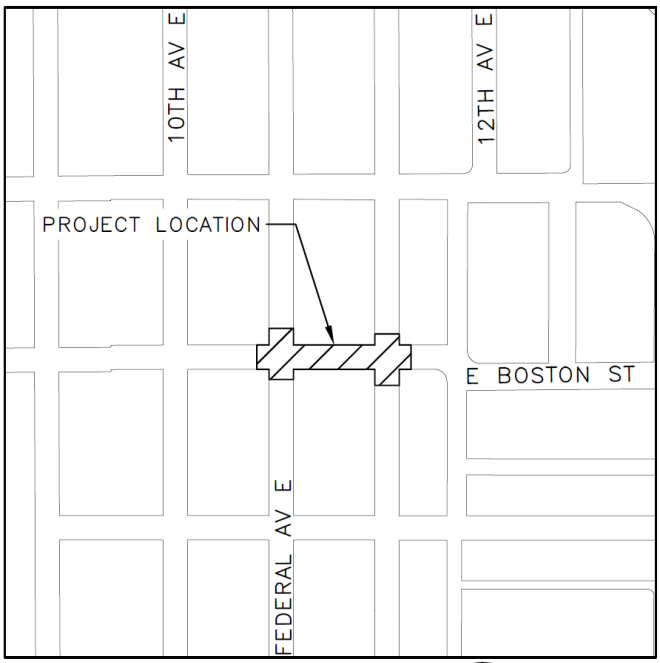

E BOSTON ST 3/1
SCALE: 1" = 200'

Attachment C – 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 ($MTCO_2e$)
Concrete/Asphalt (50 $MTCO_2e$/1,000 sq. ft. of pavement, 6 inches thick)*		8,220 SF				**411**
					TOTAL Section II Pavement	**411**

*King County SEPA GHG emissions Worksheet Bulletin 26, Version 1.7, December 26, 2007

Section III: Construction	
(See detailed calculations below)	**Emissions ($MTCO_2e$)**
TOTAL Section III Construction	**176.19**

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

TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT ($MTCO_2e$)	**587.19**

Section III Construction Details		
Construction: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
Backhoe/Excavator	8,000	400 hours x 20 gallons/hour (345 hp engine)
Vibratory Roller	32	40 hours x 0.8 gallons/hour (185 hp engine)
Dump Truck and Pup (17 CY per load)	300	60 round trips x 25 miles/round trip ÷ 5 mpg
Concrete/Asphalt Truck (10 CY capacity)	300	60 round trips x 25 miles/round trip ÷ 5 mpg
Front-end Loader	3,500	500 hours x 7 gallons/hour (345 hp engine)
Case 580 (concrete/asphalt demo)	800	400 hours x 2 gallons/hour
Flat-bed Truck	600	60 round trips x 50 miles/round trip ÷ 5 mpg
Subtotal Diesel Gallons	13,532	
GHG Emissions in lbs CO_2e	359,274.6	26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e	162.96	1,000 lbs = 0.45359237 metric tons

Construction: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Pick-up Trucks or Crew Vans	1,200	120 workdays x 5 trucks x 2 round-trips/day x 20 miles/ round trip ÷ 20 mpg
Subtotal Gasoline Gallons	1,200	
GHG Emissions in lbs CO_2e	29,160	24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e	13.23	1,000 lbs = 0.45359237 metric tons

Construction Summary		
Activity	**CO_2e in pounds**	**CO_2e in metric tons**
Diesel	359,274.6	162.96
Gasoline	29,160	13.23
Total for Construction	388,434.6	**176.19**

Section IV Long-Term Operations and Maintenance Details		
Operations and Maintenance: Diesel		
Equipment	**Diesel (gallons)**	**Assumptions**
Emergency Operation		
Maintenance Operation		
Fueling truck/repair truck		
Subtotal Diesel Gallons		
GHG Emissions in lbs CO_2e		26.55 lbs CO_2e per gallon of diesel
GHG Emissions in metric tons CO_2e		1,000 lbs = 0.45359237 metric tons

Operations and Maintenance: Gasoline		
Equipment	**Gasoline (gallons)**	**Assumptions**
Subtotal Gasoline Gallons		
GHG Emissions in lbs CO_2e		24.3 lbs CO_2e per gallon of gasoline
GHG Emissions in metric tons CO_2e		1,000 lbs = 0.45359237 metric tons

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

Gasoline		
Total Operations and Maintenance		