

**SEATTLE PUBLIC UTILITIES  
SEPA ENVIRONMENTAL CHECKLIST**

This SEPA environmental review of Seattle Public Utilities' (SPU) Combined Sewer Overflow (CSO) 59 Outfall Cleaning 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:**

Combined Sewer Overflow (CSO) 59 Outfall Cleaning Project

**2. Name of applicant:**

Seattle Public Utilities (SPU)

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

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**4. Date checklist prepared:**

June 6, 2022

**5. Agency requesting checklist:**

Seattle Public Utilities (SPU)

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

The proposed work is scheduled for 2023. Additional cleaning and inspections are expected to subsequently occur every five years for the remaining 60-year lifespan of the outfall.

**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. However, the City of Seattle owns many other combined sewer and stormwater outfalls, some of which will require future cleaning and repair unrelated to the combined sewer overflow (CSO) outfall evaluated in this Checklist. Once CSO 59 Outfall is cleaned and inspected, SPU may desire to conduct an improvement or repair to the outfall. However, that work has not been identified at this time.

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

Seattle Public Utilities. 2020. Combined Sewer Overflow Outfall Rehabilitation Plan 2021-2026. October 2020.

Herrera Environmental Consultants. 2006. Outfall Evaluation Report. Summary Report and Condition Assessment and Criticality Analysis: Findings and Recommendations.

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

No applications are known to be pending for governmental approvals of other proposals directly affecting the property covered by this proposal.

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

All or some of the following approvals and permits may be required:

City of Seattle Departments of Transportation (SDOT)

- Construction Use Permit [for construction in street rights-of-way]
- Utility Permit

King County Wastewater Treatment Division

Industrial Waste Program Wastewater Discharge Permit

Washington Department of Fish and Wildlife (WDFW)

Hydraulic Project Approval (HPA)

Washington State Department of Ecology (Ecology)

- Clean Water Act Section 401 water quality certification (linked to C Rivers and Harbors Act Section 10 permitting)
- Coastal Zone Management Act consistency determination (linked to Rivers and Harbors Act Section 10 permitting)

National Marine Fisheries Service (NMFS)

- Endangered Species Act compliance (tied to Rivers and Harbors Act Section 10 permitting)
- Magnuson-Stevens Fishery Conservation and Management Act compliance (linked to Rivers and Harbors Act Section 10 permitting)

Washington State Department of Historic and Archaeological Preservation (DAHP)

National Historic Preservation Act Section 106 compliance (linked to Rivers and Harbors Act Section 10 permitting)

U.S. Corps of Engineers (USACE)

Rivers and Harbors Act Section 10 permit authorization

**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.**

In some areas of the City of Seattle, sewage and stormwater runoff are collected in the same pipes, known as combined sewers. During storm events, sometimes the flow in these pipes exceeds the pipe system capacity. When this happens, the system overflows at combined sewer overflow (CSO) outfall structures designed for this purpose. There are currently 87 CSO outfalls in the City of Seattle where combined sewer overflows can occur. Such overflows are regulated by permits issued by Ecology under the National Pollutant Discharge Elimination System (NPDES).

These outfalls require periodic cleaning to ensure their continued ability to convey flows for the duration of their service lives. Recent closed-circuit video (CCTV) and dive inspection showed evidence of significant sediment and debris accumulation in certain CSO outfalls. This Checklist analyzes environmental effects of proposed maintenance cleaning and inspection at CSO 59 outfall. The outfall for CSO 59 is 36-inch diameter cast iron pipe constructed in 1958 and associated with Wastewater Pump Station 43 located at 5641R Seaview Ave NW, which is in street right-of-way for NW 57th St. The outfall pipe is approximately 182 feet long and discharges to Salmon Bay of Puget Sound (Attachment A).

Depending on pipe condition, accessibility, and other variables, one option is that the outfall would be plugged by divers and the pipe contents then jetted and vactored without discharging pipe contents (sediment and debris) and jetting water into the receiving water. The other option is that the outfall would be surrounded by a floating containment boom (turbidity curtain) to reduce turbidity, but the pipe contents sediment and organic debris would be flushed to the receiving water. The cleaning operation would use dechlorinated water and remove an undetermined volume of sand, gravel, rock, and organic debris from the interior of each outfall pipe. Regardless of cleaning method selected, jetting and vactoring would be conducted by land-based vactor equipment using the nearest principal upstream maintenance hole structure in City of Seattle street rights-of-way accessible by land. Once cleaned, the outfall would be CCTV-inspected to document post-cleaning condition, structural issues, and serviceability. Inspection activity would be conducted by land-based equipment using the nearest principal upstream maintenance hole structure accessible by land.

Once this initial cleaning is completed, the outfall may need to be inspected and cleaned (re-jetted/vactored or flushed) in the future. While there is no commitment to such inspection and cleaning, for purposes of evaluating environmental impacts of that activity for purposes of this Checklist, SPU estimates maintenance cleaning and inspection would occur not more frequently than every 5 years over the remaining lifespan of the outfall (estimated to be 60 years). Maintenance jetting would be conducted by land-based vactor equipment using the nearest principal upstream structure accessible by land. Pipe contents would be jetted into Puget Sound with turbidity controls. The outfall would be CCTV'd periodically to document condition and serviceability. That inspection activity would be conducted by land-based equipment using the nearest principal upstream structure accessible by land.

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

The location of CSO 59 outfall is shown in Attachment A. The outlet of the outfall is on tax parcel 0467000985 owned by USACE, City of Seattle, King County, Washington.

## 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)?**

The work area is flat to gently sloping. The outfall is always submersed.

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 outfall is on the bedlands of Salmon Bay of Puget Sound. This shoreline area has slopes between 1 and 15 percent. Beyond the shoreline areas, these bedlands have a slope of 1 to 5 percent.

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

Based on environmentally critical area mapping by the Seattle Department of Construction and Inspections (SDCI); <http://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=f822b2c6498c4163b0cf908e2241e9c2> there are no indications or history of unstable soils in any outfall location. The outfall is in flood-prone and steep slope Environmentally Critical Areas (ECA) as mapped by SDCI.

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.**

Volumes of material removed by periodic maintenance cleaning are unknown. All material to be removed by vactoring would be transported to a SPU decant facility for decanting, and the decanted material transported for disposal to an upland disposal facility licensed to accept such material. No fill material would be imported or exported. USACE considers the discharge of sediment and debris contained in these pipes into the receiving water to be a discharge of fill materials. The volumes of these potential discharges over the life of this proposal are not known.

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

The proposed work would not cause significant erosion because all work would be contained within a pipe.

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

The project would neither increase nor decrease the area of existing impervious surfaces.

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

No such measures are proposed because all work would be contained within pipes.

**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.**

Equipment could include hand-held power tools, gasoline and diesel-powered compressors and generators, and gasoline and diesel-powered vehicles to remove sediment and organic debris from the outfall. These tools would generate greenhouse gas emissions (GHG) due to the combustion of gasoline and diesel fuels, and include oxides of nitrogen, carbon monoxide, particulate matter and smoke, uncombusted hydrocarbons, hydrogen sulfide, carbon dioxide, and water vapor. Other emissions during could include dust and exhaust from construction vehicles. These effects are expected to be localized, temporary, and minimal.

Total GHG emissions for the proposed work are summarized in the table below; calculations are provided in Attachment B. Proposed work would produce GHGs through cleaning and inspection activity as described above throughout the remaining life of the subject outfall. The estimates provided are based on assumptions for typical numbers of vehicle operations required to execute the work (Attachment B). These estimates do not include the GHG associated with transporting the decanted material to disposal sites because those materials would be co-mingled with other vector waste and the ultimate destination(s) of those materials is not known at this time.

**SUMMARY OF GREENHOUSE GAS (GHG) EMISSIONS**

Activity/Emission Type	GHG Emissions (pounds of CO <sub>2</sub> e) <sup>1</sup>	GHS Emissions (metric tons of CO <sub>2</sub> e) <sup>1</sup>
Buildings	n/a	n/a
Paving	0	0
Construction Activities (Diesel)	0	0
Construction Activities (Gasoline)	0	0
Long-term Maintenance (Diesel)	7,646.4	3.47
Long-term Maintenance (Gasoline)	20,995.2	9.5
<b>Total GHG Emissions</b>	<b>28,641.6</b>	<b>12.97</b>

<sup>1</sup>Note: 1 metric ton = 2,204.6 pounds of CO<sub>2</sub>e. 1,000 pounds = 0.45 metric tons of CO<sub>2</sub>e

**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 the project. The neighborhoods and parcels adjacent to the outfall are fully developed primarily as single and multi-family residential uses.

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

Impacts to air quality would be reduced and controlled through implementation of federal, state, and local emission control criteria and City of Seattle required construction practices. These would include requiring contractors to use BMPs for construction methods, 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.**

The outfall discharges effluent to a receiving water (Puget Sound). Depending on pipe condition, accessibility, and other variables, the outfall would be plugged by divers and the pipe contents then jetted and vactored without discharging pipe contents (sediment and debris) and without jetting water into the receiving water. Otherwise, the outfall would be surrounded by a floating containment boom to reduce turbidity, but the pipe contents sediment and organic debris would be flushed to the receiving water. Each cleaning operation would use dechlorinated water and remove an undetermined volume of sand, gravel, rock, and organic debris from the interior of each outfall pipe. All vactored pipe contents would be removed from the outfall and disposed of at an approved upland disposal location.

**(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.**

The outfall discharges effluent to a receiving water (Puget Sound). It is not possible to avoid working in and near Puget Sound.

**(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.**

Depending on pipe condition, accessibility, and other variables, the outfall would be plugged by divers and the pipe contents then jetted and vactored without discharging pipe contents (sediment and debris) and without jetting water into the receiving water. Otherwise, the outfall would be surrounded by a floating containment boom to reduce turbidity, but the pipe contents sediment and organic debris would be flushed to the receiving water. Each cleaning operation would use dechlorinated water and remove an undetermined volume of sand, gravel, rock, and organic debris from the interior of each outfall pipe. All vactored pipe contents would be removed from the outfall and disposed of at an approved upland disposal

location. USACE considers the discharge of sediment and debris contained in these pipes into the receiving water to be a discharge of fill materials. The volumes of these potential discharges over the life of this proposal are not known.

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

The project would not permanently withdraw or divert surface water. During a cleaning event, water inside the pipe would be vactored and removed from the outfall location. That water would be separated at a SPU decant facility where the decant water is directed into the City's stormwater collection system that ultimately discharges to a receiving water.

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

The outfall is located on the bedlands of Puget Sound and is perpetually submersed.

**(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.**

Depending on pipe condition, accessibility, and other variables, the outfall would be plugged by divers and the pipe contents then jettted and vactored without discharging pipe contents (sediment and debris) and without jetting water into the receiving water. Otherwise, the outfall would be surrounded by a floating containment boom to reduce turbidity, but the pipe contents sediment and organic debris would be flushed to the receiving water. Each cleaning operation would use dechlorinated water and remove an undetermined volume of sand, gravel, rock, and organic debris from the interior of each outfall pipe. All vactored pipe contents would be removed from the outfall and disposed of at an approved upland disposal location. The volumes of these potential discharges over the life of this proposal are not known.

**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.**

This project would not withdraw groundwater.

**(2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals...; agricultural, etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

This project would not discharge waste material into the ground.

**c. Water Runoff (including stormwater):**

- (1) Describe the source of runoff (including stormwater) 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 project would not generate surface runoff. During a pipe cleaning event, water inside the pipe would be vactored and removed from the outfall location. That water would be separated at a SPU decant facility where the decant water is directed into the City's stormwater collection system that ultimately discharges to a receiving water. Volumes of that discharged water over the life of this proposal are unknown.

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

As described in Part A11, if an outfall is plugged during a pipe cleaning event, water and sediment/debris inside the pipe would be vactored and removed from the outfall location. That water would be separated at a SPU decant facility where the decant water is directed into the City's stormwater collection system that ultimately discharges to a receiving water. Volumes of discharged water over the life of this proposal are unknown. If pipe is not plugged and a turbidity curtain is used to manage turbidity, pipe contents would be jetted into receiving waters using dechlorinated jetting water. Volumes of jetting water over the life of the proposal are unknown.

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

The project would not affect drainage patterns.

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

No adverse impacts to surface water, ground water, or runoff water are anticipated so no such measures are proposed.

**4. Plants**

**a. Types of vegetation found on the site:**

<input checked="" type="checkbox"/> Deciduous trees:	<input checked="" type="checkbox"/> Alder	<input checked="" type="checkbox"/> Maple	<input type="checkbox"/> Aspen	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Evergreen trees:	<input checked="" type="checkbox"/> Fir	<input checked="" type="checkbox"/> Cedar	<input checked="" type="checkbox"/> Pine	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Shrubs				
<input checked="" type="checkbox"/> Grass (weeds)				
<input type="checkbox"/> Pasture				
<input type="checkbox"/> Crop or grain				
<input type="checkbox"/> Orchards, vineyards, or other permanent crops				
<input type="checkbox"/> Wet soil plants:	<input type="checkbox"/> Cattail	<input type="checkbox"/> Buttercup	<input type="checkbox"/> Bulrush	<input type="checkbox"/> Skunk cabbage
<input type="checkbox"/> Other:				
<input type="checkbox"/> Water plants:	<input type="checkbox"/> water lily	<input type="checkbox"/> eelgrass	<input type="checkbox"/> milfoil	<input type="checkbox"/> Other:
<input type="checkbox"/> Other types of vegetation:				

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

No vegetation would be removed or altered.

**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](http://www.dnr.wa.gov) ), there are no documented occurrences of sensitive, threatened, or endangered plant species in or near the work 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. Generally, the upland shoreline environment has been intensively disturbed by development and redevelopment over the last 100 years. The project area has been extensively excavated, filled, paved, or occupied by street and other built structures. There is no habitat for threatened or endangered plants.

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

No vegetation would be removed or altered so no such measures are proposed.

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

Work sites where equipment would be staged are in unvegetated paved street right-of-way for NW 57th St. However, weed and invasive species are present in adjacent vegetated areas. Himalayan blackberry (*Rubus armeniacus*) and English ivy (*Hedera helix*) are present in upland and riparian habitats in areas adjacent to the work site. Giant hogweed (*Heracleum mantegazzianum*) has been historically reported within 1,000 feet of the work site. According to the ‘Noxious Weed’ data layer in King County’s iMap website, giant hogweed is a Class A noxious weed in King County. Divers working on the project would deploy WDFW’s Level 1 Decontamination Protocols (<https://wdfw.wa.gov/sites/default/files/publications/01490/wdfw01490.pdf>) to avoid spreading noxious aquatic species.

**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:**

<b>Birds:</b>	<input checked="" type="checkbox"/> Hawk	<input checked="" type="checkbox"/> Heron	<input checked="" type="checkbox"/> Eagle	<input checked="" type="checkbox"/> Songbirds
	<input checked="" type="checkbox"/> Other: crow, pigeon, gull			
<b>Mammals:</b>	<input type="checkbox"/> Deer	<input type="checkbox"/> Bear	<input type="checkbox"/> Elk	<input checked="" type="checkbox"/> Beaver
	<input checked="" type="checkbox"/> Other: possum, raccoon, squirrel			
<b>Fish:</b>	<input type="checkbox"/> Bass	<input checked="" type="checkbox"/> Salmon	<input checked="" type="checkbox"/> Trout	<input checked="" type="checkbox"/> Herring
	<input checked="" type="checkbox"/> Shellfish <input checked="" type="checkbox"/> Other: salmon, steelhead, bull trout			

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

Endangered Species Act-listed aquatic species known to use Lake Washington, the Lake Washington Ship Canal, and Salmon Bay are Chinook salmon (*Oncorhynchus*

*tshawytscha*, Threatened Puget Sound), steelhead trout (*O. mykiss*, Threatened Puget Sound), and bull trout (*Salvelinus confluentus*, Threatened Puget Sound). Lake Washington, the Ship Canal, and Salmon Bay are known to provide habitat for coho salmon (*O. kisutch*) and sockeye salmon (*O. nerka*). A check of the Washington Department of Fish and Wildlife’s “Priority Habitat Species on the Web” database on March 21, 2022 indicated the project site is also known to support surf smelt (*Hypomesus pretiosus*).

As identified by the U.S. Fish and Wildlife’s IPAC website (<https://ipac.ecosphere.fws.gov/>), ESA-listed or candidate terrestrial species potentially in or near the work site include marbled murrelet (*Brachyramphus marmoratus*), streaked horned lark (*Eremophila alpestris strigata*), yellow-billed cuckoo (*Coccyzus americanus*), North American wolverine (*Gulo gulo luscus*), and gray wolf (*Canis lupus*). However, none of the species are known from the project site and the project site does not have suitable habitat for these species.

The outfall site is also known to be (but not mapped as being) within the habitat of bald eagle (*Haliaeetus leucocephalus*), peregrine falcon (*Falco peregrinus*), purple martin (*Progne subis*), and great blue heron (*Ardea herodias*)—priority species in Washington.

**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. Puget Sound, Lake Washington, and the Lake Washington Ship Canal are all important regional water migration routes for many animal species.

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

The proposal may require nominal amounts of vegetation pruning to obtain access to maintenance holes, but that pruning would be limited to just that required to obtain access. Cleaning events would comply with conditions of the HPAs issued for these outfall cleanings, including conditions that may require cleanings to be conducted during the WDFW-approved in-water work window (also known as the fish window). The project would not disturb ground and would deploy 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 to generally protect fish and wildlife and manage stormwater. For example, equipment to be used would be cleaned and inspected before it arrives at a work site to minimize potential for fuel or lubricant leaks.

**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 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.

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

The 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.

**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 cleaning and inspection 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 cleaning and inspection due to equipment failure or worker error. There would be no ground disturbance.

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

There are no known contamination issues at the work site or involving the pipe contents based on review of available information and SPU's previous experience cleaning similar outfalls.

- (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/conditions.

- (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.**

Small amounts of materials likely to be present during cleaning and inspection include gasoline and diesel fuels, hydraulic fluids, oils, lubricants, solvents, paints, and other chemical products. Material would be stored and handled in accordance 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 cleaning and inspection. However, the proposed work would not demand higher levels of special emergency services than already exist at the work site. 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 cleaning and operation activities.

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

No such measures are proposed because 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 area would not affect the proposed work.

**(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 proposed work would temporarily increase during cleaning and inspection activities. Short-term noise from cleaning equipment would be limited to the allowable maximum levels of City of Seattle's Noise Control Ordinance (SMC Chapter 25.08), which prescribes limits to noise and construction activities. Per SMC 25.08, elevated noise from construction equipment would be allowed only between the hours of 7 am and 10 pm weekdays, and between 9 am and 10 pm on weekends and legal holidays. For this project, cleaning and inspection would typically occur between 7 am to 6 pm on weekdays.

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

Equipment would be muffled in accordance with the applicable laws. SMC Chapter 25.08 prescribes limits to noise and construction activities and would be enforced during cleanings.

**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 work would occur in and along Shilshole Bay. Pump Station 43 is in street right-of-way for NW 57th St and the outfall is on tax parcel 0467000985 owned by USACE. Adjacent property uses are residential. The Pump Station is in a SDOT-designated Shoreline Street End (NW 57th St).

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?**

The project site has not been recently used for working farm or forest lands.

- (1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?**

There is no surrounding farm or forest land.

- c. Describe any structures on the site.**

The outfall site is in City of Seattle improved street right-of-way and on adjacent tax parcel 0467000985 owned by USACE. Structures in the rights-of-way include the Pump Station, benches, and a seawall constructed of salvaged concrete slabs.

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

The proposed work would not demolish structures.

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

The outfall location is in street right-of-way and on adjacent tax parcel 0467000985 owned by USACE in the C1-30 and near adjacent single family (5000 square foot) zones. C1-30 is a Mixed-Use zone where both residential and commercial development are allowed.

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

This outfall site is in the commercial/mixed use designation adjacent to a neighborhood residential designation.

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

This outfall site is in the City's Shoreline Management District (Urban Commercial environment).

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

The outfall site is in or adjacent to flood-prone and steep slope environmentally critical areas (ECA), as mapped by SDCI.

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

No people would reside in the project.

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

No people would be displaced.

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

There would be no displacements.

**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.

**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.

**9. Housing**

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

The 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 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?**

No new buildings are proposed.

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

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

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

There would be no adverse 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 project would be constructed during daylight hours. The completed project would not produce glare.

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

The proposed work would not produce glare.

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

No off-site sources of light or glare would affect the proposal.

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

The proposed work would not produce glare; no mitigation measures are proposed.

**12. Recreation**

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

The work site is in City of Seattle street right-of-way used for vehicular access as well as pedestrian access and activities such as bike-riding, walking, and jogging. The proposed work at CSO 59 outfall is landward and waterward of a SDOT-designated Shoreline Street End (NW 57th St), which is the land portion of a street segment that provides the public with visual or physical access to Lake Washington and its shoreline, or could provide such access if improved. Shoreline Street Ends are intended to improve public access and enjoyment of the shoreline, protect views, enhance shoreline habitat, encourage community stewardship, and support the maritime industry. This outfall location currently allows public pedestrian access to the Salmon Bay shoreline. The proposed work would not permanently change current public access to this Shoreline Street End or affect the land portion of the street segment.

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

The proposed work would not permanently displace existing recreational uses but would temporarily disturb or detour walking and biking along existing city street rights-of-way. Those disturbances and detours would be brief and *de minimis*.

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

Because the proposed work does not have any permanent recreational impacts, no measures to reduce or control recreational impacts are proposed.

**13. Historic and Cultural Preservation**

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

The proposed work would not affect any qualifying buildings, structures, or known cultural resources or disturb ground. This project would affect only City of Seattle existing roadway assets and stormwater and sewer systems. None of those objects are considered historically or culturally significant.

- 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 were identified on or near the project. According to the Washington Information System for Architectural and Archaeological Records Data (WISSARD) landscape Predictive Model based on environmental factors, the site is in an area with Very High Risk of inadvertent discovery of archaeological resources. The proposed work would be entirely contained in pipes in areas that have been previously disturbed and filled by construction of roadway and utilities. The work's avoidance of ground disturbance eliminates 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, State of Washington Heritage, or City of Seattle Landmark properties are in or adjacent to the project, the work site was checked against the following registers on March 21, 2022:

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/>

City of Seattle Landmarks Map: <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. This project would not disturb ground or affect City of Seattle existing roadway assets and stormwater and sewer systems. None of those objects are considered historically or culturally significant. Because the proposed work would not disturb ground or existing structures, no such measures are proposed.

**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 would occur within existing improved City-owned street right-of-way and on a parcel owned by USACE.

- 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 project site is not served by public transit.

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

The Project would not eliminate existing, or create additional, parking spaces.

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

The project does not require the construction of any new roads or street or improvements to existing roads or streets.

- 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 would not use 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?**

Over the anticipated 60-year life span remaining for this outfall, and assuming cleaning and inspection occurs every five years during that life span, approximately 300 new round trips would be generated by the proposed work (estimated using Attachment B) due to workers and materials being transported to and from an outfall site. Generally, trips would occur between 7 am and 7 pm weekdays, and 9 am and 7 pm weekends and legal holidays. Specific timing of peak volumes is not known. Peak traffic volumes are not expected to change because of the project.

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

The proposal would not affect movement of products on roads or streets.

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

Because impacts to transportation are *de minimis*, no such measures are proposed.

**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 work would not create an increased need for public services.

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

Because the proposed work would not create an increased need for public services, no such measures are proposed.

**16. Utilities**

**a. Check utilities available at the site:**

- |                                                               |                                                    |                                           |                                                    |
|---------------------------------------------------------------|----------------------------------------------------|-------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> None                                 |                                                    |                                           |                                                    |
| <input checked="" type="checkbox"/> Electricity               | <input checked="" type="checkbox"/> Natural gas    | <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Refuse service |
| <input checked="" type="checkbox"/> Telephone                 | <input checked="" type="checkbox"/> Sanitary sewer | <input type="checkbox"/> Septic system    |                                                    |
| <input checked="" type="checkbox"/> Other: fiber optic, 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. The proposed work is not anticipated to cause interruptions of utilities or services.

**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.

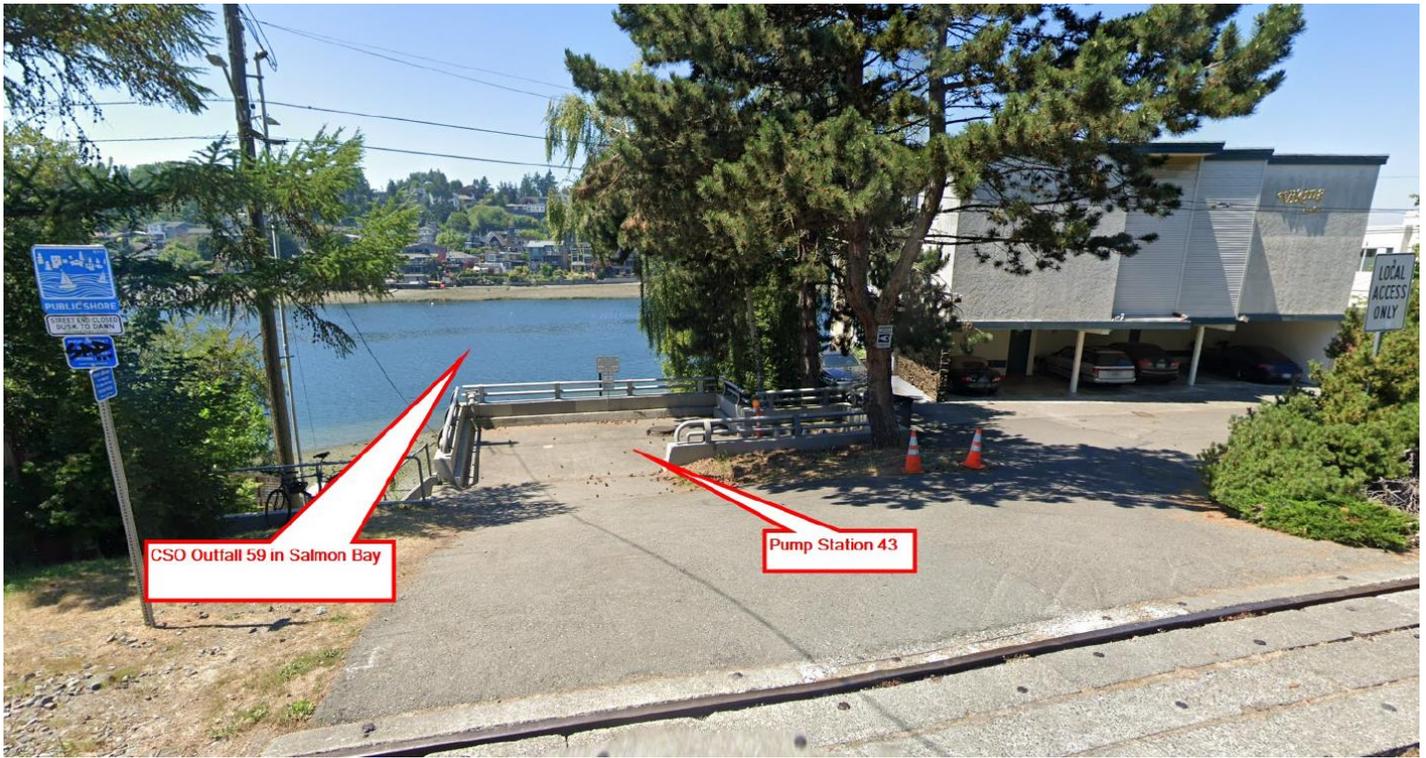
Signature: \_\_\_\_\_  
Jonathan Batara, Project Manager

Attachment A: Vicinity Map and Ground Photo  
Attachment B: Greenhouse Gas Emissions Worksheet

Attachment A: Vicinity Map and Ground Photo



Combine Sewer Overflow (CSO) 59 Outfall Cleaning Project  
SEPA Environmental Checklist



**Combine Sewer Overflow (CSO) 59 Outfall Cleaning Project  
SEPA Environmental Checklist**

**Attachment B: Greenhouse Gas Emissions Worksheet**

<b>Section I: Buildings</b>						
Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO <sub>2</sub> e)			Lifespan Emissions (MTCO <sub>2</sub> e)
			Embodied	Energy	Transportation	
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
<b>TOTAL Section I Buildings</b>						<b>0</b>

<b>Section II: Pavement</b>						
						Emissions (MTCO <sub>2</sub> e)
Asphalt Pavement (50 MTCO <sub>2</sub> /1000 sq ft)		0 SF				0
Concrete Pad (50 MTCO <sub>2</sub> e/1,000 sq ft of pavement at a depth of 6 inches; cy *2.7 to convert to MTCO <sub>2</sub> e)		0 cy				0
<b>TOTAL Section II Pavement</b>						<b>0</b>

<b>Section III: Construction</b>						
(See detailed calculations below)						Emissions (MTCO <sub>2</sub> e)
<b>TOTAL Section III Construction</b>						<b>0</b>

<b>Section IV: Operations and Maintenance</b>						
(See detailed calculations below)						Emissions (MTCO <sub>2</sub> e)
<b>TOTAL Section IV Operations and Maintenance</b>						<b>12.97</b>

<b>TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT (MTCO<sub>2</sub>e)</b>						<b>12.97</b>
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**Attachment B: Greenhouse Gas Emissions Worksheet, continued**

<b>Section III: Construction Details</b>		
<b>Construction: Diesel</b>		
<b>Equipment</b>	<b>Diesel (gallons)</b>	<b>Assumptions</b>
Subtotal Diesel Gallons		26.55 lbs CO <sub>2</sub> e per gallon of diesel 1,000 lbs = 0.45359237 metric tons
GHG Emissions in lbs CO <sub>2</sub> e		
GHG Emissions in metric tons CO <sub>2</sub> e	<b>0</b>	

<b>Construction: Gasoline</b>		
<b>Equipment</b>	<b>Gasoline (gallons)</b>	<b>Assumptions</b>
Subtotal Gasoline Gallons		24.3 lbs CO <sub>2</sub> e per gallon of gasoline 1,000 lbs = 0.45359237 metric tons
GHG Emissions in lbs CO <sub>2</sub> e		
GHG Emissions in metric tons CO <sub>2</sub> e	<b>0</b>	

<b>Construction Summary</b>			
<b>Activity</b>		<b>CO<sub>2</sub>e in pounds</b>	<b>CO<sub>2</sub>e in metric tons</b>
	Diesel	<b>0</b>	<b>0</b>
	Gasoline	<b>0</b>	<b>0</b>
	<b>Total for Construction</b>	<b>0</b>	<b>0</b>

<b>Section IV: Long-Term Operations and Maintenance Details</b>		
<b>Operations and Maintenance: Diesel</b>		
<b>Equipment</b>	<b>Diesel (gallons)</b>	<b>Assumptions</b>
One large vector truck and one inspection truck for maintenance cleaning and inspection	288	1 event/site x 12 (every 5 years for 60 years) x 1 site x 6 round-trips/event among the two vehicles x 20 miles/round-trip ÷ 5 mpg
Subtotal Diesel Gallons	<b>288</b>	26.55 lbs CO <sub>2</sub> e per gallon of diesel 1,000 lbs = 0.45359237 metric tons
GHG Emissions in lbs CO <sub>2</sub> e	<b>7,646.4</b>	
GHG Emissions in metric tons CO <sub>2</sub> e	<b>3.47</b>	

<b>Operations and Maintenance: Gasoline</b>		
<b>Equipment</b>	<b>Gasoline (gallons)</b>	<b>Assumptions</b>
Three Pick-up Trucks or Crew Vans	864	1 event/site x 12 (every 5 years for 60 years) x 1 site x 6 round-trips/event x 3 vehicles x 20 miles/round-trip ÷ 5 mpg
Subtotal Gasoline Gallons	864	24.3 lbs CO <sub>2</sub> e per gallon of gasoline 1,000 lbs = 0.45359237 metric tons
GHG Emissions in lbs CO <sub>2</sub> e	<b>20,995.2</b>	
GHG Emissions in metric tons CO <sub>2</sub> e	<b>9.5</b>	

<b>Operations and Maintenance Summary</b>			
<b>Activity</b>		<b>CO<sub>2</sub>e in pounds</b>	<b>CO<sub>2</sub>e in metric tons</b>
	Diesel	<b>7,646.4</b>	<b>3.47</b>
	Gasoline	<b>20,995.2</b>	<b>9.5</b>
	<b>Total for Operations and Maintenance</b>	<b>28,641.6</b>	<b>12.97</b>