

**SEATTLE PUBLIC UTILITIES  
SEPA ENVIRONMENTAL CHECKLIST**

This SEPA environmental review of Seattle Public Utilities’ Highland Park Basin Gate Replacement 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:**

Highland Park Detention Basin – Slide Gate Replacement

**2. Name of applicant:**

Seattle Public Utilities

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

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Drainage and Wastewater Line of Business, Systems Operations Planning and Analysis  
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206-256-5138

**4. Date checklist prepared:**

January 19, 2018

**5. Agency requesting checklist:**

Seattle Public Utilities

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

This project would be constructed in 2018 after all permits and approvals have been obtained. The work is anticipated to require one work day (8 hours).

**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.**

There are no known applications pending for governmental approval of other proposals directly affecting the drainage facility covered by this proposal.

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

The following permits may be needed to perform this work:

- Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW)
- Clean Water Act, Nationwide Permit, United States Army Corps of Engineers.

**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.**

Seattle Public Utilities (SPU) owns and operates the Highland Park Detention Basin (Basin), a drainage facility located in an area of Seattle known as the West Duwamish Greenbelt (Exhibit A). The Basin was constructed in 1971 in conjunction with the widening of West Marginal Way Southwest. It was designed to capture flood flows from an unnamed stream that collects drainage from perched forested wetlands located along the slope above the facility. Sediments settle out in the Basin and flood flows continue downstream into a drainage system that ultimately discharges to the Duwamish Waterway. The Basin is 15-feet wide by 34-feet long and has a concrete bottom (approximately 0.12 acre). Adjacent to the Basin is a 15-foot wide by 47-foot long sloped Access Road (approximately 0.022 acre) bounded by a 3-foot wide berm intended to prevent stormwater overflow onto Highland Park Way Southwest.

At the highest elevation, immediately upland from the Basin, the facility has an existing concrete headwall that is fitted with a manually operated slide gate assembly. Two corrugated metal pipes pass through the headwall: one is a 30-inch diameter pipe, and the other is an 18-inch diameter pipe. Under normal conditions, the manually operated slide gate covers the inlet to the 18-inch diameter pipe; and the unnamed stream flows toward the headwall, into the 30-inch diameter pipe, and then into the Basin. During Basin maintenance, the slide gate was designed to be manually raised from its normal position and used to close-off the 30-inch diameter pipe, allowing stream flows to bypass the Basin through the 18-inch diameter pipe (Exhibit B). However, it is difficult to manually position the slide gate over the 30-inch diameter pipe. In practice, SPU crews raise the slide gate to open the 18-inch diameter pipe and use an inflatable dam to close-off the 30-inch diameter pipe.

To provide a more efficient operation, the proposed project would install two new metal slide gates. One gate would be positioned over the 18-inch diameter pipe; the second would be fitted on the headwall to close-off the 30-inch pipe (Exhibit B) as needed.

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 Basin is a constructed drainage facility located in the watershed of the West Duwamish Waterway in the Highland Park neighborhood near the intersection of Highland Park Way Southwest and West Marginal Way Southwest in the City of Seattle, King County, Washington (zip 98106; Section 30, Township 24N, Range 04E; 47.540450 lat., -122.344280 long.). The project is in street right-of-way and has no street address.

## 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 project site is located on 30 to 40 percent slopes.

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 project site is in a forested street right-of-way and is generally underlain by alluvial and glacial till outwash deposits. 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 entire project location and immediately surrounding area have been completely developed and disturbed in this way. The site is not in use for agricultural purposes or considered prime farmland.

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

There are no surface features such as head scarps, hummocky terrain, seepage along steep slope surfaces, bulging at the bases of slopes, and/or evidence of permeable strata over relatively impermeable strata that indicate past or possible future slide activity. Portions of the project site have been identified as Steep Slope Areas, Potential Slide Areas, and Known Slide Areas—environmentally critical areas as identified and mapped by the Seattle Department of Construction and Inspections.

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.**

There would be no earthwork.

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

There would be no earthwork or other ground-disturbing activities.

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

The project would not install new or replace existing impervious surfaces.

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

Because there would be no ground-disturbance, no measures are proposed to reduce or control erosion.

**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.**

Mobile and stationary equipment would be used to construct the proposed project, thus generating emissions due to the combustion of gasoline and diesel fuels (such as oxides of nitrogen, carbon monoxide, particulate matter and smoke, uncombusted hydrocarbons, hydrogen sulfide, carbon dioxide, and water vapor). Emissions during construction would also include normal amounts of dust from removal of the existing gate, installation of the new gates, and exhaust (that is, carbon monoxide, sulfur, and particulates) from construction equipment and are expected to be minimal, localized, and temporary.

This project would generate greenhouse gas (GHG) emissions in two ways: use of material (embodied emissions) and construction activity. Embodied energy in materials used to construct this project (such as steel, grout, and so forth) has not been estimated as part of this SEPA environmental review due to the difficulty and inaccuracy of calculating those estimates. Total GHG emissions for the project are estimated to be about 0.04 metric tons of carbon dioxide emission (MTCO<sub>2e</sub>). The GHG emission calculations are shown in Attachment D. One metric ton is equal to 2,205 pounds.

This project would generate GHG emissions during the estimated 8-hour (one working day) construction period through the operation of gasoline-powered equipment and to transport materials, equipment, and workers to and from the site. Because project construction methods were not completely known at the time this checklist was prepared, the estimates provided here are based on daily vehicle operation times for the estimated project duration (8 hours); actual duration may be less. Construction activities would generate an estimated 0.04 MTCO<sub>2e</sub>. Once operational, the project is not expected to generate GHG emissions because these two gates are manually operated and not expected to require maintenance over their estimated 20-year lifespan.

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

No off-site emissions or odors that would affect this work

**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 the installation crew to use best available control technologies, enforcing 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 Basin is associated with an unnamed stream that drains slopes in the West Duwamish Greenbelt. The stream is an intermittent, non-fish-bearing watercourse and may not flow during dry summer months in some years.

- (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.**

Stream flows into the Basin are usually minimal in August and September, or the stream may not flow during these dry summer months in some years. For these reasons, SPU proposes to do the work “in the dry” sometime during those months.

- (3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands, and indicate the area of the site that would be affected. Indicate the source of fill material.**

No material would be placed in or removed from surface water or wetlands.

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

The unnamed stream is typically dry in the summer months and no stream diversions are anticipated. Project construction is anticipated to occur “in the dry.” The completed project or its construction would not require surface water withdrawals.

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

No portion of the project lies within a 100-year floodplain.

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

The proposal 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.**

The proposed project would not withdraw, discharge, or surcharge 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.

No waste material would be discharged to groundwater.

**c. Water Runoff (including storm water):**

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

The completed project or its construction would not create a need to manage stormwater runoff beyond current conditions.

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

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

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

The completed project or its construction would not affect existing drainage patterns.

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

No such measures are proposed because there would be no adverse impacts to surface waters, ground waters, or stormwater runoff.

**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 type="checkbox"/> Pine	<input type="checkbox"/> Other:
<input checked="" type="checkbox"/> Shrubs				
<input type="checkbox"/> Grass				
<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 checked="" 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 February 7, 2017” (accessed at [www.dnr.wa.gov](http://www.dnr.wa.gov)), there are no documented occurrences of sensitive, threatened, or endangered plant species at or near the project site. No federally-listed endangered or threatened plant species or State-listed sensitive plant species are known to occur within the City of Seattle’s municipal limits. The project site has been intensively disturbed by development and redevelopment over the last 100 years and has been extensively excavated, filled, paved, or occupied by street, utility, and other constructed features. 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.

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

Portions of the project are known to have infestations of Himalayan and evergreen blackberry (*Rubus armeniacus* and *R. laciniatus*, respectively)— both of which are classified by the Washington State Noxious Weed Board as Non-regulated Class C Weeds in King County.

**5. Animals**

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

<b>Birds:</b>	<input checked="" type="checkbox"/> Hawk	<input 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 type="checkbox"/> Beaver
	<input checked="" type="checkbox"/> Other: possum, racoon, coyote, squirrel			
<b>Fish:</b>	<input type="checkbox"/> Bass	<input type="checkbox"/> Salmon	<input type="checkbox"/> Trout	<input type="checkbox"/> Herring
	<input type="checkbox"/> Shellfish	<input type="checkbox"/> Other:		

**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 January 10, 2018, no sensitive, threatened, or endangered species are known to be on or near the project site. The project site is known to be (but not mapped as being) within the habitat of bald eagle (*Haliaeetus leucocephalus*) and great blue heron (*Ardea herodias*)—priority species in Washington.

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

Seattle is located within 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. Also, Puget Sound and Lake Washington are important water migration routes for many animal species.

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

The completed project or its construction is not expected to harm or harass wildlife or remove or damage wildlife habitat. No measures are proposed to preserve or enhance wildlife.

**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.**

No energy would be required to meet the constructed project's energy needs.

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

The proposal does not involve building structures or planting vegetation that would block access to the sun for adjacent properties.

**c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:**

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

**7. Environmental Health**

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

Small amounts of materials likely to be present during construction include gasoline fuels, hydraulic fluids, oils, and lubricants. A spill of one of these chemicals could potentially occur during construction due to equipment failure or worker error. Contaminated soils, sediments, or groundwater would not be exposed during excavation because the proposal does not involve ground-disturbing activities.

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

The project site is not known to have had industrial or commercial land uses that may have resulted in contamination of soil materials.

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

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

**(3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.**

Construction activities such as concrete drilling, grout-handling, etc., would generate *de minimis* amounts of pollutants that could potentially enter local drainage conveyance systems. Other pollutants that may be present during construction include petroleum products such as fuel, lubricants, hydraulic fluids, and form oils.

No toxic or hazardous chemicals would be stored, used, or produced at any time during the operating life of the constructed project.

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

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

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

The construction contractor would be required to develop and implement a spill prevention, control, and countermeasures plan to control and manage spills during construction. During construction, the contractor would use standard operating procedures and BMPs identified in the City of Seattle's Stormwater Code and Manual (Title 22, Subtitle VIII of the SMC and Directors' Rules SDCI 21-2015/SPU DWW 200) to reduce or control any possible environmental health hazards. Soils contaminated by previous land uses or by spills during construction would be excavated and disposed of in a manner consistent with the level and type of contamination, in accordance with federal, state and local regulations, by qualified contractor(s) and/or City staff.

As required by the Washington Department of Labor and Industries (WAC 296-843), a Health and Safety Plan would be prepared by SPU or SPU's contractor prior to work commencing. The plan would address proper employee training, use of protective equipment, contingency planning, and secondary containment of hazardous materials.

**b. Noise**

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

Noise that exists in the area would not affect the project.

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

Construction may require the use of power tools and construction vehicles. Construction would occur during normal business hours, most likely between 8 a.m. and 5 p.m.

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

Noise levels in nearby areas would temporarily increase during construction. Short-term noise from construction equipment would be limited to the allowable maximum levels of applicable laws, including the City of Seattle's Noise Control Ordinance [SMC Chapter 25.08.425—Construction and Equipment Operations]. Within the allowable maximum levels, SMC 25.08 permits noise from construction equipment between the hours of 7 a.m. and 7 p.m. weekdays. It is expected that construction would take no more than one working day to complete. The completed project would generate no additional noise from equipment used for operation or maintenance.

**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 is in a portion of a street right-of-way used for stormwater management. Adjacent property uses are parkland, open space, and roadways. The project would not affect current land uses on nearby or adjacent properties.

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

The site has not been used for agricultural purposes.

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

The proposal 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 site.

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

The facility consists of a concrete-lined basin, an overflow maintenance hole with an attached standpipe, two corrugated metal pipes, and one concrete headwall structure which supports the two pipes. The overflow maintenance hole discharges via a 24-inch diameter pipe to downstream maintenance holes.

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

No demolition will be required.

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

The project site is zoned Single Family Residential. Adjacent parcels are zoned Manufacturing/Industrial.

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

The comprehensive plan designates parcel Single Family Residential and adjacent parcels as Manufacturing/Industrial.

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

The project site is not in a Shoreline Management district.

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

Portions of the project site have been identified as Steep Slope Areas, Potential Slide Areas, Known Slide Areas, and Wildlife Habitat—as identified and mapped by the Seattle Department of Construction and Inspections.

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

No people would reside or work in the completed project.

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

The project would not displace any people.

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

There would be no displacement impacts.

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

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

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

There are no nearby agricultural 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 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?**

There are no buildings on the facility and this project does not propose to construct any buildings.

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

No views would be altered or obstructed.

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

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

**11. Light and Glare**

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

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

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

The completed project would not create light or glare.

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

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

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

No measures are needed to reduce or control light and glare impacts because no impacts would occur.

**12. Recreation**

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

There are no designated recreational opportunities in the immediate vicinity. The public uses the gravel road to access portions of the West Duwamish Greenbelt for dog-walking, walking, jogging, and bicycling. However, limited access and parking limits these uses.

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

The proposed work would not permanently or temporarily 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:**

No such measures are proposed because the proposal would not permanently or temporarily displace existing recreational uses.

**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.**

There are no places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site. To determine if National Register or State of Washington Heritage properties are in or adjacent to the project area, the project location was checked against the following registers on January 10, 2018.

- City of Seattle Landmarks  
[http://www.cityofseattle.net/neighborhoods/preservation/landmarks\\_listing.htm](http://www.cityofseattle.net/neighborhoods/preservation/landmarks_listing.htm)
- Washington Heritage Register and National Register of Historic Places and WISAARD database <http://www.dahp.wa.gov/learn-and-research/find-a-historic-place>

While the WISAARD database indicates numerous historic property reports have been submitted for various structures near the project location, none of these registers recorded any places or objects formally listed on, or proposed for, national, state, or local preservation registers on or adjacent to the project location. No architectural inventory is required for this project because no structures would be demolished or altered.

**b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.**

According to WISAARD, there are no such cultural resources at or near the project site. The project would not include any ground-disturbing activities.

- 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 properties are in or adjacent to the project site, the project location was checked against the following registers on January 10, 2018:

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

WISAARD database: <https://fortress.wa.gov/dahp/wisaardp3/>

- d. **Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

No such measures are proposed because no known historic or cultural resources would be disturbed and there would be no ground-disturbing activities.

#### 14. Transportation

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

The project site is accessed from Interstate 5, State Route (SR) 99, and SR 509. The project site is accessed via arterial routes, including Highland Park Way Southwest and West Marginal Way Southwest.

- 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?**

Metro Bus route 131 operates on Highland Park Way Southwest. The nearest bus stop is located on Highland Park Way Southwest more than 200 feet from the project site. The proposed project would not affect public transportation.

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

The completed project would neither create nor eliminate any parking spaces.

- 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 would not require any new roads or improvements to roads, streets, pedestrian, bicycle or state transportation facilities.

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

The proposed project would not use or occur near water, rail, or air transportation.

- f. **How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?**

Construction of the proposed work would generate up to four vehicle round trips. The completed project would require no maintenance beyond that normally occurring for the on-going and routine operation, maintenance, and monitoring of the Basin.

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

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

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

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

**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 areas accessed via the affected streets.

- 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. Otherwise, no mitigation is being proposed because the project would have no adverse impacts on public services.

**16. Utilities**

- a. **Check utilities available at the site, if any:**

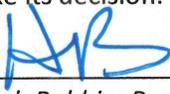
None  
 Electricity     Natural gas     Water     Refuse service  
 Telephone     Sanitary sewer     Septic system  
 Other: cable and fiber optics

- b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

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

**C. SIGNATURE**

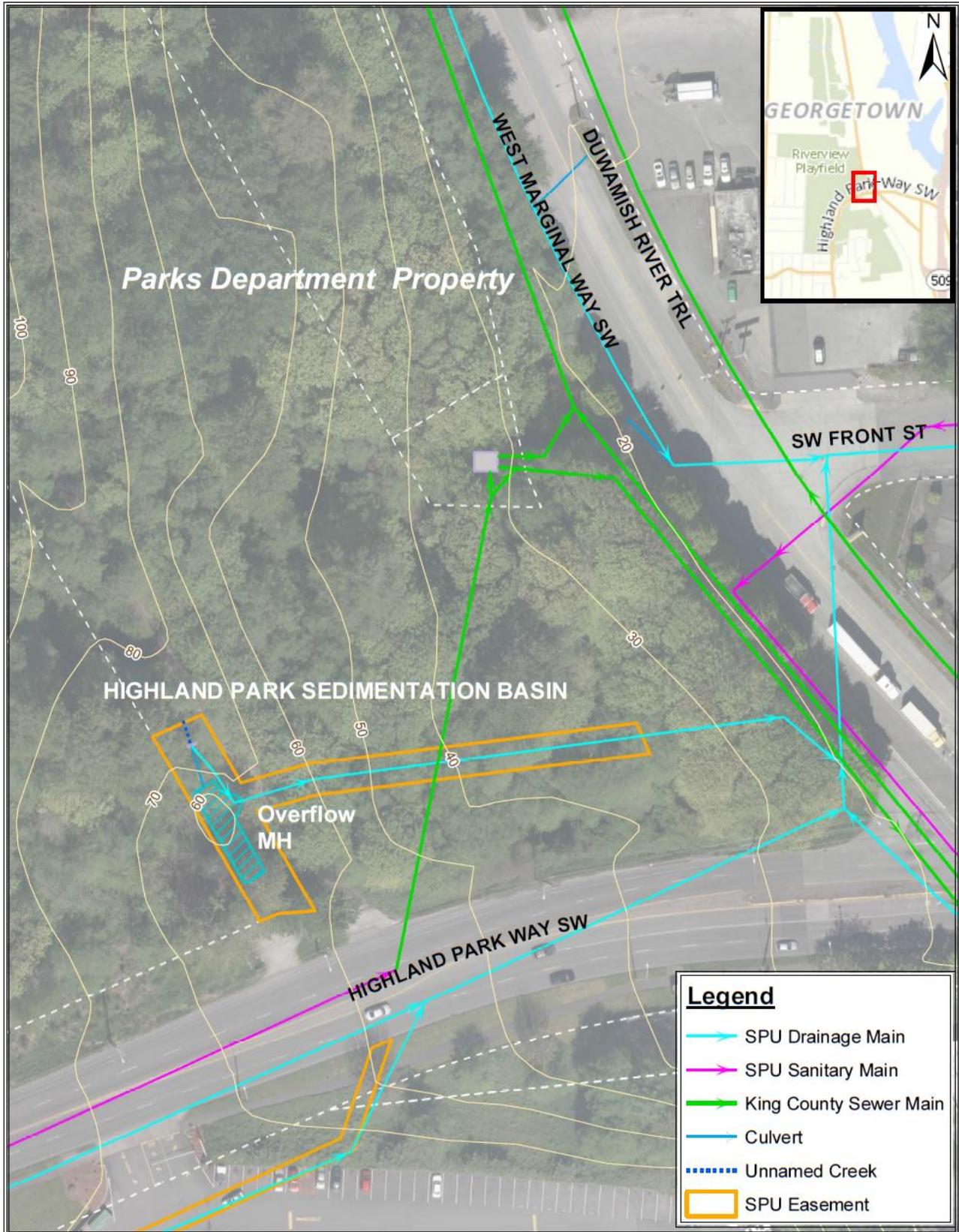
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:   
Hannah Babbin, Project Manager

Date: 1/19/2018

- Exhibit A – Vicinity Map
- Exhibit B – Project Plan
- Exhibit C – Illustrations
- Exhibit D – Greenhouse Gas Emissions Worksheet

Exhibit A – Vicinity Map

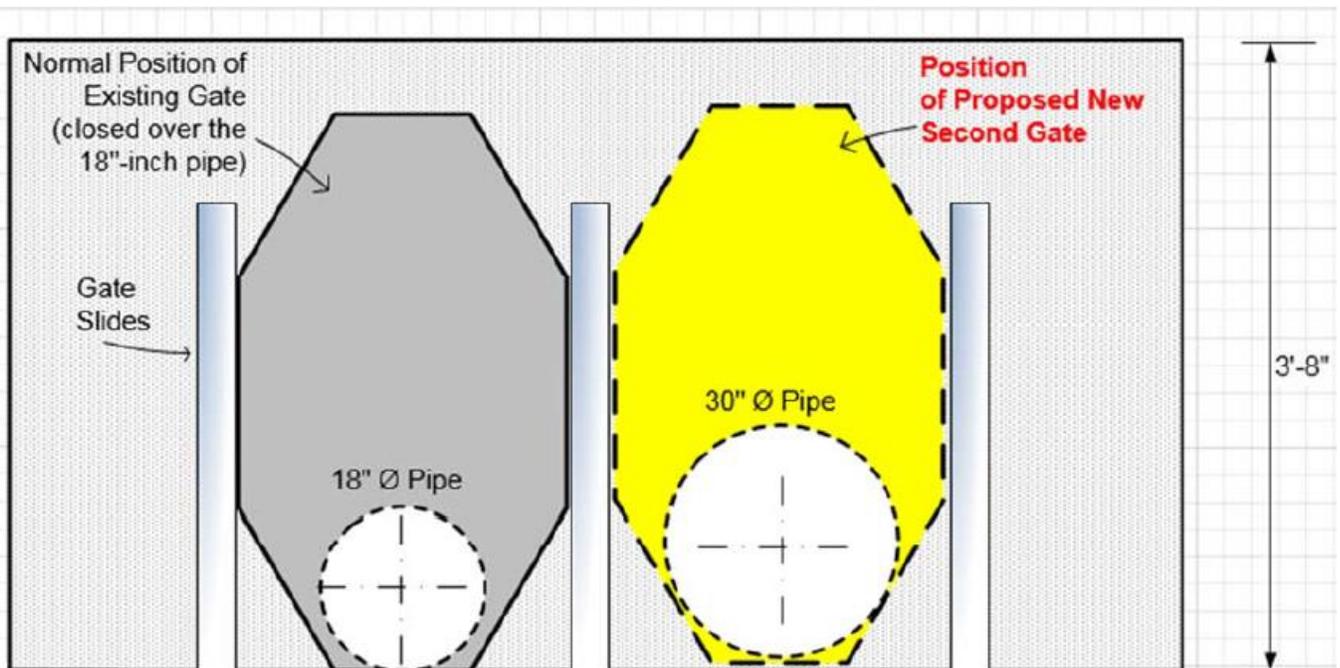




Attachment C – Illustrations



PHOTO 1: Existing slide gate at concrete headwall



**Highland Park Detention Basin – Slide Gate Replacement  
SEPA Environmental Checklist**

**Attachment D – Greenhouse Gas Emissions Worksheet**

<b>Section I: Buildings</b>						
			Emissions <b>Per Unit</b> or <b>Per Thousand Square Feet</b> (MTCO <sub>2</sub> e)			
Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Embodied	Energy	Transportation	Lifespan Emissions (MTCO <sub>2</sub> e)
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)
Pavement (sidewalk, asphalt patch)					
Concrete Pad (50 MTCO <sub>2</sub> e/1,000 sq. ft. of pavement at a depth of 6 inches)		Not Applicable			0
<b>TOTAL Section II Pavement</b>					

<b>Section III: Construction</b>	
(See detailed calculations below)	Emissions (MTCO <sub>2</sub> e)
<b>TOTAL Section III Construction</b>	<b>0.04</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>0</b>

<b>TOTAL GREENHOUSE GAS (GHG) EMISSIONS FOR PROJECT (MTCO<sub>2</sub>e)</b>	<b>0.04</b>
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**Highland Park Detention Basin – Slide Gate Replacement  
SEPA Environmental Checklist**

**Attachment D – Greenhouse Gas Emissions Worksheet, continued**

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

Construction: Gasoline		
Equipment	Gasoline (gallons)	Assumptions
Pick-up Trucks or Crew Vans (2)	4	1 workday x 2 trucks x 2 round-trip/day x 20 miles/ round trip ÷ 20 mpg
Subtotal Gasoline Gallons	4	
GHG Emissions in lbs CO <sub>2</sub> e	97	24.3 lbs CO <sub>2</sub> e per gallon of gasoline
GHG Emissions in metric tons CO <sub>2</sub> e	0.04	1,000 lbs = 0.45359237 metric tons

Construction Summary		
Activity	CO <sub>2</sub> e in pounds	CO <sub>2</sub> e in metric tons
Diesel	0	0
Gasoline	97	0.04
<b>Total for Construction</b>	97	<b>0.04</b>

Section IV Long-Term Operations and Maintenance Details		
Operations and Maintenance: Diesel		
Equipment	Diesel (gallons)	Assumptions
Subtotal Diesel Gallons		
GHG Emissions in lbs CO <sub>2</sub> e	0	26.55 lbs CO <sub>2</sub> e per gallon of diesel
GHG Emissions in metric tons CO <sub>2</sub> e	0	1,000 lbs = 0.45359237 metric tons

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

Operations and Maintenance Summary		
Activity	CO <sub>2</sub> e in pounds	CO <sub>2</sub> e in metric tons
Diesel	0	0
Gasoline	0	0
<b>Total Operations and Maintenance</b>	0	<b>0</b>