



July 25, 2024

TO: Recipients of the Routine Maintenance & Repair of Publicly Owned Drainage System Facilities
SEPA DNS/Checklist

FROM: Nathan Hart, SEPA Responsible Official

SUBJECT: Addendum to the Routine Maintenance & Repair of Publicly Owned Drainage System Facilities
SEPA DNS/Checklist SEPA Environmental Checklist and Determination of Non-Significance

PURPOSE OF THIS ADDENDUM

In October 2023, Seattle Public Utilities (SPU) prepared a State Environmental Policy Act (SEPA) Environmental Checklist that analyzed environmental impacts of the proposed Routine Maintenance & Repair of Publicly Owned Drainage System Facilities. SPU conducts routine operation, maintenance, and repair of publicly owned drainage system facilities (routine drainage maintenance) throughout the City of Seattle. Some of this work is conducted wholly or in part on lands covered by water and must be reviewed for environmental impacts. For efficiency, SPU has chosen to conduct a system-wide environmental review for three categories of drainage system facilities: open channel drainage system facilities, enclosed drainage system facilities, and drainage system pond facilities. SPU's drainage system includes approximately 58 open channel drainage facilities, 52 enclosed drainage facilities, and 17 drainage system pond facilities located throughout the municipal limits of the City of Seattle.

Work would be performed at each site using one or more of eight routine types of maintenance and repair activities, as summarized below:

- Sediment and Debris Removal
- Vactoring and Jetting
- Vegetation Control
- Anchoring Large Woody Material (LWM)/Habitat Restoration
- Beaver Dam Management
- Mechanical Improvements and Repairs/Replacements
- Safety Improvements
- Monitoring Equipment Installation, Repair/Replacement

The eight types of maintenance activities summarized above may include implementation of the seven methods and BMPs summarized below:

- Delineation of Work Areas
- Temporary Bypass of Streamflow
- Vactoring and Jetting
- Excavating
- Bank/Retaining Wall Stabilization
- Addition or Maintenance of Habitat Elements
- Site Restoration/Landscaping

Maintenance activities and methods use BMPs designed to avoid, minimize, and mitigate impacts on waterbodies and aquatic life. In addition, the Seattle Biological Evaluation (<https://www.seattle.gov/utilities/construction-resources/standards-and-guidelines/seattle-biological-evaluation>) and City of Seattle’s 2021 Stormwater Manual (<https://www.seattle.gov/documents/Departments/SDCI/Codes/StormwaterCode/2021SWCodeFinalClean.pdf>) would be used to select and implement appropriate BMPs to minimize disruption to the natural environment. Work would also comply with other regulations protecting water quality, endangered species, shorelines, and ECAs.

The Checklist included these five Exhibits describing the facilities and the activities and methods used:

- Exhibit A – Drainage System Facility Information Summary Tables
- Exhibit B – Drainage System Facility Addresses
- Exhibit C – Routine Maintenance & Repair Activities
- Exhibit D – Overview Location Maps & Representative Facility Data Sheets
- Exhibit E – Routine Maintenance & Repair Methods

As lead agency for SEPA, SPU issued a Determination of Non-Significance (DNS) for the proposed routine maintenance and repair work on October 12, 2023. Since issuance of the DNS, SPU identified omissions in Exhibits A-3, B-3, D-4 and F involving Pond Drainage System Facilities. SPU has prepared this addendum to address those omissions and assess how these changes affect analyses included in the April 2019 Environmental Checklist. Upon request, SPU can provide the revised versions of the Checklist and Exhibits A-3, B-3, D-4, and F-3 showing deletions (strike-through font), additions (underline font), and deleted figures. Those revisions are described here, showing deletions (strike-through font), additions (underline font), and deleted figures:

SEPA Environmental Checklist, Part B11, first paragraph, last sentence:

Original Language: SPU’s drainage system includes approximately 58 open channel drainage facilities, 52 enclosed drainage facilities, and 19 drainage system pond facilities located throughout the municipal limits of the City of Seattle. For clarity some ponds may be broken down into more discreet parts of the facility (Subsites).

Revised Language: SPU’s drainage system includes approximately 58 open channel drainage facilities, 52 enclosed drainage facilities, and 179 drainage system pond facilities located throughout the municipal limits of the City of Seattle. For clarity some ponds may be broken down into more discreet parts of the facility (Subsites).

SEPA Environmental Checklist, Table 1 (Combined Per Annum Summary of Greenhouse Gas (GHG) Emissions):

Original Table:

| Activity/Emission Type | GHG Emissions (pounds of CO₂e)¹ | GHG Emissions (metric tons of CO₂e)¹ |
|--|--|---|
| Buildings | 0 | 0 |
| Paving | 0 | 0 |
| Construction Activities (Diesel) | 0 | 0 |
| Construction Activities (Gasoline) | 0 | 0 |
| Long-term Maintenance (Diesel) | 628,253 | 285.0 |
| Long-term Maintenance (Gasoline) | 372,155 | 169 |
| Approximate Total GHG Emissions | 1,011,325 | 454 |

Revised Table:

| Activity/Emission Type | GHG Emissions (pounds of CO₂e)¹ | GHG Emissions (metric tons of CO₂e)¹ |
|--|--|---|
| Buildings | 0 | 0 |
| Paving | 0 | 0 |
| Construction Activities (Diesel) | 0 | 0 |
| Construction Activities (Gasoline) | 0 | 0 |
| Long-term Maintenance (Diesel) | 627,377 | 284.5 |
| Long-term Maintenance (Gasoline) | 370,988 | 168.2 |
| Approximate Total GHG Emissions | 998,365 | 452.7 |

SEPA Application Exhibits, Exhibit A-3: First column renamed ‘Site Facility Name – Subsite’ from ‘Site Name.’ Revisions to this table included only additions; see Attachment A to this Addendum.

SEPA Application Exhibits, Exhibit B-3: First column renamed ‘Site Facility Name – Subsite’ from ‘Site Name’ and minor revisions made to this table.

Revised Table (showing additions and deletions only):

| | |
|--------------------------|---|
| <u>Lake City Pond</u> | <u>NE 125th Steet / 35th Ave NE</u> |
| Blue Dog Pond | 26th Ave S / S Massachusetts St. |

SEPA Application Exhibits, Exhibit D-4: Site and map for Blue Dog Pond were removed.

SEPA Application Exhibits, Exhibit F (Greenhouse Gas Emissions Worksheet): Calculations were updated due to removal of Blue Dog Pond site, which resulted in slight reduction of the proposal’s greenhouse gas emissions.

SEPA Application Exhibits, Exhibit F, Table F-3: First column renamed ‘Site Facility Name – Subsite’ from ‘Site Name,’ Blue Dog Pond site removed, and calculations recalculated.

ORIGINAL PROJECT INFORMATION

As lead agency, SPU has reviewed these changes and concluded these revisions do not substantially alter the analyses of impacts contained in the April 2019 Environmental Checklist and will not result in any significant environmental impacts. This addendum has been prepared in accordance with the authority provided in SMC 25.05.600 and in accordance with the procedures described in SMC 25.05.625.

UPDATED PROJECT INFORMATION

SPU has reviewed these changes and concluded these revisions do not substantially alter the analyses of impacts contained in the October 2019 Environmental Checklist and its Exhibits and will not result in any significant environmental impacts. No additional technical reports have been prepared that directly relate to this proposal.

CHANGES TO ENVIRONMENTAL ELEMENTS

The proposed revisions slightly reduced the estimated greenhouse gas emissions and otherwise would not result in changes to other Elements of the Environmental Checklist.

If you have questions about the proposed work, please call or email:

Chapin Pier, Project Manager, Drainage and Wastewater Line of Business, Systems Management Section
Seattle Public Utilities
206-615-0464; Chapin.Pier@seattle.gov

Any comments on this addendum must be submitted via email no later than August 9th, 2024 to:

Nathan Hart, SEPA Responsible Official
Seattle Public Utilities
Nathan.Hart@seattle.gov

Signature: _____

Issue Date: July 25, 2024

ATTACHMENT A TO THIS ADDENDUM: SEPA Application Exhibits, Exhibit A-3, showing additions.

| Facility Name - SubSite | Zoning | Latitude | Longitude | Water Feature Associated with Facility | Drainage Basin | Drainage Facility | Maintenance | Methods* | Limits of Work | Estimated Maintenance Activity Duration and Quantities | Estimated Frequency of Maintenance | Environmentally Critical Areas |
|--|---------------|---------------|----------------|--|----------------------------------|---|--|---|---|---|--|---|
| Lake City Detention Pond | Multi Family | 47.71877 N | 122.29123 W | Littlebrook Creek | Thornton Basin - Lake Washington | Stormwater detention: Pond- 24-inch inflow with headwall; 60-inch inflow with headwall and trash rack; outflow structure with 30-inch pipe, trash rack and headwall; and emergency overflow spillway. | Sediment and Debris Removal. Control Vegetation. Embankment surface restoration work. Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. Work to be done during dry season. Construct temporary access road and extend existing permanent access pad. Use of water tight structure to bypass creek flow around the pond. Dewater the Pond using pumps. Fish protection measures as needed may include fish screens, catch and release downstream. | Remove accumulated sediment and debris from pond and inflow/outflow structures/pipes and trash rack. Maintain overflow spillway. Thin vegetation in pond and around structures, and on perimeter slopes. Removal of up to 2-mature trees may be necessary for construction of temporary access road and access path. Replace trees with similar native species at min. 1:1. | Sediment - 4 weeks, 1500 CY.; Vegetation - 1 Week; Debris - 1 Day | Sediment - As frequently as annually; Vegetation – As frequently as monthly; Debris – As needed; Demand work – As needed | Flood prone, wetlands, riparian corridor, steep slope |
| Lake City Detention Pond: Flow Control Structure | Multi Family | 47.71877 N | 122.29123 W | Littlebrook Creek | Thornton Basin - Lake Washington | Concrete flow control structure- 30-inch overflow with trash rack; overflow maintenance hole with 24-inch orifice plate and bird cage debris rack; and 48" outlet pipe. | Sediment and Debris Removal. Control vegetation. Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. | Remove accumulated sediment and debris from birdcage trash rack and inside of structures. | Sediment - 1 Week 10 CY.; Debris - 1 Day | Sediment - As needed; Debris – As needed; Demand work – as needed | Flood prone, wetlands, riparian corridor, steep slope |
| Outfall to Bitter Lake WDFW Site #LU1 | Single Family | 47.72845 N | 122.35477 W | Bitter Lake | Lake Union | 48-inch concrete outfall pipe and upstream structures. Discharges stormwater to Bitter Lake | Sediment and Debris Removal, Control Vegetation. Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. Isolate in pond work area with turbidity curtain. Fish protection measures as needed may include fish screens, catch and release. | Remove accumulated sediment and debris around outfall. Thin obstructing and noxious vegetation as needed. | Sediment - 2 Week 100 CY.; Debris - 1 Day; Vegetation - 1 Day | Sediment - As frequently as annually; Debris – As needed; Vegetation – As frequently as annually | Riparian corridor, wildlife |
| Outfall to Green Lake | Single Family | 47.68485 N | 122.33793 W | Green Lake | Densmore | Grated-top concrete outfall vault structure with 48-inch outfall pipe. | Sediment and Debris Removal. Control Vegetation. Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. Isolate in pond work area with silt fence or equivalent. Dewater structure with pumps. Fish protection measures as needed may include fish screens, catch and release. | Remove accumulated sediment and debris from and around outfall structure. | Sediment – 2 Weeks 10 CY.; Debris - 1 Day | Sediment - As frequently as bi-annually; Debris – As needed; Demand work – As needed | Wildlife, wetlands, riparian corridor |

| | | | | | | | | | | | | |
|-------------------------------|---------------|---------------|----------------|------------|----------|---|--|---|---|---|--|----------------------|
| Outfall to Haller Lake | Single Family | 47.72080 N | 122.33423 W | | Densmore | 18-inch outfall pipe | Sediment and Debris Removal, Control Vegetation, Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. Isolate in pond work area with silt fence or equivalent. Fish protection measures as needed may include fish screens, catch and release. | Remove accumulated sediment and debris around outfall. Thin obstructing and noxious vegetation as needed. Construct temporary access road and temporary removal of guard rail. | Sediment - 2 Weeks, 50 CY.; Vegetation - 3 Days; Debris - 1 Day | Sediment - As frequently as annually; Vegetation – As frequently as monthly; Debris – As needed | Riparian corridor |
| Ashworth Pond | Single Family | 47.72083 N | 122.33931 W | Green Lake | Densmore | Stormwater detention: Pond – Flow control structure with two weir walls, 48-inch flap gate, 19.5-inch orifice plate, 12-inch shear gate, 36-inch inlet pipe, 48-inch outfall pipe and 36-inch outlet pipe; pond outfall with trash rack; and overflow maintenance hole with birdcage debris rack and 24-inch outlet pipe. | Sediment and Debris Removal, Control Vegetation, Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. | Remove accumulated sediment and debris around outfall and within structures. Berm erosion repairs at flow control structure. Thin obstructing and noxious vegetation as needed. Construct fence around pond and/or structures for public and crew safety, if needed. Hatch improvements/ replacement for public safety. | Sediment - 1 Week 25CY.; Vegetation - 3 Days; Debris - 1 Day | Sediment - As frequently as annually; Vegetation – As frequently as monthly; Debris – As needed; Demand work – As needed | Steep slope, wetland |
| Midvale Pond | Mixed Use | 47.70788 N | 122.34271 W | Green lake | Densmore | Stormwater detention and treatment: Pond – flow splitter maintenance hole with 10-inch outlet and 48-inch inlet/outlet pipes; water quality treatment vault with swirl chamber, weir wall, orifice plate, and 10-inch outlet pipe; flow control maintenance hole with weir wall, 24-inch flap gate, 36-inch inlet/outlet pipe with trash rack, 12-inch inlet/outlet pipe, and 48-inch inlet/outlet pipes; access road; and berm | Sediment and Debris Removal, Control Vegetation, Safety improvements as needed for accessibility and public safety. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. Dewater pond using pumps. Fish protection measures as needed may include fish screens, catch and release. | Remove accumulated sediment and debris in pond and within structures. Thin obstructing and noxious vegetation as needed. Reestablish paths. Maintain monitoring equipment. | Sediment – 1 Month Weeks 1000 CY.; Vegetation - 1 Day; Debris - 1 Day | Sediment - As frequently as annually; Vegetation – As frequently as monthly; Debris – As needed; Demand work – As needed | Flood prone |
| Stone Pond | Manufacturing | 47.71664 N | 122.34191 W | Green lake | Densmore | Stormwater detention: Pond – two 12-inch culverts; 24-inch culvert; low flow ditch; flow control structure with 24-inch valve, weir wall, orifice plate, grated inlet with 24-inch pipe, 36-inch inlet pipe and 24-inch outlet pipe; emergency drain with shear gate, grated inlet with 8-inch pipe, and 8-inch outlet pipe; and emergency overflow ditch with grated drop inlet, and 18-inch outlet pipe. | Sediment and Debris Removal, Control Vegetation, Safety improvements as needed for accessibility and public safety. Ditch reshaping. Mechanical repairs/replacements as needed for appurtenant piping, gates, debris racks, weirs, etc. Monitoring equipment installation and repairs/replacement. | Heavy equipment, vector, jetting, and hand work. | Remove accumulated sediment and debris in pond and within structures. Thin obstructing and noxious vegetation as needed. Maintain paths. Reshape ditches. Install and maintain monitoring equipment. | Sediment - 1 Week 50 CY.; Vegetation - 1 Day; Debris - 1 Day | Sediment - As frequently as annually; Vegetation – As frequently as monthly; Debris – As needed; Demand work – As needed | Steep slope |