



City of Seattle
Seattle Public Utilities

February 4, 2016

TO: Recipients of the Project SEPA DNS/Checklist

FROM: Betty Meyer, SEPA Responsible Official

SUBJECT: Addendum to the 14th Avenue South and South Concord Street Combined Sewer System Improvement Project SEPA Environmental Checklist and DNS

PURPOSE OF THIS ADDENDUM

In May of 2015, Seattle Public Utilities (SPU) prepared a State Environmental Policy Act (SEPA) Environmental Checklist that analyzed environmental impacts of the proposed 14th Avenue South and South Concord Street Combined Sewer System Improvement Project. As lead agency for SEPA, SPU issued a Determination of Non-Significance (DNS) for the project on June 11, 2015.

As described in the May 2015 Environmental Checklist, the proposed project would increase the capacity of the combined sewer system in this area and reduce the frequency of street flooding. To provide this additional capacity, the proposed project includes installation of approximately 1,300 feet of 24 inch and 30 inch diameter parallel (bypass) pipe in 14th Avenue South between South Concord Street and South Donovan Street (approximately 625 feet of pipe) and in South Donovan Street between 14th Avenue South and 12th Avenue South (approximately 675 feet of pipe). The bypass pipes would be installed approximately 10 feet below the ground surface (bgs) and parallel to the existing 12 inch diameter combined sewer under 14th Avenue South and South Donovan Street.

SPU is now proposing to add street improvements along South Concord Street, west of 14th Avenue South. The proposed improvements include the following:

1. Remove existing gravel surfacing and then resurface the south side of the existing street with asphalt, construct a planting strip totaling 825 square feet, and install a sidewalk;
2. Create eight (8) parallel parking spaces;
3. Eliminate seventeen (17) head-in parking spaces; and
4. Plant seven (7) new street trees.

SPU has prepared this SEPA Addendum to document these changes in the project and to assess how these changes affect analyses in the May 2015 Environmental Checklist.

As lead agency, SPU has reviewed the findings and concluded the project changes do not substantially alter the analyses of impacts contained in the May 2015 Environmental Checklist and will not result in any significant environmental impacts. This Addendum has been prepared in accordance with the authority provided in Seattle Municipal Code (SMC) 25.05.600 and in accordance with the procedures described in SMC 25.05.625.

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CHANGES TO ENVIRONMENTAL ELEMENTS

Environmental Checklist Section B2: Air

The May 2015 Environmental Checklist estimated the project's total greenhouse gas (GHG) emissions to be 1,650.9 metric tons of carbon dioxide emission (MTCO₂e). The GHG emissions calculations were included in the Checklist's Attachment D and are summarized here in Table 1.

Table 1. 2015 Environmental Checklist Summary of Greenhouse Gas (GHG) Emissions.

Activity/Emission Type	GHG Emissions (pounds of CO₂e)¹	GHG Emissions (metric tons of CO₂e)¹
Buildings	not applicable	not applicable
Paving	3,087,000	1,400
Construction Activities (Diesel)	447,155	202.8
Construction Activities (Gasoline)	63,180	28.7
Long-term Maintenance (Diesel)	23,364	10.6
Long-term Maintenance (Gasoline)	19,440	8.8
Total GHG Emissions	3,640,139	1,650.9

¹Note: 1 metric ton = 2,204.6 pounds of CO₂e. 1,000 pounds = 0.45 metric tons of CO₂e

SPU estimates the street improvements along South Concord Street, west of 14th Avenue South, would add an additional 660 cubic feet of new asphalt and 360 cubic feet of new concrete. This material is estimated to generate an additional 102 MTCO₂e of GHG emissions (assuming 50 MTCO₂e per 1,000 square feet of pavement at a depth of 6 inches). Hauling that material to the project site and constructing these improvements is estimated to require 100 gallons of diesel fuel, resulting in generation of an additional 1.2 MTCO₂e of GHG emissions. As a result, the project's revised total GHG emissions are estimated to be 1,754.1 MTCO₂e, as summarized in Table 2. For purposes of this analysis, SPU presumes these street improvements will not require long-term maintenance and has not accounted for carbon sequestration provided over time by the additional street trees.

Table 2. Revised Summary of Greenhouse Gas (GHG) Emissions.

Activity/Emission Type	GHG Emissions (pounds of CO₂e)	GHS Emissions (metric tons of CO₂e)
Buildings	not applicable	not applicable
Paving	3,311,309	1,502
Construction Activities (Diesel)	449,810	204
Construction Activities (Gasoline)	63,180	28.7
Long-term Maintenance (Diesel)	23,364	10.6
Long-term Maintenance (Gasoline)	19,440	8.8
Total GHG Emissions	3,867,103	1,754.1

Environmental Checklist Section B3: Water

The proposed additional street improvements along South Concord Street, west of 14th Avenue South, would replace existing gravel surfacing with 3,960 square feet of new asphalt, 1,080 square feet of new concrete, and 825 square feet of new planting strip. Gravel, asphalt, and concrete are all considered to be impervious surface and the planting strip is considered to be pervious surface. Thus, there would be a net decrease of 825 square feet of impervious surface.

Environmental Checklist Section B4: Plants

The May 2015 Environmental Checklist disclosed that one existing street tree would be removed at the intersection of 12th Avenue South and South Donovan Street and replaced with two additional street trees, in consultation with the Seattle Department of Transportation. The project is now proposing to plant seven additional street trees along South Concord Street, west of 14th Avenue South. Overall, the project will remove one existing tree (at the intersection of 12th Avenue South and South Donovan Street) and plant a total of nine new street trees.

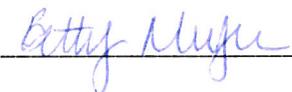
Environmental Checklist Section B14: Transportation

The May 2015 Environmental Checklist estimated that project construction would generate approximately 1,300 vehicle round-trips due to workers and materials being transported to and from the site during the estimated 120 workday construction period for the public sewer system improvements and the estimated 100 workday period for installation of the sewer backup prevention devices. SPU estimates construction of the additional street improvements along South Concord Street, west of 14th Avenue South, would result in approximately 10 additional round trips for purposes of hauling concrete, asphalt, nursery stock, and related materials to the construction site. For purposes of this analysis, SPU assumes the proposed street improvements on South Concord Street would not increase the number of anticipated working days (120).

The May 2015 Environmental Checklist disclosed the temporary elimination of parking spaces related to construction on both 14th Avenue South and South Donovan Street. However, the proposed street improvements along South Concord Street, west of 14th Avenue South, would reconfigure existing parking—from head-in angle parking to parallel parking. This change would result in the loss of 17 head-in spaces and the creation of eight parallel parking spaces—resulting in a net loss of 9 parking spaces. Generally, there are ample on-street parking spots available elsewhere in the project vicinity along 14th Avenue South and many of the adjacent businesses have their own off-street parking lots.

Please submit any comments no later than close of business February 19, 2016, to:

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betty.meyer@seattle.gov

Signature:  _____

Issue Date: February 4, 2016

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