



King County

Wastewater Treatment Division

Department of Natural Resources and Parks

King Street Center
201 South Jackson Street
Seattle, WA 98104-3855

January 25, 2005

TO: Recipients of the Hidden Lake Pump Station Replacement and Sewer Improvement Project SEPA Determination of Nonsignificance and Environmental Checklist

FROM: Shirley Marroquin, Environmental Planning Supervisor

SUBJECT: **Addendum to the Hidden Lake Pump Station Replacement and Sewer Improvement Project SEPA DNS/checklist**

The King County Department of Natural Resources and Parks, Wastewater Treatment Division (WTD) has prepared this document to addend the SEPA Determination of Nonsignificance (DNS) and environmental checklist for the Hidden Lake Pump Station Replacement and Sewer Improvement Project. The DNS for the project, which was issued by the King County WTD on March 24, 2004, is addended by the authority provided in WAC 197-11-600(4)(c) and conforms to the procedures for preparing an addendum in WAC 197-11-625.

This addendum provides additional information regarding improvements proposed as part of the project that does not substantially change the analysis of impacts in the existing environmental checklist for this project (WAC 197-11-706). King County WTD as lead agency has reviewed the changes and finds that they are within the scope and magnitude of impacts detailed in the SEPA DNS and checklist that was issued in March 2004. Attached is the addendum to the Hidden Lake Pump Station Replacement and Sewer Improvement Project DNS and environmental checklist.

cc: project file

**Hidden Lake Pump Station Replacement
and Sewer Improvement Project
SEPA Addendum**

The environmental checklist for the Hidden Lake Pump Station Replacement and Sewer Improvement Project is addended as follows (revised text indicated by italics).

A. BACKGROUND

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

Construction of the project is anticipated to begin in the 3rd quarter of 2005 and be completed by the 3rd quarter of 2007. Construction of the new pump station is anticipated to last approximately 25 months, the BCT pipeline 24 months, and the storage facility 24 months. All three elements of the project could be under construction simultaneously.

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

Hidden Lake Pump Station Boeing Creek Trunk Project/Boeing Creek Storage Facility – Dewatering Estimate, CH2M Hill, June 10, 2004.

Traffic Impact Assessment for Hidden Lake Pump Station Replacement and Sewer Improvement Project, CH2M Hill, November 3, 2004.

Cultural Resource Assessment Hidden Lake Pump Station Replacement and Sewer Improvement Project, CH2M Hill, December 23, 2004.

Hidden Lake Pump Station/Boeing Creek Trunk Project Geotechnical Engineering Design, CH2M Hill, December 2004.

11. Give 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.

During construction of portions of the Boeing Creek Trunk (BCT) pipeline, King County will be replacing portions of a water main for the Seattle Water Department. Other utilities were notified of King County's proposed project and provided the opportunity to coordinate with the County regarding future projects of their own in order to minimize disruption to the community. Approximately 4,900 to 6,400 linear feet of 8-inch water main would be installed in a separate trench within the

roadway. This would increase the previous excavation quantity estimates for the BCT pipeline portion of the Hidden Lake project. These new estimates are discussed in section B.1.e. of this document.

Thirty nine connections of new facilities to the existing sewer system will be required to complete the project, 32 for the BCT pipeline, 3 for the new Hidden Lake Pump Station, and 4 for the Boeing Creek Storage Facility. Each of these connections will require temporary accommodation of wastewater flows. The majority of these connections involve local tributary sewers and can be made during the daytime due to the relatively low flow volumes. Temporary pumps and pipes installed on the ground surface would convey wastewater flows around the connection points. The pumping and discharge points would be located as close to the connection points as possible to minimize disruption of traffic. Access to adjacent properties would be maintained at all times.

Several of the connections in the vicinity of the new pump station will involve the full flow of the Boeing Creek Trunk. This work would need to be completed during the late night and early morning hours when wastewater flows are approximately one third of the daytime flows and may last several consecutive nights. Due to the higher flow volumes, wastewater may need to be pumped from the sewer upstream of the connections, discharged to a fleet of tanker trucks, and transported to discharge locations in the wastewater system downstream of the connections. Temporary facilities necessary to facilitate this type of operation would include pumps, either engine driven or electric powered by engine generators, and piping to load the wastewater into the trucks. Several loading sites may be required.

- 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 proposed water main replacement would occur in portions of the following streets: NW 196th Street, Richmond Beach Drive NW, 23rd Avenue NW, NW 193rd street, 22nd Avenue NW, NW 190th Street, 20th Avenue NW, 15th Avenue NW, NW Springdale Court, and 14th Avenue NW.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- e. **Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.**

Construction of the approximately 4,900 to 6,400 linear feet of water main for the Seattle Water Department would increase total excavation quantity estimates from 45,000 cubic yards to approximately 51,000 cubic yards for the BCT pipeline portion of the Hidden Lake Project. Backfill estimates would increase from 38,500 cubic yards to approximately 44,000 cubic yards.

3. Water

b. Ground:

- 1) **Will ground water be withdrawn, or will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.**

Following issuance of the SEPA DNS, additional analysis was performed using soil samples from borings taken in the vicinity of the proposed storage facility in Boeing Creek Park to obtain more accurate estimates of soil permeability and of the quantity of groundwater that will be pumped from excavations during construction dewatering. A total of approximately 5.7 million gallons (MG) of groundwater would be pumped during construction of the storage facility and outlet sewer in 10th Avenue NW compared to the previous estimate of approximately 30 MG.

For the storage facility and influent and flow control structures, a total of approximately 1.2 MG of groundwater would be pumped over 40 days compared to the previous estimate of approximately 10 MG. For the outlet sewer in 10th Avenue NW a revision in the proposed construction method from bore and jack to microtunneling, which requires less dewatering, in addition to the additional laboratory analysis has reduced the total estimated groundwater volume from 20 MG to 4.5 MG over three months for this portion of the project.

7. Environmental Health

b. Noise

- 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.**

In order to complete the project as expeditiously as possible, King County is pursuing a variance from the City of Shoreline for extended work hours for portions of the project located in the public right-of-way. Currently in the majority of the public right-of-way, City regulations would only permit construction activity between the hours of 9 a.m. and 3 p.m. If approved by the City, the variance would permit the construction contractor to work between the hours of 7 a.m. and 10 p.m. on weekdays in the public right-of-way. Extended work hours would help shorten the overall duration of the project and reduce construction costs. If the extended work hours are approved, construction related noise could occur for a longer period each day than previously described.

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

If nighttime bypass pumping is required during construction of the BCT pipeline, and approved by the City of Shoreline, procedures and equipment that minimize noise would be incorporated into the design of the bypass pumping operation. During construction the contractor would be required to comply with applicable noise regulations. In addition a 24-hour construction hotline would be established, so that issues and concerns from the public can be promptly addressed. The County will address and mitigate noise impacts to nearby residents on a case-by-case basis.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Construction of the outlet sewer along 10th Avenue NW will require the 24-hour closure of portions of 10th Avenue NW for up to three months due to the limited space to accommodate the construction operation. Limited access for local traffic and emergency vehicles would be maintained at all times. Detours would be provided to direct general traffic around the street closure.

During construction of the BCT pipeline, full or partial closure of streets at active work zones may be necessary during the daytime hours. Limited access for local traffic and emergency vehicles would be maintained at all times. Full or partial access would be restored during non-working areas if feasible. Detours would be provided to direct general traffic around street closures.

- f. **How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.**

The addition of the water main replacement to the BCT pipeline construction project would increase the estimated total number of truck trips during construction from 5,700 to 6,500 and the number of worker trips from 3,500 to 4,000.