STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
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ENVIRONMENTAL (SEPA) CHECKLIST

Purpose of Checklist

The State Environmental Policy Act (SEPA), Chapter 43.21 RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from your proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply". Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of Checklist for Nonproject Proposals

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply". IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (Part D). For nonproject actions, the references in the checklist to the words "project", "applicant", and "property or site" should be read as "proposal", "proposer", and "affected geographic area", respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:
   Northlake Shipyard – Sediment Dredging

2. Name of applicant:
   Washington State Department of Ecology, Toxics Control Program

3. Address and phone number of applicant and contact person:
   3190 - 160th Ave. SE, Bellevue, WA 98008
   (425) 649-7052
   John Keeling

4. Date checklist prepared:
   March 26, 2012

5. Agency requesting checklist:
   Department of Ecology

6. Proposed timing or schedule (including phasing, if applicable):
   September 2012 – February 2013. The project is anticipated to last approximately 4-6 weeks.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
   - **Prospective Purchaser Consent Decree, Superior Court of Washington in and for King County, August 1994.**
   - **NPDES Permit WA-003086-4, Northlake Shipyard, Inc. Issued June 28, 2007.**
   - **Survey Report, Hydrographic and Geophysical Surveys at Northlake Shipyard prepared by Tetra Tech, December 2008.**

- **Northlake Shipyard, Sandblast Grit Study prepared by Ecology & Environment Inc., June 2009.**

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.

   None

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

    - **Washington Department of Fish & Wildlife, Hydraulic Project Approval (HPA).**
    - **Washington Department of Ecology Section 401 Water Quality Certification.**
    - **US Army Corps of Engineers Section 10 and Section 404.**

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project. 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. (Lead agencies may modify this form to include additional specific information on project description.)

    The project is an interim remedial action designed to remove sediment in Lake Union which has been impacted with sand blast grit. There will be no upland work as part of this project. Sand blast grit has been associated with elevated concentrations of metals. Specifically, the project involves the dredging approximately two feet of sediment from the Northlake Shipyard property immediately beneath and adjacent to the two existing dry docks. Total dredge prism volume is approximately 10,000 cubic yards. The dredged sediment will be dewatered and transported to an off-site, upland disposal facility. Following dredging, a sand cap will be placed over the dredged area.

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.

    Northlake Shipyard is located at 1441 North Northlake Way, Seattle, WA 98103 (on Lake Union west of Gas Works Park) in a portion of Section 19, Township 25N, Range 04E. The property includes parcel numbers 408880-4620, 408880-4645, 408880-4622, and 408880-4643 (parcel owned by DNR).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (**bold**):
Flat, rolling, hilly, steep slopes, mountainous,
other:_____

b. What is the steepest slope on the site (approximate percent slope)?

The project area is generally characterized by a steep lake bottom near the bank gradually flattens to an elevation of approximately -20 feet mean lower low water (MLLW) - U.S. Army Corps of Engineers (USACE) - Locks datum.

The small upland portion of the site is flat, sloping towards the water where a vertical bulkhead is in place.

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 prime farmland.

Silt/clay locally overlain by fines with some sand.

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

No.

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

An estimated 10,000 cubic yards of material will be dredged. The dredged sediment will be dewatered and transported to an off-site, upland disposal facility. Following dredging, a 6-inch thick sand cap will be placed over the dredged area. The cap material will be clean sand from a local source.

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

N/A

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

N/A

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

N/A

2. Air

a. What type of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke, greenhouse gases) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Short-term air emissions are expected to be limited to diesel and gasoline engine emissions from boats and other heavy equipment being used for dredging and cap placement activities. Following cleanup, air emissions are anticipated to return to ambient levels.

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

Not to our knowledge.

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

Construction equipment will be properly maintained and operated in order to minimize air emissions.

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 yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Yes, Northlake Shipyard is located on Lake Union, which connects to the Puget Sound through the ship canal.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes, the project involves in-water dredging/excavation and cap placement within Lake Union.

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.

The project involves dredging of approximately two feet of sediment from the Northlake Shipyard property immediately beneath and adjacent to the two existing dry docks. Total dredge prism volume is estimated at 10,000 cubic yards. Following dredging, a 6-inch thick sand cap will be placed over the dredged area.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

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

No.

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.

Potential discharges to surface water during the dredging or cap placement include leakage of petroleum products (fuels, oil, grease, hydraulic fluids, lubricants) from equipment. The contractor will implement BMPs to reduce and control potential surface water discharges during construction.

b. Ground:

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

No.

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.

N/A

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 barge or working platform may contribute as source for runoff. Dewatering on the construction barge or at a temporary upland location and stormwater will be managed using BMPs including, but not limited to the following:

Dewatering of dredge spoils on the construction barge:

- **The bucket will be paused for several seconds at the water surface during retrieval to release excess water from within the bucket.**
- **Construction barge shall be equipped with scuppers and sideboards to prevent bypass of return water or dredge material into the water. Scuppers shall be covered with filter fabric or similar material to filter and retain sediment while allowing water to drain.**
- **Overtopping of sideboards is not allowable.**

Dewatering of dredge spoils at a temporary upland stockpile location:

- **Upland stockpiles shall be located on pavement or an underliner surface.**
- **Upland stockpiles shall be bermed to contain drainage areas and potential precipitation.**
- **All water from the contained stockpile areas shall be collected and temporarily stored for chemical characterization to confirm disposal designation.**

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

It is not anticipated that waste materials will enter ground waters. There is the potential for small amounts of dredge material to enter the surface waters during construction. The contractor will maintain appropriate BMPs during construction to minimize surface water impacts from construction equipment and activities.

BMPs include: dredging by cable arm environmental bucket or approved equivalent, production will be controlled, in water silt curtains will prevent silt migration, turbidity will be monitored and controlled.

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

Care will be taken to prevent petroleum products, chemicals, or other toxic materials from entering the water. Contractors will be required to have spill response plans and appropriate materials necessary to contain and clean up an accidental spill at the site. BMPs measures will include, but not be limited to the following:

Minimize the dispersion of resuspended sediments during dredging including:

- **No multiple bites to achieve a full bucket. Bucket descent will be limited to the designated depth of digging penetration.**
- **"Sweeping" the bottom to smooth contours will not be allowed.**
- **Limit sloughing of material from adjacent undredged areas into the active dredging area by limiting the depth of each pass.**

- **No temporary stockpiling of material in the water. Stockpiling of material on the bottom will not be allowed (each time the bucket is closed it will be brought to the surface).**

Dewatering of dredge spoils on the construction barge:

- **The bucket will be paused for several seconds at the water surface during retrieval to release excess water from within the bucket.**
- **Construction barge shall be equipped with scuppers and sideboards to prevent bypass of return water or dredge material into the water. Scuppers shall be covered with filter fabric or similar material to filter and retain sediment while allowing water to drain. Overtopping of sideboards is not allowable.**

4. Plants

a. Check or circle types of vegetation found on the site:
__ deciduous tree: alder, maple, aspen, other
__ evergreen tree: fir, cedar, pine, other
__ shrubs
__ grass
__ pasture
__ crop or grain
__ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
__ water plants: water lily, eelgrass, milfoil, other
__ other types of vegetation

The project occurs in Lake Union where no vegetation is present.

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

N/A

c. List threatened or endangered species known to be on or near the site.

No threatened or endangered plant species are known to be on or near the site.

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

N/A

5. Animals

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

birds: hawk, heron, eagle, **songbirds**, other: **ducks, gulls, and other shorebirds and waterfowl.**

mammals: deer, bear, elk, beaver, other:_____

fish: bass, **salmon**, **trout**, herring, shellfish, other:_____

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

Federally listed or threatened species that could occur in the vicinity of the site include Puget Sound Chinook salmon and steelhead.

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

Salmonids use Lake Union as an anadromous fish migratory route for the Sammamish River and other waterways. The Puget Sound area is part of the Pacific flyway. Birds that inhabit the area vary seasonally due to migration patterns.

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

All work will occur during the approved in-water work window (July 15, 2012 – February 15, 2013).

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.

N/A

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

No.

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:

None are proposed.

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.

Potential discharges to surface waters during cleanup include accidental spills or leakage of petroleum products from construction equipment or discharges from barge dewatering activities. The Contractor will be required to prepare a Health and Safety Plan and Spill

Control Plan. The Contractor will also be familiar with necessary BMPs and hazardous material handling.

1) Describe special emergency services that might be required.
None are anticipated.

2) Proposed measures to reduce or control environmental health hazards, if any:
   - **Health and Safety Plans (HASPs);**
   - **Spill Control Plan;**
   - **BMPs; and**
   - **HAZMAT handling training and equipment.**

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment operation, other)?
Existing noise will 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 site.
The project is located in an urbanized environment on a busy waterway. Short-term construction noise associated with construction equipment and activities including barge, excavators, and other heavy equipment. Construction will be limited to daytime hours (Monday through Friday, 7 a.m. to 5 p.m.).

3) Proposed measures to reduce or control noise impacts, if any:
None

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?
The property has been utilized as a ship repair and building facility since 1956. Adjacent properties include commercial and industrial uses and recreation in Gas Works Park.

b. Has the site been used for agriculture? If so, describe.
No.

c. Describe any structures on the site.

There are two existing dry docks. The dry docks will be temporarily moved to accommodate dredging activities. Following dredging and the temporary cap placement, the dry docks will be relocated to their original location.

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

No.

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

Industrial Commercial – 45 (IC-45).

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

Industrial.

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

Urban Maritime (UM).

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

Yes. The project is located on Lake Union, which is classified as a waterbody of state significance.

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

Current use of the site is expected to remain unchanged following project completion.

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

N/A

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

N/A

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

None. The proposal does not change the current land use.

9. Housing

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

N/A

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

N/A

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

N/A

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?

N/A

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

N/A

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

N/A

11. Light and Glare

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

None. All work will occur during daylight hours.

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

N/A

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

None.

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

N/A

12. Recreation

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

Boating, fishing, Gas Works Park, and active and passive recreation.

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

No.

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

None. The project will occur outside of the summer boating season on Lake Union.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

Not to our knowledge.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

Not to our knowledge.

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

None.

14. Transportation

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

All work will occur over the water and be completed by barge.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

N/A

c. How many parking spaces would the completed project have? How many would the project eliminate?

N/A

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

N/A

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

Yes, the project is located within Lake Union. Project work will be completed by barge.

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

None are anticipated.

g. Proposed measures to reduce or control transportation impacts, if any.

Work will after Labor Day of 2012 following the summer boating season on Lake Union.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

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

N/A

16. Utilities

a. **Bold** utilities currently available at the site: **electricity, natural gas, water, refuse service, telephone, sanitary sewer**, septic system, other.

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 immediate vicinity which might be needed.

None.

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: Jim Keely

Date submitted: July 17, 2012