SHOR20-0002

SEPA ENVIRONMENTAL CHECKLIST

A. Background

1. Name of proposed project, if applicable:
   Bulkhead Replacement
2. Name of applicant:
   Sheila Doane
3. Address and phone number of applicant and contact person:
   2503 SW 169th Place, Burien, WA 98166
   206-242-6611
   Sheila Doane
4. Date checklist prepared:
   January 22, 2020
5. Agency requesting checklist:
   King County
6. Proposed timing or schedule (including phasing, if applicable):
   Construction to start within approved work windows for habitate
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.
   King County CADS18-0426, CADS18-0427, SEPA Environmental Checklist & Greenhouse Emissions Worksheet, Flood Hazard Certificate, Shoreline Exemption Application, Grading and Clearing Application. Envirotech Geotechnical Report. Grette Assocaites Biological Report. Ellisport Engineering Site Plan. JARPA.
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.
   ROWP19-0001 and GRDE19-0054
10. List any government approvals or permits that will be needed for your proposal, if known.
    King County Shoreline Exemption Permit, King County Grading and Clearing Permit, DF&W HPA Permit, DOE Section 401 Water Quality Certification, USACE Section 10 and 404 Permit.
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. (Lead agencies may modify this form to include additional specific information on project description.)
    The purpose of the project is to replace the existing creosote-treated timber pile and pressure-treated lagging bulkhead with an angular rock bulkhead. The existing bulkhead is failing, which as caused backfill erosion and bulkhead displacement. To eliminate risk of damage to landward structures and infrastructures in the least impactful way to the surrounding shoreline ecosystem, a replacement rock bulkhead will be built landward of the the existing bulkhead.
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.

9007 & 9015 SW SUMMERHURST ROAD, VASHON WA 98070

NW-32-22-3

AVILION TRS & 2ND CLASS TD LDS TO EXTREME LOW TD LESS C & M RTS IN SD TD LDS TGW UND INT IN PARKING AREA REC AF # 6431672
PLAT BLOCK: 2
PLAT LOT: 7-8

AVILION TRS & TD LDS ADJ LESS POR OF 10 N OF A LN 50 FT N OF S LN & PLL THTO TGW UND INT IN PARKING AREA REC AF # 6431672
PLAT BLOCK: 2
PLAT LOT: 9-10

B. Environmental Elements

1. *Earth*

a. General description of the site:
Steep

b. What is the steepest slope on the site (approximate percent slope)?
50%

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 general type of soil is Qva, sand and gravel.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.
There are no current surface indicators of unstable soils. Sediment is eroding from underneath the existing, failing builkhead because of wave-driven erosion. The project site is downhill of a steep slope.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.
The purpose of the excavation is to remove 200 linear feet of a failing creosote-treated bulkhead with an angular rock bulkhead. The replacement bulkhead will be placed landward of the previous bulhead. The amounts of imported/exported marterials are as follows:

Exported
- **72 CY (creosote timber pilings)**
- **240 CY (soil/crushed gravel)**

Imported
- **160 CY (granite)**
- **140 CY (quarry spalls)**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
No

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?
Approximately 5%; the project will have no impact on impervious surface.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
Erosion control BMPs, such as straw wattles, silt curtains and straw bales, will be used as necessary or required.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.
Short term air emissions from a tug, excavator, and front loader will occur during construction.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:
Low sufler fuel will be used and no idling of equipment will be allowed.

3. Water

a. Surface Water:

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, the property is adjacent to East Passage in Puget Sound.
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. All demolition and new construction will occur above +10 ft MLLW, with the exception of embedment, which will occur 24 inches below the existing beach elevation. All project activities will be conducted during tidal stages that will allow for removal and other work to be done in the dry when possible to minimize impacts on water quality.
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.
None
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.
Yes
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.
No

b. Ground Water:
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.

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.
No

c. Water runoff (including stormwater):
   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.
   Storm water will be infiltrated on site
   2) Could waste materials enter ground or surface waters? If so, generally describe.
   No
   3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.
   No

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:
   Project will use geotechnical fabric, mulch, straw or grass seed, as needed, post construction.

4. Plants

a. Types of vegetation found on the site:
   Upland vegetation consists predominately of lawn, ornamental plant species, salal, sword fern, English ivy, Himalyayan blackberry and big leaf maple.

b. What kind and amount of vegetation will be removed or altered?
   Himalyayan blackberry and English ivy

c. List threatened and endangered species known to be on or near the site.
   None

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

e. List all noxious weeds and invasive species known to be on or near the site.
   Himalyayan blackberry and English ivy

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.
   There have been heron, eagle, deer, river otter and raccoon observed on or near the site.

b. List any threatened and endangered species known to be on or near the site.
   The following species can be found in Puget Sound. No effect on these species by the proposed work is expected.

   Puget Sound Chinook Salmon (Oncorhynchus tshawytscha) – Threatened
   Puget Sound Steelhead Trout (Oncorhynchus mykiss) – Threatened
   Bull Trout (Salvelinus confluentus) – Threatened
   Bocaccio (Sebastes paucispinis) – Endangered
   Yelloweye Rockfish (Sebastes ruberrimus) – Threatened

Southern Resident Killer Whale (Orcinus orca) – Endangered
Humpback Whale (Megaptera novaeangliae) – Endangered, Threatened
Marbled Murrelet (Brachyramphus marmoratus) – Threatened

c. Is the site part of a migration route? If so, explain.
No

d. Proposed measures to preserve or enhance wildlife, if any:
The project will replace an existing creosote-treated timber bulkhead with pressure-treated lagging with a rock bulkhead. This will remove a source of contaminants, provide an improved method of absorbing wave energy, and minimize future impacts associated with maintaining the failing wood structure. Additionally, timing of the project will coincide with designated USACE and WDFW in-water windows. These windows also coincide with low Action Area-use months for Southern Resident Killer Whales and humpback whales.

e. List any invasive animal species known to be on or near the site.
None known

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.
None

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

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:
No energy impacts identified

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.
No known environmental health hazards

1) Describe any known or possible contamination at the site from present or past uses.
No known contamination
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.
None
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.
None
4) Describe special emergency services that might be required.
None
5) Proposed measures to reduce or control environmental health hazards, if any:
Vehicles and machinery will be properly maintained.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?
Residential noise and boat traffic
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.
Short term: construction equipment noise
Long-term: none
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? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.
Residential. The proposal will have no affect on current land uses.
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?
No
1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:
No
c. Describe any structures on the site.
Upland structures include a single-family residence, a detached garage, a gravel driveway, septic system, well, pump house and bulkhead.
d. Will any structures be demolished? If so, what?
Yes, The existing creosote-treated timber pile and pressure-treated lagging bulkhead will be demolished.
e. What is the current zoning classification of the site?
Rural Area, one dwelling unit per 5 acres (RA2.5)
f. What is the current comprehensive plan designation of the site?
Rural Area
g. If applicable, what is the current shoreline master program designation of the site?
Rural Shoreline
h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
Critical Aquifer Recharge Area, steep slope
i. Approximately how many people would reside or work in the completed project?
No change
j. Approximately how many people would the completed project displace?
No change
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. Replacement project will not affect 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:
N/A

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
None
b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
None
c. Proposed measures to reduce or control housing impacts, if any:
None

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?
6.5 feet; granite
b. What views in the immediate vicinity would be altered or obstructed?
None
c. Proposed measures to reduce or control aesthetic impacts, if any:
None

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
None
b. Could light or glare from the finished project be a safety hazard or interfere with views?
No
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:
None

12. Recreation

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

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.
No

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.

No.

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 archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Vashon Heritage Museum, GIS data.

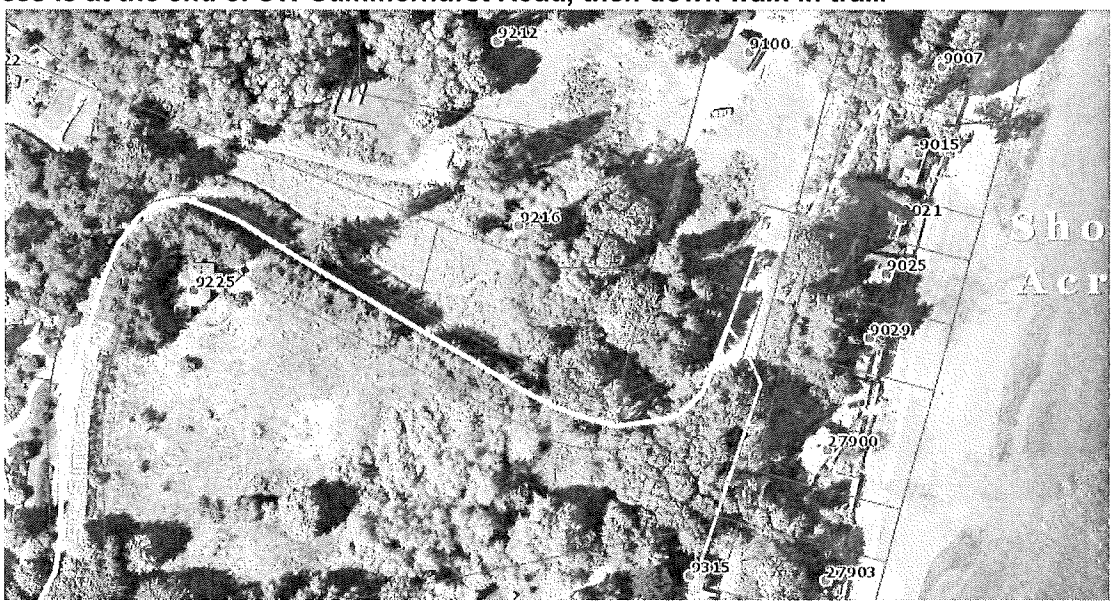
d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

Will follow state recommendations for Inadventent Discovery of Human Skeletal Remains on Non-Federal and Non-Tribal Land in the State of Washington (RCWs 68.50.645, 27.44.055, and 68.60.055)

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.

Access is at the end of SW Summerhurst Road, then down walk-in trail.



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?

No. The closest transit stop is 1.5 miles away on 264th Street & 99th Avenue.

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

None

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).

No

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

No

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 nonpassenger vehicles). What data or transportation models were used to make these estimates?
None

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.
No

h. Proposed measures to reduce or control transportation impacts, if any:
None

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.
No

b. Proposed measures to reduce or control direct impacts on public services, if any.
None

16. Utilities

a. Utilities currently available at the site:
Electricity, water, septic system, cable tv/internet, refuage service.

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.
None

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: Sheila Doane
Name of signee: **Sheila Doane**
Position and Agency/Organization: **Property Owner**
Date Submitted: **1/28/2020**

SHOR20-0002

Section I: Buildings

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO2e) Embodied	Energy	Transportation	Lifespan Emissions (MTCO2e)
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

Section II: Pavement

Pavement		0.00				0

Total Project Emissions: 0

Definition of Other: Buildings that are industrial or agricultural with some retail space; buildings having several different commercial activities that, together, comprise 50 percent or more of the floorspace, but whose largest single activity is agricultural, industrial/ manufacturing, or residential; and all other miscellaneous buildings that do not fit into any other category.