

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background

1. Name of proposed project, if applicable:

Plant triploid (sterile) grass carp to control aquatic vegetation

2. Name of applicant:

LOTT Clean Water Alliance

3 . Address and phone number of applicant and contact person:

Rob Sterling, Grounds Specialist
LOTT Clean Water Alliance
500 Adams Street NE
Olympia WA 98501

4. Date checklist prepared:

July 3, 2017

5. Agency requesting checklist:

Washington Department of Fish and Wildlife

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

Plant grass carp in Pond 2 at the Hawks Prairie Pond Site as soon as permitted, possibly by August 2017. May plant grass carp in adjacent ponds at the site (Ponds 1, 4, and 5) if use of grass carp in Pond 2 is successful in helping control aquatic vegetation.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

YES, may need to restock in five years or more due to predation or natural die off.
Yes, may stock adjacent ponds at the same site if initial use of grass carp is successful in helping control aquatic vegetation.

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

There is no additional environmental information directly related to this proposal.
Information indirectly related includes:

- Hawks Prairie Satellite Facility Cattail Management Final Plan, prepared by Sound Native Plants for LOTT, August 2016
- Final Supplemental Environmental Impact Statement, Hawks Prairie Reclaimed Water Project, prepared by Adolfson Associates, Inc. and Brown and Caldwell, June 2001

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.

There are no other applications currently pending governmental approvals at this site.

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

- a. Planting permit from Washington Department of Fish and Wildlife.
- b. Certificate from U.S. Fish and Wildlife Service that the fish shipped are triploids (sterile) and certification that the fish show no signs of disease.

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.)

- a. Plant triploid grass carp to control aquatic vegetation.

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 Hawks Prairie Pond Site is located at 3001 Hogum Bay Road NE in Lacey Washington. It is located in the SE ¼ of Section 2, Township 18 North, and Range 1 West.

Thurston County

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site:

(circle one) Flat, rolling, hilly, steep slopes, mountainous, other _____

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

Do not know, site is generally flat

- 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.

Everett very gravelly sandy loam

Spanaway gravelly sandy loam

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

No indications

- 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.

None, not applicable

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

None, not applicable

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

None, not applicable

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

None, not applicable

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.

None, not applicable

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

None, not applicable

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

None, not applicable

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.

The site contains 5 constructed wetland ponds built by LOTT in 2004 as part of the recharge site to provide some additional polishing treatment for reclaimed water before it is sent to adjacent recharge basins and infiltrated to replenish groundwater. These ponds meet the definition of "constructed water body five acres or less in surface area

with no discharge to other surface waters of the state". Four of the five ponds are lined with bentonite clay.

There is one additional wetland in the southwest corner of the site that was constructed by LOTT as wetland mitigation. It is not connected to the other 5 polishing ponds nor is it immediately adjacent. It is not included in nor would it be affected by this proposal.

- 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.

This proposal involves planting triploid grass carp in one of the five constructed wetland ponds (Pond 2) to control aquatic vegetation. If the use of grass carp is successful in helping to control the vegetation, additional triploid grass carp would be introduced into Ponds 1, 4, and 5 within five years.

- 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, not applicable

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

None, not applicable

- 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.

None, not applicable

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 water will be withdrawn from a well. Water that flows through the constructed wetland ponds is infiltrated to replenish groundwater, but this practice has been

permitted previously through the state Department of Ecology and is not new to or directly related to this proposal.

- 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.

Not applicable

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.

Not applicable

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

Not applicable

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

Not applicable

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

Not applicable

4. Plants

a. Check the 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
☐ Orchards, vineyards or other permanent crops.
☒ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
☒ water plants: water lily, eelgrass, milfoil, other
☒ other types of vegetation

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

The intent of the proposal is to use triploid grass carp to control aquatic vegetation, including duck weed, in the constructed wetland ponds.

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

None known

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

Use of triploid grass carp is intended to reduce the amount of matting aquatic vegetation such as duck weed, possibly improving conditions for other, more desirable aquatic vegetation. The constructed wetland ponds were originally vegetated with native terrestrial and emergent plant species when they were constructed in 2005. Emergent vegetation has spread since then, and unplanted native and non-native species have become established in the ponds, including cattails and duck weed.

- e. List all noxious weeds and invasive species known to be on or near the site.

Cattails, nightshade, Himalayan blackberry, purple loosestrife.

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.

Birds: hawk, heron, bald eagle, songbirds, duck, geese

Mammals: deer, otter, various rodents, coyote, raccoon

Reptiles/amphibians: snakes, frogs, roughskin newts

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

Bald eagles, little brown bats, big brown bats, Yuma myotis
(per WA Dept Fish & Wildlife website)

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

Not known

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

Control of duckweed on constructed wetland ponds would increase areas of open water which may benefit ducks, geese, and other birds that use the site.

- 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.

Not applicable

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

No, not applicable

- 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, not applicable

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.

- 1) Describe any known or possible contamination at the site from present or past uses.

Presence of grass carp in the constructed wetland ponds has the potential to change nutrient/nitrogen levels in the reclaimed water due to the addition of carp waste (excrement). Review of available research was inconclusive on this topic – some studies show an increase in nitrate and others show a reduction. The wetland ponds currently reduce nitrate levels in the incoming reclaimed water by nearly half prior to the water being infiltrated into groundwater, and levels are well below required permit levels, making it unlikely that addition of carp will effect water quality significantly.

- 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, not applicable

- 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, not applicable

- 4) Describe special emergency services that might be required.

None, not applicable

- 5) Proposed measures to reduce or control environmental health hazards, if any:

LOTT routinely monitors nitrogen levels in the reclaimed water leaving the constructed wetland ponds before it flows into infiltration basins. LOTT will continue to monitor water quality and track any differences that may result from use of grass carp.

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Noise in the area is not expected to affect this project. Area noise includes road noise from Hogum Bay and Marvin Roads and light industrial activities on surrounding parcels.

- 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.

Delivery of the grass carp to the ponds will require truck transport, but this is not unusual for the site since LOTT routinely conducts maintenance activities with trucks.

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

Delivery of grass carp would occur during routine working hours.

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.

The Hawks Prairie Pond Site was constructed in 2005 as a recharge site to return Class A Reclaimed Water to the environment. The site includes a series of five constructed wetland ponds intended to offer public use and water resources education, provide temporary storage for reclaimed water, and provide further polishing treatment for the water prior to infiltration in shallow gravel recharge basins also located at the site. Land uses adjacent to the site are light industrial and commercial in nature. The proposal will not affect current land uses or adjacent to the site.

- 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?

Not applicable. The site is not used as farmland or forest land and the proposal will not result in any conversion in land use.

- 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:

Not applicable. There is no active farm or forest land nearby.

- c. Describe any structures on the site.

There are five interpretive kiosks on the site, a series of walking trails, park benches, and several utility vaults and cabinets that house monitoring and flow control equipment.

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

No, not applicable

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

Light industrial

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

Not known

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

Not known

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Not known

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

None, not applicable

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

None, not applicable

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

None, not applicable

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

None, not applicable

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

None, not applicable

9. Housing

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

None, not applicable

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

None, not applicable

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

None, not applicable

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?

None, not applicable

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

None, not applicable

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

None, not applicable

11. Light and Glare

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

None, not applicable

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

No, not applicable

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

None, not applicable

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

None, not applicable

12. Recreation

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

The Hawks Prairie Pond Site provides passive recreation opportunities with walking trails that circle the constructed wetland ponds, informational kiosks, and park benches.

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

No, not applicable

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

None, not applicable

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.

None, not applicable

- 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.

None, not applicable

- 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.

None, not applicable

- 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.

None, not applicable

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.

Hogum Bay Road NE provides the main access to the site, though the site can also be reached from 29th Avenue NE. The proposal does not affect transportation site access.

- 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?

Not known

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

None, not applicable

- 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).

None, not applicable

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

Triploid grass carp will be shipped to LOTT possibly by rail, air, or road and transported to the site by road.

- 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, not applicable

- 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, not applicable

- h. Proposed measures to reduce or control transportation impacts, if any:

None, not applicable

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, not applicable

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

None, not applicable

16. Utilities

- a. Circle utilities currently available at the site:

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,

other: reclaimed water_

- 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, not applicable

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: Laurie Pierce

Name of signee Laurie Pierce

Position and Agency/Organization Operations & Facilities Dir.

Date Submitted: 7/7/17