SEPA
ENVIRONMENTAL CHECKLIST

A. Background [help]

1. Name of proposed project, if applicable: [help]

   Columbia Basin Wildlife Area (CBWA) - Frenchman Regulated Access Area (FRAA) Wetland Enhancements

2. Name of applicant: [help]

   Richard Finger – Lands Operation Manager, Washington Department of Fish and Wildlife (WDFW)

3. Address and phone number of applicant and contact person: [help]

   Washington Department of Fish and Wildlife
   c/o Richard Finger
   1550 Alder Street NW
   Ephrata, WA 98823

   509-754-4624 x229
   Richard.Finger@dfw.wa.gov

4. Date checklist prepared: [help]

   January 12, 2017

5. Agency requesting checklist: [help]

   Washington Department of Fish and Wildlife.

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

   February 2017 – June 2017

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

   None at this time.

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

   Engineering Design (done; Figure 1 attached)
   Wetland Delineations (done; Figure 2 attached)
   Cultural Resources Survey (done; Figure 3 attached)

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. [help]

None known

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

JARPA submitted, which covers:

Shoreline Permit

City/County critical ordinances review

WDFW HPA

Section 401 (ECY - water quality certification)

Section 404 (ACE – discharges into US water)

Section 10 (ACE – work in navigable waters)

SEPA - Environmental Checklist

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.) [help]

The 230 acre FRAA project area consists of a series of wetlands, and borders the Bureau of Reclamation Frenchman Reserve property. Both areas provide valuable wintering habitat and sanctuary for large numbers of waterfowl and other wildlife. The seed production, invertebrates, and shallow depth of wetlands attract waterfowl and other wildlife. In the spring, the receding waterline provides forage opportunity for migrating waterfowl and other waterbirds. The areas are valuable locations for hunters to harvest waterfowl and upland gamebirds, as well as offer accessibility to disabled hunters through on-site parking and established hunting blinds.

This enhancement project aims to improve wetland function and wildlife habitat that has degraded due to succession by increasing open water in two wetland cells, contouring 1 wetland cell, creating a 2 swales to help deliver water to wetlands, and installing 2 water control structures to improve water flow and retention. While the project area boundaries span across 130 acres, only 4.24 acres will actually be manipulated. Activities include: (1) earthwork to re-grade topography for improved vegetation management and increase wetland area, (2) improving islands for nesting and loafing for waterfowl, sandhill cranes, and other wildlife, (3) creating or improving waterways for better water delivery to wetland cells, which will improve wetland vegetation management and allow for flowing ice-free water in winter providing waterfowl areas to feed and rest, and (4) improving an access crossing at the north end of a wetland cell, which will improve the ability to manage the wetlands. See Figure 1 attached.

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. [help]

Site FRAA - The project area is ~ 9 miles southwest of Moses Lake in Grant County Washington and can be found on USGS Quad Royal Camp. It is located approximately 1mile northwest of the intersection of US Highway 262 and Road C SE. Project area center coordinates are approximately 46.974925, -119.460340. There is no address, but

Township/Range/Section numbers include T17 R27 S8 and T17 R27 S9; tax parcel numbers are 161217000 and 161218000. See Figure 1, page 2 for map.

B. ENVIRONMENTAL ELEMENTS [help]

1. Earth [help]

a. General description of the site: [help]
(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

The landscape is generally flat with a series of shallow depressions (i.e., basins) between low ridges less than 5m in height.

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

0-15% (sources: Soil Survey of Grant County, USDA 1984, Frenchman Hills Wetland Delineation Report 2016)

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. [help]

97- Quincy Fine Sand and 176-Wanser Quincy fine sands (~55% Wanser sands / 25% Quincy fine sands). Wanser is deep, poorly drained, sodium-salt affected, and prone to wind erosion; it is associated with salt grass, alkali bluegrass, rushed, and reeds. The soil belongs to subclass VIIe (severe limitations for agriculture due to wind erosion; sources: Soil Survey of Grant Co., USDA 1984, Frenchman Hills Wetland Delineation Report 2016).

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

The soils on this site are prone to wind erosion and there is evidence of past active dune movement; however, most sites within the project area are now sufficiently vegetated to control wind erosion.

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. [help]

This project will improve wetland function by enhancing already-existing wetland pools, which are valuable waterfowl habitat during all seasons. Wetland succession and incursion by invasive species has hampered wetland function and suitability for waterfowl, affecting 130 wetland acres.

All work will follow Ducks Unlimited's Engineer Design Plans (Figure 1), and work will be supervised by Ducks Unlimited and WDFW staff. A Lidar (Light Detection and Ranging) Survey was performed to provide accurate elevations, which assisted Ducks Unlimited with determining area best suited for work. Earthwork will be performed by licensed, bonded and insured contractors. Quantities of soil excavation and fill can be found in a table in Figure 1, on page 15.

Specific actions include:

Contouring - one wetland cell (Figure 1, pages 4 and 8) will be contoured (0.65 acres of contouring; 2904 cubic yards excavated and filled) up to 3 feet in depth in certain areas to improve water depth and increase total wetland area by 3.4 acres. Five islands within wetland cells will be enhanced (0.60 acres;

560 cubic yards excavated and relocated on-site). Wetland and island slopes are not anticipated to exceed a 3:1 (horizontal:vertical) incline; although, will be seeded with native stabilization vegetation upon project completion to reduce erosion potential if necessary. Topsoil removed will be returned to the wetland cells to restore the seedbank and improve wetland plant regeneration.

Ditch - one ditch (called swale #1) connecting 2 wetland cells will be deepend, and one new inlet ditch (swale #2) from the irrigation wasteway to a wetland cell will be created (Figure 1, pages 4, 8, 10-12). Quantities of soil to be moved are indicated in the engineer design, and are primarily moved to delineated upland sites which will be graded and reseeded (Figure 1, page 10; and Island #1 on page 4; 12924 cubic yards excavated and relocated on-site along swale #2). These swales will increase wetland area up to 21 acres.

Culvert - one culvert will be placed through a dike across one wetland (see Figure 1, page 9). The culvert will be at least 24" in diameter and will be installed to allow water flow between wetland areas on either side of the dike. The culvert will be approved by WDFW Habitat Program which issues hydrology permits for Washington.

Dike/Levee - one dike/access levee will be constructed across the center of one wetland (see Figure 1, pages 4 and 9). It will have slopes of 3:1 (horizontal:vertical) or less, a culvert contained within it as described above, and will be seeded with native vegetation to reduce erosion and allow for stabilization if necessary. The surface will be large sized gravel (~2" diameter rock). Two additional small dikes may be constructed along swale #2 to provide water management capability if needed (Figure 1, page 12). All soil necessary will come from the project's contouring work (500 cubic yards).

Water Control Structures - two optional pre-cast concrete water-control structures set with a culvert through a small cross-dike may be installed along the new flow-through ditch (swale #2) to provide better water management capabilities (Figure 1, pages 12-14). A couple small rock-checks may be needed along swale #2 if water control structures are not installed to control grade changes in the swale.

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

Yes. Upland areas that will be enhanced could be subject to wind and rain erosion if they are not planted with vegetation immediately. Efforts will be taken to quickly revegetate all disturbed areas as quickly as possible.

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

None

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

Levees will be compacted and have a 3:1 (horizontal:vertical) slope. All enhanced upland areas and bare-soil caused by the project will be seeded with various mixtures of drought-tolerant native willow, bunch grasses, or similar species, or will be covered with straw mulch while awaiting re-growth once work is completed.

2. Air [help]

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. [help]

Emissions from earth-moving equipment would be released during construction; although, would be short-lived and within air quality standard limits.

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

No

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

Equipment will be maintained in good operating condition

3. **Water** [help]

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. [help]

The project site is a series of wetlands within close-proximity to an Frenchman Hills Wasteway. The Frenchman Hills Wasteway is a vital artery of the Columbia Basin Irrigation Project, and its purpose is to carry irrigation run-off from hundreds of acres of agricultural lands to Potholes Reservoir.

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. [help]

The proposed work will create two swales connecting more directly to the Frenchman Hills Wasteway, thereby improving water flow to wetland pools; although, a major swale already connects most wetland pools in the project area to the primary wasteway. See Figure 1.

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. [help]

Numerous areas will be contoured, and soils will be retained and relocated on-site. No outside fill materials will be used in wetland pools. See the Ducks Unlimited Engineer Design for more details (Figure 1).

Contouring - one wetland cell (Figure 1, pages 4 and 8) will be contoured (0.65 acres of contouring; 2904 cubic yards excavated and filled)) up to 3 feet in depth in certain areas to improve water depth and increase total wetland area by 3.4 acres. Five islands within wetland cells will be enhanced (0.60 acres; 560 cubic yards excavated and relocated on-site). Wetland and island slopes are not anticipated to exceed a 3:1 (horizontal:vertical) incline; although, will be seeded with native stabilization vegetation upon project completion to reduce erosion potential if necessary. Topsoil removed will be returned to the wetland cells to restore the seedbank and improve wetland plant regeneration.

Ditch - one ditch (called swale #1) connecting 2 wetland cells will be deepend, and one new inlet ditch (swale #2) from the irrigation wasteway to a wetland cell will be created (Figure 1, pages 4, 8, 10-12). Quantities of soil to be moved are indicated in the engineer design, and are primarily moved to delineated upland sites which will be graded and reseeded (Figure 1, page 10; and Island #1 on page 4; 12924 cubic yards excavated and relocated onsite along swale #2). These swales will increase wetland area by 21 acres.

Dike/Levee - one dike/access levee will be constructed across the center of one wetland (see Figure 1, pages 4 and 9). It will have slopes of 3:1 (horizontal:vertical) or less, a culvert contained within it as described above, and will be seeded with native vegetation to reduce erosion and allow for stabilization if necessary. The surface will be large sized gravel (~2" diameter rock). Two additional small dikes may be constructed along swale #2 to provide water management capability if needed (Figure 1, page 12). All soil necessary will come from the project's contouring work (500 cubic yards).

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

The proposed work would take place during seasons when the wetlands are normally dry. If small quantities of water (< 0.5 acre-foot) are within the wetland and must be drained with a pump, de-watering would not be performed during seasons that would negatively affect wildlife to a detrimental extent. The addition of a swale within one wetland will divert water out of the adjacent wasteway and greatly improve the fill the wetland cells. The water would circulate back into the wasteway after flowing through the wetland cells.

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

Yes. See the wetland Delineation Report (Figure 2, page 7attached)

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. [help]

No waste materials are anticipated to be discharged to any surface waters. Water quality within the Frenchman and Winchester Wasteways and Potholes Reservoir is unpotable, and generally contains abundant sediment, herbicides, pesticides and other chemical compounds.

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. [help]

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. [help]

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. [help]

Low precipitation (< 9"/year) combined with permeable soils should allow for very little runoff in the project areas. If runoff does occur, it will end up in the basins enhanced by the project, which will augment and benefit water entering the ponds from the Wasteways.

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

Not Applicable

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

The project will create two swales/inlet ditches to increase open water surface area. One swale will connect two basins, and inlet ditch will connect more directly to the Frenchman Hills Wasteway. The entire system already circulates with the wasteway, but the swales/ditch will improve water flow and depth of specific wetland pools.

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

Disturbed soils will be seeded for the purpose of establishing vegetative cover to reduce erosion and runoff.

4. **Plants** [help]

a. Check the types of vegetation found on the site: [help]

__x_deciduous tree: alder, maple, aspen, other
____evergreen tree: fir, cedar, pine, other
__x__shrubs
_x__grass
____pasture
__x_crop or grain
___ Orchards, vineyards or other permanent crops.
__x_ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
___water plants: water lily, eelgrass, milfoil, other
__x_other types of vegetation

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

Approximately 4.24 acres of late-successional emergent wetland vegetation would be removed during contouring and swale creation (*Phragmites* species, bulrush, cattails). There will be minimal disturbance to adjacent uplands areas (<10 acres), and efforts will be taken to further minimize the impacts of machinery on the vegetation located there. Topsoil excavated will be retained and returned to the wetlands to allow for rapid regeneration through the seedbank. The only exception may be if we decide to reduce risk of re-occurrence of non-native/invasive *Phragmites*. Contoured wetland areas will primarily deepen already existent wetland areas, while upland areas will increase in height and surface area.

c. List threatened and endangered species known to be on or near the site. [help]

No federally threatened or endangered species are known to use the site. Two state species of special concern were found nesting in the area in the 1980s/90s (Forster's tern and Black tern).

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

Material contoured from basins will be returned, or deposited on adjacent islands or used to create new islands within the existing wetlands. Topography will be shaped to conform to adjacent terrain, and seeded with drought-tolerant desirable vegetation. Moist soil adjacent to the perimeter of excavated basins is expected (as noted in past observations) to quickly support wetland and moist-site plants common to the area without being seeded.

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

Phragmites (non-native and native), reed canary grass, carp, mosquitofish,

5. **Animals** [help]

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. [help]

Birds: American white pelican, 9 hawk species, 5 owl species, great-blue herons, 19 duck species, Canada geese, grebes, swans, double-crested cormorants, terns, gulls, killdeer, rails, doves, and many songbird species

Mammals: deer, coyote, cougar, muskrat, beaver, raccoons, small rodents and insectivores, bats, mink, skunks and weasels

Herpetofauna: bullfrogs (non-native), tiger salamanders, painted turtles, garter snake, pacific chorus frogs, spadefoot toads

Fish: Non-natives, including carp, largemouth bass, bluegill, mosquitofish. Remote possibility a few native species survive the water conditions and are able to make their way into this stretch of the waterway from Potholes Reservoir or Crab Creek.

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

None known

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

Yes. The site is located within the Pacific Flyway and is used extensively by waterfowl, raptors, shorebirds and songbirds during migrations.

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

All actions proposed (contouring, swale installation, etc) are intended to improve wetland function and increase open water and nesting/loafing habitat, which will improve habitat for waterfowl and other wildlife species.

e. List any invasive animal species known to be on or near the site. [help]

Bullfrogs, fish species

6. **Energy and Natural Resources** [help]

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. [help]

Not applicable

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

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: [help]

Not applicable

7. **Environmental Health** [help]

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. [help]

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

Earth-moving machines could leak small quantities of gas or oil accidentally if they are not well-maintained. Machines will be checked previous to work to ensure no leaks are evident.

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. [help]

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. [help]

Small (<5 gallon) cans of gasoline and oil may be brought to the site and stored on trucks for refueling earth-moving machines. Only appropriate containers will be used.

4) Describe special emergency services that might be required. [help]

Human injuries would be dealt with by on-site staff. 911 would be called for any emergency situation, with the nearest hospital approximately 15 miles from the project area. Staff will have cell phones, cell reception, and no one will work alone when earth-moving machines are involved.

5) Proposed measures to reduce or control environmental health hazards, if any: [help]

No environmental health hazards are anticipated.

b. Noise [help]

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

The project area is distant from roads, residential and commercial activities. No local activities are expected to 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 the site. [help]

Short-term noise would include that produced by earth-moving machines. No long-term noise will arise.

3) Proposed measures to reduce or control noise impacts, if any: [help]

None. Project area is over 0.5km from residential areas.

8. **Land and Shoreline Use** [help]

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. [help]

The project site provides valuable habitat for waterfowl and other wildlife. It is used by recreationists for hiking, bird-watching, and hunting. It is one of few locations where disabled hunters can easily access hunting blinds in the county. Adjacent properties are natural areas including a wildlife reserve, which provides valuable habitat and refuge for wildlife, and one crop circle to the southeast which exists on leased Washington Department of Natural Resources land (does not abut project area).

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? [help]

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: [help]

No

c. Describe any structures on the site. [help]

Three simple wooden hunting blinds have been constructed. Cultural Resources Survey found remnants of a likely old homestead consisting of portions of an old car, an old mortar fence, and a couple depressions (Figure 3). This historic site will be avoided during work and will not be impacted. Water control structures on-site include a man-made channel to direct water from the Frenchmen Hills Wasteway to the wetlands, and 8 water control structures (culverts, etc) used to manipulate water flows and retention within the wetland cells. Structure are well-maintained and are in great condition.

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

No

e. What is the current zoning classification of the site? [help]

Rural remote

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

Fish and wildlife management areas within the Columbia Basin Wildlife Area (Critical Area Ordinance, Grant County GMA).

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

Rural Conservancy

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

No

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

None

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

None

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

Not applicable

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

The work will not change the land uses in any way. The proposed work will help us achieve management objectives outlined in the Columbia Basin Wetland Management Plan.

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

Not applicable

9. **Housing** [help]

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

Not applicable

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

Not applicable

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

Not applicable

10. **Aesthetics** [help]

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? [help]

Not applicable

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

Not applicable

b. Proposed measures to reduce or control aesthetic impacts, if any: [help]

All contouring will be conformed to match neighboring topography, and will be seeded with vegetation.

11. **Light and Glare** [help]

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

Not applicable

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

Not applicable

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

Not applicable

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

Not applicable

12. **Recreation** [help]

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

Hunting, hiking, bird-watching

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

No

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

Not applicable

13. **Historic and cultural preservation** [help]

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. [help]

Cultural Resources Survey found remnants of a likely old homestead consisting of portions of an old car, an old mortar fence, and a couple depressions (Figure 3). This historic site will be avoided during work and will not be impacted

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. [help]

One old human structure foundation was found by the Cultural Resources survey team, although not of Native American origin.

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.

A cultural resource survey was performed (See Figure 3).

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. [help]

Work will be performed in areas approved by the Cultural Resources consultant and per plans outlined through permitting process. Any new findings related to cultural resources that may arise during work will be reported immediately to the WDFW archeologist for direction on how to proceed.

14. **Transportation** [help]

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. [help]

The site is not within ¼ mile of any paved public road. Gravel access roads are adjacent to the project area, but are behind locked gates part of the year. The public can hike in, but driving is restricted outside of hunting season in the immediate project area.

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? [help]

No. The nearest public transportation (bus or train stop) is over 5 miles from the site.

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

No new parking areas will be created.

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).

One access road will be created on the top of a levee that will split one wetland cell. A culvert through the levee will connect the cell halves. The public will have access on foot, but vehicle traffic will be restricted to government staff and possibly disabled hunters during hunting season.

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

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? [help]

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. [help]

No

h. Proposed measures to reduce or control transportation impacts, if any: [help]

Not applicable

15. **Public Services** [help]

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. [help]

No

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

Not applicable

16. **Utilities** [help]

a. Circle utilities currently available at the site: [help]
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

None

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. [help]

None

C. Signature [help]

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: _____

Name of signee RICH FINGER

Position and Agency/Organization Lands Operations Manager / WDFW

Date Submitted: 1/18/2017