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: [help]

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 [help]

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

Legrow Water Company, Intake Screen Air Burst Piping Project

2. Name of applicant: [help]

Legrow Water Company

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

Applicant:

Tom Elliott
PO Box 1306
Pasco, WA 99301
(509) 531-6708

Applicant Representative:

Gary Weatherly, PE
JUB Engineers, Inc
2810 West Clearwater Ave., Ste 201
Kennewick, WA 99336
(509) 783-2144

4. Date checklist prepared: [help]

September 9, 2105

5. Agency requesting checklist: [help]

Washington Department of Fish and Wildlife

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

Work will be completed during the Columbia River work window.
Construction Start: January 1, 2016
Construction Completion: February 28, 2016

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

The Legrow Water Company is in the process of evaluating other options for keeping their intake screens clean in the event the addition of the air burst system does not resolve current plugging problems.

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

BA dated July 2013; addendum dated Sept. 2013

A biological assessment was prepared for the project by Environmental Assessment Services (EAS), Richland, WA. The biological assessment was prepared at the request of the Corps of Engineers to address the affects of the project on federal ESA listed species and habitat.

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 have been identified

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

Corps of Engineer's Section 10 and 404 Permits are required but were obtained when the original screen replacement project took place in early 2014.

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]

A 6" diameter pipe and 4" diameter conduit will be installed from Legrow's existing river pump station, located east of the existing railroad tracks and river shoreline, to their existing intake screens in the Columbia River. The 6" pipe will convey air from an on-shore air compressor and air receiver tank to the existing intake screens for use in cleaning the intake screens. The 4" conduit will carry low voltage power to solenoid valves associated with each existing intake screen so the screens can be cleaned individually. A steel casing will be bored from the river pump station site, beneath the railroad tracks, to the shoreline and river. The pipe and conduit will be placed on the river bottom from the shoreline to the existing intake screens and ballasted. Ballast will consist of intermittent precast concrete blocks and clean quarry spalls.

The existing intake screens were installed in early 2014. The JARPA submitted to install the intake screens planned to use passive intake screens. During the process of acquiring the Corps Section 404 permit NOAA Fisheries required the installation of an air burst system but recognized it would be installed in a subsequent work window. The Corps permit, issued in mid-December 2013, shortly before the work began, includes installation of the air burst piping and conduit. The Corps permit is good through March 18, 2017. This JARPA is being submitted to acquire an HPA to complete the worked required by the Corps permit for installation of an air burst system. The addition of the air burst requirement to the Corps permit occurred following the original project HPA already being issued.

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]

The project is located between the shoreline and a point approximately 280 feet from the left bank of the Columbia River at approximately river mile 316.3. Latitude and Longitude for the site are approximately: 46.11171, -118.92522. The site is located in the SE ¼, SW ¼, Section 3, Township 7 North, Range 31 East, WM. Walla Walla County

B. ENVIRONMENTAL ELEMENTS [help]

1. Earth [help]

a. General description of the site: [help]

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

Shallow sloping river bottom

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

3.5%

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]

River bottom gravels and sediment

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

N/A

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]

The area where work will occur encompasses less than 0.3 acres. Where the pipe, conduit and casing daylight on the river side of the existing railroad tracks several cubic yards of excavation will likely be necessary to expose the end of the casing and access the pipe and conduit and extend it into the river. The casing will be installed to minimize its depth on the river side of the railroad tracks to limit excavation. The pipe and conduit will be protected where on shore and in shallow water using clean quarry spalls and intermittent precast concrete blocks to keep the pipe from floating. The concrete blocks are approximately 2 cubic feet in size with a total volume of 1.33 cubic yards. The clean quarry spalls will total approximately 33 cubic yards.

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

N/A

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

N/A

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

None

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]

Equipment emissions during construction. None following completion of construction.

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

Boise Cascade Paper Mill is located immediately south of the site. Plant odors and emissions will not affect proposal.

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

None

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]

Columbia River

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 majority of the project is located in the Columbia River. A small portion will occur on a narrow shoreline area between the ordinary water line and existing railroad tracks. A casing will be bored beneath the railroad tracks to reach the existing pump station.

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]

A total of approximately 1.33 cubic yards of precast concrete block ballast will be placed in the river and on shore. A total of approximately 33 cubic yards of clean quarry spalls will be placed in the river and on shore.

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

The Legrow Water Company's water withdrawal is existing. The project does not change the withdrawal rate or quantity.

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

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. [help]

It does not

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 water will be withdrawn or discharged to groundwater

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]

None

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]

None

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

No

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

No

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

None

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
____shrubs
____grass
____pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
__X_water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

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

The in water work occurs in an area where milfoil is present. The milfoil will not be removed but the fill placed to ballast and protect the pipe and conduit will be placed without regard to the presence of the milfoil. There are scattered trees on shore that will be avoided.

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

None

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

None

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

Milfoil

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]

Examples include:

birds: hawk, heron, eagle, **songbirds**, other: **pelican**
mammals: deer, bear, elk, beaver, other:
fish: **bass**, **salmon**, **trout**, herring, shellfish, other _____

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

a. **Upper Columbia River Spring Chinook Salmon**
b. **Upper Columbia River Summer Run Steelhead**
c. **Middle Columbia River Steelhead**
d. **Snake River Spring/Summer Run Chinook Salmon**
e. **Snake River Basin Steelhead**

f. **Snake River Sockeye Salmon**
g. **Columbia River Bull Trout**
h. **American White Pelican (WA State Listing)**

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

Yes, Upper Columbia River Salmon and Steelhead migrate up the Columbia River. Site is in the Northwest Migratory Bird Flyway

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

Work will be completed during the January 1 to February 28 Columbia River work window when anadromous fish are not present in the river and pelicans are not nesting in the area.

The air burst system being installed will help keep the existing intake screens clean and thereby keep approach velocities low protecting fish.

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

None were identified

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]

Electrical power will be required to run the air compressor required to fill the air receiver tank and air burst clean the intake screens.

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]

None

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]

There is a small risk of a fuel or oil spill from construction equipment.

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

None were identified

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]

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. [help]

Fuel and oil associated with construction equipment will be on site during construction.

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

None

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

The Contractor will be required to have a Spill Prevention, Control and Counter Measures (SPCC) plan for the project.

b. Noise [help]

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

None

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]

Equipment noise during construction. Following construction the air compressor will run intermittently during the irrigation season. The site is located in an industrial area and adjacent to the existing pump station where large electric motor noise is already continuous during the irrigation season.

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

None

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 site is in river and a narrow shoreline area. Immediately landward from the shoreline are four railroad tracks and then industrial areas associated with the Boise Cascade paper mill.

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]

There is an existing river pump station, existing intake screen structure with 23 – 4 ft diameter 6 ft long stainless steel wedge wire screens, a 66 inch diameter steel pipe and a 10 inch corrugated steel pipe.

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

No

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

Industrial Agriculture Heavy / Rivers-Streams

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

Industrial

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

High Intensity

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

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]

None

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

None

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: [help]

The project improves irrigation facilities necessary to irrigation adjacent farm land.

9. **Housing** [help]

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

None

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

None

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

None

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]

Maximum height would be 14 ft if a vertical air receiver tank is used. Existing pumps located at the site are of similar height.

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

None. River views are already obstructed by elevated railroad tracks and box cars stored on the tracks between the existing pump station and the river.

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

None

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]

None

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

No

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

None

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

None

12. **Recreation** [help]

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

None on shore. The site is patrolled by railroad and Boise Cascade paper mill security personnel to limit access. Fishing, boating and other water related recreational opportunities exist in the river.

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]

None

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 located on or near the site? If so, specifically describe. [help]

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. [help]

No. No studies have been completed.

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. [help]

None

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]

None

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]

Access to on the river side of the railroad tracks is by boat only. Access to the land ward side of the existing railroad tracks is from Highway 12 and Depot Road.

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, 14 Miles

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

None will be created and none will be eliminated.

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). [help]

No

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. Legrow Water Company staff already visit the existing pump station daily. The number of daily site visits will not change as a result of the project.

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]

None

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]

None

16. **Utilities** [help]

a. Circle utilities currently available at the site: [help]
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 the immediate vicinity which might be needed. [help]

No new utility services are required at the site.

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: Gary Weatherly

Name of signee Gary Weatherly, PE

Position and Agency/Organization Senior Engineer, JUB Engineers, Inc.

Date Submitted: 9/10/15