

**WAC 197-11-960 Environmental checklist.**

ENVIRONMENTAL CHECKLIST

*Purpose of checklist:*

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

*Instructions for applicants:*

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

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

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

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

*Use of checklist for nonproject proposals:*

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

**Sumner WWTP Phase 2 Expansion Project**

2. Name of applicant: **City of Sumner, Washington**

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

**City of Sumner Public Works Department, Mr. Pat Claget  
1104 Maple Street, Sumner, Washington 98390**

4. Date checklist prepared: **September 4, 2013**

5. Agency requesting checklist: **City of Sumner**

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

**Construction of the proposed WWTP Phase 2 Expansion Project is scheduled for 2014 and to be completed in early 2015.**

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

**The proposal is the second and last phase of a planned expansion of the WWTP to ensure compliance with the NPDES permit during the planning period.**

**The Final Comprehensive Facility Plan (1999) dictates future development and expansion of the WWTP. The Facility Plan Addendum No. 2 is currently undergoing review and this will implement the proposed project under the Facility Plan. The current development is expected to meet the needs of the service area for the next 20 to 30 years. However, evaluation of the community needs for wastewater treatment is an ongoing process.**

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

- **The City of Sumner Facility Plan Addendum No. 2 is currently being reviewed.**
- **GeoEngineers prepared a Geotechnical Engineering Services Report for the Sumner Wastewater Treatment Plant, April 18, 2013.**
- ***A Land and Water Conservation Fund Proposal Description and Environmental Screening Form* was submitted to the Washington Department of Fish & Wildlife for the Clarifier Site Land Exchange in March 2013.**
- **SWCA/Northwest Archaeological Associates prepared a Cultural Resources Survey report, August 28, 2013.**

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.

- **Department of Health permit to operate the Solids Transfer Station.**

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

- **Compliance with Executive Order 05-05 permitting and consultation with the Washington Department of Archaeology & Historic Preservation and any concerned Indian Tribes.**
- **City of Sumner Shoreline Substantial Development Permit for the overall Phase 2 Expansion**
  - **A Shoreline Conditional Use Permit application is required for utility improvements in the Urban Conservancy Environment per SMC 16.14.060**
  - **Shoreline Variance for new infrastructure located within 200 feet of the White and Puyallup Rivers and the floodway, including Primary Clarifier No. 3, gravity thickener, Grit Handling Building, Odor Control System Improvements, RAS/Scum Pump Building, Centrate Pumping Station, Secondary Clarifier No. 3, RV Dump Station and the sludge truck canopy.**
- **A Zoning Conditional Use Permit is required for upgrading the WWTP within the Low Density Residential Zone (LDR-12) per SMC 18.12.050(F). Of the project items listed in question #11, zoning conditional use permit includes a new Solids Storage Building and Vehicle Storage Building, which will be located on the WWTP Site, but outside Shoreline Jurisdiction; i.e. more than 200 feet from the White or Puyallup rivers.**
- **City of Sumner Flood Hazard Permit**
- **FEMA No-Rise Certification.**

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 Sumner Wastewater Treatment Plant (WWTP) serves the Cities of Sumner and Bonney Lake as well as a portion of unincorporated Pierce County. The WWTP is located at the confluence of the White and Puyallup rivers and has undergone several upgrades since its construction in 1955. The WWTP is currently is managed under the City of Sumner Final Comprehensive Facility Plan (Kennedy Jenks, Jan 1999) and the City of Sumner Final Comprehensive Facility Plan Amendment No. 1 (Gray & Osborne, Inc., February 2000). The proposed Phase 2 Expansion is the second and final expansion planned under the Final Facility Management Plan (1999) and with the specific recommendations located in the Facility Plan Addendum No. 2 currently under review. The facility upgrades and process improvements were accommodated for during the Phase 1 Expansion**

**The National Pollutant Discharge Elimination Permit (NPDES) for the Sumner Wastewater Treatment Plant requires the City to initiate planning for facility expansion when 85% of plant capacity is exceeded for three consecutive months, which occurred during the period from November 2009 through January 2010. During the period since the last upgrade, Total Suspended Solids and BOD loadings have increased more rapidly than anticipated in the 1999 Facilities Plan. Consequently, the City of Sumner is proposing to expand the WWTP to accommodate the increased flows and loadings associated with the revised flow and load trends and population growth and expansion of its service area.**

**The City is currently reviewing two design layouts addressing increased BOD and TSS loadings with budgetary considerations determining the ultimate design selection. Alternative B is the preferred design. The planned expansion will increase the capacity of the existing WWTP to a maximum month design flow of either 5.41 MGD (Phase 2A) or 6.10 MGD (Phase 2B). The components for both design layouts are similar and most elements are accommodated within the existing facility. Many project elements include modification of existing structures, usually internally, to upgrade facility operations. The table below provides a list of the project elements including which elements are included in Alternative 2A and/or 2B. The table also identifies which project elements are required as part of compliance with the NPDES permit through the planning period (Phase 2A of 2034 or Phase 2B of 2043).**

<b>Element</b>	<b>Map ID#</b>	<b>New Construction?</b>	<b>Included in Alternative A</b>	<b>Included in Alternative B</b>	<b>Within the facility?</b>	<b>NPDES required?</b>
Secondary Clarifier No. 3	6	Yes	Yes	Yes	Off site	Yes
Primary Clarifier No. 3		No	Remains decommissioned	Repurpose existing structure	On site	Yes
Aeration Basin No. 3	4	Yes	Yes	Yes	On site	Yes
Solids Storage Building	18	Yes	Yes	Yes	On site	Yes
Equipment Storage Building eastside	19	Yes	Yes	Yes	On site	Yes
Centrate Storage Tank and Pump	8	Yes	Yes (New 30k gal tank Map ID 15)	Repurpose existing gravity thickener	On site	Yes
Solids Handling Building	11	Expansion	Yes	Yes	On site	Yes

Element	Map ID#	New Construction?	Included in Alternative A	Included in Alternative B	Within the facility?	NPDES required?
Truck Canopy Grit Handling Building	17	Yes	In Equipment Building #3 (Map ID 5)	Yes	On site	Yes
Primary Sludge Gravity Thickener	16	Yes	No – use existing (Map ID 8)	New (16)	On site	Yes
Odor Control System No. 2	17	Yes	No – Existing (Map ID 14)	Yes (17)	On site	Yes
RV Dump Station	n/a	Yes	Yes	Yes	On site	No
Solids Transfer Station	n/a	Existing	Yes	Yes	On site	No
Recycling Center and paving	n/a	Relocation	Yes	Yes	On site	No

**Three project elements not covered by the 1999 Final Comprehensive Facility Plan are the RV Dump Station, relocation of the exiting Recycling Center, and the Solids Transfer Station. The RV Dump Station and relocation of the Recycling Center are related projects in that the Recycling Center must be relocated to accommodate the RV Dump Station. There will be minor adjustments to the public access and entrance of the facility to accommodate RV access to the Dump Station that minimize potential conflict with facility operations including dump truck movement.**

**The Solids Waste Transfer Station is an existing 30-foot x 56-foot decant concrete pad with stormwater management for the processing and management of street sweepings and Vactor storm wastes. All decant water is processed through the WWTP. After drying, the material is transported offsite for disposal. The facility is designed to generate approximately 300 tons of solids annually. In the same area, the Parks Department will stockpile their leaf and grass clippings prior to offsite disposal on a new, separate 30-foot x 20-foot pad with six-foot ecology block walls.**

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 City of Sumner WWTP is located at 13114 63<sup>rd</sup> Street East, Sumner, Washington 98390 near the confluence of the Puyallup and White rivers, just west of downtown Sumner at LAT 47°11'58.46"N, LON 122°15' 15.26" W in Section 23 of Township 20 North, Range 4 East.**

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)?

**The Sumner WWTP Site is fairly flat, gently sloping with 4% grade toward either the White or Puyallup River; the steepest slopes on the site are associated with levees and berms protecting the WWTP, these slopes approach 30%.**

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

**According to the 2002 Geotechnical Report prepared by GeoEngineers and confirmed by the Parametrix Habitat Biologist in September 2013, the site is comprised of typical riverbed deposits of sands and gravels. Within the WWTP facility, there is filling with approximately 10-20 feet of fill and extensive grading.**

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

**The WWTP facility is located at the confluence of the White and Puyallup Rivers. While there are not indications of recent erosion or unstable soils along the shore, there were likely shoreline changes in the past. The current shoreline is protected with riprap. Onsite, levees & flood control berms generally protect the WWTP site.**

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

**The table below gives the estimated area of grading. Most of the construction will occur within the facility, which is highly impacted and contained within the existing floodwall. Most areas of development will require minor amounts of gravel fill to provide a base for buildings and concrete pads. Secondary Clarifier No. 3 will likely require a substantial gravel foundation, likely on the order of 600 cy of gravel. Aeration Basin No. 3 will likely require approximately 1,600 cy of gravel. The remaining foundations gravel fill will likely be approximately 500 cy for a total fill of approximately 2,700 cy.**

<b>Project Element (Map ID)</b>	<b>Area of Impact Alt A (sq ft)</b>	<b>Area of Impact Alt B (sq ft)</b>
Secondary Clarifier No 3	5,000	5,000
Aeration Basin No. 3 (4)	14,000	14,000
Solids Storage Building (18)	4,800	4,800
Equipment Storage Building (19)	5,400	5,400
Centrate Storage Tank & Pump (8)	900	0
Solids Handling Building truck canopy (11)	Minor	Minor
Grit Handling Building (12)	0	900
Gravity Thickener (16)	0	1,600
Odor Control System No. 2 (17)	0	900
RV Dump Station	Minor (repaving)	Minor (repaving)

<b>Project Element (Map ID)</b>	<b>Area of Impact Alt A (sq ft)</b>	<b>Area of Impact Alt B (sq ft)</b>
Solids Transfer Station	<ul style="list-style-type: none"> <li>• Existing 1,680 (30 ft by 56 ft) decant</li> <li>• 600 (30 ft by 20 ft) leaf &amp; grass</li> </ul>	<ul style="list-style-type: none"> <li>• Existing 1,680 (30 ft by 56 ft) decant</li> <li>• 600 (30 ft by 20 ft) leaf &amp; grass</li> </ul>
Recycling Center & Parking	Minor (new and repave)	Minor (new and repave)
<b>Total</b>	<b>32,500</b>	<b>35,000</b>

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

**Construction of either alternative will result in the removal of vegetation and soil disturbance associated with construction of the items detailed above. All of these activities have the potential to result in erosion until the structures are completed and the surrounding sites are stabilized through paving or re-vegetation. However, all but Secondary Clarifier No. 3 are contained within the existing facility and all stormwater is treated through the facility.**

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

**Construction of either alternative will result in increased impervious surface with an 18,100 sq ft net gain in impervious surface. The new primary clarifier, the new aeration basin and the new pad at the Solids Transfer Station will be constructed within the paved, or graveled, portion of the site and no new impervious areas will be created. The following are the project elements that contribute to the increased impervious surface.**

- **The new circular secondary clarifier will be approximately 70 feet in diameter with an area of 3,900 square feet, all of which will be impervious.**
- **The new Solids Storage Building will be approximately 48 feet by 66 feet with an area of 3,200 square feet. Drainage from the building will be routed to the storm drain system.**
- **The new Vehicle Storage Building will be approximately 46 feet by 72 feet with an area of 3,300 square feet. The drainage from this building will be routed to the storm drain system.**
- **The new Grit Handling Building will have an area of approximately 450 square feet and will be routed to the storm drain system.**
- **The gravity thickener will have an area of 850 square feet and will drain to the treatment plant.**
- **In addition, approximately 6,400 square feet of paving will be added at the treatment plant. This additional paving will drain to the stormwater system.**

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

**Construction BMPs for the control of sedimentation and erosion will be implemented during project construction to minimize the potential for release of turbid runoff to either the White or Puyallup rivers. The Construction NPDES permit and Erosion Control Plan will be followed to reduce and control erosion during construction. No erosion is anticipated once stabilization measures including paving and re-vegetation are completed.**

**Air**

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.
- **Construction of the proposed clarifiers, the new aeration basin and the new pad at the Solids Transfer Station could generate dust during the summer months. Maintenance includes refreshing the gravel and watering for as needed.**
  - **Construction equipment would generate exhaust from diesel and gas-powered machinery used to build the new clarifiers, aeration basin, Solids Transfer Station pad and associated infrastructure.**
  - **If the City elects to proceed with the construction of the Phase 2 Alternative B improvements, the associated systems would generate additional sources of foul air that would exceed the capacity of the existing odor control system. To treat this additional source, a second odor control system would be constructed in close proximity to the new gravity thickener and Grit Handling Building. This new odor control system would utilize an inert media biofilter, which would be sized only to serve the new gravity thickener and Grit Handling Building.**
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
- **There are no known sources of off-site emissions that would impact construction or operation of either of the Phase 2 WWTP Improvement alternatives or the Solids Transfer Station.**
- c. Proposed measures to reduce or control emissions or other impacts to air, if any:
- **Gravel roads could be watered to control fugitive dust, if necessary.**
  - **If the Phase 2 Alternative B improvements are constructed, a second odor control system would be constructed in close proximity to the new gravity thickener and Grit Handling Building, which will be covered and vented to the odor control system along with the foul air from the new Primary Sludge Degritting Building. This new odor control system would utilize inert media biofilters, which would be sized to serve the new gravity thickener and Grit Handling Building.**
    - **No additional odor control is required under Phase 2 Alternative A.**

**3. Water**

## a. Surface:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.
- **The City of Sumner WWTP is located just east of the confluence of the White and Puyallup rivers. Puget Sound is approximately 10.5 miles downstream.**

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.

- **Much of the Sumner WWTP Site is located within 200 feet of either the White or Puyallup rivers. See the attached plans for the proposed project elements. No in-water work or modification to the shore of either river is planned/anticipated.**
- **The Solids Transfer Station is not within 200 feet of either the White or Puyallup rivers; however, it is within 200 feet of the 100-year Shoreline Conservation Easement. The RV dump station will be in the floodplain and within 200 feet of the White River.**

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 fill or dredge material will be placed in or removed from surface waters or wetlands. The National Wetlands Inventory WETLAND MAPPER Program did not identify wetlands or riparian areas at the Sumner WWTP Site. Subsequent inspection of the site by the City's Wetland Biologist and confirmed by Parametrix's Wetland Biologist determined that no jurisdictional wetlands are present, as the coarse soils in the area drain well and do not allow development of wetland soils or hydrology.**

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

- **Dewatering will be required for construction of structures on the WWTP Site with deep foundations.**

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

- **The Sumner WWTP is located just east of the confluence of the White and Puyallup rivers; according to FIRM Panel 5301470005D the project area is within the FEMA 100-year Floodplain. This FIRM Panel indicates that the regulatory floodway is largely contained within the existing levees in this area and does not include the WWTP site. None of the proposed wastewater infrastructure improvements will be located within the FEMA Floodway.**
- **The City of Sumner Flood Hazard Area Map suggests that portions of the WWTP Site are located within the Floodway; however, the City constructed a perimeter floodwall during a recent facility improvement project, which provides protection for the site well above the current 100-year flood elevation. The new Secondary Clarifier No. 2 will be incorporated into the existing WWTP perimeter wall protecting the facility; a portion of this structure will be within 200 feet of the Puyallup River.**

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.

**The Sumner WWTP discharges municipal wastewater treated to secondary standards to the White (Stuck) River at LAT 47° 12' 01" N, LON 122°15'16"W in accordance with National Pollutant Discharge Elimination System (NPDES) Permit No. WA-002335-3. The proposed WWTP improvements will increase the facility's rated capacity to a new Design Flow of 6.1 MGD (2043 estimated flow, Phase 2 B). Stormwater from all new structures under this project will be collected and treated through the WWTP except for Secondary Clarifier No. 3, which will have stormwater collected and land applied.**



b. Ground:

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

**Pumping of groundwater will be necessary to construct structures with deeper foundations, including the new secondary clarifier and the new aeration basin. This water will be treated at the WWTP facility. No groundwater will be withdrawn or discharged as part of operations of the facility.**

- 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.

**The proposed WWTP expansion will allow the WWTP to serve additional properties within the service area that are currently served by septic systems.**

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.

**The proposed Secondary Clarifier No. 3 will be covered as the other two clarifiers and will create an additional 3,900 square feet of impervious surfaces. This stormwater will be allowed to infiltrate and flow over-land to the Puyallup River. Stormwater falling on the new primary clarifier, aeration basin and the Solids Transfer Station will flow through the treatment process and discharge via the outfall to the White River. Stormwater falling on the new Solids Storage Building, Vehicle Storage Building and additional paved areas will be conveyed to the existing stormwater detention system and then will be discharged to the White River via the existing stormwater outfall.**

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

**Wastewater treated to secondary standards by the Sumner WWTP will continue to be discharged to the White River via the existing outfall. Not completing the proposed project will increase the risk for the discharge not meeting NPDES secondary treated standards and the NPDES permit requirements.**

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

- **Expansion of the Sumner WWTP will improve/preserve the quality of wastewater effluent discharged to the White River as the population of the service area increases through the planning period (2034 or 2043 depending upon the alternative selected).**
- **Implementation of a SWPPP including BMPs for the control of sedimentation and erosion will be implemented during construction to minimize the potential for adverse impacts to water quality in the White and Puyallup rivers.**

4. Plants

a. Check or circle types of vegetation found on the site: (see Habitat Management Plan for detailed list of plant species)

deciduous tree: black cottonwood, alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs: blackberry

grass

pasture

crop or grain

wet soil plants: ferns cattail, buttercup, bullrush, skunk cabbage, willows? other

water plants: water lily, eelgrass, milfoil, other

other types of vegetation

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

**A small area (4,000 to 5,000 square feet, approximately 0.1 acres) of riparian vegetation dominated by black cottonwood trees will be cleared for construction of the Secondary Clarifier No. 3, east of the existing secondary clarifiers near the Puyallup River. Vegetation between the new secondary clarifier and the Puyallup River will be disturbed as little as possible to screen the WWTP from the Puyallup River Trail. Ornamental landscaping will be disturbed in portions of the existing facility for construction of project elements. This includes a few trees and mostly grass.**

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

**The Department of Natural Resources List of Sections Containing Natural Heritage Features did not identify any threatened or endangered plant species in Township 20 North, Range 4 East, Section 23 where the Sumner WWTP is located.**

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

**The area around the new secondary clarifier will be replanted with native vegetation in accordance with City of Sumner landscaping requirements and as detailed in the Habitat Management Plan and attached Landscaping Plan. The areas around the new aeration basin and the Solids Transfer Station will be graveled or paved in a manner consistent with surrounding structures on the rest of the WWTP; see attached Landscaping Plan.**

**5. Animals**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds, other:

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

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

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

**Puget Sound chinook salmon, Puget Sound steelhead and Puget Sound bull trout, ESA-listed as "Threatened," all migrate past the Sumner WWTP in the Puyallup and White rivers. Marbled murrelets nesting in old growth to the east of Sumner, which are also listed as "Threatened," may**

**fly past the Sumner WWTP along either the White or Puyallup rivers during daily feeding migrations.**

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

**Puget Sound chinook salmon, Puget Sound steelhead and Puget Sound bull trout, ESA-listed as "Threatened," all migrate past the Sumner WWTP in the Puyallup and White rivers en route to Puget Sound and on their return to spawn. Marbled murrelets nesting in old growth to the east of Sumner may fly past the Sumner WWTP along either the White or Puyallup rivers during daily feeding migrations.**

**Other migratory fish species in the White and Puyallup rivers include, chum, pink and coho salmon, lampreys and sturgeon.**

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

- **The proposed improvements to the Sumner WWTP will preserve water quality and fish habitat in the White and Puyallup Rivers as the population of the service area grows through the planning period, either 2034 or 2043, depending upon the alternative selected.**
- **The City of Sumner is negotiating a land exchange with the Washington Department of Fish & Wildlife to acquire the site proposed for the third secondary clarifier in exchange for a similar-sized, city-owned property, just to the east of the project area. Preservation of this riparian land will enhance/conserves wildlife habitat along the Puyallup River. According to Ted Hill, City of Sumner, the City has agreed with WDFW regarding the area of land to be exchanged and the locations. A *Land and Water Conservation Fund Proposal Description and Environmental Screening Form* was submitted to WDFW for review in early March 2013.**

## 6. Energy and natural resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

**Electrical energy will be used to operate the new electronic and mechanical elements of the wastewater treatment infrastructure. Additional flow through the WWTP would increase the amount of anaerobic digester gas produced, which will be used to fire the boiler for the digester heating system.**

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

**The new infrastructure proposed as part of the Phase 2 WWTP Expansion would not impact use of solar energy by adjacent property owners, as most of the new infrastructure will be less than one story in height. The only proposed building structures with appreciable heights will be single story structures with wall heights that are well below the cottonwood trees surrounding the site.**

- k. 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:

**The Sumner WWTP utilizes gas produced in the aerobic digesters to fire the boilers that heat the digesters. New motors and pumps will be modern and energy efficient.**

## 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.

**Environmental health hazard associated with construction of the proposed Phase 2 Expansion would be the temporary increase in fuels, coolants and lubricants in equipment employed to construct the improvements. During operations, inundation and the inability of the facility to handle loads could lead to a discharge above regulatory limits for wastewater treatment.**

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

**The Sumner Fire Department would be advised of the proposed WWTP Phase 2 construction project, but no need for special emergency services is anticipated. During operations, a discharge in excess of permitted levels will follow facility notification requirements.**

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

**The facility spill prevention program will be updated to reflect the new operational condition once construction is completed. During construction, all equipment will be equipped with emergency spill clean-up kits and construction crews will be trained in their use. Construction equipment will be fueled and maintained at a site remote from sensitive areas along the shorelines of the White and Puyallup rivers to minimize the potential for spills of hazardous materials.**

## b. Noise

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

- **The noise level from the treatment plant operations should not be appreciably affected by the proposed expansion. Overhead traffic noise from SR 410 is audible at the Sumner WWTP Site and noise from blowers and the aeration basins are the main noise sources on the site.**
- **The new aeration basin will work in conjunction with the existing aeration basins, which should reduce cumulative noise levels generated on the site.**
- **The new aeration blower will be installed in the existing blower room that was constructed to attenuate sound from the blowers.**
- **Noise would be generated by construction equipment and vehicles, material delivery trucks and worker vehicles for the duration of the project construction. These noises would include engines, equipment and machinery, digging and scraping. Working hours would be limited to weekdays from 07:00 am to 06:00 pm in accordance with City of Sumner Municipal Code 15.34.010.**

- 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.

- **Noises associated with delivery of equipment and construction would occur year-round between 07:00 am and 06:00 pm until construction is completed for a period of approximately two years.**
- **Noises associated with delivery vehicles and sweeper would occur year-round between 07:00 am and 4:30 pm and Fridays 2:00 am to 4:30 pm.**

- **Long-term noise increases associated with blower and aeration basin operation are unlikely to be noticeable off-site, as they will be operated in coordination with the existing aeration basins and aeration equipment.**
- 3) Proposed measures to reduce or control noise impacts, if any:  
**Particularly loud equipment will be placed in sound-attenuated enclosures, or rooms, to minimize noise associated with the Phase 2 WWTP expansion.**

## 8. Land and shoreline use

- a. What is the current use of the site and adjacent properties?

**The Sumner WWTP occupies the site of the proposed Phase 2 expansion. The location for the new secondary clarifier is currently a forested riparian area along the Puyallup River owned by the Washington Department of Fish & Wildlife; this property is immediately adjacent to the secondary clarifiers that were installed during the Phase 1 WWTP Expansion. Portions of these clarifiers are within 200 feet of the Puyallup River in an area designated as Shoreline Conservancy.**

- b. Has the site been used for agriculture? If so, describe.

**The Sumner WWTP Site has been used for wastewater treatment since the early 1950s. The previous land use is not known.**

- c. Describe any structures on the site.

**The project area is located on the site of the City of Sumner's existing secondary-treatment WWTP, which was last upgraded in 2004. The WWTP operates as a conventional nitrifying activated sludge system with primary clarification and mesophilic anaerobic sludge digestion followed by thermal drying for sludge treatment.**

**The following structures are located on the site:**

- **Control Building**
- **Vector Truck Unloading Station**
- **Influent Pump Station/Headworks**
- **2 Aeration Basins**
- **2 Primary Clarifiers**
- **2 Secondary Clarifiers**
- **UV disinfection system and effluent pump station**
- **Sludge processing, storage and loading structures near the Point**
- **3 Equipment Buildings**
- **2 Anaerobic Digesters**
- **Biofilter**
- **Several pump stations to facilitate the treatment processes**
- **A flood protection wall was installed around the WWTP Site during a recent project.**
- **The solids transfer facility consists of two concrete pads.**

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

**Portions of an abandoned clarifier and the existing primary sludge pump station will be demolished to expedite construction of the new facilities.**

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

**Low Density Residential (LDR)-12**

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

**The WWTP Site and Solids Transfer Station site are designated as Public-Private Utilities & Facilities. The area immediately east of the WWTP Site is designated as Low Density Residential 3.**

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

**The Shoreline Master Program Designation for the Sumner WWTP Site is “Urban Conservancy.”**

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

**The Sumner WWTP is located at the confluence of the White River and the Puyallup River and is within the 100-year floodplain. The Solids Transfer Station site is within the 100-year floodplain. Areas along the north and south side of the WWTP site and the WDFW property where the third secondary clarifier would be located are sensitive riparian and shoreline areas. Both rivers provide critical habitat for Puget Sound chinook salmon, which is listed as “Threatened” under the Endangered Species Act. Threatened stocks of Puget Sound bull trout and Puget Sound steelhead are also present in these rivers.**

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

**The City of Sumner currently employs eight WWTP Operators and maintenance personnel at the Sumner WWTP.**

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

**The proposed WWTP expansion will not displace any workers at the WWTP or neighboring residents.**

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

**No displacement impacts to mitigate.**

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

**The City of Sumner has undertaken a planning process to ensure that the WWTP provides adequate wastewater treatment and disposal for the next 20 to 30 years. This is documented in the Sumner Phase 2 Wastewater Facility Plan Addendum. The Phase 2 WWTP Expansion is being planned and will be constructed in accordance with the Final Comprehensive Facility Plan prepared for the City of Sumner by Kennedy/Jenks in 1999 and the City of Sumner Final Comprehensive Facility Plan Addendum No. 1 prepared by Gray & Osborne, Inc. in September 1999. Expansion of the facility on the existing site will provide adequate wastewater treatment capacity for the cities of Sumner and Bonney Lake through 2034 (Phase 2A) or 2043 (Phase 2B).**

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 required.**

#### 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?

- **The dome cover on the third secondary clarifier will be approximately 10 feet tall. It will be constructed of concrete with a metal cover similar to the two existing secondary clarifiers.**
- **The new aeration basin will be a generally below-grade concrete structure, which will only extend approximately one foot above-grade.**
- **The concrete ecology blocks of the Solids Transfer Station will be six feet tall. The leaf and grass pad will have 6 ft tall ecology block walls. The concrete pad at the transfer station will be six-inch reinforced concrete.**
- **The new Solids Storage and Vehicle Storage Buildings will be CMU block buildings and both will be 20 feet tall.**
- **The new Grit Handling Building will be a CMU block building with a height of 15 feet.**
- **The new RAS/Scum Pump Building will be a CMU block building with a height of 13 feet.**

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

- **On the WDFW property immediately east of the Sumner WWTP, clearing of the cottonwood trees and associated underbrush on the site where the third secondary clarifier is proposed will open up the view of the river from the eastern portion of the WWTP Site.**
- **Similarly, views of the Puyallup River from residential property east of the WWTP may improve somewhat.**
- **Existing riparian vegetation will be maintained as much as possible to screen the WWTP and Solids Transfer Station from users of the Puyallup River Trail.**

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

- **Once construction of the new secondary clarifier, the area surrounding the structures will be landscaped meeting the City of Sumner Landscaping Plan requirements and the project Habitat Management Plan.**

- **Vegetation between the third secondary clarifier and the Puyallup River Trail will be preserved as much as possible to provide a vegetative screen between the trail and the WWTP. The site will be replanted with native vegetation per the Habitat Management Plan.**

## 11. Light and glare

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

**Removal of trees for the construction of the third secondary clarifier will allow more light to penetrate into the Sumner WWTP during daylight hours. Additional lighting will be required for night time safety at the facility. This lighting will be directional and will minimize visibility and lighting impacts to the neighbors. The metal cover over the new secondary clarifier may generate a slight amount of glare during midday.**

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

**Light and glare are unlikely to present a safety hazard, as the WWTP Site is located in a low, forested area. Shoreline trees screen the offsite view of the facility from the north, south, and west. SR 410 screens the view of the facility from the east. Vegetation screens the view of the facility from the Puyallup River Trail and Puyallup and White Rivers.**

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

**Light and glare off the Puyallup and White Rivers may occasionally be observed at the Sumner WWTP Site. It is unlikely to affect the proposed Phase 2 Expansion Project.**

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

**The Phase 2 Wastewater Facility Plan Addendum provides details regarding construction materials for the WWTP Expansion. The metal roof of the proposed third secondary clarifier could be painted a flat, neutral color to minimize light reflection and potential glare impacts. The proposed Grit Handling, RAS/Scum Pump, Solids Storage and Vehicle Storage Buildings will be constructed from a neutral color CMU block that is similar in color and construction to other buildings on the WWTP site. Consequently, these new structures should not be conspicuous to observers in areas adjacent to the Sumner WWTP. In addition, any new lighting will be directional and not create offsite light impacts.**

## 12. Recreation

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

**A cycling and walking trail was installed around the perimeter of the Sumner WWTP after the Phase 1 upgrade, which improved access to both rivers for cyclists, hikers, users of small water craft and recreational fishermen.**

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

- **Construction of the third secondary clarifier immediately east of the existing secondary clarifiers along the Puyallup River will require the City of Sumner to execute a land exchange with the Washington Department of Fish & Wildlife. The current plan is for the City and WDFW to exchange**



adjacent approximately 2.07 acre parcel along the Puyallup River. A *Land and Water Conservation Fund Proposal Description and Environmental Screening Form* has been submitted by the City to WDFW in support of the exchange of adjacent parcels.

- Construction of the third secondary clarifier may require a slight temporary realignment of the trail system around the WWTP Site and could temporarily disrupt access to the rivers during some of the construction activities. Access to the trail should be returned to current conditions after construction of Secondary Clarifier No. 2 is completed by 2015.

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

- Recreational trail traffic will be detoured around construction sites, as necessary, to minimize impacts.
- Areas disturbed for construction of the third secondary clarifier will be revegetated, using native vegetation, in accordance with City of Sumner Landscaping Requirements and the Habitat Management Plan.
- Vegetation between the new secondary clarifier site and the Puyallup River Trail will be preserved as much as possible to provide a screen to separate trail users from WWTP operations.

### 13. Historic and cultural preservation

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

**According to the Department of Archaeology & Historic Preservation's WISAARD Website, there are no structures listed or eligible for state or federal historic registers in the immediate project area. However, there are a number of buildings that may be eligible in Sumner within the Township, Range & Section where the WWTP Phase 2 Expansion will occur. See the attached Cultural Resources Assessment.**

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

**There are no known historic, archaeological, scientific or culturally important landmarks or materials on or immediately adjacent to the Sumner WWTP Project Site.**

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

**Potential sites of ground disturbance will be evaluated by a professional archaeologist prior to ground disturbance in accordance with established protocols to satisfy Executive Order 05-05 and or Section 106 of the National Historic Preservation Act of 1964, as required by the Public Works Board. In the event that potentially significant cultural, historic or archaeological materials are encountered during construction, work in the immediate vicinity shall be stopped and the City of Sumner, the Project Engineer, the Public Works Board Loan Manager, the Department of Archaeology and Historic Preservation and the concerned Tribes (Muckleshoot & Puyallup) will be consulted regarding recordation and curation of any significant artifacts. In the event that human remains are encountered County Sheriff's Department, the County Coroner and the State Physical Anthropologist shall be consulted.**

**14. Transportation**

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

**The Sumner WWTP Site can be accessed from SR 410 via Traffic Avenue and Harrison Street, which continues west as 64<sup>th</sup> Street into the facility.**

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

**Sound Transit Route 596 provides service to the Seattle Area from Sumner Station, which is approximately one mile from the Sumner WWTP. Sound Transit Light Rail also serves Sumner during weekday commutes.**

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

**The facility contains onsite parking for employees. The facility provides minimal public parking at the entrance and the number of parking spots will not be altered.**

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

**The proposed Phase 2 WWTP Expansion and the transfer station will not require any new roads or significant improvements to existing roadways. The access roadway, essentially the driveway, to the WWTP will require repaving, once the project is completed.**

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

**The project does not use water, rail, or air transportation. The Puyallup River is regarded as navigable approximately seven miles downstream of Sumner. The nearest railroad tracks are approximately one mile from the project site where they intersect Traffic Avenue.**

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

**Operation of the expanded Sumner WWTP may result in additional sludge and solid waste transport to accommodate increased WWTP loads as the population and service area grow.**

**Operation of the Solids Transfer Station would include:**

- **Two trips per day from the Sumner Parks Department delivering grass clippings during he mowing season;**
- **Two trips per day from the Parks Department to deliver leaf debris;**
- **Three street sweeper delivery runs on Thursdays and Fridays;**
- **During the fall, up to eight sweeper trips per day for several weeks until the regular schedule can be implemented.**
- **One to two bi-weekly trips to haul debris off-site to keep the facility emptied.**

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

- **During construction, deliveries of large/over-sized structures and equipment could be scheduled outside of the heaviest early morning traffic period, as much as possible.**
- **Trips in and out of the Solids Transfer Station will occur during regular business hours, 8:00 a.m. to 4:00 p.m., except on Fridays when the sweeper operates from 2:00 a.m. to clean the major streets in Sumner.**

15. **Public services**

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

- **Implementation of the Phase 2 Sumner WWTP Expansion Project, including the Solids Transfer Station, would not require additional public services, fire protection, police protection, health care, schools etc.**
- **The proposed WWTP expansion will provide adequate wastewater treatment and disposal for the service area through either 2034 (Alt. IIA) or 2043 (Alt. IIB).**

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

- **Implementation of the proposed Phase 2 WWTP Expansion will provide adequate wastewater treatment to the service areas in Sumner and Bonney Lake through 2034 (Alt IIA) or 2043 (Alt. IIB).**

16. **Utilities**

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

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

**Puget Sound Energy (PSE) provides natural gas and electricity in Sumner. Solid Waste is managed by DM Disposal. PSE will relocate one of the existing primary services at the WWTP to facilitate construction of the new facilities.**

**There will be a water faucet at the Solids Transfer Station to fill the sweeper tanks. Water will be provided by the City of Sumner. The water service will have a double check valve and will be metered.**

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: .....

Date Submitted: .....