City of Puyallup
Development Services
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SEPA ENVIRONMENTAL CHECKLIST
(2015 UPDATED VERSION)

Purpose of Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21 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 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 whether an EIS is required.

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.

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.

If you are not already submitting an 8-1/2" x 11" reduction of your project site plan to the city as part of a companion case submittal, please submit a copy as a part of this SEPA application.

Please submit eight (8) copies of the completed SEPA checklist application packet.

A. BACKGROUND

1. Name of proposed project:

Water Pollution Control Plant (WPCP) Third Secondary Clarifier, CIP No. 20-018

2. Name of Applicant:

Jessica Wilson
Department of Public Works
City of Puyallup

3. Mailing address, phone number of applicant and contact person:

333 S. Meridian
Puyallup, WA 98371
Contact: Jessica Wilson, Public Works Engineering
Phone: 253-435-3645

4. Date checklist prepared:

June 5, 2023

5. Agency requesting checklist:

City of Puyallup

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

Construction is anticipated to start in October 2023 and be completed by March 2025.

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

Future improvements at the WPCP site include mechanical and electrical upgrades to existing equipment. Construction of new or expanded structures is not contemplated at this time.

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

Geotechnical Report, Proposed Secondary Clarifier No. 3, PanGeo, Inc, August 2021

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.

None known.

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

City of Puyallup Conditional Use Permit
City of Puyallup Building Permit

11. Give brief, complete description of your proposal, including 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 or project description).

The project includes the construction of a new 110 foot diameter Secondary Clarifier, approximately 175 feet of new piping and associated electrical work to connect the new clarifier to the existing hydraulic and SCADA systems, installation of a magnetic flow meter and a 4th return activated sludge pump in the lower level of the existing RAS/WAS Building, HVAC, architectural and electrical work in the main floor of the RAS/WAS Building, installation of a new submersible pump, radar level sensor and piping revisions at the existing effluent flowmeter manhole to create a scum pump station, Site restoration includes replacement of existing asphalt impacted by underground trenching for the project and installation of crushed surfacing gravel on the south and west sides of the new clarifier. The proposed project was included in the approved 1996 Wastewater Facility Plan. The 1997 construction project at the WPCP installed the stone columns that will be used to support the third clarifier and the deep piping stub-outs that will be used to connect the third clarifier to the existing WPCP hydraulic system.

The project site includes three parcels, Parcels No. 0420204132, 0420208044 and 0420204136, of the five parcels that are included in the entire WPCP. Parcel No. 0420204132 and 0420208044 are the subject of a current Lot Combination Application.

The project is located at the City of Puyallup WPCP. The site is zoned PF. The existing site plan of the entire WPCP and the subject Parcels No. 0420204132, 0420208044 and 0420204136 is shown in the attached Figure 1 the proposed site plan is shown in Figure 2.

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including street address, if any, and section, township, and range, if known. If the proposal would occur over a range of area, provide the range of 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 WPCP is located at 1602 18th Street NW Puyallup, WA 98371. The WPCP is located south of River Road, north of 13th Avenue NW and west of 18th Street NW.

The WPCP location is 47degrees12'18.46" N 122 degrees19'21.54" W

A location of the WPCP is attached (Sheet G-1).

B. ENVIRONMENTAL ELEMENTS

1. Earth

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

b. What is the steepest slope on the site (approximate percent slope)? 0.5%

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.

Soils consist of approximately 1 - 5 feet of fill (loose to medium dense, brown, sand with gravel and silt) immediately below the ground surface, 22-25 feet of alluvium below the fill (loose to medium dense, silty sand and medium stiff sandy silt. The Alluvium overlays approximately a 15 - 20 foot layer of looser and finer soils (silt to organic silt and clayey silt). Below a depth of about 40-45 feet, the soils generally consist of medium dense to dense/stiff to very stiff interlayers of sand and silt that extend to the maximum depth of the subsurface geotechnical explorations (about 80 to 101 feet).

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

There are no surface indications of unstable soils in the immediate vicinity. However, several structures on the WPCP are supported on stone columns to minimize the potential for liquefaction in the event of a significant seismic event. The proposed 3rd Secondary Clarifier will be supported on stone columns that were installed as part of an expansion of the WPCP in 1999.

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

The proposed 3rd Secondary Clarifier will be installed mainly below existing ground surface. Approximately 11,000 CY of material will be excavated and removed from the site. Approximately 1,600 CY of material will be need for structural backfill around the exterior of the Secondary Clarifier walls and the pipe trenches.

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

Given the flat terrain of the WPCP site it is unlikely that erosion could occur as a result of clearing or construction. The Contractor will be required to follow Best Management Practices (BMPs) to prevent erosion and sediment transport. BMPs will include, but not be limited to, covering of soil/gravel stockpiles, sediment barriers in existing catch basins, installation of silt fencing, and wheel wash stations.

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

The proposed project is located on Parcels No. 0420204132, 0420208044 and 0420204136 (Parcels No. 0420204132 and 0420208044 are the subject of a Lot Combination Application). Approximately 32 percent of the combined parcels will be covered with impervious surface after project construction.

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

The Contractor will be required to follow a Stormwater Pollution Prevention Plan (SWPPP) that meets the requirements of the Department of Ecology Stormwater Management Manual for Western Washington, 2019. The SWPPP is a 13 point plan that determines the BMPs that will be employed on site to prevent erosion and sediment transport off-site.

2. Air

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

Diesel and gas powered construction equipment exhaust and dust from construction activities may contribute to air emissions during construction. The operation of the completed Secondary Clarifier and mechanical improvements in the existing RAS/WAS building will not contribute to air emissions. Quantity of emission during construction is unknown.

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

There are no off-site sources of emissions or odor that would affect this project.

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

The Contractor will be required to utilize properly maintained construction equipment to minimize the potential for diesel and gas emissions. Daily dust suppression during construction will be required in dry weather.

3. Water

a. Surface Water:

1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream and river it flows into.

The Puyallup River is located approximately 450 feet north of the WPCP. The Puyallup River flows into Puget Sound at Commencement Bay in Tacoma.

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.

No.

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

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

No.

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

Yes. The northern portion of the WPCP is located within a 100-year floodplain. See attached National Flood Insurance Program map, indicating WPCP Flood Hazard.

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 proposal does not include discharge of waste materials to surface waters.

b. Ground:

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.

The Geotechnical Report prepared for this project encountered groundwater between 8-20 feet below ground surface. It is likely groundwater dewatering will be required during construction. It is anticipated groundwater will need to be controlled to prevent erosion and instablity of the excavation slopes, however excessive pumping of groundwater could lead to ground settlement under other structures. The Geotechnical Report recommended the use of ground freezing or cut-off shoring walls to limit the need for groundwater pumping. Pump dewatering water would be treated to remove sediment and discharged to the existing stormwater collection system.

2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: domestic sewage; industrial, containing the following chemicals.....; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

No wastes will be discharged into the ground.

c. Water Runoff (including storm water):

1. Describe the source of runoff (including storm water) the method of collection and disposal, if any (including quantities, if known). Where will this water flow? Will this flow into other waters? If so, describe.

Water runoff will originate from storm water and potentially snow melt. The WPCP is served by a stormwater collection system that discharges to the Puyallup River. The Secondary Clarifier is an open tank - any stormwater falling on the surface of the Secondary Clarifier is discharged along with treated wastewater through the outfall to the Puyallup River.

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

Waste materials are not likely to enter ground or surface waters.

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

The location of the proposed 3rd Secondary Clarifier is currently covered with grass. Drainage from the area surface flows into the stormwater collection system and is discharged to the Puyallup River. The proposed 3rd Secondary Clarifier is an open tank. Stormwater falling on the 9,500 sf of water surface in the Secondary Clarifier will be discharged along with treated wastewater through the outfall to the Puyallup River. The proposed project will decrease the amount of runoff from the project site.

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

Stormwater falling on the 9,500 sf of water surface in the Secondary Clarifier will be discharged along with treated wastewater through the outfall to the Puyallup River. The proposed project will decrease the amount of runoff from the project site. Surface restoration of the approximately 175 feet of trenching for new piping and associated electrical work to connect the new clarifier to the existing hydraulic and SCADA systems will be sloped to existing catch basins.

4. Plants

a. Check or circle types of vegetation found on the site:

- [ ] deciduous tree: alder, maple, aspen, other
- [ ] evergreen tree: fir, cedar, pine, other
- [x] shrubs
- [ ] pasture
- [ ] crop or grain
- [ ] orchards, vineyards or other permanent crops.
- [ ] wet solid 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?

Approximately 10,000 square feet of grass will be removed.

c. 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 the vicinity of the WPCP, Township 20 Range 4 East.

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

None. The WPCP is surrounded by a 10-foot high concrete fence that provides security and a visual barrier for surrounding properties. Installation of trees and other vegetation that could cause leaves or other vegetation to fall onto the open water surface of the clarifier is not compatible with the operation of the wastewater treatment process.

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

None known.

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: _____

b. 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 are EAS - listed as "Threatened". These species migrate through the Puyallup River in the vicinity of the WPCP.
Marbled murrelets which are ESA-listed as "Threatened" may fly past the WPCP along the Puyallup river during daily feeding migrations.

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

The WPCP is located in the Pacific flyway bird migratory route.
Salmon, trout, bull-trout, lampreys, sturgeon and other fish species may migrate past the WPCP in the Puyallup River.
Marbled murrelets may migrate past the WPCP along the Puyallup River during their daily feeding migrations.

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

Erosion and sediment control BMPs will be instituted during construction to prevent sediment laden stormwater runoff from discharging to the Puyallup River.

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

None known.

6. Energy and Natural Resources

a. What kind 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.

Electric energy will be used to power the motors that run the Secondary Clarifier, pumps and replaced mechanical/HVAC equipment in the RAS/WAS building. The electric energy will be used for wastewater treatment.

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

The project will not affect the potential use of solar energy by adjacent properties.

c. What kind of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

Energy efficient motors will be specified for all new equipment.

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.

The only environmental health hazards associated with construction of the proposed 3rd Secondary Clarifier project would be the temporary increase in fuels, coolants and lubricants in equipment employed to construct the improvements and the use of liquid nitrogen, salt brine or other refrigerant to stabilize the excavation using ground freezing.

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

None known.

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.

There are no known hazardous chemicals/conditions that would affect the completion of this project.

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.

Fuel and lubricants for construction equipment would be stored and used on site during construction. Pump lubricants for newly installed equipment may be stored on site during the operating life of the project.

4. Describe special emergency services that might be required.

The Puyallup Fire Department would be advised of the proposed construction project, but no need for special emergency services is anticipated.

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

This project will replace equipment in the RAS/WAS Building that is nearing its useful design life. By installing new, up-to-date equipment the potential for environmental health hazards due to malfunctioning equipment is lessened. Construction equipment will be equipped with emergency spill clean-up kits and construction crews will be trained in their use to prevent exposure to hydraulic fluids, diesel fuel and gasoline.

b. Noise

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

Noise in the area will not affect construction or operation and maintenance of Secondary Clarifier No. 3 or the improvements in the existing RAS/WAS Building.

2. What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Construction activities will create short-term noise impacts during excavation, building and material/equipment delivery. Construction related noise would occur between 7:00 am and 6:00 pm per the construction contract.
Noise producing activities associated with operation and maintenance of the proposed new facilities include the motor drive and the water spray bar on the Secondary Clarifier. It is unlikely these noises are noticeable off-site.

3. Proposed measures to reduce or control noise impacts, if any.

Construction equipment will be required to be properly muffled. Construction hours will be limited to weekdays from 7 am to 6 pm per the construction contract provisions. (Construction noise limited to 7 am to 10 pm per PMC 6.16.060(2)(b)).

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The site (Parcels No. 0420204132, 0420208044 and 0420204136) is currently occupied by the City of Puyallup WPCP. The properties to the west are also occupied by the City of Puyallup WPCP. The property immediately north and northeast of Parcel 0420204132 is occupied by a business, "Northwest Motorsport". The property to the east of Parcel 0420208044 is occupied by the River Road Animal Hospital. Properties to the south of Parcels 0420208044 and 0420204136 are residential (RS-08).

The proposal will not affect current land uses on nearby or adjacent properties.

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 non-farm or non-forest use?

The site has been used for wastewater treatment since 1955. Portions of the site may have been used for agriculture prior to that time.

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:

There are no working farms or forest land in the vicinity of the WPCP. The proposal will not affect or be affected by surrounding working farm or forest land operations.

c. Describe any structures on the site.

Parcel 0420208044 of the WPCP includes the following structures:
Secondary Clarifiers No. 1 and 2
RAS/WAS Building
Blower Building
Aeration Basins No. 1, 2 and 3
Parcel 0420204136 of the WPCO includes the following structures:
Main Plant Lift Station
Headworks
Primary Clarifiers No. 1 and 2
UV Disinfection/Effluent Pump Station
Biofilters
The remainder of the WPCP includes the following structures:
Solids Handling Facilities
Primary Anaerobic Digesters No. 1 and 2
Secondary Anaerobic Digester
Temporary Sludge Holding Tank
Operations Building
Generator and Compressor Building
Scum Removal Facility

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

No structures will be demolished for the proposal.

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

The current zoning is PF - Public Facility

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

PF - Public Facility

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

NA

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

The northeast portion of the entire WPCP site is located within Zone X associated with the Puyallup River. Zone X is an area protected by levees from 1% annual change flood. The FIRM panel, effective March 2017, that includes the City of Puyallup WPCP is attached.

The entire WPCP is located in a critical aquifer recharge area, volcanic hazard area and seismic hazard area.

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

The City employs 18 WPCP Operators and maintenance personnel. It is not anticipated that additional staff will be required to operate and maintain the proposed improvements.

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

No people would be displaced by the completed project.

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

No people will be displaced by the proposed project. No measures to avoid or reduce displacement impacts are required.

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

The WPCP must be sized to provide adequate treatment capacity to meet the population estimates for the service area. The existing Secondary Clarifiers do not have adequate capacity to meet the reliability criteria requirements. Construction of the third Secondary Clarifier will provide adequate clarification capacity for 45.6 mgd which is approximately 91% of the estimated buildout flow.

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

There are no nearby agricultural or forest lands. The proposal does not affect agricultural or forest lands.

9. Housing

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

No housing units will be provided.

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

No housing units will be eliminated.

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

NA

10. Aesthetics

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

The majority of the third Secondary Clarifier will be underground. The elevation of the top of the clarifier wall is 32.75 feet. The surrounding ground surface varies from 30 to 32 feet. The maximum wall height will be approximately 3 feet.

The existing RAS/WAS building is 13 feet tall. The exterior of the RAS/WAS building will not be altered.

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

No views will be altered or obstructed.

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

None.

11. Light and Glare

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

It is not anticipated that any of the work included in the project will produce light or glare.

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

Light and glare from the WPCP are unlikely to present a safety hazard or interfere with views.

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

There are no off-site sources of light or glare that would affect the proposed project.

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

No measures to reduce or control light and glare impacts are proposed.

12. Recreation

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

A bike/pedestrian path is located approximately 400 feet north of the WPCP on the north side of River Road.

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

The proposed project will not displace any existing recreational uses.

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

There will be no impact to recreation or recreational opportunities therefore no measures to reduce or control impacts are proposed.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

According to the Department of Archeology & Historic Preservation's WISAARD Website, there are no structures listed or eligible of state or federal historic registers in the immediate project area.

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.

There are no known historic, archaeological, scientific or culturally important landmarks or materials on or immediately adjacent to the Puyallup WPCP project site.

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.

The WISAARD map application identified one property within T20N R4E S20 (location of the WPCP) that has been determined eligible. This property is located at 7022 River Road E, Puyallup, WA 98371. The property is approximately 0.75 miles northwest of the WPCP.

The stone column pilings that will be used to support the new secondary clarifier were installed as part of the 1999 WPCP expansion project. The stone columns are about 12 to 15 inches in diameter and spaced about 8 to 9 feet apart to a depth of approximately 44 feet below the surface. The columns are filled with crushed rock. These columns underlay the entire site of the new secondary clarifier. There is no indication that cultural or historic artifacts were identified during the excavation of the site as preparation for the installation of the stone columns or during the installation of the stone columns in 1999.

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.

The project specifications will include an Inadvertent Discovery Plan. In the event that potentially significant cultural, historic or archaeological materials are encountered during construction work in the immediate vicinity must be stopped and the City of Puyallup, the Project Engineer, the funding agency, the Department of Archeology and Historic Preservation and the concerned tribes (Muckleshoot & Puyallup) will be consulted regarding recording and curation of any significant artifacts.

14. Transportation

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

The WPCP is accessed via 18th Street NW. Access to 18th Street NW is via River Road and W Stewart Avenue.

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?

Pierce Transit Route 400 stops at 18th Street NW and W Stewart Avenue. This stop is approximately 0.6 miles from the entrance to the WPCP.

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

The proposed project will not create or eliminate parking spaces.

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).

The proposed project will not require any new roads or significant improvements to existing roadways.

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

The proposed project will not use water, rail or air transportation.
The Puyallup River is regarded as navigable approximately 3.5 miles downstream of the WPCP. The nearest railroad tracks parallel W Stewart Avenue, approximately 0.6 miles south of the WPCP site. The rail station is located at 131 W Main, approximately 1.7 miles from the entrance to the WPCP.

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?

The proposed project would not generate any additional trips to the WPCP. Typically, vehicular trips to the WPCP are limited to staff members and delivery trucks. Assuming 18 FTE, vehicular trips per day would be approximately 50 (assume 2 trips/day per employee and 14 delivery vehicles).

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.

The project will not interfere with, affect or be affected by the movement of agricultural and forest products on road or streets in the area.

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

Deliveries of large/over-sized structures and equipment would be scheduled outside of the heaviest early morning traffic period, as much as possible.

15. Public Services

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

Construction and operation and maintenance of the proposed project will not require additional public services, fire protection, police protection, health care facilities or schools.

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

The City of Puyallup Police and Fire Departments will be notified that construction will be taking place at the WPCP.

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.

The project will not require new utility service. The installation of new electrical motors and HVAC equipment will be powered via existing service panels. Electrical energy is provided by Puget Sound Energy.

C. SIGNATURE

I hereby state that I am the owner or authorized agent listed above, and certify that all information contained above and in exhibits attached hereto are true and correct to the best of my knowledge and belief. I understand that the processing of this application may require additional supporting material upon request to City staff.

RIGHT OF ENTRY: By signing this application the applicant grants unto the City and it's agents the right to enter upon the premises for purpose of conducting all necessary inspection to determine compliance with applicable laws, codes, and regulations. This right of entry shall continue until a certificate of occupancy is issued for the property.

Signature of Property Owner: _____

Date: _____

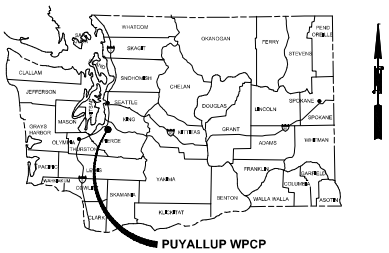
Signature of Agent: _____

Date: 6/27/2023

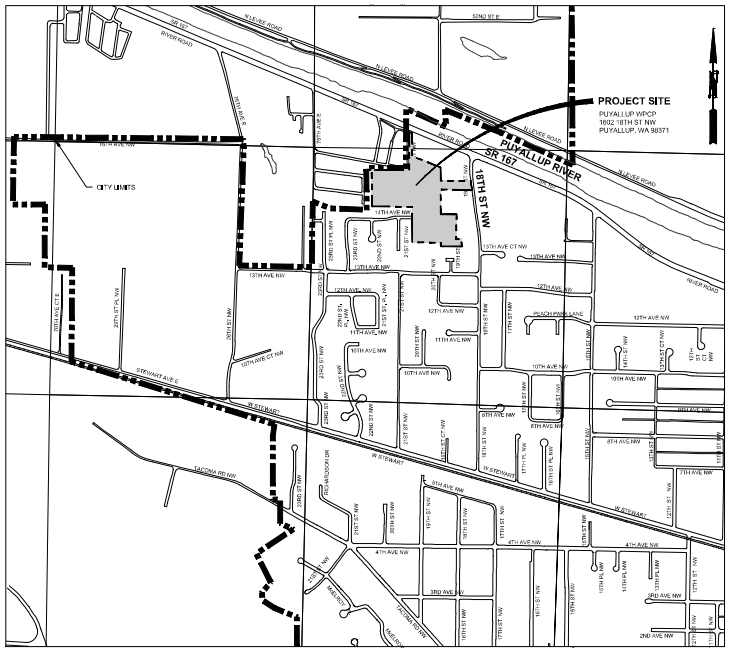
I declare under penalty of perjury of the laws of the State of Washington that the foregoing is true and correct.

Dated: July 27 in 2023, Washington.

_____



VICINITY MAP
NOT TO SCALE



LOCATION MAP
SCALE: 1"=500'-0"

SHEET INDEX

DRAWING NO. SHEET NO. DESCRIPTION

GENERAL		
--	--	COVER
G-1	1	VICINITY MAP, LOCATION MAP AND SHEET INDEX
G-2	2	PLANT DESIGN CRITERIA
G-3	3	ABBREVIATIONS, GENERAL SYMBOLS, SYMBOL LEGEND, NUMBERING SYSTEM AND GENERAL NOTES
G-4	4	PROCESS FLOW DIAGRAM
G-5	5	HYDRAULIC PROFILE
G-6	6	EXISTING SITE PLAN, TESC PLAN AND SITE DEMOLITION PLAN
G-7	7	NEW SITE PLAN AND AREA IDENTIFICATION
G-8	8	SITE PIPING PLAN
G-9	9	PIPE PROFILES
GENERAL DETAILS		
GD-1	10	TESC NOTES AND DETAILS
GD-2	11	GENERAL DETAILS
GD-3	12	WASHWATER DETAILS
MECHANICAL		
M-1	13	ABBREVIATIONS, SYMBOLS AND EQUIPMENT IDENTIFICATIONS
M-2	14	PIPE DETAILS
M-3	15	MISCELLANEOUS DETAILS
M-4	16	MISCELLANEOUS DETAILS
M6-1	17	SECONDARY CLARIFIER SPLITTER BOX AND RAS/WAS PUMP STATION PLAN
M6-2	18	SECONDARY CLARIFIER SPLITTER BOX AND RAS/WAS PUMP STATION SECTIONS
M6-3	19	SECONDARY CLARIFIER SPLITTER BOX AND RAS/WAS PUMP STATION SECTIONS AND DETAILS
M7-1	20	SECONDARY CLARIFIER NO. 3 PLAN
M7-2	21	SECONDARY CLARIFIER NO. 3 SECTIONS
M7-3	22	SECONDARY CLARIFIER NO. 3 SECTIONS AND DETAILS
M7-4	23	EXISTING EFFLUENT FLOWMETER MANHOLE DEMOLITION PLAN
M7-5	24	SECONDARY CLARIFIER NO. 3 SCUM PUMP STATION
M8-1	25	EFFLUENT FLOW METER PLAN AND SECTION
ARCHITECTURAL		
A6-1	26	RAS/WAS PUMP STATION NOTES, DETAILS, AND PLANS
HVAC		
H6-1	27	NOTES AND ABBREVIATIONS
H6-2	28	EQUIPMENT SCHEDULES
H6-3	29	DEMOLITION AND PROPOSED PLANS
PLUMBING		
P6-1	30	PLUMBING NOTES, LEGEND AND DETAILS
P6-2	31	SECONDARY SPLITTER BOX AND RAS/WAS PUMP STATION PLAN AND DETAILS
STRUCTURAL		
S-1	32	GENERAL STRUCTURAL NOTES
S-2	33	SPECIAL INSPECTION SCHEDULE, SUPPLEMENTAL STRUCTURAL ABBREVIATIONS, STRUCTURAL LEGEND AND TYPICAL DETAILS
S-3	34	TYPICAL STRUCTURAL DETAILS
S7-1	35	SECONDARY CLARIFIER NO. 3 TEMPORARY SHORING/GROUND FREEZE PLAN
S7-2	36	SECONDARY CLARIFIER NO. 3 FOUNDATION PLAN AND DETAIL
S7-3	37	SECONDARY CLARIFIER NO. 3 UPPER PLAN
S7-4	38	SECONDARY CLARIFIER NO. 3 SECTION AND DETAILS
ELECTRICAL		
E-1	39	SYMBOL SCHEDULE AND GENERAL NOTES
E-2	40	MCC ELEVATIONS AND SCHEDULES
E-3	41	EXISTING VFD ELVDS
E-4	42	ONE LINE DIAGRAMS AND ELVDS.
E-5	43	PLC CONTROL SYSTEM MODIFICATIONS
E-6	44	ELECTRICAL DETAILS
E-7	45	SCUM PUMP CONTROL PANEL NO. 2 DETAILS
E6-1	46	DEMO AND MODIFIED RAS/WAS BUILDING - MAIN LEVEL
E6-2	47	EXIST MODIFIED RAS/WAS BUILDING - LOWER LEVEL
E7-1	48	ELECTRICAL PLAN CLARIFIER NO. 3
E7-2	49	ELECTRICAL PLAN EXISTING CLARIFIERS
E8-1	50	ELECTRICAL PLAN EFFLUENT FLOWMETER

APPROVED

BY: _____
CITY ENGINEER
CITY OF PUYALLUP
APPROVED
DATE: _____
EXPIRATION
DATE: _____

NOTE: This approval expires on the date shown. If construction has not started by expiration date, plans must be resubmitted for review and approval.

The City will not be responsible for errors and/or omissions on these plans.

Field conditions may dictate changes to these plans as determined by the City Engineer.

Gray & Osborne, Inc.
CONSULTING ENGINEERS
1130 RAINIER AVENUE SOUTH, SUITE 300
SEATTLE, WASHINGTON 98144
(206) 284-0860

CITY OF PUYALLUP
WATER POLLUTION CONTROL PLANT THIRD SECONDARY CLARIFIER CIP NO. 20-018
1602 18TH ST NW,
PUYALLUP, WA 98371

PRELIMINARY NOT FOR CONSTRUCTION

NO.	DATE	REVISION

ISSUED FOR:	90% DESIGN REVIEW
ISSUE DATE:	MAY 2023
APPROVED BY:	DAW
CHECKED BY:	KPS
DRAWN BY:	CRR
DESIGNER:	DAW
G & O JOB NO.:	21492.00
FILE:	G_MAPS-INDEX.DWG

TWO INCHES AT FULL SCALE, IF NOT, SCALE ACCORDINGLY

GENERAL

VICINITY MAP, LOCATION MAP AND SHEET INDEX

DRAWING: G-1 OF: 9
SHEET: 1 OF: 50

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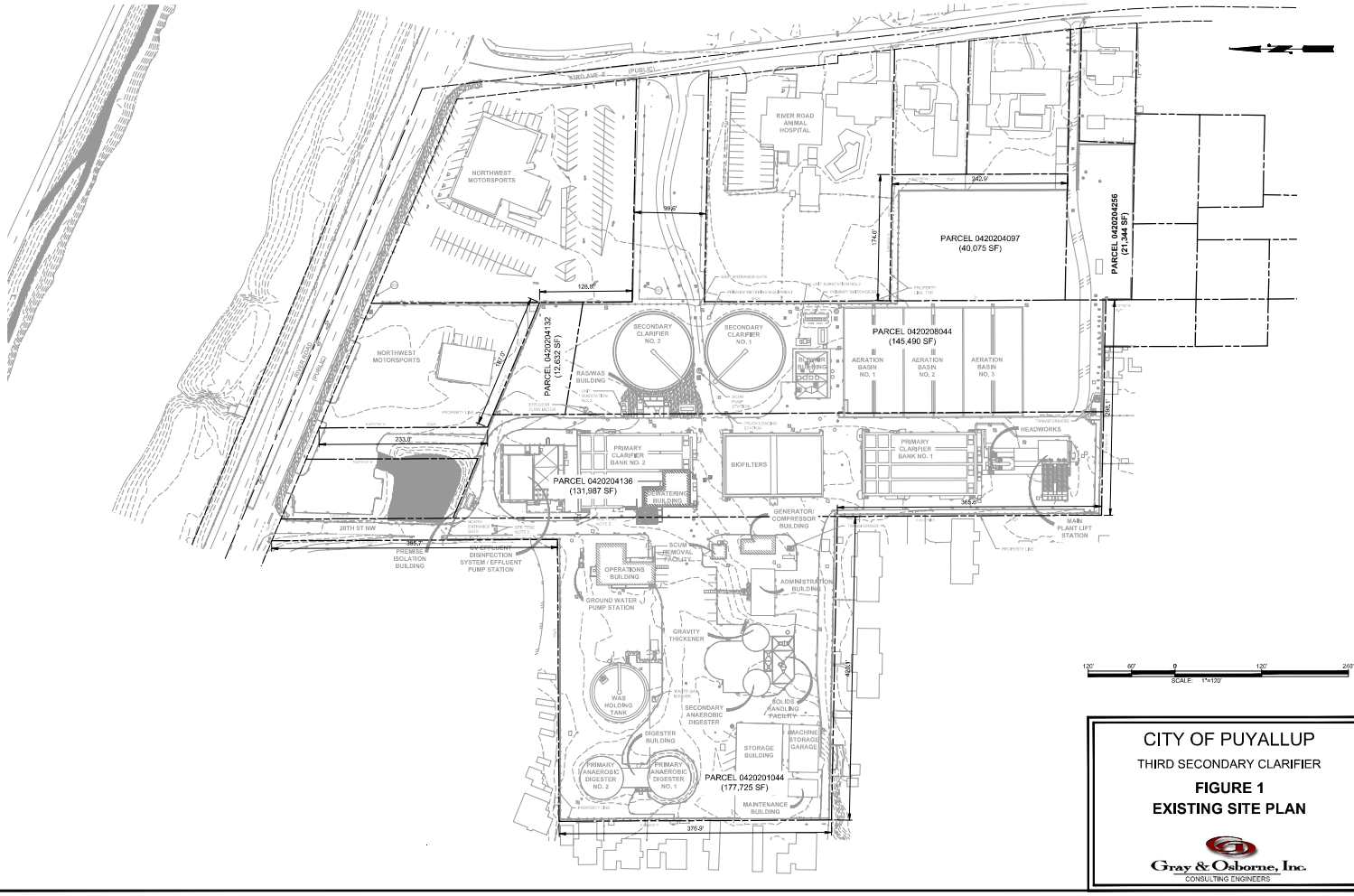

CITY OF PUYALLUP

THIRD SECONDARY CLARIFIER

FIGURE 1

EXISTING SITE PLAN

Gray & Osborne, Inc.
CONSULTING ENGINEERS

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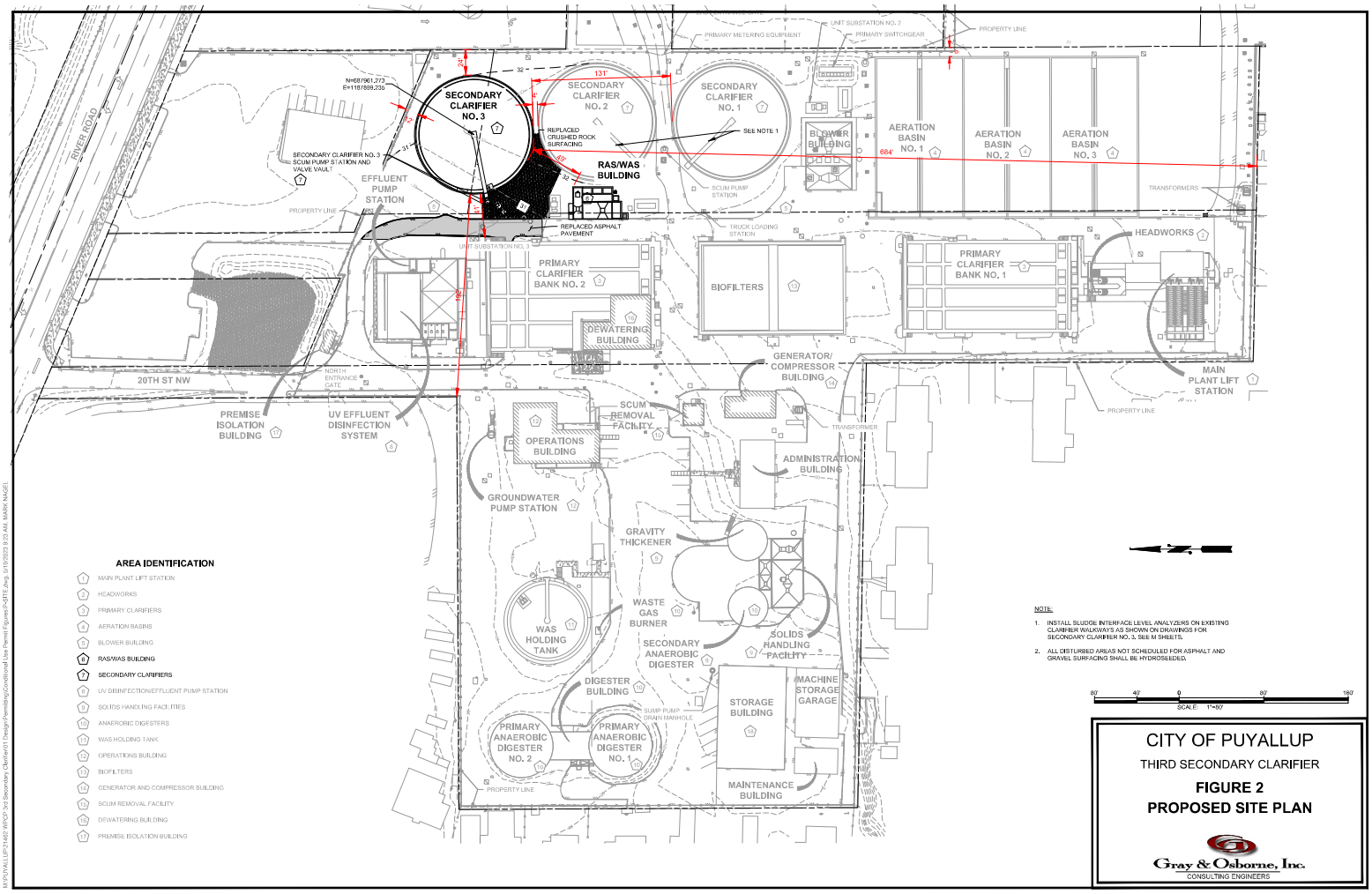

CITY OF PUYALLUP

THIRD SECONDARY CLARIFIER

FIGURE 2

PROPOSED SITE PLAN

Gray & Osborne, Inc.
CONSULTING ENGINEERS

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NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 10. The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Pierce County GIS, WA DNR, WSDOT, USFWS, Washington State Department of Ecology, and Puget Sound Regional Council. This information was compiled at scales of 1:1,200 to 1:24,000 during the time period 1996-2012.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

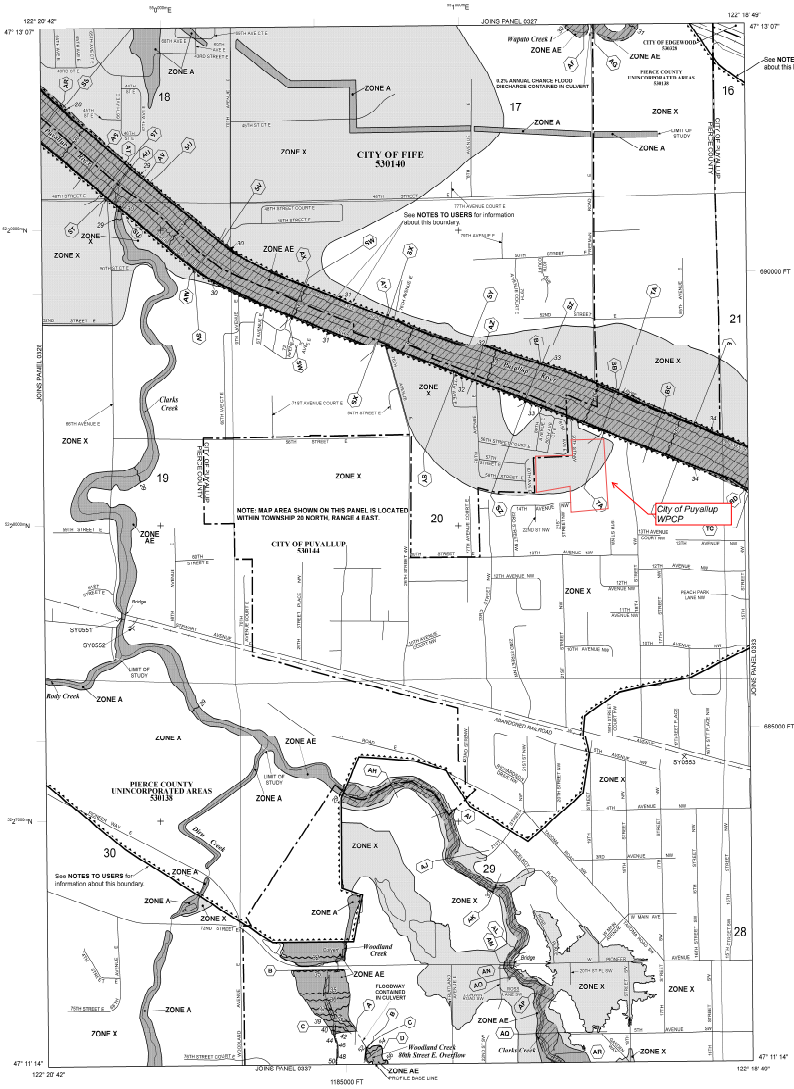
For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Tribal lands exist on this panel, but have not been shown.
These areas are present in the DFIRM database in the S_Pol_Ar table.

ATTENTION: The levee, dike, or other structure that impacts flood hazards inside this boundary has not been shown to comply with Section 65.10 of the NFIP Regulations. As such, this FIRM panel will be revised at a later date to update the flood hazard information associated with this structure.

*The flood hazard data inside this boundary on this FIRM panel has been republished from the previous effective (historic) FIRM for this area. After being converted from NGVD 29 to NAVD 88



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
	FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increase in flood heights.

	OTHER FLOOD AREAS
ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
	OTHER AREAS
ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.
	COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
	OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	0.2% Annual Chance Floodplain Boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	boundary dividing special flood hazard area zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	base f1000 elevation value where uniform within zone; elevation in feet*

*REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988

A / A	Cross section line
23 / 23	Transect line
	Flume
	Weir
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4930000 mN	1000-meter Universal Transverse Mercator grid values, zone 10
5000 m	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.0	River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
March 7, 2017

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'
500 0 500 1000
FEET
METERS

NFIP
PANEL 0329E

FIRM
FLOOD INSURANCE RATE MAP
PIERCE COUNTY, WASHINGTON AND INCORPORATED AREAS

PANEL 329 OF 1375
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
EDGEWOOD, CITY OF	530328	0329	E
FIFE, CITY OF	530140	0329	E
PIERCE COUNTY	530139	0329	E
PUYALLUP, CITY OF	530144	0329	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
53053C0329E
EFFECTIVE DATE
MARCH 7, 2017

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM