SEPA Submittal Packet

Project	SR 506 Property Rezone to Mineral Lands
Applicant	Richard P Smith, Precision Paving LLC PO Box 1000, Battle Ground, WA 98604
Project site	Parcels 012523002000 & 012509002002 SR 506, Lewis County
Submitted to	Lewis County Community Development Department / July 18, 2019

SEPA Submittal Packet Contents

1. **Revised SEPA Checklist**
2. **Supporting Documentation**
   - **2a/** Geotechnical Inspection Report
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Revised SEPA Checklist

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

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

Instructions for applicants:

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

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

Instructions for Lead Agencies:

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

Use of checklist for nonproject proposals:

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

A. Background [HELP]

1. Name of proposed project, if applicable:
SR 506 Property Rezone to Mineral Lands

2. Name of applicant:
Richard P Smith, Precision Paving LLC

3. Address and phone number of applicant and contact person:
Richard P Smith
PO Box 1000, Battle Ground, WA 98604

4. Date checklist prepared:
06/28/2019

5. Agency requesting checklist:
Lewis County Community Development Department

6. Proposed timing or schedule (including phasing, if applicable):
Rezone to occur as part of 2019 Comprehensive Plan Amendment process

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
The purpose of rezoning the site to Mineral Resource Lands is to eventually establish a sand and gravel mine. ,

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
Wetland Report prepared by Environmental Design, LLC
Field Reports by Pacific Testing and Inspection, Inc
Channel Migration and Avulsion Study prepared by Insight Geologic, Inc.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.
There are no known applications that are pending for government approvals directly affecting these properties

10. List any government approvals or permits that will be needed for your proposal, if known.
Approval of Map Amendment by Lewis County Planning Commission, Board of County Commissioners

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 proposal is for an amendment to the Lewis County zoning map to rezone these two parcels from Agricultural Resource Land to Mineral Resource Lands.

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.

1.2 miles west of I-5 on State Route 506 on the south side of State Route 506

Lewis County Parcel Numbers: 01252300200 (32.65 acres) and 012509002002 (34.05 acres)

Section 27, Township 111N, Range 02W, see Figure 1

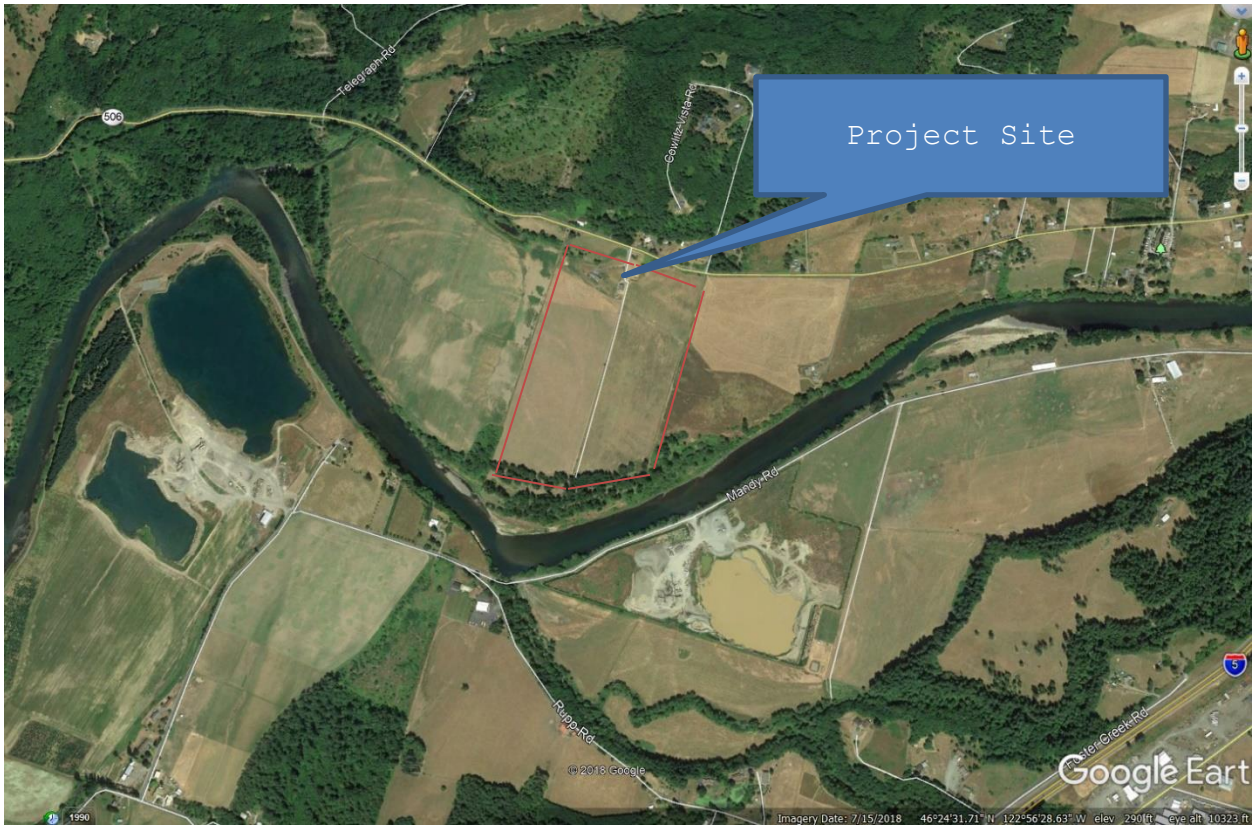

Figure 1 – Project Site

B. Environmental Elements [HELP]

1. *Earth* [help]

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 slope is generally less than 2% (see Figure 2), other than areas indicated on Figure 3 on the far southern edge of the property.

Figure 2- 10′ contours

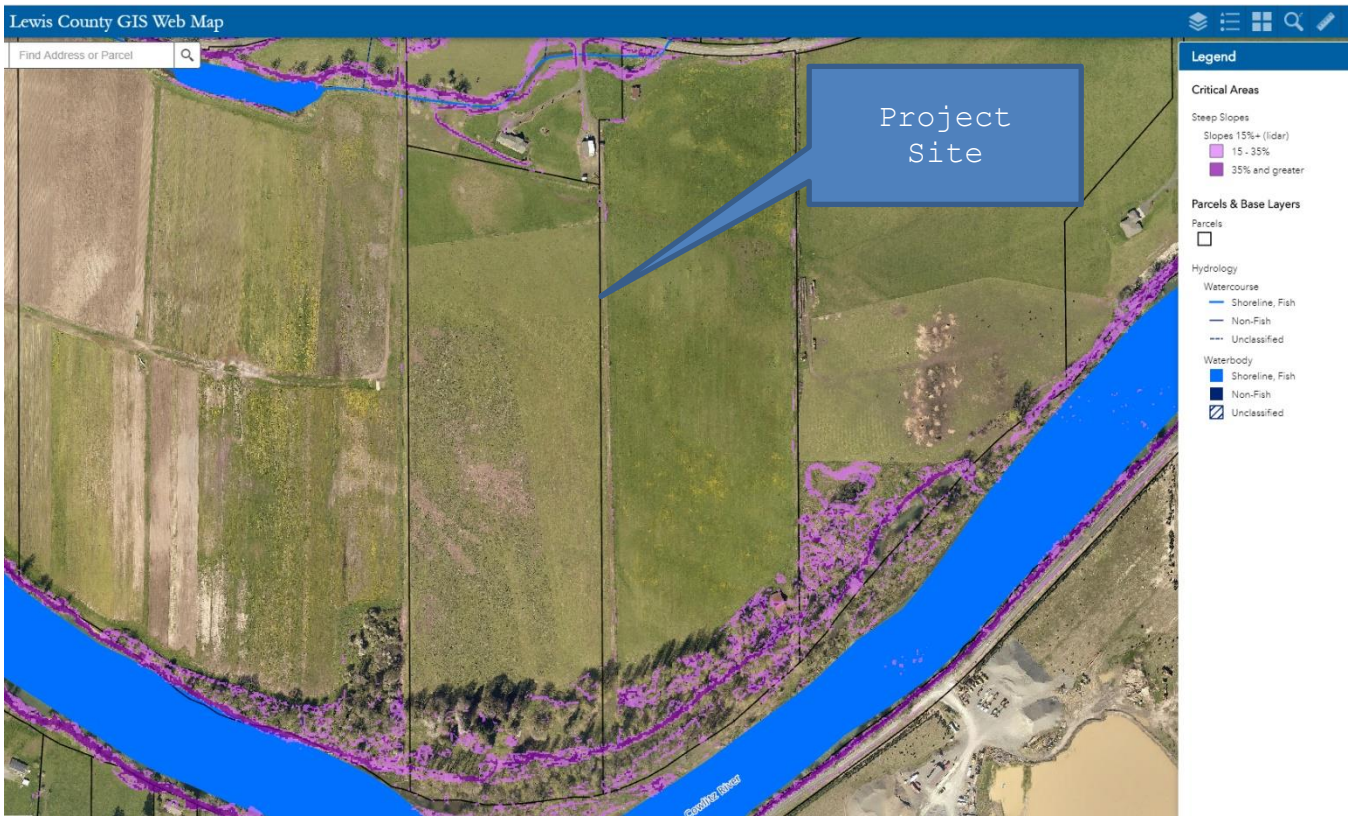

Figure 3- Steep Slopes - 15-35% and 35% or greater

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. **(see Table 1 and Figure 3).**

Table 1: Soils

Map Unit	Name	Farmland Class	Drainage Class
123	Ledow sand	Prime farmland if protected from flooding or not frequently flooded during the growing season	Somewhat excessively drained
148	Newberg fine sandy loam	All areas are prime farmland	Well drained
180	Riverwash	Not prime farmland	

Figure 4 – Lewis County Soils Map

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

None known, although upslope across SR506 from the two parcels are areas mapped as Erosion Hazard Areas (See Figure 5).

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. A future permit and SEPA checklist will be completed for the mining activities. Qualified professional studies show that significant quantities of mineral resources are present on the property up to 50-feet below ground surface and 40 to 45 feet below the

anticipated water table. When calculating quantities on the 58 acres most likely to be used for sand and gravel mining, current estimates are that between 1.5 million and 2.5 million cubic yards of raw material is commercially viable on the site, which represents a the total value of $9.2 to $15.4 million in raw material sales.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
According to the *Channel Migration and Avulsion Study* prepared by Insight Geological "the site is located on an inside bend of the river channel, an area of sediment deposition rather than erosion. No meanders are visible in the river channel upstream of the site for two miles that would potentially migrate into mining operation causing avulsion. Moderate or severe flooding events may cause inconvenience or damage to equipment at the operation in not properly positioned or moved."

The probability of erosion is slight during the clearing, construction or use. BMP proposed at the time of project permitting will adhere to the Lewis County Erosion Control Standard.

The two parcels are outside of the mapped Erosion Hazard Areas (See Figure 5).

Figure 5 – Erosion Hazard Map

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?
Less than 10% of the site is expected to be covered by impervious surfaces. The exact amount will be calculated at the time of permitting.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
This proposal is for a zoning change from Agricultural Resource Lands to Mineral Resource Lands. If the rezone proposal is approved, future mining operations will go through a permitting process that will specify BMP to reduce or control erosion. This may include:

- **Sediment Control Fencing along the property boundary**
- **Gravel construction entrance**
- **Daily Street Sweep**
- **Sediment traps in draiange structures**
- **Dust Control**

- **Silt Socks**

2. Air [help]

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

This proposal is for a zoning change from Agricultural Resource Lands to Mineral Resource Lands. If the rezone proposal is approved, future mining operations will go through a permitting process that will specify measures to control emissions. Possible impacts on local air quality from the future of the proposed development include: fugitive dust (particulate) emissions from land clearing operations; and mobile source emissions.

Dust emissions could occur from land clearing, excavation, hauling, dumping, spreading, grading, compaction, wind erosion, and traffic over unpaved areas. Actual quantities of emissions depend on the extent and nature of the land clearing operations, the type of equipment employed, the physical characteristics of the underlying soil, the speed at which construction vehicles are operated, and the type of fugitive dust control methods employed. Much of the dust generated by construction activities consists of relatively large-size particles, which are expected to settle within a short distance from the construction site and to not significantly impact nearby properties.

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

There are no known off-site sources of emissions or odor that may affect the project.

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

This proposal is for a zoning change from Agricultural Resource Lands to Mineral Resource Lands. If the rezone proposal is approved, future mining operations will go through a permitting process that will specify measures to reduce or control erosion. These BMPS may include:

- **Construction requiring temporary street closings would be performed during off-peak hours**
- **Idling of delivery trucks or other equipment would not be permitted during unloading or other inactive times.**
- **All appropriate dust control measures including watering of exposed areas and dust covers for trucks would be employed during construction of the proposed development.**

3. Water [help]

a. Surface Water: [help]

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 Cowlitz River is adjacent to the southern portion of both parcels (see Figure 4) See Wetland Delineation Report.

Figure 6 – Surface Water body may from Lewis County

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

This proposal is for a zoning change from Agricultural Resource Lands to Mineral Resource Lands. If the rezone proposal is approved, future mining operations will go through a permitting process that will specify measures to reduce or control erosion. No work is expected to occur in or adjacent (within 200-feet) to the Cowlitz 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.

This proposal is for a zoning change from Agricultural Resource Lands to Mineral Resource Lands. If the rezone proposal is approved, future mining operations will go through a permitting process that will specify amount of dredge material. Current estimates are that between 1.5 million and 2.5 million cubic yards of raw material is commercially viable on the site.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. A future permit and corresponding SEPA checklist will be completed for the mining activities. The proposed future mining use is not expected to require surface water withdrawals or diversions.

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

Both parcels are within the 100-year floodplain (see Figure 7).

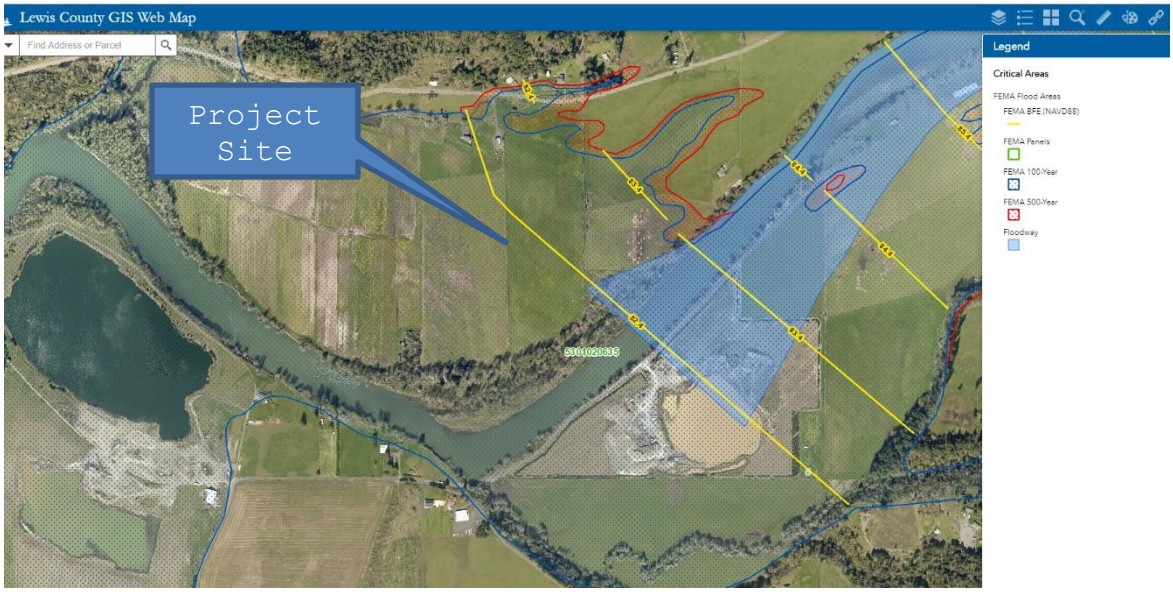

Figure 7 – FMEA Flood Areas from Lewis County Database

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.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. A future permit and corresponding SEPA checklist will be completed for the mining activities.

b. Ground Water: [help]

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.

There is an existing well which may be used for drinking water for the future development.

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.

There are no septic tanks proposed, therefore no discharge into groundwater will occur.

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.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. A future permit and corresponding SEPA checklist will be completed for the mining activities, including a SWPPP prepared according to Lewis County Stormwater Management Code (Chapter 15.45).

2) Could waste materials enter ground or surface waters? If so, generally describe.
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and corresponding SEPA checklist will be completed to prevent waste materials from entering ground water and to treat stormwater to filter out contaminants prior to infiltration. No impacts are anticipated.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed to address affect drainage patterns in the vicinity of the site. No impacts are anticipated.

4) Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses measures to collect, convey, treat, and infiltrate all stormwater runoff generated by the proposed development. No impacts are anticipated.

4. Plants [help]

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

__X__deciduous tree: alder, maple, aspen, other
__X__evergreen tree: fir, cedar, pine, other
__X__shrubs
____grass
__X__pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
____water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

b. What kind and amount of vegetation will be removed or altered?
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses the extent of clearing.

c. List threatened and endangered species known to be on or near the site.
No known threatened or endangered plant species are onsite.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and corresponding SEPA checklist will be completed that addresses vegetation.

e. List all noxious weeds and invasive species known to be on or near the site.
No noxious weeds or invasive species are known to be present on or near the site.

5. Animals [help]

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

Examples include:

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

b. List any threatened and endangered species known to be on or near the site.
According to SalmonScape the following are known to be near the project area:
Lower Columbia River Chinook Salmon
Lower Columbia River Coho Salmon

c. Is the site part of a migration route? If so, explain.
According to IPaC (U.S. Fish and Wildlife Service's (USFWS)) database, species of conservation note include the Bald Eagle (Haliaeetus leucocephalus), Great Blue Heron (Ardea herodias fannini), Olive-sided Flycatcher (Contopus cooperi), and Rufous Hummingbird (selasphorus rufus). Many species don't travel the entire flyway while migrating. Among those species using the Pacific Flyway, there are plenty of feeder birds, including: American Crow, American Goldfinch, American Robin, American Tree Sparrow, Band-tailed Pigeon, Black-chinned Hummingbird, Bohemian Waxwing, Brewer's Blackbird, Brown-headed Cowbird, Cassin's Finch, Cedar Waxwing, Chipping Sparrow, Common Redpoll, Dark-eyed Junco, Evening Grosbeak, Fox Sparrow, Golden-crowned sparrow, Hermit Thrush, Hoary Redpoll, Lesser Goldfinch, Northern Flicker, Pine Siskin, Purple Finch, Red-breasted Nuthatch, Red-winged Blackbird, Ruby-crawned Kinglet, Rufous Hummingbird, Song Sparrow, Varied Thrush, Western Meadowlark, White-crowned Sparrow, and Yellow-rumped Warbler

d. Proposed measures to preserve or enhance wildlife, if any:
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. The future project is not anticipated to impact any threatened or endangered species.

e. List any invasive animal species known to be on or near the site.
None known

6. Energy and Natural Resources [help]

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. The future use may have a construction trailer with electric power.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. The future use is not expected to impact any potential use of solar on adjacent properties.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses measures to conserve energy.

7. Environmental Health [help]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses potential environmental health hazards.

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

This site was used for agricultural purposes and may have fertilizers and other agricultural-based chemicals in the soils. There are no known contaminations.

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.

According to What's in My Neighborhood there are no listed sites within 1 miles of the project area which might affect the project development of design (see Figure 8)

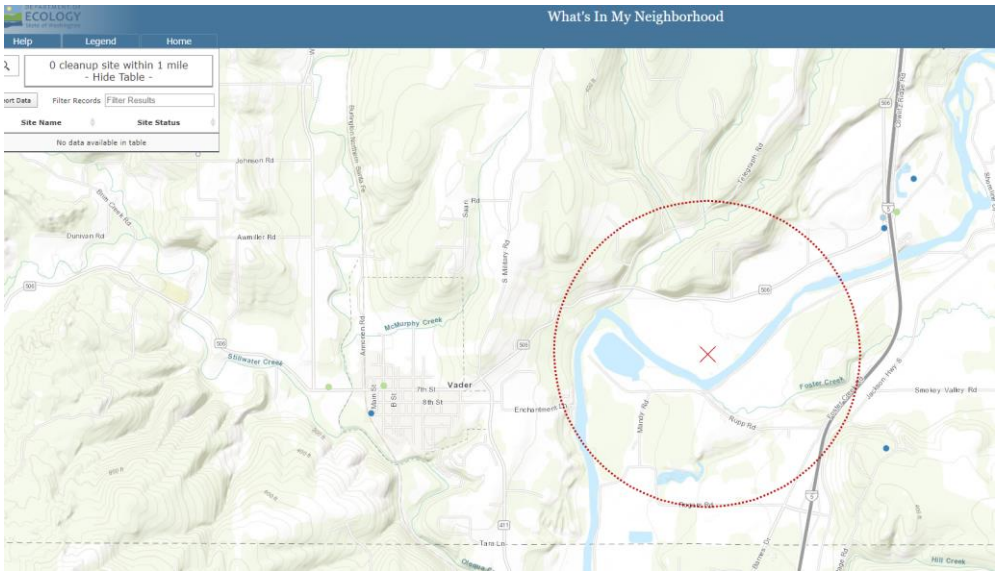

Figure 8 – Clean-up Site Map

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.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses potential toxic or hazardous chemicals.

4) Describe special emergency services that might be required.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses special emergency services.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses BMP to control these hazards.

b. Noise

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

There are two Sand & Gravel mines within 1,500-feet of the proposed future use project. The operation of those are not anticipated to affect the future use of the site as a sand and gravel mine.

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.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses types and levels of noise. It is anticipated that noises on the site will be similar to those found at the two Sand and Gravel mines within 1,500-feet of the project.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses noise control measures, but these may include:

- **Quieter Equipment • Modifying Existing Old Equipment • Barrier Protection • Maintenance**
- **Noise Perimeter Zones • Work Activity Scheduling**

8. Land and Shoreline Use [help]

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

The current use is pastureland. The properties to the west and east are pastureland. The properties to the north are residential properties. The properties to the south across the Cowlitz River are a mix of pastureland and sand and gravel mining.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

The site has been used as pastureland, perhaps for hay production. The proposal to amend the zoning map from Agricultural Resource Lands to Mineral Resource Lands is for a total of 58 acres.

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:

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. The future sand and gravel use is not expected to affect or be affected by surrounding working farm or forest land normal business operations.

c. Describe any structures on the site.

Currently there is a Pole Barn on the site. No other structures are present.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. The future mineral resources use is not expected to require the demolition of any structures.

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

The current zoning designation is Agricultural Resources Lands

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

Agricultural Resources Lands

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

The Shoreline designation of a portion of both parcels is Rural/Urban Conservancy (See Figure 9).

Figure 9 – Shoreline Environments – Lewis County

i. Has any part of the site been classified as a critical area by the city or county? If so, specify.
Portions of both parcels have been classified as having: wetlands, within the 100 & 500-year floodplain, Steep Slopes (southern boundary), Shoreline environment, required stream buffers, critical aquifer recharge area and liquefaction susceptibility. (see Figures 10 and 11)

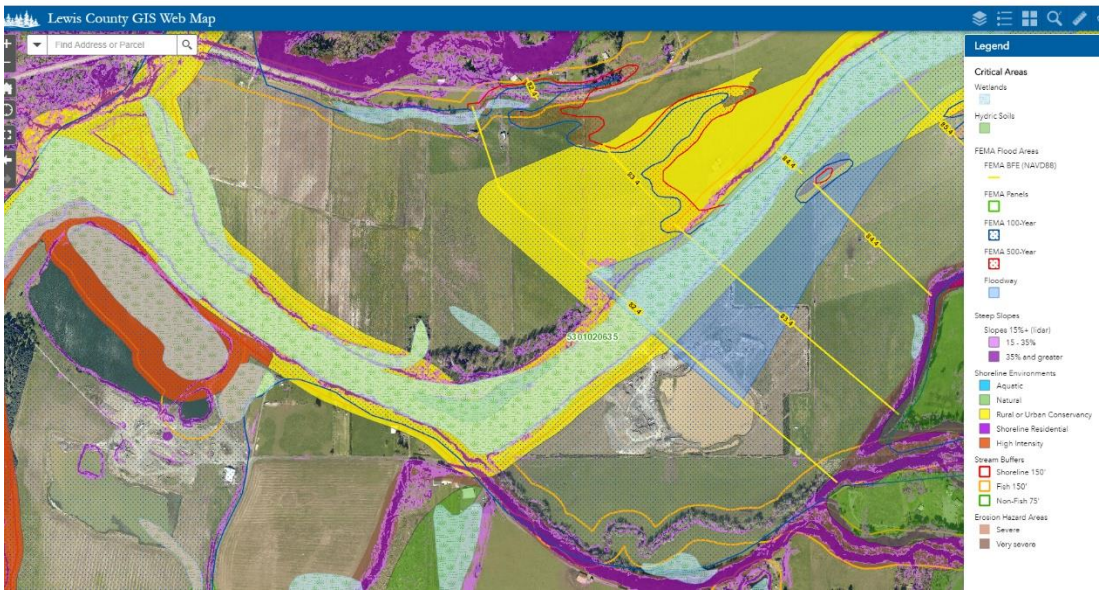

Figure 10 Critical Areas Mapping Lewis County

Figure 11 – Critical Areas Mapping Lewis County

i. Approximately how many people would reside or work in the completed project?
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses employment. It is anticipated that 4 to 10 people will work at the future mineral resources project.

j. Approximately how many people would the completed project displace?
This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. There are no residents at the site and therefore no people will be displaced for future sand and gravel operations.

j. Proposed measures to avoid or reduce displacement impacts, if any:
No proposed measures are recommended as there is no displacement impacts.

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
The future use is within 2,500-feet of the same type of industry (see Figure 12). Therefore, this is a compatible use with the existing land uses in the area.

Figure 12 – Sand and Gravel Sites

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

No measures are proposed to reduce or control impacts to agriculture and forest lands of long-term significance.

9. Housing [help]

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. No housing units are proposed for the future mineral resource lands use.

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

No units would be eliminated for future use

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

No impacts anticipated

10. Aesthetics [help]

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses aesthetics.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses views.

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

There are no proposed measures at this time for the future use to reduce or control aesthetic impacts.

11. Light and Glare [help]

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

There is no anticipated light glare from the rezone proposal.

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

There is no anticipated light glare from the rezone proposal.

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

There are no known existing off-site sources of light or glare that may affect the future mineral resource lands use.

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

There is no anticipated light glare from the rezone proposal.

12. Recreation [help]

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

Boating and fishing in the Cowlitz River

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses recreation uses. The use of the property as mineral resource lands is not expected to displace any existing recreational uses.

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

None.

13. Historic and cultural preservation [help]

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

According to the Washington Information System for Architectural and Archaeological Records data (WISAARD) online mapping system, there are no site determined eligible for listing on or near the site (see Figure 13).

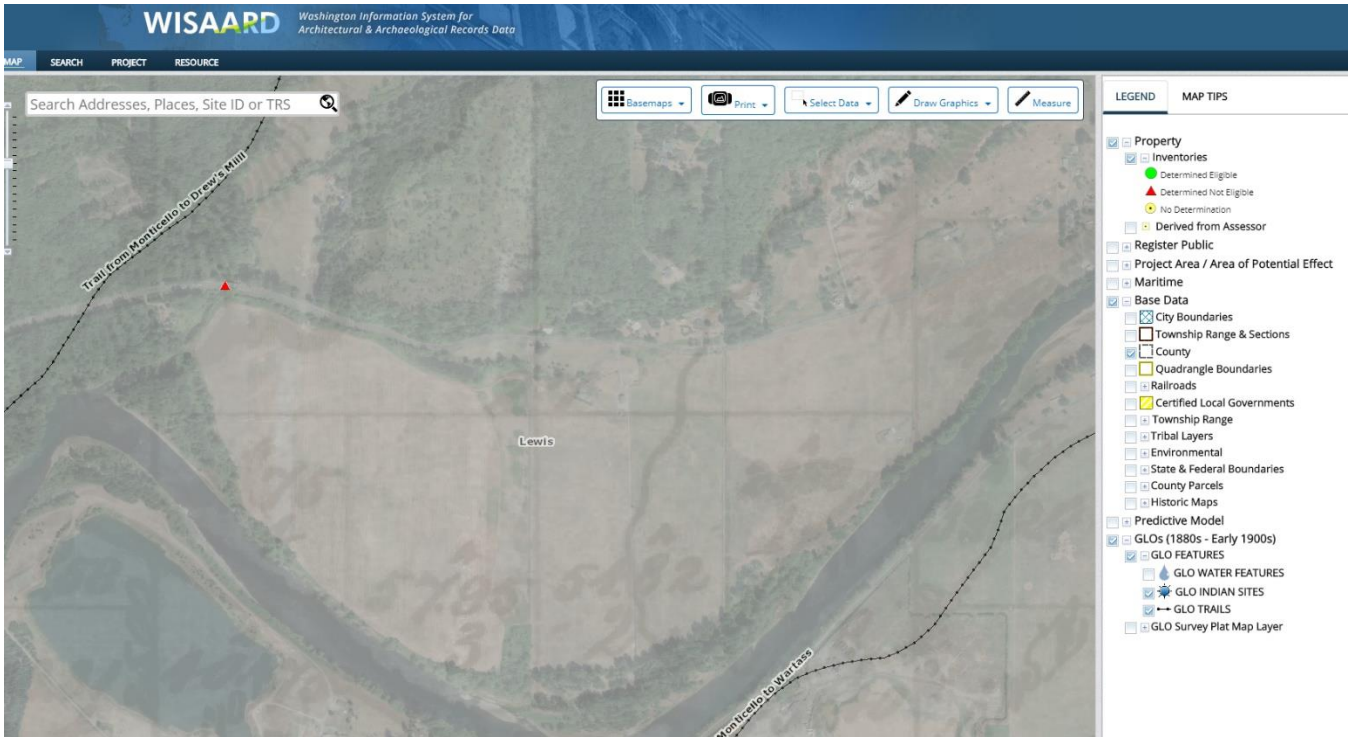

Figure 13 – WISAARD Database

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 two historic trails mapped, although not in the project area (see Figure 13). According to WISAARD the project area is located in an area at "very high risk" for having archeological resources (see Figure 14).

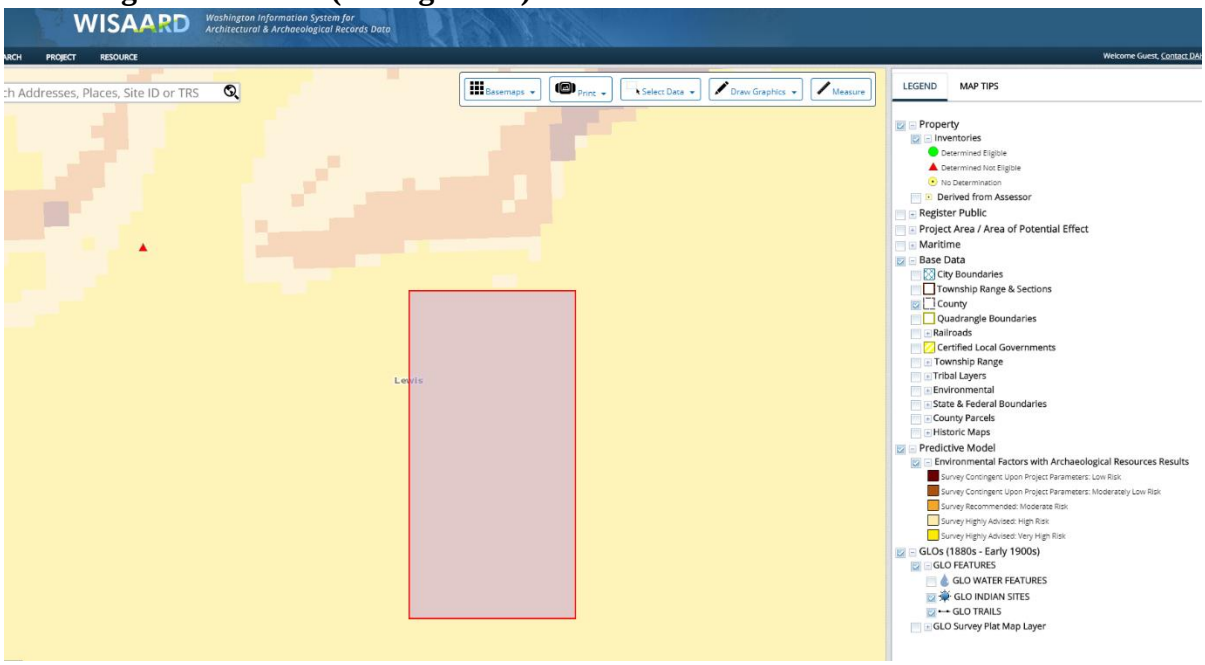

Figure 14 – WISAARD Database- Predictive Model

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 Washington Information System for Architectural and Archaeological Records data (WISAARD) online mapping system was used to determine the potential impacts to cultural and historic resources on or near the project site.

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.

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses Cultural Resources. A report will likely be needed prior to beginning construction of the mineral resource lands project to ascertain if there are cultural resources on the project site and what mitigation will be needed (if any).

14. Transportation [help]

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses transportation impacts to SR 506 and I-5.

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?

There is no known public transportation service currently serving the site.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses parking needs. Based on other mining operations, it is anticipated that 10 to 15 parking spaces for work vehicles would be needed.

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).

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses improvements to the existing roads, streets, pedestrian, bicycle or state transportation facilities.

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

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses tranportation. The site is not adjacent to any rail line or airport. The subject parcel is adjacent to the Cowlitz River but no transportation using the river is anticipated.

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?

This proposal is for a zoning map amendment to change the properties from Agricultural Resource Lands to Mineral Resource Lands. Future permits and a corresponding SEPA checklist will be completed that addresses project trip generation.

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 future mineral lands use is not expected to interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area

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

Future project permits and a corresponding SEPA checklist will be completed that addresses any necessary transportation mitigation measures.

15. Public Services [help]

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

The project would result in an increased need for public services (for example: fire protection, police protection, public transit, health care).

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

There are no planned measures as part of this project

16. Utilities [help]

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

e. 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.

Future permits and a corresponding SEPA checklist will be completed that addresses utility needs.

C. Signature [HELP]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:

Name of signee Richard P. Smith

Position and Agency/Organization _____

Date Submitted: July 18, 2019

D. Supplemental sheet for nonproject actions [HELP]

(**IT IS NOT NECESSARY** to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. Future project permits and a corresponding SEPA checklist will be completed that addresses any necessary mitigation measures.

Proposed measures to avoid or reduce such increases are:

Future project permits and a corresponding SEPA checklist will be completed that addresses any necessary mitigation measures.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. Future project permits and a corresponding SEPA checklist will be completed that addresses any necessary mitigation measures.

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

Future project permits and a corresponding SEPA checklist will be completed that addresses any necessary mitigation measures.

3. How would the proposal be likely to deplete energy or natural resources?

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. If the rezone is approved, naturally occurring mineral resources are expected to be removed from the site. Initial professional studies from Insight Geologic show that significant quantities of mineral resources are present on the property up to 50-feet below ground surface and 40 to 45 feet below the anticipated water table. Current estimates are that between 1.5 million and 2.5 million cubic yards of raw material is commercially viable on the site.

Proposed measures to protect or conserve energy and natural resources are:

Future project permits and a corresponding SEPA checklist will be completed that addresses protection measures.

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. Future project permits and a corresponding SEPA checklist will be completed for mineral extraction operations and will use best management practices to ensure regulatory compliance. A SWPPP will be prepared for the future use project to address any potential stormwater and contaminant issues.

Proposed measures to protect such resources or to avoid or reduce impacts are:

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. The future use will be subject to the regulations by the Critical Areas Ordinance and Environmental Review by the appropriate jurisdiction.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. Any future proposed activities will be addressed in a master plan to ensure compatibility with existing plans and uses. There are similar uses within 1,500-feet of the project area. The future use project will meet the Shoreline standards.

Proposed measures to avoid or reduce shoreline and land use impacts are:

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. The future use project will avoid or reduce the impact to the shoreline where practicable and will follow Lewis County's shoreline management plan.

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

The proposal is for a Map Amendment from Agricultural Resource Lands to Mineral Resources Lands. Currently no public transportation is available to the site and rezoning the property will not trigger sufficient uses that warrant public transit. Power and water are available at the site.

Proposed measures to reduce or respond to such demand(s) are:

None proposed.

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

The proposal will not conflict with local, state, or federal laws for the protection of the environment.