

APPENDIX A

SEPA ENVIRONMENTAL 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:

Skamania Quarry

2. Name of applicant:

J.L. Storedahl and Sons, Inc.

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

**Contact: Bo Storedahl
2233 Talley Way, Kelso, WA 98626
(360) 636-2420**

4. Date checklist prepared:

August 13, 2021

5. Agency requesting checklist:

Skamania County Community Development Office

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

Start 2021, pending approvals. Anticipated life of project approximately 30 to 40 years depending on market demand.

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

No

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

**DKS, Transportation Impact Study, dated February 19, 2020
BRC Acoustics, Sound Analysis, dated September 9, 2020
NV5, Geotechnical Assessment, 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.

No

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

**Conditional Use Permit – Skamania County
Surface Mine Reclamation Permit – Washington Department of Natural Resources (DNR)
Sand and Gravel General Permit – Washington Department of Ecology (DOE)
Air Discharge Permit for Rock Crusher – Southwest Clean Air Agency (SWCAA)**

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.)

Establishing a surface mining operation for the production and processing of aggregate resources (see Figure 5) including drilling, blasting, loading, hauling, crushing, screening, stockpiling, and commercial sales of crushed aggregate. The project will include a small operations and storage area, as well as the improvement and maintenance of an access road along the BPA corridor to the southwest (see Figure 2). The total permit area will be 273.6 acres. Surface mining will be divided into two segments: mine segment 1, at the north end of the site, with an approximate area of 140.4 acres, and mine segment 2, with an approximate area of 8.8 acres. Per guidelines established by the DNR, the mine segments will be mined in sequence - with reclamation, replacement of topsoil, and re-vegetation occurring as mining is completed in each segment. Topsoil from both areas will be stored in perimeter berms. Overburden and additional topsoil will be stockpiled in a graded area at the center of the site, the construction of which will involve cut and fill methods to achieve a level area. All mining disturbance will be reclaimed back to commercial forestry upon the completion of mining activities.

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.

Proposed permit boundary is located in the SW quarter of the SW quarter of Section 17; the SE quarter of the SE quarter of Section 18; NW, NE, SE, and SW quarters of the NE quarter of Section 19; the NW, NE, SE and SW quarters of the SE quarter of section 19; the SE quarter of the SW quarter of Section 19; the NE and SE quarters of the NW quarter of Section 30; and the NW and SW quarters of the NE quarter of Section 30; all located within Township 2 North and Range 6 East of the Willamette Meridian. See attached Figure 1.

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)?

Near vertical on natural bedrock exposures.

- 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.

The USDA Natural Resource Conservation Service (NRCS) has mapped soils within the permit area as composed of the Skoly Stony Loam , 2 to 15 percent slopes and Skoly Stony Loam, 30 to 65 percent slopes. A small area of Mountzion Clay Loam, 2 to 15 percent slopes is present at the southwest edge of the site. The current land use for the area is forestry, and these soil types are most suitable for that use. Mining on the site will require the removal of topsoil during operations, but topsoil will be stockpiled and returned to reclaimed areas after mining is complete.

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

An ancient, large, deep-seated landslide is mapped approximately 100 to 800 feet east of the proposed mine site associated with erosion along the Columbia River. The mechanism and bedrock conditions responsible for this massive landslide will not be altered or influenced by the proposed mining activity. A small, shallow failure is inferred with moderate confidence by the DNR on the western flank of proposed mine permit boundary (see Figures 3 through 5). A Geotechnical Assessment has been provided evaluating the landslide hazards mapped at the site. Based on the findings in the Assessment, the proposed project will not have an adverse impact to the geologically hazardous areas identified at the site.

- 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.

Three areas are proposed for segmented mining, operations and storage. The total area to be disturbed by mining operations is approximately 180 acres. The graded area comprising the stockpile and operations areas in the center of the site will include approximately 321,000 cubic yards of fill, and an approximate cut volume of 285,000 cubic yards. The balance of fill will come from overburden within the mining areas to expose resource materials for mining. Overall, approximately 24 million cubic yards of material will be excavated from the mining areas. Overburden and non-resource rock materials will be placed in depleted portions of the mine excavations as mining progresses. Once mining operations are completed for a segment, overburden and topsoil will be re-distributed over the reclaimed area. Further details of cut and fill operations are provided in the attached Figures 5 and 6.

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

Yes, there is potential for erosion of soils to occur through removal of topsoil and placement of fill in the mine disturbance areas.

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

None – the site will be reclaimed to commercial forest at the completion of mining.

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

The mine segments will be excavated downward into the bedrock ridge and sloped inward, preventing stormwater runoff from leaving the mined excavations. The interpreted shallow landslide on the western edge of the permit area will be avoided, and the closest earthwork activity to this feature will consist of cutting material away for the storage area, so no surcharge loads will be placed that may affect stability. Stormwater control will prevent runoff from leaving the disturbance area. Long-term stockpiles of overburden, topsoil, and perimeter berms will be vegetated for erosion control.

Stormwater control measures and Best Management Practices (BMPs) to prevent potential erosion of soils will be included in the required DNR Reclamation Permit and DOE Sand and Gravel General Permit for the site.

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.

Emissions from equipment operating on site (i.e. dozers, loaders, haul trucks) will occur during operating hours; no emissions will occur at the completion of the project. Dust could potentially be released as part of mining operations and transport of materials out of the mine site.

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

No

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

Operating equipment will be equipped with requisite mufflers and emission control exhaust systems to meet existing state and federal regulatory standards. Protocols for dust control, including use of a water truck to wet work surfaces and haul roads and use of fog nozzles on the crushing equipment, will be established for the site as part of the DOE Sand and Gravel General Permit and SWCAA air permit.

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.

McCloskey Creek, a perennial stream, runs at the base of the slope west of the proposed permit area. According to the National Wetland Inventory, a freshwater-forested shrub wetland occupies a portion of the valley containing McCloskey Creek west of the proposed permit area. Hamilton Creek, a perennial stream, and a small marsh along its channel are located northeast of the proposed permit boundary. A seasonal stream, Indian Mary Creek, runs east of the proposed permitted area. An unnamed seasonal stream's headwaters are mapped south of the proposed permit area. All mapped streams are more than 100 feet, and wetlands are more than 300 feet, from the proposed

limits of excavation for the project. McCloskey Creek is a tributary of the Washougal River, and the other streams are tributaries of the Columbia River.

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

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.

Not applicable

- 4) Will the proposal require 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.

No

- 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.

No

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.

No groundwater will be withdrawn. Stormwater infiltration facilities will be designed to manage a 24-hour, 25-year storm event to infiltrate to groundwater.

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

No septic system is planned.

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.

Stormwater from areas disturbed by mining activities will be directed to infiltration basins within the mine excavation perimeter and designed for a 24hr. – 25yr. storm event. Prior to disturbance of the site a detailed description of stormwater control measures

and BMPs to prevent potential erosion of soils from leaving the site will be included in the DNR Reclamation Permit and DOE Sand and Gravel General Permit.

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

There will be no waste materials on site. Any potential sediment from runoff will be contained and/or prevented from leaving the disturbed areas of the site.

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

No

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

The only source of runoff on site will be stormwater. Stormwater will be collected in infiltration basins on site designed for a 24hr. – 25yr. storm event. Prior to disturbance of the site a detailed description of stormwater control measures and best management practices (BMP's) to prevent potential erosion of soils from leaving the site will be included in the DNR Reclamation Permit and DOE Sand and Gravel General Permit.

4. **Plants** [\[help\]](#)

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

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

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

The site was recently logged in accordance with approved forest practices. Remaining surface vegetation will be cleared in areas to be mined. The majority of surface vegetation consists of immature and recently replanted evergreen trees, underbrush and slash associated with recently logged areas, and lesser isolated stands of more mature timber.

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

None are known.

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

Reclaimed mining areas will be revegetated according to DNR reclamation standards and requirements for the prescribed subsequent use (commercial forestry).

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

None are known.

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.

Currently, the Washington Department of Fish and Wildlife lists the site as a buffer zone for spotted owl habitat. The majority of the proposed mine site was recently logged, and remaining trees are relatively young and would not likely provide habitat for spotted owls. As such, few (if any) areas within the site constitute prime habitat for the spotted owl.

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

Pacific flyway (including all of Washington State)

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

The site was recently logged in accordance with approved forest practices. Where practical, stands of relatively mature timber will be left undisturbed. Upon completion of mine segments, the area will be reclaimed in accordance with the reclamation plan (overseen by the DNR), topsoil re-distributed, and native species replanted in reclaimed areas. This will preserve and enhance wildlife by providing varied age classes of timber and edge effect for forage.

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

None are 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.

Petroleum products (diesel, gasoline) will power processing, excavation, and hauling equipment.

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

No

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

Not applicable

7. Environmental Health [\[help\]](#)

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

Accidental fuel or oil spills are possible from mine operations, but a DOE-approved Pollution Prevention and Spill Control Plan (SCP) will be followed and revised as necessary throughout the life of the project according to the site's Sand and Gravel General Permit requirements. Explosives are utilized to fracture the in-situ stone by licensed blasting subcontractors. Strict regulations and protocols are followed during these controlled blasts.

- 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.

None known.

- 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 will be used by mining equipment but will not be stored onsite. A mobile service truck will be used to service and fuel equipment. A detailed spill response plan will be integrated into the BMPs for the site in accordance with the DOE Sand and Gravel General Permit.

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

None are known

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

The SCP will remain in effect through project duration. BMPs will be employed on site to reduce the potential for accidental fuel or oil spills from occurring during equipment refueling. BMPs will also be used to quickly and completely clean up any spills consistent with the SCP and to remove any spill-contaminated materials to an approved disposal site.

b. Noise

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

None

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

Proposed hours of operation are 7:00 am to 4:30 pm. Noise will be generated by mine activities during operating hours, including material extraction, on site transportation by truck and conveyor, crushing, screening, and the loading out of trucks. Traffic noise from trucks entering and exiting the site will also contribute to project noise. Drilling and blasting of bedrock will generate noise on an infrequent basis on site. Employees may arrive approximately a half-hour before and stay for up to an hour after normal business hours to prepare for business and conduct closure and maintenance activities.

As part of permitting efforts for the site, a sound analysis was completed by BRC Acoustics. The study concluded that “sound levels...[will] meet State of Washington daytime and nighttime noise limits at all sound analysis locations.” Specific to traffic noise, the study found that “the calculated sound levels do not approach or exceed the Federal Highway Administration (FHWA) Abatement Criterion of 67 dBA at the sound analysis locations.” Further details are provided in the report, which is included as part of the larger submittal package for a Conditional Use Permit from Skamania County.

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

Requisite muffling devices will be maintained on all trucks and excavating equipment servicing the site. Blasting will be performed in accordance with state and federal regulations, which provide significant guidance for reducing and/or eliminating noise to nearby receptors. A minimum 50-foot vegetated buffer will be maintained along the entire perimeter of the project site.

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.

Current land use on the site is forestry. Areas adjacent to the site in nearly all directions are used for commercial forestry. An easement for BPA transmission lines and towers is located long a portion of the southern boundary. A few rural residences are located further southwest of the project area along Kellet Road. The Columbia River Gorge National Scenic Area is located south and east of the site.

Noise from the mine site and haul traffic to and from the site could affect the land use of adjacent properties. As part of this application, a Sound Analysis and Transportation Impact Study have been completed to quantify these impacts and evaluate if the projected impacts would be compliant with established standards. Both studies are presented as part of this application package. Based on the findings of those analyses, the proposed project will not have impacts that would exceed state or federal standards.

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 utilized as working forest land, where multiple rotations of commercial timber have been harvested. Mining is a permitted use with a County CUP. The site will be reclaimed and returned to commercial forest lands at the completion of mining, in accordance with the DNR reclamation plan for the site.

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:

No

b. Describe any structures on the site.

None

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

No

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

West End Commercial Resource Lands 40 (WE-CRL40)

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

West End Subarea – Commercial Resource Lands

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

Not applicable

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

Yes – per Skamania County Code (SCC) Section 19.07.010, DNR has mapped a small landslide in the west-central portion of the site, as well as the site being west of a large, deep seated landslide dating from pre-historic times. A Geotechnical Assessment has been provided evaluating the landslide hazards mapped at the site. Based on the findings in the Assessment, the proposed project will not have an adverse impact to the geologically hazardous areas identified at the site.

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

No residents, potentially 5 to 10 workers

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

None

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

Not Applicable

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

At the completion of reclamation, the subsequent use will be re-established to commercial forestry.

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

Not Applicable.

9. Housing [\[help\]](#)

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

Not Applicable

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

Not Applicable

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

Not Applicable

10. Aesthetics [\[help\]](#)

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

A temporary scalehouse, office and scales will be placed onsite. These structures will generally not exceed 14 feet in height. Neutral color composite siding is the anticipated exterior of these temporary structures.

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

None. The current operations area is planned in a relative topographic low and will be visible only from the opposite side of the valley to the west, which is currently uninhabited and occupied by timberlands.

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

None.

11. **Light and Glare** [\[help\]](#)

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

Excavation and hauling will take place during daylight hours therefore lighting will not normally be required. During times of particularly high demand or for response to emergencies, lighting may be required for the operations area during night-time hours. These sources will be limited to machinery and the immediate surrounds of the scalehouse and shop. These light sources will be downward shielded to avoid glare and offsite light pollution.

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

Daylight operations would preclude significant light pollution from the site. During infrequent nighttime activity in the operations area, light sources will be well shielded to avoid glare and light pollution.

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

None

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

Work hours will limit the need for lighting. When necessary, lighting will be directed at the work areas and shielded to avoid impacting areas outside the mine.

12. **Recreation** [\[help\]](#)

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

Hunting and fishing are likely available within a half-mile of the site.

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

No

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

On-site activities will not affect existing recreational opportunities.

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.

None are known.

- 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.

None are known. The site has experienced several rotations of commercial timber harvest.

- 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.

Visual observations of the recently logged ground surface and small timber pit currently located on the site were completed. No cultural resources were observed.

- 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.

If during excavation or development of the site an area of potential archaeological significance is uncovered, all activity in the immediate area shall be halted. Skamania County and the Washington Department of Archaeology and Historic Preservation (DAHP) shall be notified of the finding.

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.

The attached traffic study reviewed primary site accesses via McCloskey Creek Road to Mabee Mines Road, which utilizes Salmon Falls Road to connect to State Highway 14. As part of the attached traffic study, the intersection of Mabee Mines Road and Salmon Falls Road, the intersection of Canyon Creek Road and Salmon Falls Road, and the Intersection of Salmon Falls Road and State Highway 14 were studied. Detailed traffic analysis on nearby roads and streets is provided in the attached Transportation Impact Study.

Traffic access from the site to the public street system has been coordinated with the Bonneville Power Authority (BPA) to use the access roadway for their transmission line easement south of the site including the portion referred to as Kellet Road. The roadway will be widened and improved to facilitate this access.

- 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?

No. The Cape Horn Trail bus stop at the intersection of State Highway 14 and Salmon Falls Road is approximately 4.5 miles by road southwest from the project area and is served by the Gorge WET Bus system.

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

None.

- 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).

Per the recommendations of the attached Transportation Impact Study, McCloskey Creek Road should be widened to a minimum consistent width of 22 feet. The BPA easement road will also be improved to achieve a similar width. Both are gravel roadways.

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

No.

- e. 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?

Per the attached traffic study, up to 500 daily one-way vehicle trips are assumed, with a peak period volume of 100 trips per hour during AM and PM peak periods. The majority of traffic would be trucks. Traffic volumes, distribution and Level of Service was calculated using the 2016 Highway Capacity Manual (Transportation Research Board), and the 2011 Washington State Department of Transportation's Design Manual. Further details, methodology, and detailed findings and impacts are presented in the attached Transportation Impact Study.

- 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.

Based on the conclusions of the attached Transportation Impact Study, traffic in and out of the mine site at peak use meets the Level of Service set forth by Skamania County.

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

None are proposed other than widening a segment of McCloskey Creek Road and improving the private BPA easement roadway.

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.

No

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

Not applicable.

16. Utilities [\[help\]](#)

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


No utilities are currently available at the site.

- f. 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 has no proposed 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 Bo J. STOREBAHL
Position and Agency/Organization MEMBER / JL STOREBAHL & SONS, INC.
Date Submitted: 08/13/21