

A. BACKGROUND

1. Name of proposed project, if applicable:
Rowley East Quarry Expansion
2. Name of applicant:
Granite Construction Company
3. Address and phone number of applicant and contact person:
80 Pond Rd.
Yakima, WA 98901
James Essig
360.410.8117
4. Date checklist prepared:
April 9, 2015; revised July 20, 2016 and January 13, 2017
5. Agency requesting checklist:
Yakima County Public Services
6. Proposed timing or schedule (including phasing, if applicable):
The proposal is a continuation of ongoing and continuous existing quarry operations. The proposal is not susceptible to "phased review" for purposes of WAC 197-11-060(5). Permitted quarry operations are currently active within in a 62 acre area adjacent to the proposed expansion area (per existing Yakima County CUP00-6 and DNR Surface Mining Reclamation Permit # 70-012774). These mineral resources are nearly exhausted. The proposed continuation of existing quarry operations will initiate in the western side of the Expansion Area and progress southeast and east through the Expansion Area. The schedule and sequencing of mining and reclamation activities will be accomplished per DNR and Yakima County requirements.
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
No future expansions are planned at this time.
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
Cultural Resources Survey of the Proposed Rowley East Quarry Expansion Location, Yakima, Washington," D. Ellis, (AINW Report 183, March 10, 2000), attached hereto as Exhibit A ("AINW 2000").
Cultural Resources Survey of the Proposed Rowley Quarry Expansion Location, Yakima, Washington," R. Adams, Ph.D., G. Thomas, M.S., and J. Fagan, Ph.D., R.P.A. (AINW Report 2182, July 30, 2008), attached hereto as Exhibit B ("AINW 2008").

An archaeological site alteration and excavation permit application, with supporting materials, has been submitted by Archaeological Investigations Northwest, Inc. to the Department of Archaeology and Historic Preservation (DAHP) on behalf of Granite Construction. A copy of this application and supporting materials is attached hereto as Exhibit C ("DAHP Permit Application")

Blast Vibration Monitoring Plan for Rowley Quarry, prepared by GeoDesign Inc., July 19, 2016 ("BVM Plan"). A copy of the BVM Plan is attached hereto as Exhibit D.

Cultural Resources Survey for the Proposed Rowley Quarry Project Area, Yakima, Washington, R. Adams, Ph.D., R.P.A., and J. Fagan, Ph.D., R.P.A. (AINW Report 3743, November 29, 2016), attached hereto as Exhibit E ("AINW 2016").

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

DNR Surface Mining and Reclamation Permit, DOE Sand and Gravel General Permit, and DAHP Archaeological Site Alteration & Excavation Permit.

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.)

Prior to the extension of existing mining operations into the proposed Expansion Area, Granite Construction proposes to direct its consultant Archaeological Investigations Northwest, Inc. (AINW) to conduct archaeological mitigation within that portion of the Expansion Area that is identified for additional archaeological investigations in response to Question 13.d below. These investigations are an interdependent part of Granite's proposed plan for continuation of its quarry operations and will serve as a basis for appropriately avoiding or mitigating any impacts to cultural resources within the Expansion Area. The proposed archaeological investigations are designed to address questions related to the pre-contact use of the site, such as the function of the talus features.

Upon the exhaustion of resources within the area currently permitted for mining operations, Granite will extend these operations in the western side of the Expansion Area and progress southeast and east through the Expansion Area. The schedule and sequencing of mining and reclamation activities will be accomplished per DNR and Yakima County

requirements. As mining progresses lateral benches will be developed across the mine face. These benches will maintain slope stability and provide a safe working platform for active mining operations as well as final reclamation. Topsoil will be stripped and stockpiled near the eastern and western ends of each bench. This material will be staged for final reclamation. The overall project proposes to utilize parcel 191306-13001 (120.85 ac.) and several smaller parcels to facilitate the continuation of the current active quarrying operations to the northwest.

A northeastern twenty-five acre portion of the Expansion Area is not proposed for quarrying operations. This boundary provides a buffer to eliminate any quarrying operations within the vicinity of the Selah-Moxee Irrigation Tunnel.

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.

101 East Selah Road. The proposal is located on the south side of East Selah Road; immediately south of Interstate 82 and East Selah Road Interchange, lying along the north slope of Yakima Ridge; approximately 1 mile East of the City of Selah. This expansion area is depicted in a site plan that is attached hereto as Figure 1.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (circle one):

Flat, rolling, hilly, steep slopes, mountainous, other ...

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

About 50%

- 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.

Silt loams and rock outcrops. Soils support sparse grasses and brush.
Not of Ag value.

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

No.

- 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.

Grading will occur within the Expansion Area over time to expose rock for mining and reclaiming disturbed areas. All topsoil will be retained for reclamation.

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

Erosion could occur on exposed surfaces within the Expansion Area. Mining operations will stabilize slopes.

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

< 2%

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

Consistent with past practices, exposed areas will be stabilized within the Expansion Area. Surface mining will be planned and sequenced to prevent erosion of exposed soils within the Expansion Area. Topsoil will be stored and vegetated to prevent erosion within the Expansion Area.

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.

No change from the existing condition is proposed. Some dust from aggregate material crushing and handling and from vehicle traffic may be generated. Consistent with past practices, daily operational controls of the mine site will adequately control any fugitive dust emissions.

- b. Are there any offsite 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:

Consistent with past practices, stockpiles and traffic areas will be sprayed with water via water truck to prevent fugitive dust emissions from the pit floor. Roadways will be graveled. Paved roads will be swept with a mechanical broom and Vac-truck as needed.

3. Water

a. Surface:

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

No.

- 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 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 flood plain? 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:

- 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 change from the existing condition is proposed. There is an existing well on parcel #19130624003, which is owned by the Rowley Family Trust. This well currently supplies water for the existing sprinkler dust suppression system, and will continue to do so. Water will evaporate or discharge to ground, consistent with current practices. Established levels of

consumption and beneficial use of ground water will not change.

- 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.

None.

c. Water runoff (including storm water):

- 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.

No change from the existing condition is proposed. Consistent with past practices, runoff from stormwater will remain onsite and infiltrate or evaporate. Water will be routed to pit floor.

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

No.

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

No. Mining has not historically impacted drainage patterns outside of permitted boundary. Consistent with past practices, the extension of mining into the Expansion Area will not alter or otherwise affect drainage patterns in the vicinity of the Expansion Area.

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

None required. Per Sand and Gravel Permit requirements, slopes will be stabilized and water retained onsite.

4. Plants

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?

As mining progresses, topsoil with grasses and shrubs will be removed for mining to occur. Topsoil will then be returned to area and revegetated with native grasses and shrubs.

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

None known.

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

Consistent with past practices, exposed slopes that are finished being mined will be topsoiled and vegetated with native grass and shrubs. Upon reclamation, site will be seeded and planted to return site to natural appearance.

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

None known.

5. Animals

- 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.

None known.

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

No.

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

None required. No change from the existing condition is proposed. Minimal wildlife present onsite and there is no prior history of any significant wildlife mortality attributable to mining operations.

Mining will disturb land as needed for operations and be reclaimed as mining is completed, restoring any existing wildlife habitat.

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

None known.

6. Energy and natural resources

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

No change from the existing condition is proposed. Electricity will continue to be used for basic lighting and diesel used in equipment at established levels of consumption.

- 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:

None required. Proposal does not require significant use of energy.

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.

Rock quarry operations typically use highly controlled blasting to cut basalt away from the hillside to facilitate mining and processing of aggregates. Controlled blasting is a common means used by mine operators to break rock out of its in situ condition and move it into a manageable area. Blasts at the Rowley Quarry are carefully controlled and strategically planned to achieve maximum efficiency and are subject to strict protocols that ensure employee and public safety. Placement of bore holes and the timing of the blast are carefully calculated and drilling and blasting is performed by experienced crews with specialized training. On average, over the last 10 years, Granite has conducted 2 blasts per year. Each such blast is of a less than one-half second duration. Blasts are conducted so as to contain any flying debris or other surface characteristics of blasting activities on site, and this will be the case with any blasting conducted in the Expansion Area. Over the course of 22 years of operation there has never been a case of personal injury or property damage attributable to blasting operations at the Rowley Quarry.

The proposed action presents no change to the existing condition other than location of the blasting (i.e., the occurrence of blasting within the Expansion Area). Noise associated with blasting during hours of operation is infrequent and of limited duration (less than one-half seconds) when it occurs. Due to the long established practice of blasting in this area, and the low density and developmental characteristics of the surrounding area, noise impacts from blasting in the Expansion Area will not be significant and will be within the established baseline of noise associated with existing operations.

Ground vibrations are also associated with blasting and this issue has been raised as a concern by the Selah-Moxee Irrigation District in connection with an irrigation tunnel that is located approximately 1,000ft.-1750ft. East of the eastern boundary of the Expansion Area. Granite has assessed this potential impact and this assessment is contained in the attached BVM Plan. The BVM Plan considered ground vibrations associated with prior blasting events (January 2012 to May 2104) and concluded that blasting within the Expansion Area may cause ground vibrations on the order of 0.5 in/sec at a distance of 1,000 feet from the blast. Ground vibrations of this magnitude are significantly below the low end of a conservative threshold (2 in/sec to 16 in/sec) used to identify ground vibrations that present a risk of "minor damage" to adjacent properties.

As noted below, a twenty-five acre portion of the northeastern Expansion Area is not proposed for quarrying operations. This area will provide a buffer to mitigate any impacts to the Selah-Moxee Irrigation Tunnel associated with ground-born vibrations that could result from blasting within the Expansion Area. No other impacts associated with blasting were identified. As with noise, due to the long established practice of blasting in this area, and the low density and developmental characteristics of the surrounding area, ground vibration impacts from blasting within the Expansion Area will not be significant and are consistent with the established baseline associated with existing operations.

- 1) Describe any known or possible contamination at the site from present or past uses.
None.
- 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. No transmission pipelines are located within the project area.

- 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.

No toxic or hazardous chemicals will be stored or used or produced by the project. Consistent with past practices, any regulated materials or substances that may be brought on site and stored or used in the normal course of mining operations will be stored or used in accordance with manufactures recommendations and in accordance with the requirements of applicable law.

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

None.

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

Blasting is performed by a professional contractor on a small scale. A formal blasting notification with date and time is provided to the following agencies and individuals, including neighbors and emergency services.

*911, Yakima County Sheriff, City of Selah Police Department, WSDOT Regional Office, Selah/Moxee Irrigation District, Frank Rowley, Granite Construction Company, DeAtley Crushing, Yakima County Public Services, Larry Martin (Attorney-Irrigation District), BAER Testing and Consulting, Washington State Patrol and WSU/PNSN Seismology Laboratory

Granite will implement the BVM Plan and monitor blasting in the Expansion Area in accordance with the following guidelines:

- Seismographs equipped with triaxial geophones will be used to monitor ground vibrations during each blasting event.
- Monitoring during the blasts will be performed from at least three locations in order to monitor the ground vibrations and to estimate the attenuation of blast energy with distance.
- Monitoring shall be performed to measure ground vibrations in terms of PPV and frequency and compared to the maximum acceptable vibration limits of 2 in/sec.

- At the end of every calendar year, an independent review of all the blast vibration data from the preceding year will be made to determine compliance with the plan.

A twenty-five acre portion of the northeastern Expansion Area is not proposed for quarrying operations. This area will provide a buffer to mitigate any impacts to the Selah-Moxee Irrigation Tunnel associated with ground-born vibrations that could result from blasting within the Expansion Area.

b. Noise

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

Noise will not affect the project. Existing traffic noise from freeway.

- 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.

No change from the existing condition is proposed. Noise from the existing mine operations include: truck traffic, rock crushing, blasting, earth moving, and material loading. Crushing and blasting occur on an intermittent, as-needed basis; those activities are not part of the daily operations. The proposed action will not increase the existing noise levels. The added acreage will not increase the intensity of the current noise levels in the short term. As mining progresses to the south, future operations will be setback further away from local residents and the freeway; which will reduce off-site noise levels in the long-term. Typical operating hours are 7:00 am-3:30 pm Monday-Saturday. Occasional night time operations will continue when required by specific construction projects.

The appropriate agencies are notified of scheduled blasting per the blasting plan. Noise associated with blasting during hours of operation is infrequent and of limited duration (less than 5 seconds when it occurs. Due to the long established practice of blasting in this area, and the low density and developmental characteristics of the surrounding area, noise impacts from blasting in the Expansion Area will not be significant and will be within the established baseline of noise associated with existing operations.

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

Site topography contains noise within the mine site.

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 is contiguous to an existing mine. Current use of the site is undeveloped land. There are four residences along E. Selah Rd. All other properties in the area are undeveloped.

- 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?

No. Site is not used as working farmlands or working forests. Land is designated Mineral Resource Lands by Yakima County.

- 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. The proposal will not affect working farms or forests. No working farms or forests are adjacent to the site.

- c. Describe any structures on the site.

There are four houses and a commercial building within the parcels.

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

No structures are to be demolished as part of this proposal.

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

R, RLDP, & MIN.

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

Mineral Resource Overlay.

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

N/A.

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

No.

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

2-5 daily workers.

- j. Approximately how many people would the completed project displace?
None.
- k. Proposed measures to avoid or reduce displacement impacts, if any:
N/A.
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
Site has mineral resource overlay and is adjacent to same current use.
- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:
No proposed measures.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.
None.
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
None.
- c. Proposed measures to reduce or control housing impacts, if any:
Not applicable.

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?
No proposed structures.
- b. What views in the immediate vicinity would be altered or obstructed?
Hillside will be mined next to existing active mine. Upon reclamation, top soil will be graded and vegetated to blend into the natural landscape.
- c. Proposed measures to reduce or control aesthetic impacts, if any:
The sequencing of mining operations and ongoing reclamation activities.

11. Light and glare

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

None.

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

No.

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

None.

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

None.

12. Recreation

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

None.

- 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:

The site is regulated by MSHA; no recreation opportunities exist.

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.

No.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation. This may include human burials or old cemeteries. Is 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.

Archaeological features on the north side of Yakima Ridge were originally documented by Harlan Smith in 1910. This work identified the presence of pits on the talus slopes. Talus features have been identified as potential areas of cultural importance.

Archeological Investigation Northwest (AINW) have conducted three separate survey efforts and prepared reports from year 2000, 2008, and 2016. These investigations were performed to support quarry development applications and submitted to Yakima County.

These documents are attached as Exhibits A (AINW 2000), B (AINW 2008), and E (AINW 2016).

- 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.

AINW conducted the initial survey in year 2000 to address a previous quarry expansion (AINW 2000). In 2008 AINW conducted an additional survey in anticipation of the current expansion application (AINW 2008). In 2016, AINW conducted an additional survey in support of the current expansion application. These archaeological surveys have identified areas containing talus features of particular interest.

In order to assess and mitigate the potential impacts of the proposed action, AINW will conduct additional archaeological investigations within the Expansion Area. This will include photo documenting, collecting, identifying, and returning non-significant pre-contact isolated artifacts identified during the 2016 AINW survey to the landowner and conducting archaeological excavation and sampling at three locations within the Expansion Area.

Isolated talus features identified during previous surveys will be excavated to determine past use and function. Site dimension data will be recorded and artifacts will be collected and analyzed.

Historic maps have been provided as exhibits to the DAHP permit application, which are attached at Exhibit C. GIS maps have been developed to support the current proposal.

- 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.

Based upon AINW 2000, AINW 2008, and AINW 2016, the following mitigation measures are recommended:

- Prior to ground-disturbing activities, non-significant pre-contact isolates, if able to be relocated, will be photo documented, collected, identified, and returned to the landowner (15/2357-6, 15/2357-7, 00/598-2, and 07/1574-8).
- For pre-contact archaeological sites containing cultural talus features, archaeological excavation and sampling will be conducted (45YA693 and 15/2357-3). If archaeological excavations at these sites reveal evidence of human remains, the remains will be avoided by the establishment of 75-foot buffers for mining activities. If there is no

evidence of human remains, the pit features will be photo documented and any surface artifacts collected, identified, and returned to the landowner.

- For pre-contact archaeological site 07/1574-9, archaeological excavations will be conducted. Any recovered artifacts will be identified and returned to the landowner.
- Any archaeological resources that reveal evidence of human remains will be avoided by the establishment of 75-foot buffers for mining activities.
- If unanticipated archaeological or historical resources are encountered during project construction, all ground-disturbing activity in the vicinity of the find will be halted and the Washington DAHP will be promptly notified to ensure compliance with relevant state and federal laws and regulations. Should evidence of human remains be encountered, all ground-disturbing activity in the vicinity will be halted immediately and the Yakima County Coroner and the landowner(s) will be promptly notified.
- As to any archaeological resources to be avoided by the establishment of 75-foot buffers for mining activities, a reclamation buffer of 60 feet will be maintained interior to the mining buffer. Buffers may be modified by WDNR in connection with WDNR's approval of a final reclamation plan for the area or areas in question.

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.

Site will be accessed through current mine access points on E. Selah Rd. Access to I-82 is immediately adjacent.

- 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.

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

The site currently has a sufficient parking area for all workers/contractors/visitors to the site. No parking will be added or eliminated. Five employee parking spaces have been identified on the site plan.

- 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).

No. There will be no change in Granite's established use of existing infrastructure.

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

No.

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

No change from the existing condition is proposed. There are currently up to 250 truck trips per day during the peak season. The proposal for mine expansion will not change the current average daily truck trips for quarry operations. Estimation of truck trips is based upon historical tonnages sold from the site and interplant aggregate transfers to the asphalt plant across the freeway. Haul truck trips and aggregate sales are based on market demand, fluctuations in the economy, and funding for WSDOT infrastructure projects. The proposal to extend the mine boundary will not change the current traffic loading for the site.

- 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.

No.

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

None required.

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.

No.

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

None required.

16. Utilities

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

None.

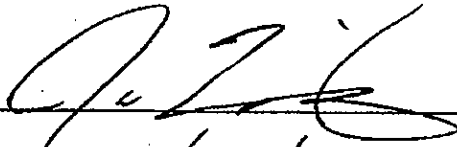
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Electricity may be brought in from current mining area if basic lighting is needed.

C. SIGNATURE

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

Signature: _____

A handwritten signature in black ink, appearing to be 'J. L. L.', written over a horizontal line.

Date Submitted: _____

1/16/17