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

1. Name of Proposed Project, if applicable:

   Marblemount Quarry

2. Name of applicant:

   Kiewit Infrastructure Company (KIC)

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

   Applicant:
   Kiewit Infrastructure Co.
   2200 Columbia House Blvd
   Vancouver, WA 98661

   Contact Person:
   Chuck Nylund
   Estimating Director
   Kiewit Infrastructure Co.
   2200 Columbia House Blvd
   Vancouver, WA 98661
   (360) 693-1478

4. Date checklist prepared:

   January 22, 2019

5. Agency requesting checklist:

   Skagit County Planning and Development Services.

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

   The Marblemount Quarry (Proposed Project) will be implemented in four steps: 1) Site Preparation, 2) Quarry Development and Operation, 3) Future Phase Quarry Expansion, and 4) Quarry Site Reclamation. Site preparation will begin following issuance of Skagit County permits and a Washington Department of Natural Resources (DNR) Class IV Forest Practice Conversion permit and will include construction of the access road to the top of the site. The site preparation step is anticipated to begin in spring 2019. Quarry development and operations within the Mineral Resource Overlay (MRO) will begin after the Skagit County Special Use Permit (SUP), DNR mining permits, and other associated permits are issued. The quarry development and operation is anticipated to commence in spring/summer 2019. The future phase of mining will not commence until the MRO is expanded through a Comprehensive Plan Amendment update process potentially in 2020. While Kiewit Infrastructure Company (KIC) is requesting a Skagit County Special Use Permit (SUP) for the maximum potential quarry footprint (including the future phase of the quarry outside the current MRO), KIC recognizes that MRO expansion would be a condition of the SUP for this future phase. Reclamation will take place after the quarry is depleted. This may occur on a 50 to 100-year planning horizon, depending on market needs. The supplemental SEPA checklist

for non-project actions for the proposed MRO expansion has been completed and included for full disclosure.

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

Potential quarry expansion is being proposed for a future phase of the project, but will only occur after an MRO expansion has been completed. The MRO would be expanded through the Skagit County Comprehensive Plan Amendment process. This checklist covers mining within the current MRO and considers a potential future phase of mining outside the current MRO. KIC recognizes and agrees that expansion of the MRO should be a condition for any mining proposed outside the MRO. There are no current plans to expand quarry operations beyond the future phase expanded quarry footprint described in this checklist.

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

A Conditional Use Permit (CUP) for operation of a rock quarry was approved by Skagit County Planning and Development Services and the Skagit County Board of Adjustment on May 11, 1982. The CUP was approved for small-scale mining of the existing talus field and limited hauling. An associated Forest Practice Conversion was approved in 1990. Pursuant to SCC 14.16.440(3)(c), an expansion of mining operations triggers the need for a new SUP. Skagit County has determined that the mining of the site combined with increased traffic volumes constitutes an expansion of use. Therefore, a new SUP is needed.

The following environmental information has been prepared as part of project design. These technical studies identified and analyzed the potential for adverse impacts arising from the Proposed Project. In addition, potential mitigation measures that would reduce the project's potential adverse impacts below the level of significance were identified and analyzed in these technical reports. Recommended mitigation measures from the following impact analysis have been incorporated into project design and operation plans so that the Proposed Project as proposed would not likely cause more than a moderate impact on the environment. For ease of reference, a separate mitigation plan (**Appendix K**) has been prepared that identifies those design features and operational requirements that have been incorporated into project design. Due to the incorporation of these measures and into the design and operation plans for the Proposed Project, no additional mitigation measures are anticipated to be required. The following technical reports are included with this checklist:

- **Attachment 1: Detailed Project Description**
- **Appendix A: Skagit County Geologically Hazardous Areas Critical Areas Report** (Prepared by Element Solutions and Shannon & Wilson on January 11, 2019);
- **Appendix B: Fugitive Dust Plan** (Prepared by Element Solutions on January 16, 2019);
- **Appendix C: Hydrogeologic Site Assessment** (Prepared by Element Solutions on January 16, 2019);
- **Appendix D: Biological Assessment** (Prepared by Element Solutions on January 16, 2019);
- **Appendix E: Sound Analysis** (Prepared by BRC Acoustics & Audiovisual Design on January 18, 2019);

- **Appendix F: Assessment of Rock Blasting Impacts and Recommended Practices** (Prepared by REVEY Associates, Inc. on January 14, 2019) and **Marblemount Quarry Vibration Study** (Prepared by Ramboll on January 14, 2019);
- **Appendix G: Visual Resources Report** (Prepared by Element Solutions on January 17, 2019).
- **Appendix H: Cultural Resources Report** (Prepared by Drayton Archaeology on January 18, 2019);
- **Appendix I: Traffic Impact Analysis** (Prepared by Transportation Solutions Inc. on January 18, 2019);
- **Appendix J: Engineering Analysis and Drainage Plan** (Prepared by Pacific Surveying and Engineering on January 15, 2019)
- **Appendix K:** Marblemount Quarry Mitigation Plan
- **Appendix L: Marblemount Quarry Operations Proposal** (Prepared by KIC on January 21, 2019)
- **Exhibit A: Engineering Site Plans** (Prepared by Pacific Surveying and Engineering on January 21, 2019)
- **Exhibit B: Marblemount Quarry Reclamation Plans (Skagit Co. SUP)** (Prepared by Pacific Surveying and Engineering on January 21, 2019)
- **Exhibit C: Blasting Plan** (Prepared by KIC on November 28, 2018)

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. A full list of government approvals or permits needed for the Proposed Project are provided in the following question.

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

- Skagit County Comprehensive Plan Amendment;
- Skagit County Boundary Line Adjustment;
- Skagit County Critical Areas Checklist;
- Skagit County Special Use Permit;
- Skagit County Forest Practices/COHP Permit;
- Skagit County Grading Permit;
- Skagit County Road Access Permit;
- Skagit County Building Permit;
- Skagit County Fire Permit;
- Skagit County Oversize/Overweight Vehicle Permit (as needed);
- Department of Ecology National Pollutant Discharge Elimination System (NPDES) Sand/Gravel Permit;
- Washington Department of Fish and Wildlife (WDFW) Hydraulic Project Approval;
- DNR Class IV Forest Practice Permit;
- DNR County or Municipality Approval for Surface Mining (SM-6);
- DNR Application for Reclamation Permit (SM-8a);
- Others as needed to complete the permitting process.

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 following is a short project description. Please see Attachment 1: **Detailed Project Description** for details.

Project Summary

The Proposed Project includes the following activities: site clearing, site grading, road building, boundary line adjustments, quarry operations, and reclamation of a bedrock quarry on Rockport Cascade Road approximately one mile south of Marblemount, WA (**Figure 1** in Attachment 1: **Detailed Project Description**). The Proposed Project will involve development activities on what is today six parcels (P45543, P128574, P120304, P45550, and parts of P45548 and P45541, see **Figure 2** in Attachment 1: **Detailed Project Description**). However, following proposed boundary line adjustments, the project will occur on only two parcels. The mining footprint will mostly be on P45543 which is owned by the Cunningham Trust.

The Proposed Project would occur in four steps:

1. Site clearing, grading, preparation, and building access roads and stormwater systems;
2. Mining within the existing Mineral Resource Overlay (MRO) Area;
3. Possible future quarry expansion (contingent on an MRO boundary change*), and;
4. Quarry reclamation.

*Note that the Proposed Project is **not** contingent upon Step 3. If the MRO boundary is not expanded, the rest of the project can still proceed and be commercially viable.

Reference the **Engineering Site Plans** (Exhibit A) and **Marblemount Quarry Reclamation Plans (Skagit Co. SUP)** (Exhibit B) for Proposed Project details.

Step 1 – Site Clearing, Preparation, Building Access Roads and Stormwater Systems. Step 1 will include clearing, timber harvest, stump removal, site grading, road construction, stormwater systems installation, and boundary line adjustments. Activities will occur on what is currently parcels P45543, P45550, P120304, P128574, and parts of P45548 and P45541. Marketable timber will be removed from the site. An approximately 6,700-foot gravel access road would be built to access the top and eastern portions of the project site. Details of the access road are provided in Exhibit A of the SEPA Checklist: **Engineering Site Plans**. Wood mulch and topsoil would be stockpiled on site for future reclamation. Access to the site would include building two new access driveways on Rockport Cascade Road and decommissioning the two existing access points. Details of the site access are provided in Exhibit A of the SEPA Checklist: **Engineering Site Plans**. Grading and roadways for quarry operations and stormwater management will be constructed on the western portion of the project limits. The road providing access to the eastern portion of the site would be designed to meet or exceed Skagit County standards, Washington Department of Natural Resources (DNR) Forest Practice and Mining standards, and any other standards appropriate for its use. Following site clearing and preparation, the road would be used to access the top of the quarry and for hauling rocks to the bottom for processing.

Step 1 will also include performing boundary line adjustments on parcels to consolidate the project footprint onto fewer parcels and to enable the potential for future phase quarry expansion (see Step 3 below). The Proposed Project would take place on two parcels following boundary line adjustments rather than the six parcels currently affected by the Proposed Project. The boundary line adjustments are not necessary for the permitting process or operation of the Proposed Project, but will ultimately result in simpler land ownership and management.

KIC will obtain SUP, Forest Practice Conversion, Grading, Road Access, Building, and Fire Permits from Skagit County and DNR as appropriate for the Step 1 activities.

Step 2 – Mining within the Existing MRO Area (In MRO). Step 2 includes establishing the quarry within the current MRO boundary per Exhibit B of the SEPA Checklist: **Marblemount Quarry Reclamation Plans (Skagit Co. SUP)**. Step 2 also includes the creation of mining operation areas, establishing support facilities, and mining operations implementation. Support facilities include portable offices/storage structures, a truck loadout scale, a heavy equipment and employee parking area, a fueling station, maintenance shops, and storage facilities for blasting equipment. An undersized rock stockpile area would be established within the existing MRO area on P128574. Rock mining would be conducted using a "top down" approach and transported to the stockpile or staging areas by truck. Surface mining would occur in phases as described in the Reclamation Plan. The land use to the south, east, and west of the project limits is secondary and industrial forestry and the land use to the north is rural residential. A minimum 100-foot setback would be maintained along adjacent property lines or bordering quarry activities. A 50-foot vegetative buffer would be maintained on Rockport Cascade Road.

A summary of project elements of Step 2 would include:

Onsite Activities

- Providing for an approximately 5-acre armor stone staging area in the western portion of P45543;
- Constructing a gravel area with 35 parking spaces;
- Providing a scale control shed and a 70-ton portable scale;
- Providing a maintenance facility, a lubrication storage unit, a spill response Connex, a tool storage facility;
- Providing three ANFO and emulsion trailers and two high explosive magazine storage buildings;
- Providing an off-road diesel tank, a highway diesel tank, and a gasoline tank;
- Providing an office structure;
- Providing an approximately 13-acre undersized rock stockpile area within the existing MRO area on P128574;
- Implementing rock quarrying within the existing MRO using a "top down" approach such that rock would not be cast off the cliff face;
- Transporting quarry rock on-site to the stockpile or staging areas by truck;
- Hours of Operation for quarrying and hauling operations would occur between 6:00 AM and 6:00 PM Monday through Saturday; however, occasional operation outside of these hours may occur during limited, short-duration time periods. Other supportive and normal activities, such as equipment maintenance, may occur after the stated work hours;
- Operations management will include Noise and Vibration Management, Stormwater Management, and Fugitive Dust Management. See Operations Proposal for details.

Off-site Activities

- Off-site hauling: The Proposed Project would have a *maximum* of 75 loaded trucks per day leaving the site during full quarry operations. Up to 50 trips would be flatbed trucks hauling jetty stone. Up to 25 trucks would be dump trucks hauling non-jetty stone rock material. These are maximum values and it is anticipated that there will be periods where little to no hauling of materials occurs.
    - Truck Loads: Trucks will be legal loads of up to 105,500 pounds. If loads exceed this weight limit, appropriate permits will be obtained. Maximum over-load hauls would be less than 10 percent of total hauls.
    - Haul Routes: The haul route identified is via Rockport Cascade Road to Rockport and west on SR-20 to I-5.

KIC will obtain Surface Mining Permits from Skagit County and DNR for Step 2 activities as appropriate.

Step 3 – Possible Future Quarry Expansion (Future Phase). Step 3 would enable the possibility of future quarry expansion to meet anticipated future demand for jetty stone (**Figure 3** in Attachment 1: **Detailed Project Description**). Step 3 is optional; Steps 1, 2 and 4 do not rely on MRO and quarry expansion. This potential step is referenced as the "future phase" throughout the SEPA checklist. KIC understands that future phase quarry expansion requires an expansion of the existing MRO through a Comprehensive Plan Amendment. The Proposed Project includes this potential future phase expansion for full disclosure. Technical assessments conducted for SEPA review considered the maximum project potential, including the future phase, for impact analysis.

If Step 3 is completed, the mining footprint would increase by approximately 10 acres and the undersized stockpile footprint would increase by approximately 15 acres. Approximately 18 acres of the expansion area would be vegetation retention areas, the existing road, and buffers. The total MRO expansion area would be approximately 43 acres. While the Proposed Project within the existing MRO can operate and meet the immediate demand, expanding the quarry would enable meeting anticipated future demand and increase the total potential quarry rock yield by approximately 150 percent. This would allow KIC to fulfill all anticipated supply needs with the least impact, as establishing a new quarry in another location would result in greater overall impacts.

The total proposed MRO expansion area would be approximately 31 acres, or about a 75 percent increase of the current MRO zone that includes the Marblemount Quarry. Skagit County has designated over 61,682 acres of land in Skagit County as MRO. The addition of 31 acres would increase the total MRO area in Skagit County by 0.05 percent.

KIC will work with Skagit County to obtain a Comprehensive Plan Amendment as appropriate to support Step 3 activities. Surface Mine Permit/Special Use Permits for Step 3 activities will either be integrated into permitted conditions (preferred) contingent upon MRO expansion, or modifications to existing permits will be necessary following successful MRO expansion.

Step 4 – Quarry Reclamation. Step 4 would include full reclamation of all the affected parcels following decommissioning of the quarry, roads, and supporting mining operations. The full lifespan of the quarry would be up to 100 years or whenever the source of rock is exhausted. The Mining Reclamation Plan is consistent with DNR surface quarry reclamation regulations. The land will be restored to forestry land use following mine reclamation.

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.

Please Reference Figures 1 and 2 in Attachment 1: Detailed Project Description for Proposed Project location.

P45543 is the parcel that will contain most of the quarry. There no assigned address, but the parcel is accessed approximately one mile south of Marblemount on Rockport Cascade Road.

Lat/Long: 48.509054, -121.455042

Section, Township, Range: Southeast ¼ of Section 24, Township 35N, Range 10E of the W.M.

Legal Descriptions of other affected parcels:

P45543: NE1/4 NW1/4 LESS TR & 80FT STRIP TO CO EXC TH N SIDE OF A TRI RUN ELY 100FT & TH W SIDE OF SD TRI RUN SLY 100FT FR TH NW COR OF SD NE1/4 OF TH NW1/4 TH ENDS OF TH TWO SIDES CONNECTED WITH A DIAGONAL LI RUN NELY & SWLY 141.5FT M/L.

P45541: CF-75: W1/2 NE1/4 & LTS 1 2 3 4

P45548: CF-75: W1/2 NW1/4 LESS RD & NE1/4 SW1/4 & S1/2 SW1/4 & W1/2 SE1/4

P128574: CF-75 THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST, W.M., EXCEPT THE NORTH 208 FEET OF THE WEST 208 FEET OF THE SE1/4 NW1/4 AND ALSO EXCEPT THE NORTH 90 FEET OF THE WEST 480 FEET, EXCEPT THE WEST 208 FEET IN THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST, W.M.

P120304: INCLUDING MANUFACTURED HOME 2008 KIT MARQUIS MANOR 70.8X29.6 SERIAL NUMBER 4508KID2054A/CA&B; THE NORTH 90 FEET OF THE WEST 480 FEET, EXCEPT THE WEST 208 FEET IN THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 24, TOWNSHIP 35 NORTH, RANGE 10 EAST, W.M.

P45550: THE NORTH 208 FEET OF THE WEST 208 FEET OF THE SE1/4 NW1/4

B. Environmental Elements

1. *Earth*

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

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

The steepest slope on the site exceeds 100 percent, but typical steep topography ranges between approximately 40 percent to approximately 70 percent.

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 NRCS mapped soil units show *Andic Xerochrepts, warm-Rock outcrop complex, 65-90 percent slopes* on the steep slopes and top of the slope. The flat portion of the parcel to the west is made up of *Barneston very cobbly sandy loam, 0 to 8 percent slopes.* There is a very localized pocket of *Vanzandt very gravelly loam, 30 to 65 percent slopes* on the northeast portion of the site on the top of the steep slope.

Andic Xerchrepts and Vanzandt very gravelly loam are classified as not prime farmland. Barneston very cobbly sandy loams are classified as prime farmland if irrigated. While the Barneston soils could be used as agricultural land, the amount of irrigation and limited parcel size would make agricultural use infeasible. Additionally, the parcels are zoned RRc-NRL, IF-NRL, and SF-NRL with MROs. Given the parcels' zoning, historic timber harvesting, and necessary irrigation for agricultural land, there is unlikely to be any agricultural land of long-term commercial significance.

The proposal would not result in any of the soils being removed from the site. See Section 1(e) for soil excavation and fill information.

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

The project area contains slopes that are regulated Critical Areas due to the presence of Landslide, Erosion, and Seismic Geologically Hazardous Areas as defined in SCC 14.24.410, and as such is subject to the Mitigation Standards and Critical Area buffers described in SCC 14.24.430. This includes the establishment of setbacks from the top, toe, and edge of all landslide hazard areas.

A rockfall hazard study was completed and is provided in Appendix A: **Skagit County Geologically Hazardous Areas Critical Areas Report**. In summary, talus deposition at the base of the steep slopes in the subject area indicates that rockfall has occurred in the area historically and may continue to occur periodically in the future, with or without parcel development. Isolated rockfall is a natural geologic process, and in the absence of development, presents little risk to human health and safety. No indicators of historic deep-seated landslides were observed during the field and desktop assessment, and the presence of shallow, competent bedrock across the site suggests a low probability for significant landslides. Steep areas that are developed, modified, or disturbed during quarry or road development and operations are susceptible to rockfall and erosion hazard occurrence.

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.

The Proposed Project would result in approximately 556,200 cubic yards of fill for site preparation and the access road. Including the quarry footprint, site preparation and the access road, the total area affected by filling, grading, and excavation is approximately 60 acres. Fill materials will be provided from locally-sourced gravel mines, from suitable onsite material, or from undersized rock from the mining operation. Please see Exhibit A: **Engineering Site Plans** for details.

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

Yes. Erosion potential increases during clearing and construction activities but can be mitigated using industry standard BMPs. Erosion potential analysis was conducted and discussed in the **Skagit County Geologically Hazardous Critical Areas Report** (Appendix A) the **Engineering Analysis and Drainage Plan** (Appendix J) attached to this checklist submittal. Recommended mitigation measures identified in those studies have been incorporated into the Proposed Project design. For ease of reference, those mitigation measures are identified the in the **Marblemount Quarry Mitigation Plan** (Appendix K) and **Marblemount Quarry Operations Proposal** (Appendix L).

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

Approximately 542,330 square feet, or 10 percent, of the total site (5,290,798 square feet) will be covered with impervious surfaces as designed. This includes new and replaced impervious surfaces, of which 160,664 square feet, or 30 percent is existing impervious areas. Please see Exhibit A: **Engineering Site Plans** for details.

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

The following mitigation measures have been incorporated into the Proposed Project design to reduce or control erosion and rockfall. This is a partial list; the full list of measures is provided in the **Marblemount Quarry Mitigation Plan** (Appendix K). The Mitigation Plan was developed from technical analyses provided in the **Skagit County Geologically Hazardous Areas Critical Areas Report** (Appendix A) and the **Engineering Analysis and Drainage Plan** (Appendix J). In summary, recommended mitigation measures include:

- A 200-foot recommended setback from the toe of slopes exceeding 40 percent grade for any structures that are used to regularly be occupied by employees, except for the access road.
- During times of blasting, rock moving, or if rockfall activity is observed, the 200-foot rockfall hazard setback area should be avoided until conditions stabilize.
- The 200-foot rockfall setback area should be signed and notice of rockfall hazards identified.
- Signage at the top of steep slopes would be utilized to warn employees or site users of the hazardous steep slope conditions.
- A site-specific construction stormwater pollution prevention plan would be developed in conformance with the requirements of SCC 14.32 and SCC 14.24.430.1(b).

No additional mitigation measures are necessary based on project design and operational plans.

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.

The Proposed Project would include crushing equipment, blasting and diesel exhaust emissions from mobile and stationary mining equipment. There are no Skagit County, Washington State, or federal air emission standards for exhaust emissions specific to mining operations; therefore, no emission thresholds have been established. The Proposed Project's operations could result in fugitive dust generation during certain conditions. Impacts from potential fugitive dust and potential mitigation measures were identified and analyzed in Appendix B: **Fugitive Dust Plan**. Fugitive dust mitigation measures have been included in the Proposed Project's design and operational plans to address this potential impact. See **Marblemount Quarry Mitigation Plan** (Appendix K).

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

None known or anticipated.

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

The following air quality mitigation measures have been included in the design and operation plans for the Proposal. See the **Marblemount Quarry Mitigation Plan** (Appendix K) for detailed fugitive dust mitigation measures. In summary, the design and operations plan of the Proposed Project include the following BMPs and related mitigation measures to mitigate potential impacts from fugitive dust:

- All onsite personnel will be trained to recognize and respond to incidents for which dust generation is at a higher than acceptable level. Fugitive dust is most often controlled by the frequent application of water or chemicals such as magnesium chloride as allowable and appropriate.
- In areas where quarry activity is low, and vehicle traffic is not expected, stabilization of disturbed soils can be managed by planting native vegetation. Vegetative cover reduces the potential for dust to become airborne by decreasing wind speed at the grounds surface.
- Using mulch to cover recently disturbed or exposed areas can reduce the potential for windblown dust on the site.
- Speed limits of 10-15 mph could be established for all unpaved haul roads in the project area.
- Using a water truck to spray the ground surface in areas where dust is generated within the project area is often used to prevent dust from becoming airborne.
- If wind gusts at speeds of 15 mph or higher during dry conditions, dust sources should be mitigated by spraying with water.

No additional mitigation measures are necessary based on project design and operational plans.

3. Water

a. Surface Water:

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

DNR maps several streams flowing across the overall Proposed Project site. The DNR-mapped stream locations were found to be inaccurate and mischaracterized. The DNR streams are listed as perennial fish bearing stream (Type F) on the valley floor and seasonal non-fish bearing (Type Ns) on the valley wall. DNR and WDFW hydrology maps show the streams connecting to the Skagit River approximately 2500 feet to the southwest. In reality, two intermittent watercourses were observed, however these watercourses do not connect to any DNR Typed waters (Ns, Np, F, S), even in winter hydrologic conditions. Site observations and anecdotal information from the adjacent property owners demonstrate that these watercourses go subsurface in the extremely well-drained alluvial terrace soils. All surface flow from these watercourses terminates prior to reaching Rockport Cascade Road and no culvert or surface drainage features north of this road exist to suggest that there ever was a historical surface water connection from these water courses to any DNR Typed waters. Therefore, based on WAC 22-16-030 there are no DNR typed streams on this site.

See Appendix C: **Hydrogeologic Site Assessment** and Appendix D: **Biological Assessment**, for details.

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.

Yes. The access road will cross two watercourses via culverts. Culverts are proposed for the water crossings. The crossings occur on non-fish bearing watercourses. See Appendix D: **Biological Assessment**, Exhibit A: **Engineering Site Plans**, and Appendix J: **Engineering Analysis and Drainage Plan**, for details.

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.

Approximately 50 cubic yards of fill material will be placed where Watercourse B crosses the road alignment as part of the access road. A total of approximately 480 cubic yards of native material will be cut from the original grade from both watercourses A & B where they cross the road alignment. Fill materials will be provided from locally sourced gravel mines, from suitable onsite material, or from undersized rock from the mining operation. See Exhibit A: **Engineering Site Plans** for details.

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

No. There will be no surface water withdrawals or diversions.

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

No. The site is outside of the FEMA National Flood Insurance Program 100-year Special Flood Hazard Area boundary.

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:

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. There is an existing permitted residential well on site but it will be decommissioned by a certified well driller as part of this project.

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 waste material will be discharged into the ground. No septic system would be used onsite. Porta-Potties/Honey Buckets would be maintained for employee use.

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.

Engineered stormwater systems were developed to manage runoff from the impervious areas created by project development. The systems include ditches, culverts, detention, and infiltration. The systems comply with all applicable regulatory requirements for runoff management. See Exhibit A: **Engineering Site Plans** and Appendix J: **Engineering Analysis and Drainage Plan** for details.

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

The Hydrogeologic Site Assessment and Engineering Analysis and Drainage Plan have evaluated the potential for and any impact of water and waste materials being transported and entering the ground. Engineering systems and BMPs were recommended to reduce the potential adverse impacts of any occurrences and to meet applicable regulatory standards. These recommended measures were incorporated into the project design and operational plans. These measures are identified in Appendix K: **Marblemount Quarry Mitigation Plan**. Reference Appendix C: **Hydrogeologic Site Assessment** and Appendix J: **Engineering Analysis and Drainage Plan** for details.

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

The mining operation would occur within two drainage small sub-basins (referenced as Basins A and B in Figure 5 of Appendix C). Basin A currently drains to the base of the cliff face and Basin B currently drains the area immediately south of the cliff but within the Project Area. The net result of the slope alterations and grading would be that approximately 30 acres of Basin B would have its surface water re-routed into Basin A. Surface water from both basins currently infiltrate into the soils of the alluvial terrace. Following the topographic modifications of this project, the surface water will continue to infiltrate into the soils of the alluvial terrace. As a result, the drainage modifications of this project will result in relocating the aquifer recharge area approximately 800 feet upgradient of its current distribution area. Given that there are no immediately downgradient sensitive areas, the small change of relocating the recharge area will have no net effect on the off-site groundwater aquifer system. See Appendix C: **Hydrogeologic Site Assessment**, for details.

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

Potential Proposed Project impacts to ground and surface water impacts were identified and evaluated in Appendix C: **Hydrogeologic Site Assessment** and Appendix J: **Engineering Analysis and Drainage Plan.** The Stormwater Pollution Prevention Plan (SWPPP) in the Engineering Analysis and Drainage Plan was developed to comply with Washington State Department of Ecology stormwater management requirements and Skagit County development requirements (see Exhibit A: **Engineering Site Plans**). The SWPPP was developed for ongoing site stormwater management. These facilities and requirements have been incorporated into the Proposed Project's design and operational plans to bring the Proposed Project's potential impacts to ground and surface water below the level of significance. Please reference Appendix K: **Marblemount Quarry Mitigation Plan** and Appendix J: **Engineering Analysis and Drainage Plan** for details.

4. Plants

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

_x__deciduous tree: Alder, black cottonwood, birch and vine maple are the dominant deciduous trees present on site
_x__evergreen tree: Douglas fir forest conditions dominate the project site

__x_shrubs: Native and invasive shrubs occur at the project site.
__x_grass: Grasses occur in historically disturbed areas of the project site.
____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?

Approximately 90 acres of mostly small-stemmed mixed conifer and deciduous trees and stumps

would be removed from parcels P45543, P45550, P120304, P128574, and parts of P45548 and P45541. The predominant vegetation on the site includes some Douglas fir (*Pseudotsuga menzisii*), western red cedar (*Thuja plicata*), red alder (*Alnus rubra*), paper birch (*Betula papyrifera*), bigleaf maple (*Acer macrophyllum*), Western swordfern (*Polystichum munitum*), and other native and nonnative grasses and shrubs. See Appendix D: **Biological Assessment**, for details.

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

No threatened or endangered plant species were identified in desktop and field investigations. Please see Appendix D: **Biological Assessment** for details.

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

Approximately 30 acres of vegetation would be retained. A 50-foot vegetative buffer would be retained along Rockport Cascade Road. The project includes an approximately 1.66-acre enhancement area that will be established for water quality purposes. This area will be created to enhance watercourse buffers described in Appendix D: **Biological Assessment**. Further, the Reclamation Plan will be implemented following completion of mining activities. Reclamation activities include reforesting disturbed areas of the site, including mining benches, roadways, and cleared areas. These measures have been incorporated into the Proposed Project's design and operational plans to bring the Proposed Project's potential impacts below the level of significance. See the **Marblemount Quarry Mitigation Plan** (Appendix K)**.** No additional mitigation measures are necessary based on the Proposed Project's design and operational plans.

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

Himalayan blackberry (*Rubus armeniacus*) and common dandelion (*Taraxacum officinale*) were observed onsite.

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: cougar, coyote
fish: bass, salmon, trout, herring, shellfish, other _____

Wildlife was not observed on the site or in the vicinity of the site during our site investigations. There are anecdotal reports of hawks, eagles, songbirds, deer, bear, cougars, and coyote occurring in the project site vicinity as described by the property owners. Reference Appendix D: **Biological Assessment** for detailed observations.

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

Please reference Appendix D: **Biological Assessment** for detailed descriptions of listed species. In summary, state and federal listed species potentially occurring at the project site are:

State Species

Unmasked WDFW PHS data was requested and shows no PHS-listed species occurring at the project site. No PHS-listed species were observed on the project site.

Federal Species

FWS data list the gray wolf (*Canis lupus*) as an endangered species that may occur in the project site vicinity. Additionally, threatened species include the North American wolverine (*Gulo gulo luscus*), grizzly bear (*Ursus arctos horribilis*), Marbeled Murrelet (*Brachyramphus marmoratus*), Northern Spotted Owl (*Strix occidentalis caurina*), Yellow-billed Cuckoo (*Coccyzus americanus*), and bull trout (*Salvelinus conflentus*). Dolly Varden (*Salvelinus malma*) are listed as a PSAT (Proposed Similarity of Appearance [Threatened]). No federally listed species were observed on the Proposed Project site. As determined in the **Biological Assessment** (Appendix D) the federal effects determination for the overall Proposed Project is ***May Affect, Is Not Likely to Adversely Affect*** the biological environment of the area.

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

The site is part of the Pacific Flyway migration route. The site could be part of terrestrial species' migration routes. Aside from the entrances fronting Rockport Cascade Road, the quarry would remain unfenced due to the 100-foot property setbacks required by the County. This would help reduce impacts to terrestrial wildlife using the site as a migration route.

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

Mitigation measures built into the Proposed Project's design include maintaining as much native vegetation as possible, keeping light and glare to a minimum, and eradicating invasive species if they migrate to the site. Additionally, the majority of the site would be unfenced to allow wildlife to use the site as part of a migration route. See Exhibit A: **Engineering Site Plans** and Appendix K: **Marblemount Quarry Mitigation Plan.** Furthermore, site reclamation will restore the site to forested conditions and restore herbaceous balds and talus habitats. All of these measures have been incorporated into the Proposed Project's design and operational plans to bring the Proposed Project's potential impacts to animal life below the level of significance. See the **Marblemount Quarry Mitigation Plan** (Appendix K)**.** No additional mitigation measures are necessary based on the Proposed Project's design and operational plans.

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

No invasive animal species were identified or 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.

Generators will be used for electricity for the construction trailer and maintenance sheds. Diesel fuel and petroleum would be used for operation of mobile mining equipment and trucks.

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:

Mobile mining equipment would be maintained to maximize fuel efficiency. Spill response equipment would be kept onsite and would be used in the event of a spill.

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.

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

There is no known historic contamination at the site. The Department of Ecology What's in My Neighborhood database shows no cleanup sites within one mile of the project site. The site currently contains isolated areas with household refuse products.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

There are no railroads or mapped underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. There is a high voltage electricity transmission line approximately 0.8-mile northwest from the Proposed Project that runs in a roughly northeast direction. The electricity line would not affect or be affected by the Proposed Project.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Diesel, petroleum, explosives associated with blasting, and mobile mining equipment maintenance equipment will be stored onsite. All storage of petroleum products or hazardous materials will be stored above ground in double-walled tanks with secondary containment and would conform to applicable regulations. There are three proposed fuel tanks: 1). A 10,000-gallon off-road diesel tank, 2) a 3,000-gallon highway diesel tank, and 3) a 1,500-gallon gasoline tank. In accordance with SCC 14.16.430(4)(r), all materials associated with blasting will be stored at least 600 feet from Rockport Cascade Road and property lines.

4) Describe special emergency services that might be required.

911 EMS services might be required in the event of an accident/incident.

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

The Proposed Project's design and operational plans include measures to minimize potential for spills or environmental releases, including a requirement that the diesel and gasoline fueling stations will have containment measures to reduce release of contaminants and that care will be taken during refueling to prevent spills. Furthermore, mobile mining equipment will be regularly maintained to reduce the chance of leaks. KIC has a standard spill response container with the necessary equipment to clean up hydrocarbon-based materials used in mining and construction operations. This spill response equipment will be kept onsite. See Exhibit A: **Engineering Site Plans**.

All of these measures have been incorporated into the Proposed Project's design and operational plans to bring the Proposed Project's potential impacts on environmental health below the level of significance. See for reference Appendix K: **Marblemount Quarry Mitigation Plan.** No additional mitigation measures are necessary based on the Proposed Project's design and operational plans.

b. Noise

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

There are no known sources of noise in the Proposed Project area that affect the Proposed Project.

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.

Hours of operation for the site would be 6:00 AM to 6:00 PM Monday through Saturday. Noise impacts at the site (including blasting) would be largely limited to these operating hours. Night shifts may be required for certain contracts. Equipment maintenance would occur from 6:00 AM to 12:00 AM. Normal operations require heavy equipment maintenance after work hours.

A **Sound Analysis** (Appendix E) was prepared to identify and evaluate potential noise impacts of the Proposed Project, and to identify potential mitigation measures that would reduce the potential noise impacts below the level of significance and to comply with applicable regulations. See Appendix E: **Sound Analysis** for details.

Proposed activities at the Marblemount Quarry consist of land clearing, drilling, blasting, excavation, onsite transportation of rock by truck for stockpiling, sizing of rock using hydraulic splitters, load-out of rock, and equipment maintenance. Occasional and intermittent crushing, screening, and load-out of processed rock rip-rap and aggregate would occur. In summary, short-term and long-term noise impacts are as follows:

Short-Term: Land clearing, access road construction, (including clearing, fill activities, and blasting), and site preparation would produce short-term effects that would last approximately six months. Blasting for access road construction would consist of 4-6 small blasts per day for a duration of approximately three months.

Long-Term: Once the site is prepared and quarry activities begin, there would be noise associated with mining equipment, vehicles, blasting to crack oversize rocks (as needed), rock crushing, and noise associated with normal quarry operations. Mining operation blasts would be limited to twice daily maximum. Up to 75 trucks per day could access the site. Both operational blasting and number of truck trips are dependent on market demand; there would be periods of time where very little to no blasting or truck trips would occur.

See Appendix E: **Sound Analysis** for details.

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

The Sound Analysis identified and analyzed potential noise mitigation measures. These recommended mitigation measures have been incorporated into the design of the Proposed Project and the Proposed Project's operational plans. See **Marblemount Quarry Mitigation Plan** (Appendix K) and **Engineering Site Plans** (Exhibit A). In summary, these Proposed Project design features and operational plan elements include maintaining vegetation buffers, managing operation hours, and some on-site noise reduction structures (earthen berms), and BMPs. The Proposed Project's incorporation of these mitigation measures into its design and operational plans reduces the noise impacts to below allowable standards. No additional mitigation measures are necessary based on project design and operational plans.

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.

P45543 is the primary parcel that will be mined. It is zoned RRc-NRL with an MRO on the entire parcel. Sporadic mining of under 3 acres has taken place over the years and a CUP was previously issued for these mining activities.

P128574 is directly south of P45543. It is approximately 38 acres and is zoned SF-NRL with the western half of the parcel currently within the MRO. The parcel was historically used as a small-scale private timber operation but is currently a residential property with residential appurtenances.

P120304 is an approximately 0.6-acre parcel located directly south of P45543. It is zoned SF-NRL with an MRO on the entire parcel and contains a small single-wide manufactured home and associated garage. The manufactured home and garage would be removed as part of the Proposed Project.

P45550 is an approximately 1-acre parcel located directly south of P45543 and west of P120304. It is zoned SF-NRL with an MRO on the entire parcel. There is currently a barn on the parcel which would be removed as part of the Proposed Project.

P45548 is 276-acre parcel zoned SF-NRL, IF-NRL, and RRc-NRL located west of P128574 and south of P128574. The parcel is currently used for forestry operations. An approximately 14.5-acre triangular portion of the parcel has an MRO and is bounded by Rockport Cascade to the west, P128574 and P45550 to the east and P45552 to the south. Approximately five acres of this triangle containing a small gravel pit will be retained by the current landowner. The rest of this triangle portion of the parcel will be used for quarry operations. An approximately 20-acre portion of P45548 south of the southern property line of P128574 is part of the Proposed Project area and does not currently have an MRO. This SEPA checklist covers project-related impacts of future mining on this portion of the parcel, but no quarry-related activities would take place on this portion of the parcel until the MRO is expanded.

P45541 is an approximately 245-acre parcel zoned SF-NRL and IF-NRL. It is currently used for forestry operations. An approximately 10-acre area of this parcel would be used for expansion of the quarry. This section of the parcel is not currently in the MRO. This SEPA checklist covers project-related impacts of future mining activities on this parcel, but no quarry-related activities would take place on this portion of the parcel until the MRO is expanded.

Adjacent land uses include RRc-NRL to the southwest, OSRSI to the northwest, RRv to the north, and SF/IF-NRL to the east and south. The Proposed Project may affect RRv properties to the north and OSRSI uses to the northwest. The largest effects would be noise, vibration, aesthetics, transportation, and potentially fugitive dust. The technical studies appended to this checklist include mitigation measures that have been incorporated into the Proposed Project's design and operational plans so that any potentially significant impacts are reduced to levels below applicable regulatory thresholds.

This SEPA checklist was prepared to address project-related fill and grade, clearing, mining, and reclamation activities that are proposed within the current MRO. It was also prepared to consider project-related activities that would occur after the MRO is expanded. No mining outside the current MRO boundary will take place until the MRO is expanded through the Comprehensive Plan amendment. While this SEPA checklist addresses the impacts of the full extent of mining that would take place after the MRO is amended, the Non-Project SEPA checklist for the Comprehensive Plan Amendment process was prepared and attached for full disclosure.

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?

P45543, P45548, P45541, and P128574 have been used as working forest lands. Currently only P45548 and P45541 are used as working forest lands. The Jordan Creek Fire in 1998 significantly reduced the timber quantity and value in the areas affected by the fire. P45543 has not been logged since before the forest fire. The DNR estimates that approximately 2,700,000 board feet of marketable timber is present on the site. The quantity of marketable timber that would be converted to non-forestry uses on adjacent parcels is approximately 2,700,000 board feet.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides,

tilling, and harvesting? If so, how:

There are no surrounding farms that would be affected by the proposal or that would affect the proposed timber clearing, access road construction, and quarry operations. The clearing of the parcels and associated site activity would not likely affect logging operations to the south and east as the Proposed Project operations would be compatible with adjacent logging. Ongoing logging operations on SF/IF-NRL parcels would not affect the Proposed Project, as there would be no residents onsite and logging operations would be similar in nature to mining activities onsite. The 50-foot vegetative buffer along Rockport Cascade Road and 100-foot setbacks on all property lines would provide additional screening.

c. Describe any structures on the site.

There are no structures on P45543, P128574, P45541, and P45548. P45550 has a 1728 sf general purpose barn. P120304 has a 1988 sf manufactured home and 576 sf detached garage. These parcels have associated residential appurtenances.

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

Yes. All structures described in Part C of this section will be demolished and removed from the project site.

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

P45543: RRc-NRL with MRO
P45541: SF-NRL and IF-NRL
P45548: SF-NRL, IF-NRL, and RRc-NRL with partial MRO
P45550: SF-NRL with MRO
P128574: SF-NRL with MRO
P120304: SF-NRL with partial MRO

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

Same as zoning.

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

The Proposed Project is not in the shoreline jurisdiction.

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

Yes. Geologically Hazardous Areas and Habitat Conservation Area Critical Areas occur within the Project Limits. Wetlands were not identified within the Project Limits. No other Critical Areas were identified. Please reference Appendix A: **Skagit County Geologically Hazardous Areas Critical Areas Report** and Appendix D: **Biological Assessment** for details.

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

There would be no permanent residents onsite. A maximum of 25 KIC employees would work at the site during certain high-volume contracts. A maximum of 10 Cunningham Crushing employees would work onsite during peak operations. While it is unlikely that KIC and Cunningham Crushing would have full staffing at the same time, it is possible that a maximum of 35 employees could be on site at the same time. There will be periods of time when quarry operations are scaled back and few to no employees would work onsite.

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:

The first part of the Proposed Project is located in zones intended for mineral extraction use. The underlying zoning of all six affected parcels supports an MRO. While the MRO does not currently encompass all the affected parcels, at no time will mining or mining-related activities occur outside the MRO. Expansion of the quarry is dependent on receiving an MRO expansion approval; however, The Comprehensive Plan Amendment process will be initiated as a non-project SEPA action. A Non-Project SEPA supplement Part D has been included with this SEPA checklist for the anticipated Comprehensive Plan Amendment to expand the MRO as addressed herein.

The Proposed Project is consistent with the Skagit County Comprehensive Plan goals and policies which support mining and reclamation. Adjacent land uses include RRc-NRL to the southwest, OSRSI to the northwest, RRv to the north, and SF-NRL and IF-NRL to the east and south.

The Proposed Project will comply with all existing applicable regulations to ensure that the quarry has minimal land use impact to adjacent properties. Any impacts that exceed regulated thresholds have been mitigated to ensure compliance with regulations. The largest effects on adjacent areas are anticipated to be noise, vibration, visual resources, and transportation impacts. Proposed Project impacts related to these elements of the environment, among others, have been analyzed and mitigation measures identified that would mitigate impacts below the level of significance. Those mitigation measures have been incorporated into project design and operational plans.

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

Recommended mitigation measures have been incorporated into the Proposed Project's design and operational plans. The Proposed Project will comply with all existing regulations to ensure that the quarry has minimal impacts to forest lands of long-term commercial significance. There are no agricultural lands in the project site vicinity. Reclamation of the site will restore the site

for future forestry land use. No additional mitigation measures are necessary based on the Proposed Project's design and operational plans.

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.

One manufactured home and associated structures would be demolished.

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

None necessary.

10. Aesthetics

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

The tallest height of all proposed buildings is approximately 25 feet. Metal or synthetic coverings are the principal exterior building material for all structures except the sprung structure (Maintenance Facility) which is canvas.

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

Views impacts in the immediate vicinity would be minimal except for at a few locations were unobstructed views of the quarry face exist. Most views are obstructed by vegetation. See Appendix G: **Visual Resources Report** for details.

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

A 50-foot vegetative buffer would be retained along Rockport Cascade Road to act as a visual screen as recommended by the Appendix G: **Visual Resources Report**. Additionally, a 100-foot setback from mining activities would be maintained on all property lines. This setback would help to reduce aesthetic impacts to the adjacent property which is zoned SF/IF-NRL and is undeveloped. The 50-foot and 100-foot vegetative buffers will provide visual screening. These features have been incorporated into the Proposed Project's design. See Exhibit A: **Engineering Site Plans**. Reclamation that includes reforestation will reduce the visual impacts over time. All of these measures have been incorporated into the Proposed Project's design and operational plans to bring the Proposed Project's potential impacts to visual resources below the level of significance. See the **Marblemount Quarry Mitigation Plan** (Appendix K)**.** As a result, no additional mitigation measures are necessary.

11. Light and Glare

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

Truck headlights and lights from the construction trailer, shop, and fueling station would be sources of light. There could be potential glare from equipment windshields. The hours of operation (6:00 AM to 6:00 PM) would minimize the effects of light and glare.

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

The 50-foot vegetative buffer on Rockport Cascade Road and 100-foot vegetative buffer setbacks on property lines would provide screening that would minimize the effects of light and glare and would reduce interference with views.

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

None known.

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

The 50-foot and 100-foot vegetative buffers will provide visual screening of any light or glare onto adjacent properties. The vegetative buffers will also help light or glare diffuse by the time the light reaches adjacent properties. These features have been incorporated into the Proposed Project's Design. See Appendix G: **Visual Resources Study** and Exhibit A: **Engineering Site Plans**. These measures have been incorporated into the Proposed Project's design and operational plans to bring the Proposed Project's potential light and glare impacts below the level of significance. See the **Marblemount Quarry Mitigation Plan** (Appendix K)**.** As a result, no additional mitigation measures are necessary.

12. Recreation

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

The Skagit River is a popular fly fish destination. There is a public fly-fishing area approximately 1.1 miles northeast of the site. The North Cascades National Park Wilderness Visitor Center is located approximately two miles directly north. There are no sanctioned parks and recreation areas in the immediate vicinity of the project site. Pressentin Park is the closest park, approximately 0.8-mile northeast of the project site. There is a parcel zoned OSRSI approximately 250 feet northwest of P45543. To our knowledge, there is a State Park building on that site, but it is not an officially-designated recreation area.

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:

None necessary.

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? If so, specifically describe.

None were identified in Appendix H: **Cultural Resources Report**.

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.

A Cultural Resources Report was prepared by Drayton Archaeology. Background review and field investigation were performed onsite to determine whether any landmarks, features, or other evidence of Indian or historic use or occupation exists on the site. No evidence of any of the aforementioned Indian or historic uses were found. See Appendix H: **Cultural Resources Report** for details.

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.

A **Cultural Resources Report** by Drayton Archaeology was prepared. See Appendix H for details.

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 on the findings of the Cultural Resources Report, no mitigation or further archaeological oversight is recommended. However, inadvertent discovery protocols are included in the Cultural Resources Report. Should any inadvertent discoveries be made during the entirety of the site clearing and project construction process, all work will stop and Skagit County and the Washington State Department of Archaeology and Historic Preservation will be notified. These inadvertent discovery protocols and requirements are included in the Appendix K: **Marblemount Quarry Mitigation Plan** and Appendix L: **Marblemount Quarry Operations Proposal** for the Proposed Project. As a result, no additional mitigation measures are necessary based on the Proposed Project's mitigation and operational plans.

In summary, the inadvertent discovery requirements are: Pursuant to 36 CFR Part 800.13 of the National Historic Preservation Act: "Post-Review Discoveries," in the event that ground disturbing or other construction activities result in the inadvertent discovery of archaeological resources, work would stop immediately. At that time, the appropriate persons to be notified should be informed of the exact nature and extent of the resource so that measures can be taken to secure the resources.

Pursuant to 4 CFR Part 10.4 (2006) of the Native American Graves Protection and Repatriation Act (NAGPRA): "Inadvertent Discoveries," in the event that ground disturbing or other

construction activities result in the inadvertent discovery of human remains, work shall stop immediately. A Tribal representative and Bureau of Indian Affairs (BIA) archaeologist shall be contacted immediately. No further ground disturbance shall occur until the county coroner, tribal official, and BIA archaeologist examine the remains and agree on the appropriate course of action.

14. Transportation

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

The project site is accessed from Rockport Cascade Road, which roughly parallels SR-20 on the south side of the Skagit River. Rockport Cascade Road intersects with SR-530 to the southwest of the project site and Cascade River Road to the northeast. The site will be accessed from two gravel access driveways to Rockport Cascade Road. See Appendix I: **Traffic Impact Analysis** for details.

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 public transit on Rockport Cascade Road. The nearest Skagit Transit stop is on SR-20 at Rockport Caboose, approximately 3.5 miles from the project site (Route 750).

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

Up to 35 parking spaces will be created for this project. No parking spaces will be eliminated. See Exhibit A: **Engineering Site Plans** and Appendix I: **Traffic Impact Analysis** for details.

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

The project will not result in the need for any improvements to public transportation systems as determined by consultation with Skagit County Public Works and Washington State Department of Transportation. See Appendix I: **Traffic Impact Analysis** for details.

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?

The Proposed Project would have a maximum of 75 loaded trucks leaving the site per day during full quarry operations. Up to 50 trips would be flatbed trucks hauling jetty stone. Up to

25 trucks would be dump trucks hauling non-jetty stone rock material. In all, the Proposed Project could generate up to a total of 260 daily single-direction vehicle trips to and from the quarry, Monday through Saturday. This number includes jetty-related truck trips; non-jetty-related truck trips; employee trips; and service, vendor, and delivery vehicle trips. The peak vehicle volume would likely occur between 6 and 7 am, when the majority of the employees arrive at the site. Approximately 75 percent of the trips would be commercial trucks. The Beaver Lake Quarry in Mt. Vernon is currently supplying jetty stone, but it is nearly depleted. As the Beaver Lake Quarry operations end and the Marblemount Quarry operations begin, the Marblemount Quarry jetty stone volume will replace the Beaver Lake Quarry jetty stone volume. See Appendix I: **Traffic Impact Analysis** for details.

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 addition of new truck trips is not likely to interfere with the movement of agricultural and forest products on roads or streets in the area. Rockport Cascade Road and SR-530 are relatively infrequently traveled and have very low crash histories (see Appendix I: **Traffic Impact Analysis**). Semi trucks, logging trucks, and other on-highway vehicles are common on SR-20. The addition of quarry truck trips would not likely interfere with, affect, or be affected by the movement of agricultural and forest products.

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

All intersections studied in Appendix I: **Traffic Impact Analysis** meet the local Level of Service (LOS) standards; therefore, no mitigation is required. See Appendix I: **Traffic Impact Analysis** for details. As a result, no additional mitigation measures are necessary based on the Proposed Project's design and operational plans.

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.

The Proposed Project may result in an increased need for fire protection/EMS if an incident occurs. Otherwise, the Proposed Project is not anticipated to result in a substantial need for increased public services. The quarry would not likely generate significant impacts to fire protection, police protection, public transit, health care, schools, or other public facilities that would require services to expand to meet increased need.

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

KIC's **Operations Proposal** (Appendix L) and safety plan provides that all staff have undergone proper training, that explosives are stored correctly according to the **Blasting Plan** (Exhibit C) and that all regulations are followed. Based on the Operations Plan and the Proposed Project's design, the Proposed Project's potential impacts to public services are below the level of significance. As a result, no additional mitigation measures are necessary.

16. Utilities

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

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

A residential well and septic system are currently in place on P120304. Both the well and septic system will be decommissioned by a licensed operator. Water for drinking, washing, and site operations will be trucked in from legally obtained public water supply sources. Porta-Potties will be used in lieu of a septic system. Generators will be used for electricity for the construction trailer and maintenance buildings.

Supplemental sheet for nonproject actions

(**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 **proposed MRO expansion area is 43 acres**. The MRO expansion would enable an increase of the surface mine area by approximately 10 acres and stockpile area by approximately 15 acres. In addition to the surface mine and stockpile area expansion previously noted (approximately 25 acres), the MRO expansion will also include vegetation retention areas, buffers, and an access road (approximately 18 acres). While the MRO expansion would be a legislative action, it would result in some physical impacts if quarry expansion results from the MRO expansion. The MRO expansion would allow the quarry activities proposed in Step 2 as described in the project SEPA checklist to expand in Step 3. The impacts for Step 3 would be consistent with those of Step 2 except for duration. The impacts analyzed in the SEPA checklist consider the full buildout potential (Steps 2 and 3). Expansion of the MRO as proposed would enable expansion of the quarry to meet anticipated market demand for the unique material.

As a result of quarry expansion, it is anticipated that storage of hazardous substances, traffic, noise and vibration impacts would be prolonged. Mitigation measures to address project impacts were developed and integrated into the project design and operations plan and include mitigation measures for full project buildout, including future phase (Step 3) mining expansion. Please reference Appendix K: **Marblemount Quarry Mitigation Plan**, Exhibit A: **Engineering Site Plans**, and Appendix L: **Marblemount Quarry Operations Plan**.

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

The proposed MRO expansion would enable quarry expansion. Quarry expansion would result in a footprint expansion of approximately 25 acres. Site clearing for the future phase will have been completed in Step 1 and mining and quarry site development will have been initiated in Step 2, two steps that are not dependent upon expansion of the MRO boundary. Therefore, there would not be an increase in impact to plants, animals, fish, or marine life resulting from the proposed MRO expansion or proposed mine activities expansion. Mitigation measures to address impacts to plants and animals was accounted for in Appendix K: **Marblemount Quarry Mitigation Plan**.

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

The proposed MRO expansion would not directly deplete energy or natural resources. Indirect effects of the proposed MRO expansion would include expansion of the Marblemount Quarry and an increase in duration (but not intensity) of quarrying and transport activities associated with the Marblemount Quarry. This would result in an increased depletion of energy or natural resources. The amount of quarried jetty rock from the proposed expanded area (Step 3—future phase) would be approximately 5.8 million cubic yards; an approximately 150 percent increase to the projected current Step 2 (in existing MRO) rock volume. This would constitute a larger depletion of total Shuksan greenschist source material. The increased duration of quarrying activities would result in increased use of petroleum products.

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 proposed MRO expansion would not directly use or affect environmentally sensitive areas or areas designated for governmental protection. There are no parks, wilderness, wild and scenic rivers, historic or cultural sites, wetlands, floodplains or prime farmland within the proposed expanded MRO area. Indirect effects of the proposed MRO expansion would enable the potential for expansion of the Marblemount Quarry which, as designed, would result in an increase in the mining and stockpile area footprints and increase the duration of impacts identified in the SEPA checklist. All technical studies appended to this SEPA checklist considered the full buildout conditions for their impact analyses. Critical Areas assessments identified appropriate mitigation measures that were integrated into site design and operations plan.

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 proposed MRO expansion would have no direct impacts on shoreline use. The MRO expansion would temporarily remove approximately 36 acres from forestry land use while the quarry is in operation. Reclamation plans call to restore forestry land uses following mining activities. The return to forestry following mining is consistent with the underlying zoning and Comprehensive Plan goals and policies.

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

The proposed MRO expansion will result in the use of transportation systems and potentially some public services. The **Traffic Impact Analysis** (Appendix I) revealed only minor impacts to the existing transportation system resulting from this project. Assuming the Marblemount Quarry is approved for mining, the MRO expansion would not create new impacts but would result in an increased duration of the impacts.

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

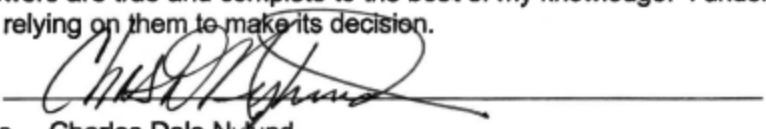
- Work within the parameters established in Exhibit A: **Engineering Site Plans**, Appendix K: **Marblemount Quarry Mitigation Plan** and Appendix L: **Marblemount Quarry Operations Proposal**.
- Follow local regulations established for transport and hauling.
- Follow safety plans and provide regular safety trainings and meetings.

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

The proposed MRO expansion does not conflict with local, state, or federal laws or requirements for the protection of the environment. Detailed assessments were completed as part of the SEPA checklist preparation. All potential impacts identified in the assessments were mitigated such that the project that may result from the MRO expansion will be compliant with all applicable environmental laws. Mitigation measures are provided in the Exhibit A: **Engineering Site Plans**, Appendix K: **Marblemount Quarry Mitigation Plan** and Appendix L: **Marblemount Quarry Operations Proposal**.

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 Charles Dale Nylund

Position and Agency/Organization Kiewit Infrastructure Co.

Date Submitted: JAN 22, 2019