

## COUNTY OF NEVADA

### PROJECT INFORMATION QUESTIONNAIRE **R1**

*The information provided in this questionnaire will be used for preparation of the project Initial Study (environmental review) and for overall project review. All questions must be answered completely with legible responses, typed or in black ink, providing more than a simple "yes", "no" or "NA" response. Attach separate written discussion pages where needed to provide a complete response.*

#### **1. Project Description:**

##### **a. Describe the proposed project including any proposed phasing:**

Rise Grass Valley Inc. ("Rise") proposes to reinstate underground mining and gold mineralization processing of the Idaho-Maryland Mine (the "project") in unincorporated Nevada County. The proposed facilities and operations will be located on two properties owned by Rise named the Brunswick Industrial Site and the Centennial Industrial Site, also referred to as the Brunswick site and Centennial site.

The project is described in detail in the Project Description included with this application.

Photos of the site and a site plan Photo Location Key indicating where photos were taken are included in Appendix A of this application form.

##### **b. Are any exceptions to required standards proposed or required for this project (a Variance, a Petition for Exceptions or a Management Plan to encroach into any sensitive resources)? If yes, identify the nature of the proposed variance, exception or management plan:**

The following exceptions to required standards are required for this project:

- Variance to exceed building height standard of 45ft.
- Management Plan for Watercourse / Wetlands / Riparian Areas.
- Habitat Management Plan for the Pine Hill Flannelbush (*Fremontodendron decumbens*).

##### **c. Code Violations: To your knowledge, are there any Code violations occurring on this property, including the issuance of a Warning Notice or a Citation for the subject property?**

Yes       No      If Yes, describe:

**2. Land Use:**

**a. Does this project have a relationship to a larger project or a series of projects?**

Yes       No      **If Yes, describe:**

**b. Describe existing on-site land uses:**

Mineral exploration by surface exploration core drilling has been completed over the last several years and may re-commence at any time. This mineral exploration is an allowed use on the property.

**c. Describe surrounding land uses, indicating distance to nearest residence:**

Land uses are described in the Environmental Assessment form of the Mining Use Permit Application (A.1.3) and in Section 5.3 "Surrounding Land Uses" of the Project Description included in this application.

The nearest residence at the Centennial site is located ~285 ft from the property boundary and at the Brunswick site is located ~50 feet from the property boundary.

**d. Describe project potential to change the character of the surrounding area, including the loss of open space.**

None.

**e. Will this project displace any residential units?**

Yes       No      **If Yes, describe:**

**f. Will this project result in a population increase in the immediate project area?**

Yes       No      **Explain:**

**g. List any specialized plans or zoning restrictions applicable to this project site, e.g., an "SP" zoning, a Master Plan, a Specific Plan, an Area Plan, an Airport Land Use Plan?**

The parcels comprising the Brunswick site are zoned M1-SP.

The Application is seeking a zone change on the six Brunswick site parcels from Light Industrial with Site Performance Combining District (M1-SP) to Light Industrial with Mineral Extraction Combining District (M1-ME).

**3. Geology/Soils**

**a. A Preliminary Grading Plan is attached.**     Yes       No

**b. A Soils/Geologic Report is attached.**       Yes       No

A geotechnical assessment report for the Brunswick Industrial Site, prepared by NV5 Global, Inc. (Holdrege & Kull), is included with this application.

A geotechnical assessment report for the Centennial Industrial Site, prepared by NV5 Global, Inc. (Holdrege & Kull), will be submitted before the end of December 2019.

**c. Slopes that exist on site prior to grading:**

SLOPES EXISTING ON SITE PRIOR TO GRADING

Type	Acres	% of site
<b>Brunswick Industrial Site</b>		
Gentle (0-10%)	60	50%
Rolling (10-30%)	53	45%
Steep (more than 30%)	6	5%
<b>Centennial Industrial Site</b>		
Gentle (0-10%)	42	75%
Rolling (10-30%)	12	22%
Steep (more than 30%)	2	3%

Slopes greater than 30% are highlighted on the preliminary grading plans, prepared by Nevada City Engineering, included with this application.

**d. Does the project propose to encroach into slopes of 30% or greater?**

Yes

**If yes, is a Management Plan included in this application?**       Yes       No

A geotechnical assessment report for the Brunswick Industrial Site, prepared by NV5 Global, Inc. (Holdrege & Kull), is included with this application.

A geotechnical assessment report for the Centennial Industrial Site, prepared by NV5 Global, Inc. (Holdrege & Kull), will be submitted before the end of December 2019.

**Is the site on filled land?**       Yes       No      **If yes, explain:**

The Centennial Industrial Site was historically used by the Idaho-Maryland Mine to deposit mine tailings and historic mine tailings and rock currently remain on the site. The Brunswick site has areas which have been filled to create level areas on site.

A geotechnical assessment report for the Brunswick Industrial Site, prepared by NV5 Global, Inc. (Holdrege & Kull), is included with this application.

A geotechnical assessment report for the Centennial Industrial Site, prepared by NV5 Global, Inc. (Holdrege & Kull), will be submitted before the end of December 2019.

- e. **Are there existing erosion problems or geologic hazards occurring on this site, such as landslides, mudslides, ground failures, earthquake faults or similar hazards? If yes, describe:**

No.

- f. **Will a grading permit be required?**       **Yes**       **No**  
**If yes, have you attached a preliminary grading plan?**       **Yes**       **No**

**Describe proposed site grading:**

**How many cubic yards of soil will be imported, exported or moved on site?**

During construction at the Brunswick site, approximately 60,000 cubic yards will be moved on-site for grading work and detention pond construction. Additionally, approximately 50,000 cubic yards will be excavated and then replaced during construction of the Service shaft.

Approximately 1,440,000 yards of engineered fill will be placed on the Brunswick site and 1,040,000 yards of engineered fill will be placed on the Centennial site during the mine operation. Dry density for engineered fill is assumed at 115 lbs /ft<sup>3</sup> for conversion of tons to cubic yards.

**Maximum proposed depth and slope of any excavation and the type:**

Maximum depth of excavation will be ~60 feet at the Service shaft location at the Brunswick site and will have excavated wall slopes of 1H:1V. The overburden (i.e., soil and weak rock) will be excavated from the surface and a concrete collar installed from the surface profile to the bedrock. The depth to bedrock is approximately 60 feet. The overburden material will be excavated to allow the shaft and concrete collar to be constructed, and then the overburden will be placed and compacted around the concrete collar to the original ground surface elevation.

**Grading material sources or disposal sites:**

Grading material for construction at the Brunswick site will be derived from cut material onsite.

Approximately 1,440,000 yards of engineered fill will be placed on the Brunswick site and 1,040,000 yards of engineered fill will be placed on the Centennial site during the mine operation. Engineered fill will be sourced from barren rock and sand tailings producing from underground mining.

**Transport methods and haul routes:**

**Route A: Brunswick Industrial Site to Centennial Industrial Site**

Engineered fill placed on the Centennial site will be trucked, in 20-ton loads, from the Brunswick site on the following route:

Loaded trucks exit Brunswick site at the E. Bennett Road exit, east to Brunswick Road, north on

Brunswick Road to Whispering Pines Lane, west on Whispering Pines Lane to Centennial Industrial Site.

Empty trucks from Centennial site to Whispering Pines Lane, east on Whispering Pines Lane to Brunswick Road, south on Brunswick Road to the Brunswick Road entrance to Brunswick site.

Route B: Brunswick Industrial Site to Brunswick Industrial Site

Engineered fill placed on the Brunswick site will be trucked, in 20-ton loads, within the Brunswick site. No off-site transport is required.

Route C: Brunswick Industrial Site to State Route 20/49

Engineered fill to be utilized in local and regional construction markets will be trucked, in 20-ton loads, from the Brunswick site on the following route:

Loaded trucks exit Brunswick site at the E. Bennett Road exit, east to Brunswick Road, north on Brunswick Road to access State Route 20/49.

Empty trucks will return by State Route 20/49, south on Brunswick road to the Brunswick road entrance to Brunswick site.

**The location and height of any proposed or required retaining walls:**

A loading bay at the proposed warehouse on the Brunswick site will have retaining walls up to 4 feet below ground surface.

Refer to Drawing B303 and Section 5.2.5 “*Retaining Wall Design Criteria*” of the Geotechnical Engineering Report for the Brunswick Industrial Site prepared by NV5 Global, Inc. (Holdrege & Kull).

**4. Water Quality:**

**Describe any water bodies on, or adjacent to, the property, including lakes, rivers, creeks, seasonal and/or perennial water courses, irrigation ditches or drainage swales.**

The main stem of Wolf Creek runs west through the north side of the Centennial site. South Fork Wolf Creek originates at the Brunswick Site and runs northwesterly through the Brunswick Site.

A constructed clay lined pond is located on the Brunswick site.

Aquatic resources are described in two reports included with this application:

*Brunswick Industrial Site and East Bennett Road ROW Aquatic Resources Delineation of Water of the United States and State of California.* Greg Matuzak Environmental Consulting LLC. 2019.

*Centennial Industrial Site Aquatic Resources Delineation of Water of the United States and State of California.* Greg Matuzak Environmental Consulting LLC. 2019.

- a. Is there a floodplain on or within 100 feet of this project site? If yes, is it identified on the Federal Emergency Management Agency (FEMA) maps and have you included a copy of that map with this application?  Yes  No**

No floodplains occur at the Brunswick site.

The Centennial site has an area identified on a FEMA map. The identified floodplain area is outside the planned project footprint as shown on Drawing C101.

A copy of the FEMA map at the Centennial site is included in Appendix B of this application form.

- b. For development projects, describe impervious surfacing created by this project:**

At the Brunswick site, ~9.1 acres are currently paved with asphalt which remains from the previous use as the Bohemia Lumber Mill. The only structure on site is the historic concrete silo at the Brunswick shaft. Some areas of existing paving will be removed, and additional areas will be paved. Final paved areas are estimated at ~11.8 acres and buildings will cover ~3.2 acres. Planned landscaping exceeds the minimum required landscaping for parking areas of ~0.2 acres. Remaining open spaces on the site, after development, includes large areas of existing forest areas and wetland meadows. Remaining open spaces create significant visual screening, residential buffers, and street buffers.

At the Centennial site, an existing paved private driveway crosses the northwest side of site to access DeMartini RV Sales which is located on adjacent property. A small metal building and an area of paving exists on the northeast side of the site related to the inactive Hap Warnke Sawmill and will be removed. The project does not propose any new paving at the Centennial site.

**IMPERVIOUS SURFACING**

Lot Coverage	Existing %	Proposed %
<b>Brunswick Industrial Site</b>		
Building coverage	0.1%	2.7%
Surfaced areas	7.7%	9.9%
Landscaped areas(required)	0%	0.2%
Open space (excluding <u>required</u> landscaping)	92.2%	87.2%
<b>Total</b>	<b>100%</b>	<b>100%</b>
<b>Centennial Industrial Site</b>		
Building coverage	0.1%	0%
Surfaced areas	2.5%	0.8%
Landscaped areas	0%	0%
Open space (excluding <u>required</u> landscaping)	97.4%	99.2%
<b>Total</b>	<b>100%</b>	<b>100%</b>

- c. Describe any discharge to surface waters that will result from this project, including any wastewaters other than storm water runoff that may be present in the discharge:**

Groundwater pumped from the underground mine will be pumped to surface at the Brunswick site, treated, and then discharged to South Fork Wolf Creek.

A hydrology and water quality analysis report, prepared by EMKO Environmental Inc., will be submitted

before the end of December 2019.

A water treatment plant design report, prepared by Linkan Engineering, will be submitted before the end of December 2019.

The treated water pipeline and outfall is discussed in a report included with this application:  
*Hydrology and Hydraulic Calculations for the Preliminary Drainage Study & Detention Basin Sizing for Centennial and Brunswick Sites*. Nevada City Engineering. October 2019.

**d. Identify the water body or feature that receives runoff waters, describing proposed methods for treating and controlling runoff before it enters the drainage or watercourse.**

Water bodies that receive runoff water from the sites are as follows:

Centennial Industrial Site: Wolf Creek  
Brunswick Industrial Site: South Fork Wolf Creek

Detention ponds constructed on each site will control run-off before drainage enters the watercourse. The storm water drainage system is described in a report included with this application:

*Hydrology and Hydraulic Calculations for the Preliminary Drainage Study & Detention Basin Sizing for Centennial and Brunswick Sites*. Nevada City Engineering. October 2019.

**e. Will a permit be required from the California Regional Water Quality Control Board?**  
 **Yes**       **No**

**If application for a State permit has been made, provide the permit #:\_\_\_\_\_.**

**f. Are there any wetlands or riparian areas on this site?**       **Yes**       **No**  
**If yes, describe:**

Wetlands and riparian areas are described in the aquatic resources delineations included with this application:

*Brunswick Industrial Site and East Bennett Road ROW Aquatic Resources Delineation of Water of the United States and State of California*. Greg Matuzak Environmental Consulting LLC. 2019.

*Centennial Industrial Site Aquatic Resources Delineation of Water of the United States and State of California*. Greg Matuzak Environmental Consulting LLC. 2019.

**Will wetlands be affected by the proposed project?**       **Yes**       **No**

**Will an Army Corps of Engineers wetlands permit be required?**  **Yes**       **No**

**If yes, is correspondence to or from the Army Corps attached?**       **Yes**       **No**

**g. Does this project propose to encroach into the required buffer from any perennial or seasonal waterbodies or riparian area?**  Yes  No

**Yes, is a Management Plan included in this application?**  Yes  No

**5. Air Quality:**

**a. Describe any air pollutants, i.e. dust, smoke, fumes or odors, which may be generated by this project both during and after construction (short and long term impacts).**

An air quality assessment report, prepared by Dudek, to be submitted before the end of December 2019.

**b. Is the project site mapped within an area known to contain naturally occurring asbestos?**

Yes  No **Source of information:**

Serpentinite mapped in area by USGS and Rise Grass Valley Inc. testing of serpentinite in drill core.

Additional information pertaining to management of naturally occurring asbestos is included in Section 4 “Conclusions” of the Geotechnical Engineering Report for the Brunswick Industrial Site prepared by NV5 Global, Inc. (Holdrege & Kull).

**6. Transportation / Circulation:**

**a. A traffic study is included with this application.**  Yes  No

A traffic impact analysis report, prepared by KD Anderson & Associates, Inc. Transportation Engineers, will be submitted before the end of December 2019.

**b. Does this project require/include a Petition for Exceptions?**  Yes  No

**c. Describe the access roads serving this project:**

Brunswick Road and E. Bennett Road serve the Brunswick Industrial Site. Whispering Pine Lane serves the Centennial Industrial Site. Whispering Pines Lane becomes Centennial Drive where the road turns north until it intersects Idaho Maryland Road.

**ACCESS ROADS SERVING PROJECT**

Road Name	Right of Way Width (ft)	Surfacing	Finish Grade
<b>BRUNSWICK INDUSTRIAL SITE</b>			
Brunswick Road	100 ft	Asphalt	~4.0% at entrance to Brunswick site
E. Bennett Road	~75 ft	Asphalt	~6.5% at entrance to Brunswick site
<b>CENTENNIAL INDUSTRIAL SITE</b>			
Whispering Pines Lane	50 ft	Asphalt	~5.5% at entrance to Centennial site

- d. Is the access road serving the site a dead-end road?**     Yes     No

**If yes, what is the distance to the nearest through road?**

N/A

- e. Who provides the road maintenance for each road accessing your project?**

Nevada County – Brunswick Road, E. Bennett Road

City of Grass Valley – Whispering Pines Lane

- f. Will this project result in substantial or cumulative impacts to the circulation system in this area?**     Yes     No    **Explain:**

A traffic impact analysis report, prepared by KD Anderson & Associates, Inc. Transportation Engineers, will be submitted before the end of December 2019.

- g. What road improvements are proposed?**

A new left turn lane to access the Centennial site from Whispering Pines Lane will be proposed and options for this design will be included in a traffic analysis report, prepared by KD Anderson & Associates, Inc. Transportation Engineers, which will be submitted before the end of December 2019.

- h. Describe how this project provides for pedestrian needs, pursuant to Sec. L-II 4.1.8 of Zoning Regulations and the Nevada County Non-Motorized Pedestrian Plan:**

A pedestrian pathway is incorporated into the project design for the Brunswick site. The pathway originates at the Brunswick Road entrance to the site. The pathway follows the interior site road adjacent to the parking facility and leads to the site office and changeroom buildings. A second pathway leads from the office/changeroom building to the processing plant building. The office/changeroom building is linked to the Service Shaft building by an enclosed breezeway.

- i. Describe how this project will provide transportation alternatives pursuant to Sec. L-II 4.1.9 and General Plan Policy RD-4.3.1, including:**

- 1) The estimated number of employees or residents that will work/live on the project site.**

The project is estimated to employ ~312 persons during full operations and have up to ~107 employees working onsite at one time. The majority of employees will work on the Brunswick site. No employees or residents will live on the project sites.

- 2) Identify existing and potential alternatives to individual automobile use, including but not limited to, access to public transportation services, bicycle racks, or provisions for developer-sponsored carpooling or bussing.**

The closest bus stop to the Brunswick site is located approximately 1-mile distance on Whispering Pines Lane and will therefore limit the use of public buses by project employees. The project design will include bicycle racks at the Brunswick site in accordance with Sec. L-II 4.2.9. Bicycling to work is likely not safe for

most employees but some experienced cyclists may choose to use bicycles as a mode of transportation. No sidewalks are present on roads accessing the site and walking may not be safe for most employees. The company plans to develop a car-pooling incentive program as an alternative to individual automobile use.

**3) Proposals to incorporate one or more measures into the project to ensure use of viable alternatives.**

The company plans to develop a car-pooling incentive program as an alternative to individual automobile use by employees.

**4) For projects employing 50 or more persons: describe feasible measures for reducing auto dependence.**

The company plans to develop a car-pooling incentive program as an alternative to individual automobile use by employees. An analysis of transportation alternatives report will discuss feasible measure for reducing auto dependence will be submitted before the end of December 2019.

**7. Biological Resources:**

- a. Is the required Biological Inventory attached?  Yes  No
- b. Is a Management Plan for encroachment into sensitive biological resources required?  
 Yes  No If yes, is it included in the Inventory?  Yes  No

**c. How many native oaks exist on the project site?**

No Landmark Trees, Landmark Groves, Heritage Trees and Groves, or protected oak resources are in proposed disturbance areas on the Brunswick or Centennial sites.

**d. How many oaks have trunk diameters of 36" or more, measured at breast height (4')?**

None in proposed disturbance areas.

**e. Number, size, type and location of trees that will require removal, including those for road and sewage disposal construction (as shown on site plan):**

On the Brunswick site, approximately 18.7 acres of forested areas (Montane Hardwood-Conifer, Montane Hardwood, Ponderosa Pine, and Sierran Mixed Conifer vegetation communities) will be disturbed and trees will require removal.

On the Centennial site, up to approximately 5.3 acres of forested areas (Montane Hardwood-Conifer and Montane Hardwood vegetation communities) will be disturbed and trees will require removal.

Biological resource assessments included with this application describe the vegetation communities and

project impacts:

*Brunswick Industrial Site and East Bennett Road ROW Biological Resources Assessment.* Greg Matuzak Environmental Consulting LLC. 2019.

*Centennial Industrial Site Biological Resources Assessment.* Greg Matuzak Environmental Consulting LLC. 2019.

*Technical Memorandum for Centennial Industrial Site: Idaho-Maryland Mine Project - Biological Resources Impact Assessment.* Greg Matuzak Environmental Consulting LLC. 2019.

Construction of the septic field will have minimal impact on trees. The site evaluation for an on-site sewage disposal system recommends leaving as many trees as possible for various beneficial reasons. The site evaluation for an on-site Pressure Dose sewage disposal system is detailed in a letter report, prepared by Navo & Sons, Inc., included in Appendix A of the Environmental Assessment of the Mining Use Permit Application.

**f. Is a Tree Protection Plan for trees to be retained attached or addressed in your Biological Inventory?**      Yes      No

**g. Does this project have the potential to preclude the future use of any natural resource i.e., forests or water?**      Yes      No     **If yes, explain:**

**h. Has this site been logged site in the last 10 years?**      Yes      No

**If yes, was a Timber Harvest Plan approved?**      Yes      No

**Is there an active Timber Harvest Plan on file?**      Yes      No

***If yes to either, a copy of the approved and/or proposed Plan(s) is attached.***

**8. Mineral Resources:**

**a. Is this site mapped as an MRZ-2, Significant Mineralized Area, by the State Dept. of Conservation?**       Yes       No

**b. Does this project have the potential to deplete any non-renewable minerals?**

Yes      No     **If yes, explain:**

The project will mine and process a gold deposit.

**9. Risk of Upset/Health Hazards**

a. Have you included the required Nevada County Hazardous Materials/Waste Statement with this application?  Yes  No

b. Do you have knowledge, or is there evidence, of any past, potentially hazardous materials use, including underground fuel storage tanks, dumpsites, or surface or subsurface mining activity?  Yes  No

**If yes, a Phase I Assessment must be submitted with this application. Contact the County Department of Environmental Health for information regarding what research must be conducted for the specified past use.**

A Phase I Assessment is not included with this application. Numerous advanced environmental studies have been completed on the project and supporting reports are either included with this application or will be submitted before the end of December 2019.

As a separate project, Rise is working with the California Department of Toxic Substances Control (DTSC) under a voluntary cleanup agreement to develop a plan that consolidates and caps contaminated soils in a manner consistent with current federal and state regulations.

The Idaho-Maryland Mine, located in the Grass Valley – Nevada City mining district of northern California, was one of the most productive and best-known gold mines in the United States. The Idaho-Maryland Mine has a rich history of gold production and mining work completed between 1863 and 1956 by various operators.

The Idaho-Maryland Mine represents a consolidation of several important early day producing mines including Eureka, Idaho, Maryland, and Brunswick Mines. Based on historic production records, these mines produced a total of 2.4M oz gold at an average mill head grade of approximately 0.5oz/ton (17.1 grams per metric tonne (“gpt”).

The I-M Mine was reportedly the second largest gold mine in the United States in 1941, producing up to 129,000 oz gold per year before being forced to shut down by the US government in 1942 due to World War II. Significant production after the war-time shutdown never occurred.

c. Does this project propose the handling, storage or transportation of any potentially hazardous materials, toxic substances, flammables or explosives?  Yes  No

**If yes, briefly describe the potentially hazardous materials:**

Explosives will be used for underground mining. Explosives are transported to the site from the manufacturer and then immediately moved and stored underground in secure explosive magazines. Reagents used for mineral processing and water treatment will be stored in the proposed warehouse with operational quantities stored in the Process Plant and Water Treatment buildings. Various supplies including greases, oils, welding gases, and solvents needed for mining operations will be stored in the proposed warehouse or maintenance buildings. Diesel fuel will be stored on surface in a 30,000 gallon tank and in small storage and mobile equipment tanks underground.

- d. Will the proposed project include the use of hazardous materials in quantities greater than 55 gallons, 200 cubic feet or 500 pounds?  Yes  No

*If yes, have you attached a Hazardous Materials Inventory Statement with this application?*  Yes  No

- e. Does this project propose, or will this project result in, the generation of hazardous waste as defined by the California Health & Safety Code, Chapter 6.5?  
 Yes  No

- f. Does this project propose fuel tanks, either above or below ground? *If yes, in what quantities?*

Brunswick Industrial Site

Diesel fuel will be stored on surface in a 30,000 gallon tank and in small storage and mobile equipment tanks in the underground mine.

Centennial Industrial Site

Diesel fuel will be stored on surface in a 1,200 gallon tank.

- g. Is this project site within two air miles of an airport?  Yes  No

*If yes, is the project site mapped with the boundaries of an airport Comprehensive Land Use Plan (CLUP)?*  Yes  No

The northern half of the Brunswick Industrial site is mapped within Zone D (Traffic Pattern Zone) and the southern half is mapped within Zone E (Other Airport Environs) of the Nevada County Airport Land Use Compatibility Plan.

The northeast corner of the Centennial Industrial site is mapped within Zone C (Inner Approach Zone) and the southeast corner of the site is mapped within Zone D\* (Urban Overlay Zone) of the Nevada County Airport Land Use Compatibility Plan.

**10. Noise:**

- a. Is a Noise Study attached?  Yes  No

- b. Describe any noise-sensitive land uses (homes, schools, hospitals, churches, libraries, nursing homes) within a half-mile of the project site.

Noise-sensitive land uses are described in the noise study included with this application:

*Noise and Vibration Analysis Idaho Maryland Mine.* Bollard Acoustical Consultants, Inc. 2019

- c. **Describe any noise that will be generated by this project both during and after construction; identifying the noise source and the hours of operation for the noise generating use, including any outdoor activity areas, i.e., storage yards, outdoor music, playgrounds, animals pens.**

Noise generated by the project is described in the noise study included with this application:

*Noise and Vibration Analysis Idaho Maryland Mine.* Bollard Acoustical Consultants, Inc. 2019

**11. Public Services:**

- a. **List agencies providing the following public services to your project site:**

**Fire Protection:**

Ophir Hill Fire Protection District

**Domestic water:**

Nevada Irrigation District

**Sewage disposal:**

None – Onsite sewage disposal

**Road maintenance:**

Nevada County and City of Grass Valley

**Other special districts:**

None

- b. **If public sewer is proposed, how many EDUs are allocated to this site?**

No public sewer proposed.

- c. **How many EDU's are required for the proposed use?**

No public sewer proposed.

- d. **Is trash and recycling service available to serve the project site?**  Yes  No

- e. **As a result of this project will there be significant amounts of solid waste generated, including stumps or inert matter?**  Yes  No

**If yes, describe how the solid waste will be handled/removed:**

Mining will produce barren rock and sand tailings. Approximately 50% of sand tailings will be placed in the underground mine as backfill. The remaining sand tailings and barren rock will be used as engineered fill for the Brunswick, Centennial, and other sites.

**f. Within what Fire Severity zone is the project site mapped (Moderate, High or Very High) on the CalFire Fire Severity Hazard maps?**

The Brunswick and Centennials sites are mapped as Very High on the CalFire Fire Severity Hazard map.

**g. Will this project result in the need for additional public services including fire, police, water, sewage disposal or recreation, including annexation to a special district?**

Yes       No      If yes, describe:

**12. Utilities & Services Systems:**

**a. List the public utilities that are available to serve the project site and the entities that provides service:**

**Telephone:**

Various - TBD

**Electricity:**

Pacific Gas and Electric Company

A Will Serve Letter from PG&E has been included in Appendix B of the Environmental Assessment of the Mining Use Permit Application.

**Gas (propane or natural gas)**

No propane or natural gas use proposed

**High speed internet service:**

Various – TBD

**b. Will this project require the extension of service for any energy source?**

Yes       No      If yes, describe:

**c. Will this project require the recording of a new utility easement?**

Yes       No *If yes, the proposed easement must be shown on the site plan.*

An easement may be recorded in favor of the Nevada Irrigation District for the potable water pipeline through private property from Whispering Pines Land to E. Bennett Road. Rise currents owns property and easements for this route which are shown in Drawing A-1.

**d. Describe how this project maximizes energy efficiency, i.e., utilizes alternative energy sources, pursuant to General Plan policies EC-8.6.1, EC-8.6.4 & 14.2:**

No homes or subdivisions are proposed in the project. No solid fuel burning devices or fireplaces are

proposed in the project.

- e. What type of sewage disposal system is proposed for this project (public sewer, individual septic systems, community system, centralized system)?**

Onsite septic system

The site evaluation for an on-site Pressure Dose sewage disposal system is detailed in a letter report, prepared by Navo & Sons, Inc., included in Appendix A of the Environmental Assessment of the Mining Use Permit Application.

**13. Aesthetics:**

- a. Will there be a change to any highly visible ridgelines or any scenic viewsheds?**

Yes       No

**If yes, is a Management Plan included in this application?**       Yes       No

- b. Is this project visible from a scenic highway, a large population center, or a public recreation area?**       Yes       No      **If yes, describe:**

- c. Does this project propose any outdoor storage, activity or use (other than parking)?**

Yes       No      **If yes, describe the use:**

At the Brunswick site, outside areas will be used to move supplies, persons, and equipment to and from buildings. Trucks will be loaded with sand tailings by front end loader during daytime hours. Several tanks related to mineral processing are located outside of the process plant building. Materials may be stored outside in paved areas around buildings.

Engineered fill will be transported, placed, and compacted at both the Brunswick and Centennial sites.

- d. Does this project propose new fencing?**       Yes       No

**If yes, describe fence type, height, materials and colors:**

Security fencing will be used to restrict access to portions of the Brunswick site. Fencing will be metal chain link and range in height in accordance with Nevada County Code Sec. L-II 4.2.6.

- e. Will this project require the installation of new overhead utility lines, visible from public roadways or adjacent properties?**       Yes       No      **If yes, describe:**

- f. Is any new exterior lighting proposed?  Yes  No

If yes:

- Is the location of all exterior lighting shown on the site plan?  Yes  No

Locations of exterior lights are shown on Drawing B103. A preliminary lighting design and photometric plan is included with this application, see Drawing E001, E100, and E110.

- Is a comprehensive Lighting Plan included in this application, which describes existing and proposed lighting, the number and type of light fixtures, i.e., compact-fluorescent, metal-halide, incandescent; the location (wall-mounted, pole); and type of shielding to prevent off-site light spill?  Yes  No

A preliminary lighting design and photometric plan is included with this application, see Drawing E001, E100, and E110.

#### 14. Agriculture:

- a. Is this project site mapped on the State Dept. of Conservation Important Farmlands Map, as Prime, Unique or a Farmland of Statewide or Local Importance?

Yes  No If yes, is a Management Plan for encroachment into important agricultural lands included with this project?  Yes  No

- b. Is this project site, or an adjacent site, contracted for an Agricultural Preserve (Williamson Act),  Yes  No

- c. Is there a Conservation Easement recorded for the project site, or an adjacent site?

Yes  No

- d. Is there an agricultural use established on or adjacent to this parcel?

Yes  No If yes, describe the use:

- e. Is the project site irrigated?  Yes  No

If yes, what is the water source (well, treated, raw water, or?):

- f. Has the site ever been evaluated under the LESA (Land Evaluation & Site Assessment) system?

Yes  No

\_\_\_ If yes, a copy of the evaluation is attached.

**g. Will this project prohibit or decrease agricultural production, on or off-site?**

Yes       No      If yes, describe:

**15. Cultural Resources:**

- a.  A letter from the North Central Information Center is attached, recommending whether an on-site Cultural Resources Inventory be conducted.
- b.  An Inventory was conducted and is attached.
- c.  An Inventory is not attached because:
  - The North Central Information Center determined that an inventory is not required due to project size or sensitivity level (see letter).
  - An on-site inventory was conducted for a previous project and is on file with the Planning Department, County File No#:\_\_\_\_\_.

**16. Recreation:**

- a. Describe any public recreational facilities existing or proposed on the project site, including trails. Describe any known historic, public use of this site.

None

**Development project information (not applicable to Tentative Maps)**

**17. Proposed Use:**

- a. Proposed use/occupancy type:

A total of ~126,300 ft<sup>2</sup> of industrial buildings will be constructed as shown in the below table. Building use can generally be classified as follows:

- Office – 10,100 ft<sup>2</sup>
- General Industrial – 50,700 ft<sup>2</sup>
- Manufacturing – 51,000 ft<sup>2</sup>
- Warehouse – 14,500 ft<sup>2</sup>

**BUILDINGS**

Building	Gross Area (ft <sup>2</sup> )	Maximum Height (ft)
<b>Brunswick Shaft Complex</b>		
Headframe	2,600	165
Shaft building	1,700	25
Conveyor and Raise building	700	17
Rock truck loading	1,700	20
Hoist Building	2,800	50
Electrical Building	800	15
Mine Compressor Building	1,600	20
<b>Process Plant Area</b>		
Process Plant	29,200	64
Process Plant addition	7,300	26
Generator building	3,900	20
<b>Warehouse / Office Area</b>		
Warehouse	28,900	27
Changeroom & Office building	24,600	30
Water treatment plant	8,500	26
Machinery building	1,600	20
<b>Service Shaft Complex</b>		
Shaft building	2,700	24
Headframe (located in shaft building)		80
Hoist building	2,800	50
Electrical building	800	15
Machinery building	1,600	20
Security building	2,400	15

Additional structures include tanks located outside the process and water treatment plants, fuel tank, covered conveyor, and breezeway as shown in the table below.

**OTHER STRUCTURES**

Building	Gross Area (Square Feet)	Maximum Height (Feet)
Covered conveyor (Brunswick to process plant)	3,400	35
Breezeway (security building to changerroom/office)	1,400	11
<b>PROCESS PLANT</b>		
Clean water tank	535	30
Process water tank	455	30
Tailings thickener	2,400	34
Paste filter feed tank	535	30
Cement silo	115	40
<b>WATER TREATMENT PLANT</b>		
Treated water tank	315	30
<b>GENERATOR BUILDING</b>		
Diesel fuel tank (30,000 gallons)	600	20

**b. Building type & hazard classification:**

Pre-manufactured steel

**c. Days & hours of operation:**

24 hours per day, 7 days per week

**d. Total number of employees:**

312

**e. Describe any outdoor activity proposed, including area square footage:**

At the Brunswick site, outside areas will be used to move supplies, persons, and equipment to and from buildings. Trucks will be loaded with sand tailings by front end loader during daytime hours. Several tanks related to mineral processing are located outside of the process plant building. Materials may be stored outside in paved areas around buildings.

Engineered fill will be transported, placed, and compacted at both the Brunswick and Centennial sites.

**f. Number of parking spaces, pursuant to Sec. L-II 4.2.9.f. of Zoning Regulations:**

**PARKING**

	<b>Required</b>	<b>Proposed</b>
Regular stalls	125 - 208	152
Compact stalls	0 - 83	56
Wheelchair accessible	7	9
<b>TOTAL</b>	<b>215</b>	<b>217</b>

Two of the Wheelchair accessible stalls are Van Accessible. Thirteen of the regular stalls are electric vehicle stalls.

**g. Are loading bays or drop off areas proposed or required?**

One loading bay is proposed at the Warehouse Building on the Brunswick site. A drop off area is located at the end of the main parking area. Access to site will be controlled by gates and security at both entrances.

**18. Building Characteristics of Each Proposed Building:**

**a. Building size in square feet (existing and proposed):**

No buildings currently exist on the Brunswick site. Planned building sizes are shown in the tables *BUILDINGS* and *OTHER STRUCTURES* in Section 17a above.

One small metal building currently exist on the Centennial site related to the inactive Hap Warnke Sawmill, which will be removed. No buildings are proposed at the Centennial site.

**b. If assembly area without fixed seats, state UBC and/or designed occupancy:**

Not applicable.

**c. Building height, measured from average finished grade to highest point**

Building heights are shown in the table in Section 17a above.

**d. Proposed exterior building:**

PROPOSED EXTERIOR BUILDING

	Material	Colors
Roofing	Steel	Charcoal Gray
Siding	Steel	Slate Gray
Trim	Steel	Light Gray
Windows	glass	Clear / transparent

**e. Describe proposed architectural features or details (roof overhangs, offsets, wainscoting, etc.) incorporated to comply with applicable County Design Guidelines:**

None.

**19. Building Permits:**

**a. List any building or grading permits related to this project that have been applied for and/or issued.**

None.

**20. Signage:**

A Comprehensive Sign Plan has been submitted that identifies:

No signs requiring a Sign Plan are proposed for the project.

**21. Residential Project**

NOT APPLICABLE

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***I understand that failure to provide a complete and accurate response to all questions on this form may deem this application incomplete and may result in project processing delays.***

Signature of  Property Owner(s) or  Authorized Representative that completed this document:

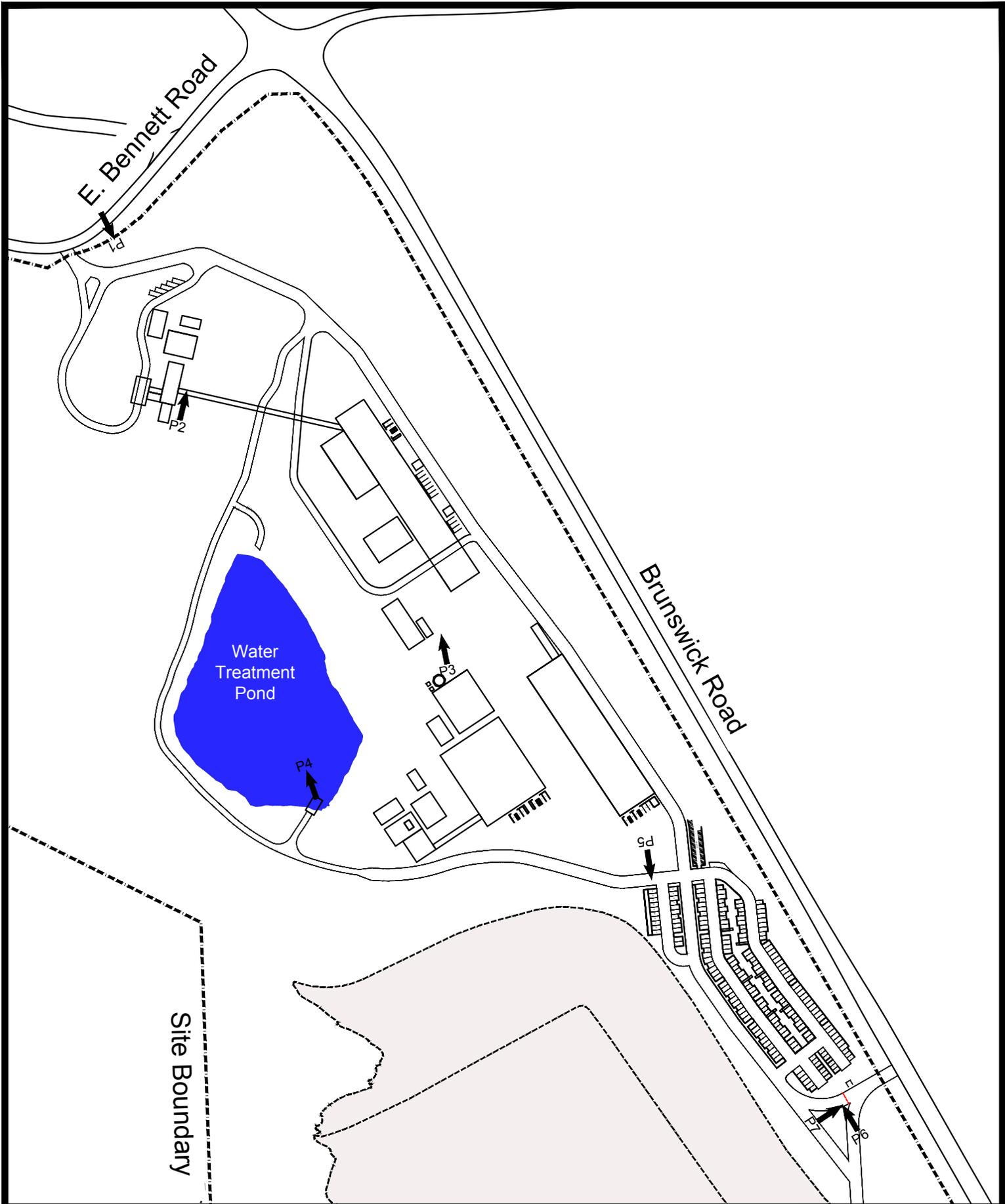
Date: 19 November 2019

Benjamin Mossman  
President, Rise Grass Valley Inc.

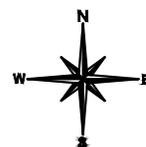
# APPENDIX A

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## SITE PHOTO LOCATION KEY & SITE PHOTOS

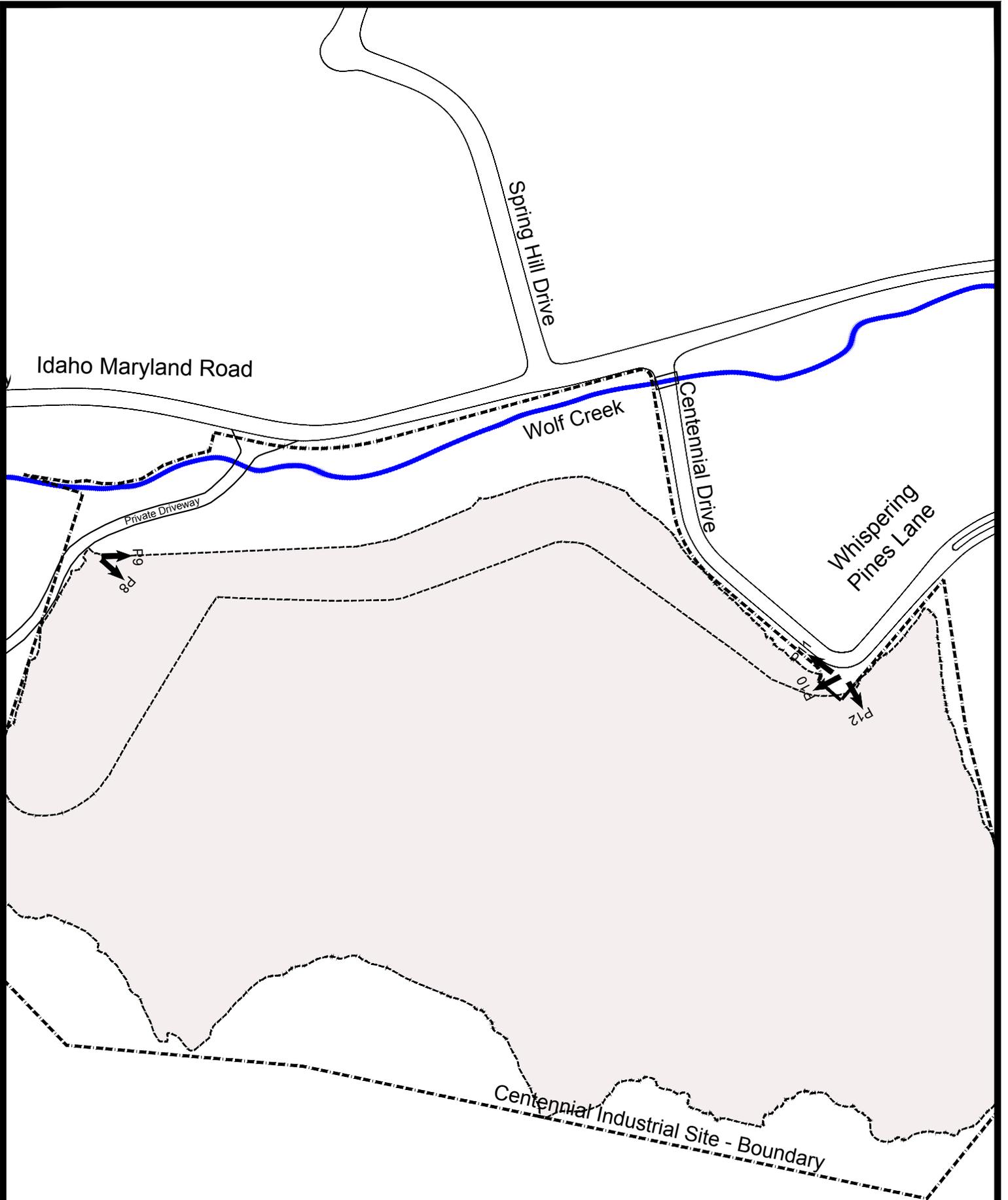


Idaho-Maryland Mine Project  
 Rise Grass Valley Inc.  
 PO Box 271  
 Grass Valley, California, USA 95945

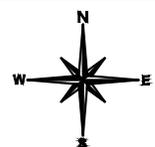


*Photo Location Key*  
**Brunswick Industrial Site**  
 Refer to drawing B101 for details

NOT TO SCALE



Idaho-Maryland Mine Project  
 Rise Grass Valley Inc.  
 PO Box 271  
 Grass Valley, California, USA 95945



**Photo Location Key**  
**Centennial Industrial Site**  
 Refer to drawing C101 for details

NOT TO SCALE

**PHOTO 1**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING SE ACROSS PROPERTY FROM DRONE AT E. BENNETT ROAD**



**PHOTO 2**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING NE TOWARDS INTERSECTION OF BRUNSWICK AND E. BENNETT ROAD ADJACENT TO CONCRETE SILO AT BRUNSWICK SHAFT**



**PHOTO 3**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING NE TOWARDS PLANNED LOCATION OF THE PROCESS PLANT BUILDING AT LOCATION OF PLANNED WATER TREATMENT PLANT**



**PHOTO 4**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING NW ACROSS WATER TREATMENT POND TO BRUNSWICK SHAFT SILO AT LOCATION OF PUMP PLATFORM**



**PHOTO 5**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING SW TOWARDS AREA OF PLANNED ENGINEERED FILL AT NORTH END OF PLANNED EMPLOYEE PARKING LOT**



**PHOTO 6**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING NW ACROSS AREA OF PLANNED PARKING LOT AT BRUNSWICK ROAD ENTRANCE**



**PHOTO 7**  
**BRUNSWICK INDUSTRIAL SITE**  
**LOOKING NE TOWARDS BRUNSWICK ROAD AT BRUNSWICK ROAD ENTRANCE**



**PHOTO 8**  
**CENTENNIAL INDUSTRIAL SITE**  
**LOOKING SE TOWARDS PLANNED ENGINEERED FILL AND HISTORIC TAILINGS AND DRAIN TOWER NEAR SW CORNER OF PROPERTY**



**PHOTO 9**  
**CENTENNIAL INDUSTRIAL SITE**  
**LOOKING E ALONG PLANNED TOE OF PLANNED ENGINEERED FILL AND HISTORIC TAILINGS NEAR SW CORNER OF PROPERTY**



**PHOTO 10**  
**CENTENNIAL INDUSTRIAL SITE**  
**LOOKING SW TOWARDS AREA OF PLANNED ENGINEERED FILL AT INTERSECTION OF CENTENNIAL DRIVE AND WHISPERING PINES LANE**



**PHOTO 11**  
**CENTENNIAL INDUSTRIAL SITE**  
**LOOKING NW ALONG SITE BOUNDARY AND CENTENNIAL DRIVE AT INTERSECTION OF CENTENNIAL DRIVE AND WHISPERING PINES LANE**



**PHOTO 12**  
**CENTENNIAL INDUSTRIAL SITE**  
**LOOKING SE TOWARDS AREA OF PLANNED ENGINEERED FILL AND OLD LOG POND BERM AT INTERSECTION OF CENTENNIAL DRIVE AND WHISPERING PINES LANE**



# **APPENDIX B**

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## **FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) MAP CENTENNIAL INDUSTRIAL SITE**

Conceptual Project Description, 2015-10-07, V:\DATA\2\CURRENT PROJECTS\404 - Idaho-Maryland Mine\404 - Figures\404 - Reclamation Plan\404\_RP\_Figure 07 - Centennial Industrial Site Floodplain Area\_v3\_19-11-13\_recovr.mxd



SOURCE: Aerial-DigitalGlobe flown 6-22-2018; Flood Areas-Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) Viewer download, accessed November 2019; adapted by Benchmark Resources in 2019

-  Site Boundary
-  100-Year Floodplain
-  Street
-  Waterway

**Centennial Industrial Site Floodplain Area**  
IDAHO-MARYLAND MINE RECLAMATION PLAN