



**Bureau of Mining Regulation and Reclamation**

**APPLICATION REQUIREMENTS FOR MINING OPERATIONS**

Name of Facility: \_\_\_\_\_

Permit Number: \_\_\_\_\_

**NAC 445A.394** – General

Reference

Appropriate fee submitted \_\_\_\_\_

Application signed by owner, operator,  
 or designated agent \_\_\_\_\_

Name, location and mailing address of the  
 facility, owner, operator, and authorized agent \_\_\_\_\_

Legal structure of applicant \_\_\_\_\_

Name of land owner or mining claim(s) \_\_\_\_\_

Documentation of notice to county commissioners \_\_\_\_\_

Rate of ore processing in tons of ore/year: \_\_\_\_\_

**NAC 445A.395** – Assessment of Area Review

Hydrogeology and lithology defined beneath and  
 adjacent to point sources to a minimum of 100 feet \_\_\_\_\_

Geological map covering one mile radius \_\_\_\_\_

Topographical map which identifies:

1. All known surface water within one mile radius \_\_\_\_\_

2. Existing habitable buildings within one mile radius \_\_\_\_\_

3.a. Boundaries and area of upgradient watershed \_\_\_\_\_

3.b. Degree to which 100-year, 24-hour storm event will affect  
 process components \_\_\_\_\_

4. All drinking water wells downgradient to five miles \_\_\_\_\_

Greater or lesser review required based on population, depth to  
 groundwater, distance to surface water(s), and quality, uses or

potential uses of groundwater/surface water \_\_\_\_\_

**NAC 445A.396** – Meteorological Report; Analysis of Samples

Monthly average of rainfall \_\_\_\_\_

10-, 25-, 100-year, 24-hour storm event \_\_\_\_\_

Diurnal temperature variation \_\_\_\_\_

Multi-element spectrographic assay or equivalent of overburden,  
waste rock, and ore \_\_\_\_\_

Samples evaluated for potential to release pollutants \_\_\_\_\_

**NAC 445A.397** – Engineering Design Report; Specifications for Fluid Management System

Prepared and stamped by Nevada Professional Engineer \_\_\_\_\_

Does report include:

1. Engineering plans for process components \_\_\_\_\_
2. General specifications and calculations for process  
components \_\_\_\_\_
3. Topographic map showing all potential sources \_\_\_\_\_

Drawings of structures and devices \_\_\_\_\_

Method for control of storm flow run-off \_\_\_\_\_

Geological and hydrogeological conditions beneath and adjacent  
to the site of:

1. Fluid management system and waste rock disposal  
sites \_\_\_\_\_
2. Degree of natural containment, preferential flow  
pathways, and structural stability \_\_\_\_\_

Description of liner material \_\_\_\_\_

Installation procedures for pads, ponds, and ditches \_\_\_\_\_

Description of subbase preparation \_\_\_\_\_

Details of leak detection and site monitoring systems \_\_\_\_\_

Process schematics \_\_\_\_\_

Specifications for constructing the fluid management system \_\_\_\_\_

Specifications of material used \_\_\_\_\_

Methods of testing, inspecting, and quality assurance/control \_\_\_\_\_

Is all information sufficient to determine:

1. Process components \_\_\_\_\_
2. If design shall protect waters of the State \_\_\_\_\_
3. If monitoring system is adequate to protect waters of the State \_\_\_\_\_

NOTE: For existing facilities, the integrity of containment must be documented by using the regulatory containment criteria as a reference (areas that must be considered).

**NAC 445A.398** – Proposed Operating Plans

Do the proposed operating plans include:

1. Description of mineral processing circuit which includes:
  - a. a flow chart \_\_\_\_\_
  - b. range of operating conditions for which the process components were designed \_\_\_\_\_
2. Plan for management of process fluids which describes:
  - a. methods to be used for monitoring and controlling all process fluids \_\_\_\_\_
  - b. description of the means to evaluate the conditions in the fluid management system, to quantify the available storage capacity, and to define when and to what extent the design capacity has been exceeded \_\_\_\_\_
3. Plan for monitoring which describes:
  - a. water quality in the area \_\_\_\_\_
  - b. proposed monitoring locations \_\_\_\_\_
  - c. analytical profile of surface and groundwater \_\_\_\_\_
  - d. locations of leak detection systems, frequency of sampling, and analytical profile \_\_\_\_\_
4. Plan for management of waste rock
  - a. Representative characterization data and sample locations to be mined at facility \_\_\_\_\_
  - b. Evaluates potential for waste rock to degrade waters of the State \_\_\_\_\_
  - c. Size and location of proposed waste rock facilities \_\_\_\_\_
  - d. Sampling and analysis protocols to verify character of waste rock \_\_\_\_\_

- e. If indicated potential to degrade, protocols/designs to eliminate the potential degradation \_\_\_\_\_
  - 5. Plan for responding to emergencies which describes:
    - a. what actions must be initiated and by whom \_\_\_\_\_
    - b. minimizes environmental impact \_\_\_\_\_
  - 6. Temporary closure plan which describes activities which must be maintained during time of closure \_\_\_\_\_
  - 7. Tentative plan for permanent closure which describes:
    - a. the procedures, methods and schedule for stabilizing spent process materials and all other sources on site \_\_\_\_\_
- The plan must include:
- b. procedures for characterizing spent process materials as they are generated \_\_\_\_\_
  - c. the procedure to stabilize all process components and other sources at the facility with costs \_\_\_\_\_
  - d. Conceptual Closure plans for all sources at facility with enough detail to support a cost estimate. \_\_\_\_\_

NOTE: Refer to regulations NAC 445A.350 – 445A.447 for detailed requirements, including the revised regulations effective August 30, 2018 (e.g., 500-year, 24-hour design storm event for permanent closure), available on the Division website: <https://ndep.nv.gov/land/mining/laws-regulations>.

Date of Review: \_\_\_\_\_

\* Information that was previously submitted to NDEP, which completely addresses one or more of the above items, may be referenced. The author, title, date and pertinent pages must be identified.