

**Bureau of Mining Regulation and Reclamation**

APPLICATION REQUIREMENTS FOR DISCHARGE OR INFILTRATION OPERATIONS

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

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

**General**

Reference

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

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

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

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

Name of landowner \_\_\_\_\_

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

Rate of discharge in gallons per day \_\_\_\_\_

**Assessment of Area**

Hydrogeology and lithology defined beneath and adjacent to point sources to a minimum of 100 feet including depth and gradient(s) of subsurface aquifer(s)

\_\_\_\_\_

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  
b. degree to which the 100-year, 24-hour storm event will affect discharge components
4. All drinking water wells down gradient to five miles

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

**Meteorological Report; Analysis of Samples**

Monthly Average Rainfall

\_\_\_\_\_

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

\_\_\_\_\_

Diurnal temperature variation

\_\_\_\_\_

Multi-element spectrographic assay or equivalent of soil to be infiltrated

\_\_\_\_\_

Soil samples evaluated for potential to mobilize regulated constituents

\_\_\_\_\_

**Engineering Design Report, Specifications for Fluid Management System**

Prepared and stamped by a Nevada P.E. \_\_\_\_\_

Does Report Include:

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

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

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

Geological and hydrogeological conditions beneath and adjacent to the site:

- 1. Water management system \_\_\_\_\_
- 2. Degree of natural containment, preferential flow pathways, and structural stability \_\_\_\_\_

Description of liner materials \_\_\_\_\_

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

Description of base preparation \_\_\_\_\_

Details of site monitoring systems \_\_\_\_\_

Schematics of infiltration system \_\_\_\_\_

Specifications for constructing the infiltration system \_\_\_\_\_

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

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

Is all information sufficient to determine:

- 1. System components \_\_\_\_\_
- 2. If design protects 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).

**Proposed Operating Plans**

Do the proposed operating plans include:

1. Description of any water treatment facility which includes:
  - a. a flow chart \_\_\_\_\_
  - b. range of operating conditions for which the components were designed \_\_\_\_\_
2. Plan for management of waters which describes:
  - a. methods to be used for monitoring and controlling infiltration water \_\_\_\_\_
  - b. description of the means to evaluate the conditions in the water 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 ground water \_\_\_\_\_
  - d. frequency of sampling and analytical profile \_\_\_\_\_
4. Plan for responding to emergencies which:
  - a. describes actions to be initiated and by whom \_\_\_\_\_
  - b. minimizes environmental impact \_\_\_\_\_
5. Temporary closure plan which describes:
  - a. activities which must be maintained during closure \_\_\_\_\_
6. Tentative Plan for Permanent Closure which describes:
  - a. steps to be taken for the decommissioning and/or removal or system components \_\_\_\_\_

b. estimated costs for closure activities \_\_\_\_\_

Note: Refer to regulations for detailed requirements.

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

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