



Denison Mines (USA) Corp.  
1050 17th Street, Suite 950  
Denver, CO 80265  
USA

Tel : 303 628-7798  
Fax : 303 389-4125

[www.denisonmines.com](http://www.denisonmines.com)

June 14, 2010

Arizona Department of Environmental Quality  
Water Quality Division  
1110 West Washington Street  
Phoenix, Arizona 85007

**GROUNDWATER**

**JUN 15 2010**

**RECEIVED**

Dear Permit Coordinator:

**Re: Denison Mines (USA) Corp., EZ Mine Site General Aquifer Protection Permit Application Type 3.04.**

Enclosed please find three copies of Denison Mines (USA) Corp.'s EZ Mine General Aquifer Protection Permit Application Type 3.04. Also enclosed is check number 45420 for \$1500.00 for the permit application fee. Please feel free to contact me at 303.389.4136 or [cwoodward@denisonmines.com](mailto:cwoodward@denisonmines.com) with any questions or comments that you may have.

Yours very truly,

**DENISON MINES (USA) CORP.**

A handwritten signature in cursive script, appearing to read "Christy Woodward".

Christy Woodward, PE  
Environmental Coordinator

Cc: Denison Mines (USA) Corp., File  
Harold R. Roberts, Philip Buck Denison Mines (USA) Corp.  
D. Lee Decker and David C. Kimball, Gallagher and Kennedy

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
Water Permits Section

1110 West Washington Street, MC 5415-B3 • Phoenix, Arizona 85007  
(602) 771-4428 • www.azdeq.gov

ADEQ GROUND WATER SECTION  
RECEIVED

JUN 15 2010

LTF Application Clerk *W*

NOTICE OF INTENT TO DISCHARGE  
FOR A TYPE 3 GENERAL PERMIT

**Instructions:** Every person who applies for a Type 3 general permit, as provided by Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Article 3, must file a Notice of Intent to Discharge (NOI) required by A.A.C. R18-9-A301(B). In addition to this form, applicants must complete the appropriate **NOI Supplemental Form**. A separate NOI form and NOI Supplemental form must be completed for each discharging facility (i.e., unit, discharge point) intended to be covered under a General Permit. A person intending to operate under a General Permit must comply with all the provisions of the general permit and other applicable requirements of statute and rule.

1. **Type 3 General Permits:** Requires notification to the agency of activities to be conducted. Persons must: 1) Meet the requirements of Article 3, Part A and the specific terms of the applicable Type 3 General Permit; 2) File the appropriate NOI forms and supplemental information; 3) Pay applicable general permit review fees. Review fees, which are flat rate fees specified in A.A.C. R18-14-102(C), are NON-REFUNDABLE; 4) Satisfy any deficiency requests from the Department; and 5) Receive a **written Verification of General Permit Conformance** from the Department.

2. **Type 3 General Permit notification** (check the applicable box):

- 3.01 Lined Impoundments [A.A.C. R18-9-D301]
- 3.02 Process Water Discharges from Water Treatment Facilities [A.A.C. R18-9-D302]
- 3.03 Vehicle and Equipment Washes [A.A.C. R18-9-D303]
- 3.04 Non-storm Water Impoundments at Mining Sites [A.A.C. R18-9-D304]
- 3.05 Disposal Wetlands [A.A.C. R18-9-D305]
- 3.06 Constructed Wetlands to Treat Acid Rock Drainage at Mining Sites [A.A.C. R18-9-D306]
- 3.07 Tertiary Treatment Wetlands [A.A.C. R18-9-D307]

3. **Applicant:** Denison Mines (USA) Corp.

Address: 1050 17th Street

Suite 950

Denver, Colorado 80265

Phone No.: (303) 628-7798

Fax No.: (303) 389-4125

4. **Contact Person for Facility Operations:** Harold R. Roberts, P.E., Executive VP, US Operations

Address: 1050 17th Street

Suite 950

Denver, Colorado 80265

Phone No.: (303) 628-7798

Fax No.: (303) 389-4125

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PHYSICS DEPARTMENT

5. **Name of Owner/Operator responsible for ensuring compliance with this permit if different from No. 3 above:** Same as above

Position held by party identified above: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone No.: \_\_\_\_\_

\_\_\_\_\_

Fax No.: \_\_\_\_\_

\_\_\_\_\_

6. Specify a **name, number or other identifier** that can be used as a permanent reference to the discharging facility proposed to be covered under this General Permit [e.g.: Vehicle wash A; Wetlands # 4; or SE impoundment]:

**EZ Mine Non-stormwater Impoundment**

7. **Location** of the discharging facility proposed to be covered under this General Permit:

a. County: Mohave

b. Nearest Community: Fredonia

c. Legal Description (please reference the property deed. May be by Township, Range, Section; parcel numbers; metes and bounds; subdivision identifiers, etc. Attach separate page if lengthy):

**See Section 2.1 of the attached Supplemental Information Report**

\_\_\_\_\_

\_\_\_\_\_

d. Latitude/ Longitude: 36 E 37 ' 45.0 " N 112 E 55 ' 12.0 " W

8. **Expected dates of discharge:**

Date discharges began or are expected to begin 2012

Date discharges began or are anticipated to cease 2022

9. **Existing Environmental Permits:** List all types of state or federal environmental permits already held by the applicant or owner at this location or that are needed for the location: (Attach additional pages if necessary)

**Permits are listed in Section 2.7 There are no existing permits for this location.**

Denison is writing to obtain other approvals, such as:

BLM Decision/Fonsi

ADEQ Air Permit

Additional ADEQ Aquifer Protection Permits (e.g. septic system)



10. **Certification of Compliance.** To be completed by the applicant.

I, Philip G. Buck, certify that this document and all attachments were prepared under my direction or supervision and all information is, to the best of my knowledge, true, accurate and complete. I also certify that the facility described in this form is or will be constructed, designed, and operated in accordance with the provisions of Article 3 of the Aquifer Protection Permit rules as they pertain to this General Permit. I am aware that there are significant penalties for submitting false information, including permit revocation as well as the possibility of fine and imprisonment for knowing violations.

Philip G. Buck  
Signature

JUNE 11/2010  
Date





## Residential and Industrial Wastewater Unit

### Type 3.04 Checklist (Revised August 2005)

Name of Permittee:	Denison Mines (USA) Corp.	Date NOI Received:	6/15/10
Name of Facility:	EZ Mine	Inventory Number:	106193
Today's Date:	6/15/10	Reviewer:	R. Mendolia

<b>Notice of Intent to Discharge</b> <b>A.A.C. R18-9-A301(B)(2)</b>					
a	The name, address, and telephone number of the applicant	X			
b	The social security number of the applicant, if the applicant is an individual			X	
c	The name, address, and telephone number of a contact person familiar with the operation of the facility	X			
d	The name, position, address, and telephone number of the owner or operator of the facility who has overall responsibility for compliance with the permit	X			
e	The legal description of the discharge areas, including the latitude and longitude coordinates	X			
f	A narrative description of the facility or project, including expected dates of operation, rate, and volume of discharge	X			
g	The information required for the general permit	X			
h	A listing of any other federal or state environmental permits issued for or needed by the facility, including any individual permit, Groundwater Quality Protection Permit, or Notice of Disposal that may have previously authorized the discharge	X			Type 2.02 shall be required for stockpiles, and type 4 for septic system
i	A signature on the Notice of Intent to Discharge certifying that the permittee agrees to comply with all requirements of this Article, including specific terms of the applicable general permit	X			
<b>General Requirements</b> <b>A.A.C. R18-9-D301(A)</b>					
1	Ensure that inflow to the lined surface impoundment or lined secondary containment structure does not contain organic pollutants identified in A.R.S. § 49-243(I)	X			
<b>Ensure that inflow to the lined surface impoundment or lined secondary containment structure is from one or more of the following sources:</b> <b>A.A.C R18-9-D301(A)(2)</b>					
a	Evaporative cooler overflow in excess of 1000 gallons per day;		X		

		MATERIALS HANDLING			WASTEWATER TREATMENT	
		NO	NO	NO	NO	
b	Wastewater that does not contain sewage, temporarily stored for short periods of time due to process upsets or rainfall events, provided the wastewater is promptly removed from the facility as required under subsection (D)(5). Facilities that continually contain wastewater as a normal function of facility operations are not covered under this general permit;		X			
c	Storm water runoff that is not permitted under A.R.S. § 49-245.01 because the facility does not receive solely storm water or because the runoff is regulated under the Clean Water Act but is not considered storm water under the Act;	X				This is a Type 3.04 for Non storm-water impoundment at a mine
d	Emergency fire event water;		X			
e	Wastewater from air pollution control devices at asphalt plants if the wastewater is routed through a sedimentation trap or sump and an oil/water separator before discharge;		X			
f	Non-contact cooling tower blowdown and non-contact cooling water, except discharges from electric generating stations with more than 100 megawatts generating capacity;		X			
g	Boiler blowdown;		X			
h	Wastewater derived from a potable water treatment system including clarification sludge, filtration backwash, lime and lime softening sludge, ion exchange backwash, and reverse osmosis spent waste;		X			
i	Wastewater from food washing;		X			
j	Heat exchanger return water in excess of 1000 gallons per day; and		X			
k	Wastewater from industrial laundries.		X			
<b>Notice of Intent (Supplemental Information) A.A.C. R18-9-D301(B)</b>						
1	A listing and description of all sources of inflow	X				
2	A representative chemical analysis of each expected source of inflow. If a sample is not available before facility construction, a permittee shall provide the chemical analysis of each inflow to the Department within 60 days of each inflow to the facility;			X		New facility. Data shall be provided when available.
3	A narrative description of how the conditions of this general permit is satisfied. The narrative shall include a Quality Assurance/Quality Control program for liner installation, impoundment maintenance and repair, impoundment operational procedures; and	X				

4	A contingency plan that specifies actions to be taken in case of an accidental release from the facility, overtopping of the impoundment, or breach of the berm, and unauthorized inflows into the impoundment or containment structure.	X			
<b>Design and Installation Requirements.</b> <b>A.A.C. R18-9-D301(C)</b>					
1	Design and construct surface water controls. The applicant shall: a. Ensure that the impoundment or secondary containment structure maintains, using design volume or mechanical systems, normal operating volumes, if any, and any inflow from the 100-year, 24-hour storm event. The facility shall maintain two feet of freeboard or an alternative level of freeboard that the applicant demonstrates is reasonable, considering the size of the impoundment and meteorologic and other site-specific factors; and b. Direct any surface water run-on from the 100-year 24-hour storm event not intended for capture by facility design around the facility.	X			
2	Ensure that the facility accommodates any significant geologic hazard, addressing static and seismic stability. The applicant shall document any design adjustments for this reason in the Notice of Intent to Discharge;	X			
3	Ensure that site preparation includes, as appropriate, clearing the area of vegetation, grubbing, grading and embankment, and subgrade preparation. The applicant shall ensure that supporting surface slopes and foundation are stable and structurally sound;	X			
4a	Ensure that the liner is at least a 30-mil geomembrane liner or a 60-mil liner if High Density Polyethylene is used, or an alternative, and that the liner's calculated seepage rate is less than 550 gallons per acre per day: i. If a synthetic liner is used, the applicant shall anchor the liner by securing it in an engineered anchor trench; and ii. The applicant shall ensure that the liner is ultraviolet resistant if it is regularly exposed to sunlight.	X			60-mil HDPE over GCL

4b	<p>If a soil liner is used, ensure it resists swelling, shrinkage, and cracking. The applicant shall:</p> <p>i. Ensure that the soil is at least one foot thick and compacted to a uniform density of 95% to meet the "Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effect (12,400 ft-lbf/ft<sup>3</sup>)," (D 698-91), published by the American Society for Testing and Materials, reapproved 1998. This material is incorporated by reference and does not include any later amendments or editions of the incorporated matter. Copies of the incorporated material are available for inspection at the Department of Environmental Quality and the Office of the Secretary of State, or may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, Conshohocken, PA 19428-2959; and</p> <p>ii. Upon installation, protect the soil liner to prevent desiccation.</p>			X	
4c	<p>For new facilities, develop and implement a construction Quality Assurance/Quality Control program that addresses site and subgrade preparation, inspection procedures, field testing, laboratory testing, and final inspection after construction of the liner to ensure functional integrity.</p>	X			
<p><b>Applicable Fee of \$ 1500 (A.A.C. R19-14--102)</b></p>		X			

**COMMENTS**

[1]	
[2]	
[3]	