

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:
WU-16J

MAR 31 2006

Jonathan C. Cherry, P.E.
Manager Environment & Governmental Affairs
Kennecott Eagle Minerals Company
1004 Harbor Hill Drive, Suite 103
Marquette, Michigan 49855

Re: Eagle Project; Marquette County, Michigan

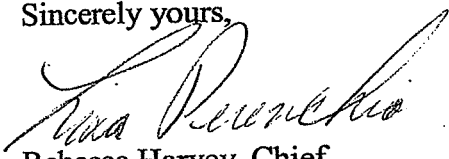
Dear Mr. Cherry:

The United States Environmental Protection Agency (EPA) has been informed that the above-referenced proposed project will include at least three kinds of underground discharge systems which are considered Class V wells. A Class V well is a type of injection well that is regulated by the EPA in Michigan, through the Underground Injection Control (UIC) program. New Class V wells are at a minimum, required to be inventoried with the UIC Director before construction of the well can occur.

Title 40 of the Code of Federal Regulations Section 144.83 requires the owner or operator of a Class V well to submit inventory information to the Director. Additional information may also be requested to determine whether a Class V well may endanger an underground source of drinking water. Depending on the information provided, a Class V well may then be authorized by rule, or a permit will be needed before the Class V well can be constructed and operated. For your convenience, we have enclosed the inventory forms that must be completed for each well and submitted to my attention at the above address. Once you have submitted your forms, we will review the information and contact you regarding any necessary authorizations or permits that may be required.

If you have any questions about the UIC program or the inventory requirement, please feel free to contact Ross Micham of my staff at (312) 886-4237 or via email at micham.ross@epa.gov. More information about the UIC program can be found on the EPA's UIC website at www.epa.gov/safewater/uic.

Sincerely yours,


Rebecca Harvey, Chief
Underground Injection Control Branch

Enclosures

cc: Hal Fitch, Michigan Department of Environmental Quality

INVENTORY OF INJECTION WELLS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF GROUND WATER AND DRINKING WATER

(This information is collected under the authority of the Safe Drinking Water Act)

PAPERWORK REDUCTION ACT NOTICE

The public reporting burden for this collection of information is estimated to average 1 hour per year, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, 2136 U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

4. FACILITY NAME AND LOCATION

A. NAME (last, first, and middle initial)

C. LATITUDE

E. TOWNSHIP/RANGE

B. STREET ADDRESS/ROUTE NUMBER

D. LONGITUDE

TOWNSHIP	RANGE	SECT	1/4 SECT

F. CITY/TOWN

G. STATE

H. ZIP CODE

I. NUMERIC COUNTY CODE

J. INDIAN LAND (mark "x")

5. LEGAL CONTACT

A. TYPE (mark "x")

Owner Operator

B. NAME (last, first, and middle initial)

C. PHONE (area code and number)

D. ORGANIZATION

E. STREET/P.O. BOX

I. OWNERSHIP (mark "x")

F. CITY/TOWN

G. STATE

H. ZIP CODE

PRIVATE

PUBLIC

STATE

FEDERAL

SPECIFY OTHER

6. WELL INFORMATION

A. CLASS AND TYPE	B. NUMBER OF WELLS		C. TOTAL NUMBER OF WELLS	D. WELL OPERATION STATUS						COMMENTS (Optional)
	COMM	NONCOMM		UC	AC	TA	PA	AN		

KEY:

DEG = Degree
MIN = Minute
SEC = Second

SECT = Section
1/4 SECT = Quarter Section

COMM = Commercial
NON-COMM = Non-Commercial

AC = Active
UC = Under Construction
TA = Temporarily Abandoned
PA = Permanently Abandoned and Approved by State
AN = Permanently Abandoned and not Approved by State

Instructions and Definitions

Section 1. Date Prepared: Enter date in order of year, month, and day.

Section 2. Facility ID Number: In the first two spaces, insert the appropriate U.S. Postal Service State Code. In the third space, insert one of the following one letter alphabetic identifiers:

- D - DUNS Number,
- G - GSA Number, or
- S - State Facility Number.

In the remaining space, insert the appropriate nine digit DUNS, GSA, or State Facility Number. For example, A Federal facility (GSA - 123456789) located in Virginia would be entered as: VAG123456789.

Section 3. Transaction Type: Place an "x" in the applicable box. See below for further directions.

Deletion. Fill in the Facility ID Number.

First Time Entry. Fill in all the appropriate information.

Entry Change. Fill in the Facility ID Number and the information has changed.

Replacement.

Section 4. Facility Name and Location:

- A. **Name.** Fill in the facility's official or legal name.
- B. **Street Address.** Self Explanatory.
- C. **Latitude.** Enter the facility's latitude (all latitudes assume North except for American Samoa).
- D. **Longitude.** Enter the facility's longitude (all longitudes assume West except for Guam).
- E. **Township/Range.** Fill in the complete township and range. The first 3 spaces are numerical and the fourth is a letter (N, S, E, W) specifying a compass direction. A township is North or South of the baseline, and a range is East or West of the principal meridian (e.g., 132N, 343W).
- F. **City/Town.** Self Explanatory.
- G. **State.** Insert the U.S. Postal Service State abbreviation.
- H. **Zip Code.** Insert the five digit zip code plus any extension.
- I. **Numeric Country Code.** Insert the numeric country code from the Federal Information Processing Standards Publication (FIPS Pub 6-1) June 15, 1970, U.S. Department of Commerce, National Bureau of Standards. For Alaska, use the Census Division Code developed by the U.S. Census Bureau.
- J. **Indian Land.** Mark an "x" in the appropriate box (Yes or No) to indicate if the facility is located on Indian land.

Section 5. Legal Contact:

- A. **Type.** Mark an "x" in the appropriate box to indicate the type of legal contact (Owner or Operator). For wells operated by lease, the operator is the legal contact.
- B. **Name.** Self Explanatory.
- C. **Phone.** Self Explanatory.
- D. **Organization.** If the legal contact is an individual, give the name of the business organization to expedite mail distribution.
- E. **Street/P.O. Box.** Self Explanatory.
- F. **City/Town.** Self Explanatory.
- G. **State.** Insert the U.S. Postal Service State abbreviation.
- H. **Zip Code.** Insert the five digit zip code plus any extension.
- I. **Ownership.** Place an "x" in the appropriate box to indicate ownership state.

Section 6. Well Information:

- A. **Class and Type.** Fill in the Class and Type of injection wells located at the listed facility. Use the most pertinent code (specified below) to accurately describe each type of injection well. For example, 2R for a Class II Enhanced Recovery Well, or 3M for a Class III Solution Mining Well, etc.
- B. **Number of Commercial and Non-Commercial Wells.** Enter the total number of commercial and non-commercial wells for each Class/Type, as applicable.
- C. **Total Number of Wells.** Enter the total number of injection wells for each specified Class/Type.
- D. **Well Operation Status.** Enter the number of wells for each Class/Type under each operation status (see key on other side).

Injection Well Class and Type Codes

Class I Industrial, Municipal, and Radioactive Waste Disposal Wells used to inject waste below the lowermost Underground Source of Drinking Water (USDW).

Type 1I Non-Hazardous Industrial Disposal Well.
1M Non-Hazardous Municipal Disposal Well.
1H Hazardous Waste Disposal Well injecting below the lowermost USDW.
1R Radioactive Waste Disposal Well.
1X Other Class I Wells.

Class II Oil and Gas Production and Storage Related Injection Wells.

Type 2A Annular Disposal Well.
2D Produced Fluid Disposal Well.
2H Hydrocarbon Storage Well.
2R Enhanced Recovery Well.
2X Other Class II Wells.

Class III Special Process Injection Wells.

Type 3G *In Situ* Gassification Well.
3M Solution Mining Well.
3S Sulfur Mining Well by Frasch Process.
3T Geothermal Well.
3U Uranium Mining Well.
3X Other Class III Wells.

Class IV Wells that inject hazardous waste into/above USDWs.

Type 4H Hazardous Facility Injection Well.
4R Remediation Well at RCRA or CERCLA site.

Class V Any Underground Injection Well not included in Classes I through IV.

Type 5A Industrial Well.
5B Beneficial Use Well.
5C Fluid Return Well.
5D Sewage Treatment Effluent Well.
5E Cesspools (non-domestic).
5F Septic Systems (non-domestic).
5G Experimental Technology Well.
5H Drainage Well.
5I Mine Backfill Well.
5J Waste Discharge Well.