

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**  
MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

**Permit No.:** HP-0000003

**Owner:** Central Bank  
**Address:** 239 Madison, Jefferson City, MO 65101

**Continuing Authority:** Same as above  
**Address:** Same as above

**Facility Name:** Central Motor Bank Heat Pump Wells  
**Address:** 500 Madison St., Jefferson City, MO 65102

**Legal Description:** SE ¼, Sec. 7, T44N, R11W, Cole County

**Receiving Stream & Basin:** N/A – Underground Injection  
**First Classified Stream and ID:** Missouri River (P) (00701)  
**USGS Basin & Sub-watershed No:** 10300102-180002

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

### FACILITY DESCRIPTION

Open loop heat pump discharging maximum of 100,000 gallons/day and 903,700 BTU/hr to the Jefferson City Dolomite. The depth of the wells is 585 and the top 150 is cased. There are two wells.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

June 24, 2005  
Effective Date

June 23, 2010  
Expiration Date

MO 780-0041 (10-93)

Doyle Childers, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

Edward Galbraith, Director of Staff, Clean Water Commission

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 2 of 3	
					PERMIT NUMBER HP-0000003	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited, and monitored by the permittee as specified below.						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Injection Well</u> (Note 1)						
Flow	MGD	*		*	once/month	24 hr. estimate
Maximum Temperature of injected water**	°F	*		*	once/month	grab
Minimum Temperature of injected water**	°F	*		*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

- \* Monitoring requirement only.  
 \*\* Sample must be taken within 24 hour period.

Note 1 – Samples shall be taken of water that is being re-injected to the subsurface.

C. SPECIAL CONDITIONS

1. All injection withdrawals shall be consistent with the terms and conditions of the permit.
2. The permit may be modified or revoked after reasonable notice for causes including, but not limited to:
  - (a) A violation of any term or condition of the permit;
  - (b) A misrepresentation or failure to disclose fully all relevant facts in obtaining a permit or;
  - (c) A change in the operation, size or capacity of the permitted facility;
3. The injection withdrawal permit may be issued for a period up to five (5) years. The permit may not be modified so as to extend the term of the permit beyond five (5) years after its issuance.
4. Permittees shall operate and maintain facilities to comply with section 577.155 RSMo, the Missouri Clean Water Law, corresponding regulations and applicable permit conditions.
5. For the purposed of inspecting for compliance with the Clean Water Law and these regulations, authorized representatives of the department shall be allowed by the permittee, upon presentation of credentials and at reasonable times, to:
  - (a) Enter upon permittee's premises in which a groundwater heat pump injection withdrawal well is located or in which any records are required to be kept under terms and conditions of the permit;
  - (b) Have access to, or copy, any records required to be kept under terms and conditions of the permit;
  - (c) Inspect any sampling wells, monitoring equipment or method required in the permit; and
  - (d) Sample for permit compliance.
6. Facility expansions, production increases or process modifications which will result in a new or substantially different injection/withdrawal must be reported sixty (60) days before the facility or process modification begins. Notification may be accomplished by application for a new permit, or by submission of notice to the department.
7. Copies of well location, driller's logs, sample logs, casing schedule, volume of water, temperature, water quality and other information developed or determined for the completed installation shall be sent to the Missouri Department of Natural Resources, Water Protection Program and to the Missouri Department of Natural Resources, Division of Geology and Land Survey.