

NPDES Permit No. IL0070173  
Notice No. JAR:11082501.ajo

Public Notice Beginning Date: **March 19, 2013**

Public Notice Ending Date: **April 18, 2013**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency  
Bureau of Water,  
Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
217/782-0610

Name and Address of Discharger:

Koch Nitrogen Company, LLC  
3892 Berm Highway  
East Alton, IL62024

Name and Address of Facility:

Koch Nitrogen Company, LLC  
3892 Berm Highway  
East Alton, IL 62024  
(Madison County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Jaime Rabins at 217/782-0610.

The applicant stores and transfers anhydrous ammonia (SIC 5191). Wastewater is generated from circulating cooling water through ammonia condensers. The circulating water is periodically discharged to maintain an acceptable level of total dissolved solids which results in an average discharge 0.0144 MGD of ammonia condenser cooling system blowdown from outfall 002. Water is obtained from on-site wells or the local municipal water supply system.

Wastewater is not treated prior to discharge.

The following modification is proposed:

Koch Nitrogen Company, LLC, a Delaware limited liability company merged with Koch Nitrogen Company, LLC a Kansas limited liability company, the Kansas company is the surviving entity.

Application is made for the existing discharge which is located in Madison County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

| Outfall | Receiving Stream             | Latitude    |       | Longitude   |      | Stream Classification | Biological Stream Characterization |
|---------|------------------------------|-------------|-------|-------------|------|-----------------------|------------------------------------|
| 002     | Old Wood River Creek Channel | 38E 51' 36" | North | 90E 07' 05" | West | General Use           | Not Rated                          |

To assist you further in identifying the location of the discharge please see the attached map.

The stream segment receiving the discharge from outfall 002 has not been assessed under the Agency's 305(b)/303(d) program.

The discharge(s) from the facility shall be monitored and limited at all times as follows:

Outfall: 002 Ammonia Condenser Cooling System Blowdown (DAF = 0.0144 MGD)

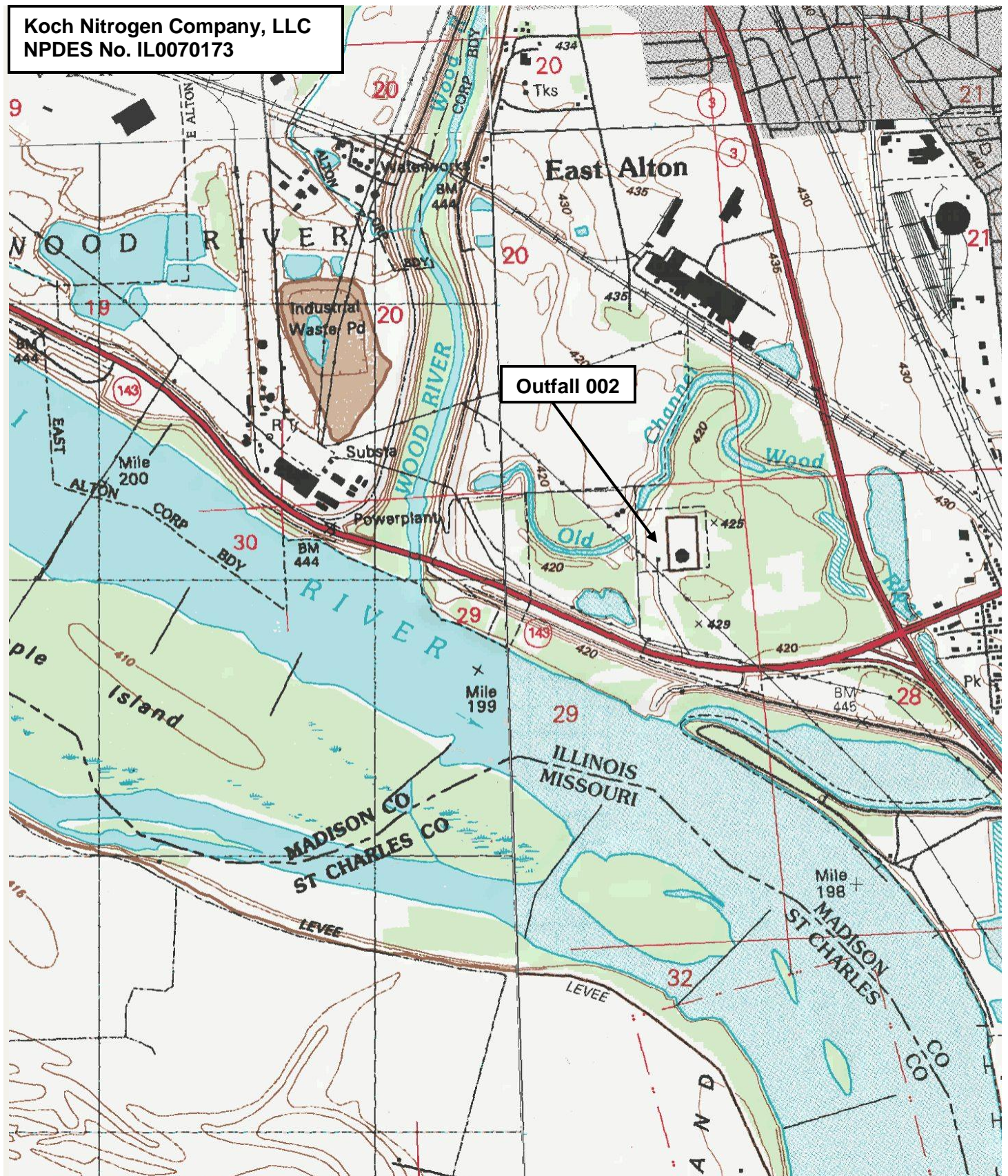
|                         | LOAD LIMITS lbs/day |               |            | CONCENTRATION  |               |                |
|-------------------------|---------------------|---------------|------------|----------------|---------------|----------------|
|                         | DAF (DMF)           |               |            | LIMITS mg/l    |               |                |
| PARAMETER               | 30 DAY AVERAGE      | DAILY MAXIMUM | REGULATION | 30 DAY AVERAGE | DAILY MAXIMUM | REGULATION     |
| Flow (MGD)              |                     |               |            |                |               |                |
| pH                      |                     |               |            |                |               | 35 IAC 302.204 |
| Temperature             |                     |               |            |                |               | 35 IAC 302.211 |
| Total Residual Chlorine |                     |               |            |                | 0.05          | 35 IAC 302.208 |
| Sulfate                 |                     |               |            |                |               | 35 IAC 309.146 |
| Chloride                |                     |               |            |                |               | 35 IAC 309.146 |

The following explain the conditions of the proposed permit:

The special conditions clarify: flow reporting, monitoring location, discharge monitoring reports, re-opening of the permit, total residual chlorine, temperature and water treatment additives.



Koch Nitrogen Company, LLC  
NPDES No. IL0070173



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NPDES Permit No. IL0070173

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Facility Name and Address:

Koch Nitrogen Company, LLC  
3892 Berm Highway  
East Alton, IL 62024

Koch Nitrogen Company, LLC  
3892 Berm Highway  
East Alton, IL 62024  
(Madison County)

Discharge Number and Name:

Receiving Waters:

002 Ammonia Condenser Cooling System Blowdown

Old Wood River Creek Channel

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

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NPDES Permit No. IL0070173

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall:002 Ammonia Condenser Cooling System Blowdown (DAF = 0.0144 MGD)

| PARAMETER               | LOAD LIMITS lbs/day<br>DAF (DMF) |                  | CONCENTRATION<br>LIMITS mg/l |                  | SAMPLE<br>FREQUENCY | SAMPLE<br>TYPE    |
|-------------------------|----------------------------------|------------------|------------------------------|------------------|---------------------|-------------------|
|                         | 30 DAY<br>AVERAGE                | DAILY<br>MAXIMUM | 30 DAY<br>AVERAGE            | DAILY<br>MAXIMUM |                     |                   |
| Flow                    | See Special Condition 1          |                  |                              |                  |                     |                   |
| pH                      | See Special Condition 2          |                  |                              |                  | 1/Month             | Grab              |
| Temperature             | See Special Condition 3          |                  |                              |                  | 1/Month             | Single<br>Reading |
| Total Residual Chlorine | See Special Condition 4          |                  |                              |                  | 1/Month             | Grab              |
| Sulfate                 |                                  |                  |                              |                  | *                   | Grab              |
| Chloride                |                                  |                  |                              |                  | *                   | Grab              |

\*The discharge shall be sampled in June, July, August and September for sulfate and chloride.

Total Residual Chlorine sampling is only required when discharging water which is chlorinated or has a chlorine residual.

Special Conditions

**SPECIAL CONDITION 1.** Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum value on the monthly Discharge Monitoring Report.

**SPECIAL CONDITION 2.** The pH shall be in the range 6.5 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

**SPECIAL CONDITION 3.** This facility is not allowed any mixing with the receiving stream in order to meet applicable water quality thermal limitations. Therefore, discharge of wastewater from this facility must meet the following thermal limitations prior to discharge into the receiving stream.

- A. The discharge must not exceed the maximum limits in the following table during more than one percent of the hours in the 12 month period ending with any month. Moreover, at no time shall the water temperature of the discharge exceed the maximum limits in the following table by more than 1.7° C (3° F).

|    | <u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u> | <u>Dec.</u> |
|----|-------------|-------------|-------------|--------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| EF | 60          | 60          | 60          | 90           | 90         | 90          | 90          | 90          | 90           | 90          | 90          | 60          |
| EC | 16          | 16          | 16          | 32           | 32         | 32          | 32          | 32          | 32           | 32          | 32          | 16          |

- B. In addition, the discharge shall not cause abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.
- C. The discharge shall not cause the maximum temperature rise above natural temperatures to exceed 2.8° C (5° F).
- D. The monthly maximum value shall be reported on the DMR form.

**SPECIAL CONDITION 4.** All samples for total residual chlorine (TRC) shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained.

**SPECIAL CONDITION 5.** Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge but prior to entry into the receiving stream.

**SPECIAL CONDITION 6.** The Permittee shall record the monitoring results on the Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15<sup>th</sup> day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

**SPECIAL CONDITION 7.** In the event that the permittee must request a change in the use of water treatment additives, the permittee must request a change in this permit in accordance with Standard Conditions - Attachment H.

**SPECIAL CONDITION 8.** If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

Special Conditions

SPECIAL CONDITION 17. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. 302.