

NPDES Permit No. IL0002739
Notice No. JAR:14092401.docx

Public Notice Beginning Date: **November 18, 2014**

Public Notice Ending Date: **December 18, 2014**

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:

UL Inc.
333 Pflingsten Road
Northbrook, IL60062

Name and Address of Facility:

UL LLC
333 Pflingsten Road
Northbrook, IL60062
(Cook 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 is engaged in the research and laboratory testing of products for public safety (SIC 8734). Water is obtained from the Village of Northbrook and the cooling pond and used for non-contact cooling. Plant operation results in an average discharge of 0.053 MGD of screw compressor cooling, air compressor cooling, compressed air driers, refrigeration condenser cooling, and office building chiller condenser cooling from outfall 001. Wastewater is routed back to the cooling pond which only discharges during precipitation events.

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

| Outfall | Receiving Stream | Latitude | | Longitude | | Stream Classification | Biological Stream Characterization |
|---------|--------------------------------------|-------------|-------|-------------|------|-----------------------|------------------------------------|
| 001 | West Fork North Branch Chicago River | 42° 09' 00" | North | 87° 50' 30" | West | General Use | E |

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

The waterbody segment HCCB-05 receiving the discharge from outfall 001 is on the draft 2014 Illinois Integrated Water Quality Report and Section 303(d) List. The receiving water has been given an "E" integrity rating but is not listed as biologically significant in the 2008 Illinois Department of Natural Resources publication *Integrating Multiple Taxa in a Biological Stream Rating System*. The impaired designated uses and pollutants causing impairment are tabulated below:

| Designated Uses | Pollutants Causing Impairment |
|-----------------|--|
| Primary Contact | Fecal Coliform Bacteria |
| Aquatic Life | Aldrin, Alteration In Stream-Side or Littoral Vegetative Covers (Non-Pollutant), Changes In Stream Depth and Velocity Patterns (Non-Pollutant), Chloride, DDT, Endrin, Hexachlorobenzene, Dissolved Oxygen, Phosphorus, and Total Suspended Solids |

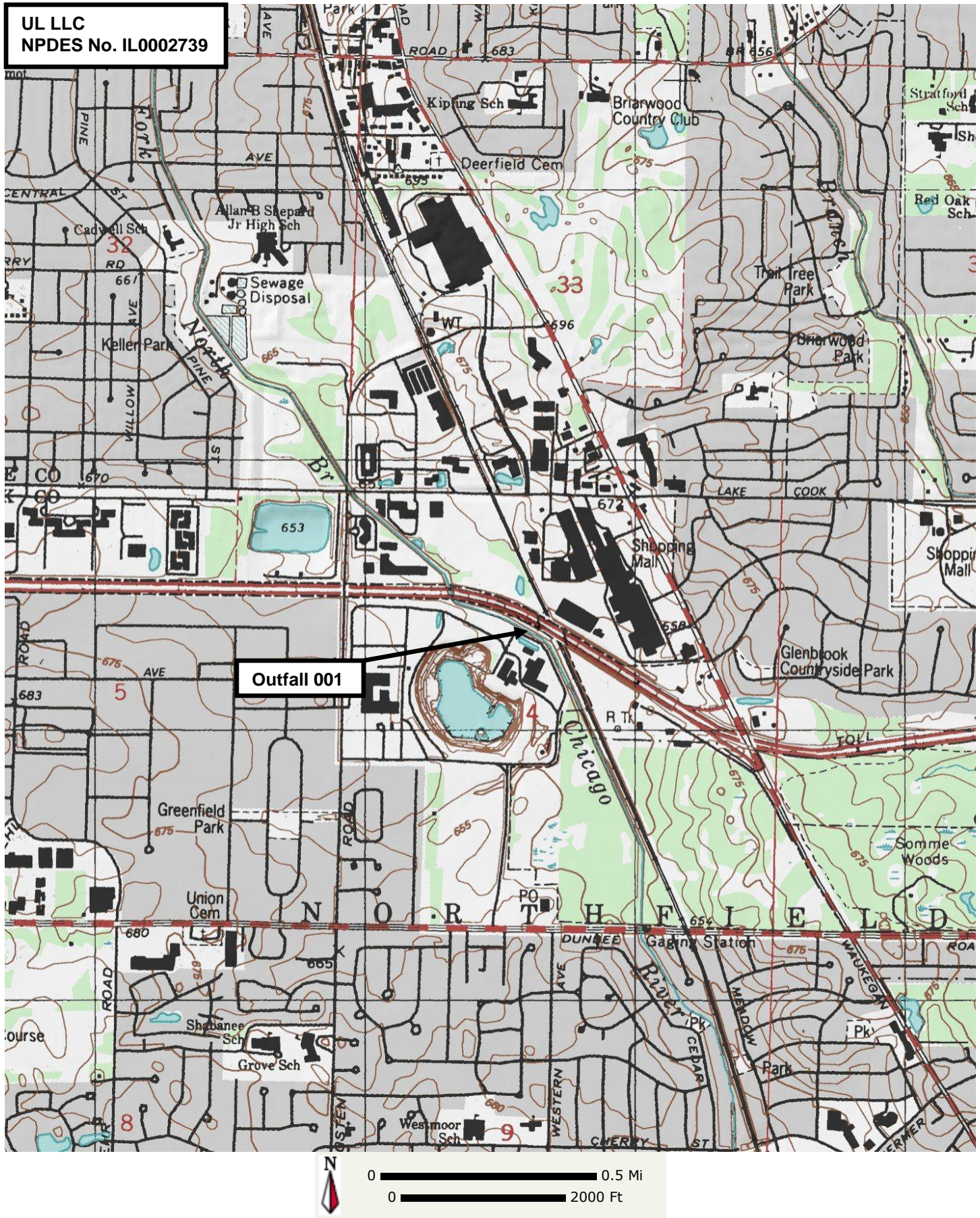
The discharge(s) from the facility shall be monitored and limited at all times as follows:

Outfall: 001 Screw Compressor Cooling, Air Compressor Cooling, Compressed Air Driers, Refrigeration Condenser Cooling, and Office Building Chiller Condenser Cooling (DAF = 0.053 MGD)

| PARAMETER | LOAD LIMITS lbs/day | | REGULATION | CONCENTRATION LIMITS mg/l | | REGULATION |
|-------------|---------------------|---------------|------------|---------------------------|---------------|----------------|
| | 30 DAY AVERAGE | DAILY MAXIMUM | | 30 DAY AVERAGE | DAILY MAXIMUM | |
| Flow (MGD) | | | | | | |
| Temperature | | | | | | 35 IAC 302.204 |
| TRC | | | | | 0.05 | 35 IAC 302.208 |

The following explain the conditions of the proposed permit:

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



NPDES Permit No. IL0002739

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:

UL Inc.
333 Pfingsten Road
Northbrook, IL60062

UL LLC
333 Pfingsten Road
Northbrook, IL60062
(Cook County)

Discharge Number and Name:

Receiving Waters:

001 Screw Compressor Cooling, Air Compressor Cooling,
Compressed Air Driers, Refrigeration Condenser Cooling, and
Office Building Chiller Condenser Cooling

West Fork North Branch Chicago River

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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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: 001 Screw Compressor Cooling, Air Compressor Cooling, Compressed Air Driers, Refrigeration Condenser Cooling, and Office Building Chiller Condenser Cooling (DAF = 0.053 MGD)

| PARAMETER | LOAD LIMITS lbs/day DAF (DMF) | | CONCENTRATION LIMITS mg/l | | SAMPLE FREQUENCY | SAMPLE TYPE |
|-------------------------|----------------------------------|------------------|------------------------------|------------------|---------------------|----------------|
| | 30 DAY AVERAGE | DAILY MAXIMUM | 30 DAY AVERAGE | DAILY MAXIMUM | | |
| Flow (MGD) | See Special Condition 1 | | | | 1/Month | |
| Temperature | | | | | 1/Month | Grab |
| Total Residual Chlorine | | | | 0.05 | 1/Month | Grab |

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. 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 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. The Permittee shall record monitoring results on 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 (NetDMR) instead of mailing paper DMRs to the IEPA. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.html>.

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

Permittees not using NetDMR 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 5. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.

SPECIAL CONDITION 6. 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.