

NPDES Permit No. IL0077810
Notice No. 13041701bwc.docx

Public Notice Beginning Date: **May 29, 2013**

Public Notice Ending Date: **June 28, 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:

KBSII 300 North LaSalle, LLC
300 North LaSalle St., Suite 1825
Chicago, Illinois 60654

Name and Address of Facility:

KBSII 300 North LaSalle, LLC
300 North LaSalle
Chicago, Illinois 60654
(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 Brian Cox at 217/782-0610.

The applicant is engaged in the operation of a 1.4 million square foot high rise building with 57 floors containing, office, conference, cafeteria, lobby, restaurant, and health club space. (SIC 6512). Wastewater is generated from operating an air conditioning system which utilizes once through non-contact cooling water. Plant operation results in a maximum discharge of 5.68 MGD of non-contact cooling water from outfall 001.

The source of the non-contact cooling water is an intake located on the Chicago River. The intake structure consists of a 5' x 7' box culvert penetrating the river wall. The pipe is approximately 4 ft above the bottom elevation of the river bed. The box culvert will run north approximately 28 ft to a concrete river water vault located adjacent to the building foundation wall. The intake pipe enters the river water vault to a stilling chamber where the water is kept at the water level of the river. Sluice gates direct the water to one of two paths within the river vault. Through the primary path, the water will pass through a traveling screen device with spray nozzles for continuous debris removal. The traveling screen is 8' x 12' with 68% free area and is constructed of 0.375" x 0.375" stainless steel mesh. The secondary path will only be utilized during maintenance on the traveling screen and other exceptional circumstances. Through the secondary path, the water will pass through two fixed screens each being 8' x 12' with 80% free area. The fixed screens are constructed of 0.5" x 0.5" stainless steel mesh.

The existing intake structure was designed in 2006. At that time the permittee chose to comply with 40 CFR 125.84(c), Track I requirements of the 316(b) Phase I New Facility Rules for new facilities that withdraw equal to or greater than 2 MGD and less than 10 MGD. The Agency then made the determination that the cooling water intake design met the design requirements of 40 CFR 125.84(c). There have been no significant changes from the original approved design, no significant reports of entrainment or impingement concerns, and the through screen velocity has been recorded at values less than 0.5 ft/s. Therefore, the intake design is still considered to meet the requirements of 40 CFR 125.84(c). All monitoring and reporting requirements found in 40 CFR 125.87 and 40 CFR 125.88 will be retained as a condition of the permit.

The Total Residual Chlorine (TRC) monitoring and limitation will only apply when chlorine is being utilized.

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

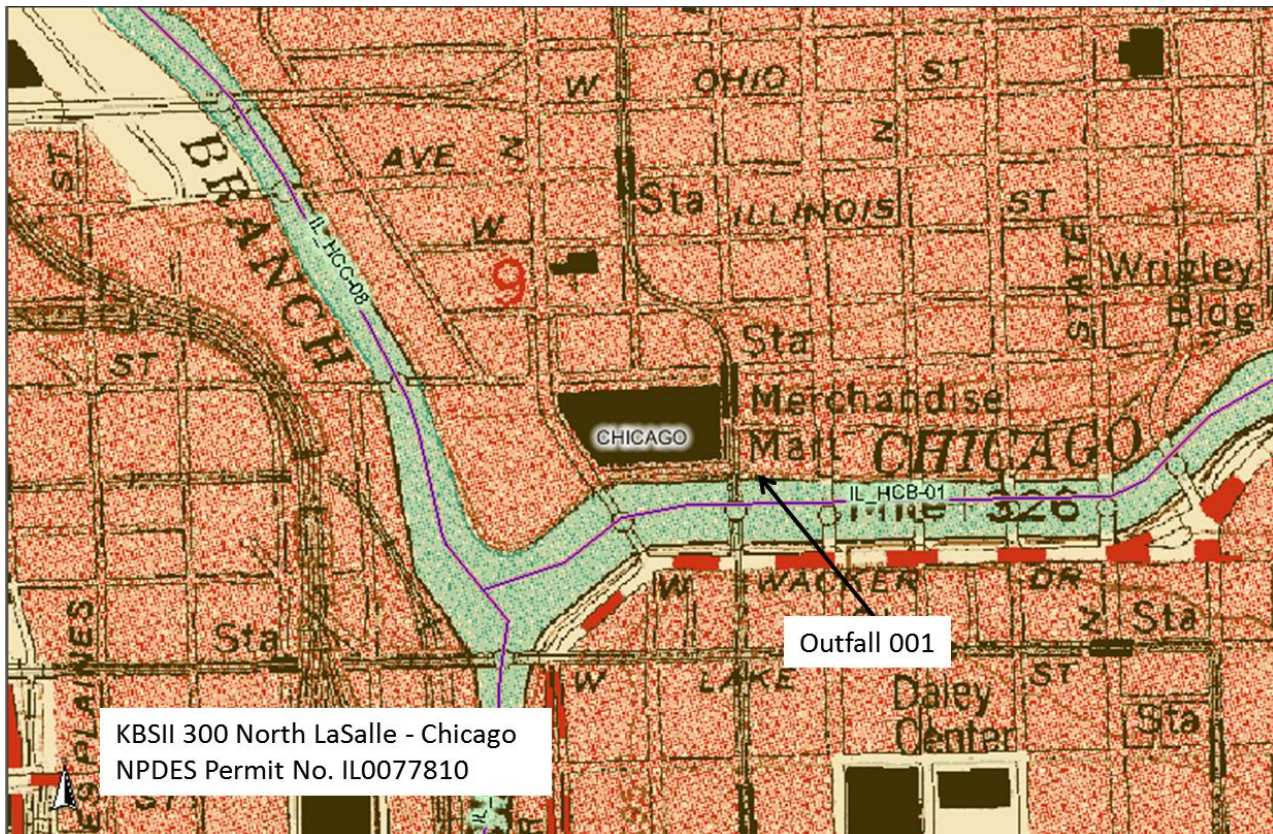
<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Chicago River	41° 53' 19" North	87° 37' 58" West	General Use	E

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

The stream segment HCB-01 receiving the discharge from outfall(s) 001 is on the 2012 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The following parameters have been identified as the pollutants causing impairment:

<u>Designated Use</u>	<u>Potential Cause</u>
Aquatic Life Fish Consumption Primary Contact Recreation	Phosphorus (total) and Silver Mercury and Polychlorinated biyphenyls Fecal Coliform



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

Outfall: 001

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow (MGD)						
pH				Shall be within the range 6.0 – 9.0 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Residual Chlorine					0.05	35 IAC 302.208 & 40 CFR 125.3

The special conditions of this permit serve the purpose of clarifying discharge monitoring location, the submittal of discharge monitoring reports, intake structure monitoring and reporting requirements, and provide temperature limitations.

NPDES Permit No. IL0077810

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:

KBSII 300 North LaSalle, LLC
300 North LaSalle St., Suite 1825
Chicago, Illinois 60654

Facility Name and Address:

KBSII 300 North LaSalle, LLC
300 North LaSalle
Chicago, Illinois 60654
(Cook County)

Discharge Number and Name:

001 Non-contact Cooling Water

Receiving Waters:

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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NPDES Permit No. IL0077810

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(s): 001* - Non-contact Cooling Water
(DMF = 5.68 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	Total
pH	See Special Condition 2				1/Month	Grab
Temperature	See Special Condition 3				1/Week	Single Reading
Total Residual Chlorine				0.05**	1/Week	Grab

*See Special Condition 7

**See Special Conditions 8 and 9

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 on the Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 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>
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	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. 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 5. 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 (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 15th 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 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.

SPECIAL CONDITION 7. For the purpose of this permit, the discharge from Outfall 001 is limited to non-contact cooling water free from process and other wastewater discharges. 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 8. Total Residual Chlorine monitoring and limitations shall only be required when chlorine is utilized. A note in the comment section of the DMR shall be provided identifying that chlorine was not used if chlorine was not utilized during that monitoring period.

Special Conditions

SPECIAL CONDITION 9. All samples for Total Residual Chlorine 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 10. The maximum volume of the river water that can be withdrawn is 5.68 MGD.

SPECIAL CONDITION 11. Collected debris from the screens shall not be discharged back to the river, but shall be disposed in a manner and a location acceptable to this Agency.

SPECIAL CONDITION 12. 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. Code 302.

SPECIAL CONDITION 13. Cooling Water Intake Structure Monitoring

A. Biological Monitoring

1. The permittee shall collect monthly samples over a 24 hour period to determine impingement rates for each species identified in the Source Water Baseline Biological Characterization provided as part of the application for this permit. If sampling is to be conducted by a diver and unsafe diving conditions preclude sample collection for an entire monitoring period, monitoring for that month shall be waived. All such monitoring periods shall be identified and an explanation included in the annual report required under Item D of this special condition.
2. The permittee shall collect biweekly samples over a 24 hour period to determine entrainment rates during the primary period of reproduction, larval recruitment and peak abundance for each species identified in the Source Water Baseline Biological Characterization provided as part of the application for this permit. For the purpose of this permit, the primary period for reproduction, larval recruitment and peak abundance will be the months of March through June.
3. In the event that the intake structure does not operate during an entire monitoring period (one month for impingement, two weeks for entrainment), no sampling is required for that monitoring period. All such monitoring periods shall be identified in the annual report required under Item D of this special condition.

B. Velocity Monitoring

Velocity monitoring shall be conducted at a point in the intake structure where water intake velocities are the greatest. Velocities may be determined by direct measurement or, when possible, by calculation. Head loss across the intake screen shall be utilized to determine average through screen velocity should the greatest velocity in the intake structure is determined to be at the screen. A maximum velocity shall be determined on a daily basis and the location and method used to determine maximum velocity shall be identified in the yearly report.

C. Visual or Remote Inspections

Visual inspections or remote monitoring devices shall be utilized as part of an operation and maintenance program to ensure that the cooling water intake structure screens are functioning as designed. Remote inspections can include alarm systems on the head loss measuring device for the screen and pressure monitoring of the air sparging system used to clean the screen. Visual inspection of the screening device shall be conducted should alarm conditions persist. Visual inspection or remote monitoring shall be performed weekly at a minimum.

D. Reporting

From the effective date of this permit, the Permittee shall prepare a report on an annual basis containing the following information and submit the report by December 31 to the address identified in Special Condition 18:

1. The results of biological monitoring for impingement sampling and entrainment sampling shall be tabulated by species for each sampling event.
2. Through screen velocity monitoring shall be tabulated on a daily basis for each month. A daily average velocity shall be provided. The daily maximum velocity value and the time lapse that occurred for each event resulting in the daily maximum value shall be provided.
3. Records of visual or remote inspections as required in Part C. of this condition.
4. Annual mean flow of the Chicago River at a point near the cooling water intake.