

NPDES Permit No. IL0070645  
Notice No. 13071701bwc.docx

Public Notice Beginning Date: **August 20, 2013**

Public Notice Ending Date: **September 19, 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:

Leica Biosystems Richmond, Inc.  
5205 Route 12  
Richmond, Illinois 60071

Name and Address of Facility:

Leica Biosystems Richmond, Inc.  
5205 Route 12  
Richmond, Illinois 60071  
(McHenry 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 manufacture of disposable products for the medical industry consisting primarily of glass slides. (SIC 2833). Wastewater is generated as contact cooling water generated from the grinding and polishing of glass slides. Plant operation results in an average discharge of 0.06 MGD of treated contact cooling water from outfall 001.

No soaps, detergents, or lubricants are used in the glass grinding operations. The cooling water is treated in a series of settling tanks followed by a plate and frame filter press prior to discharge. The source of the cooling water is an on-site well.

The following modifications are proposed:

The name of the permittee has been changed from Surgipath Medical Industries, Inc. to Leica Biosystems Richmond, Inc..

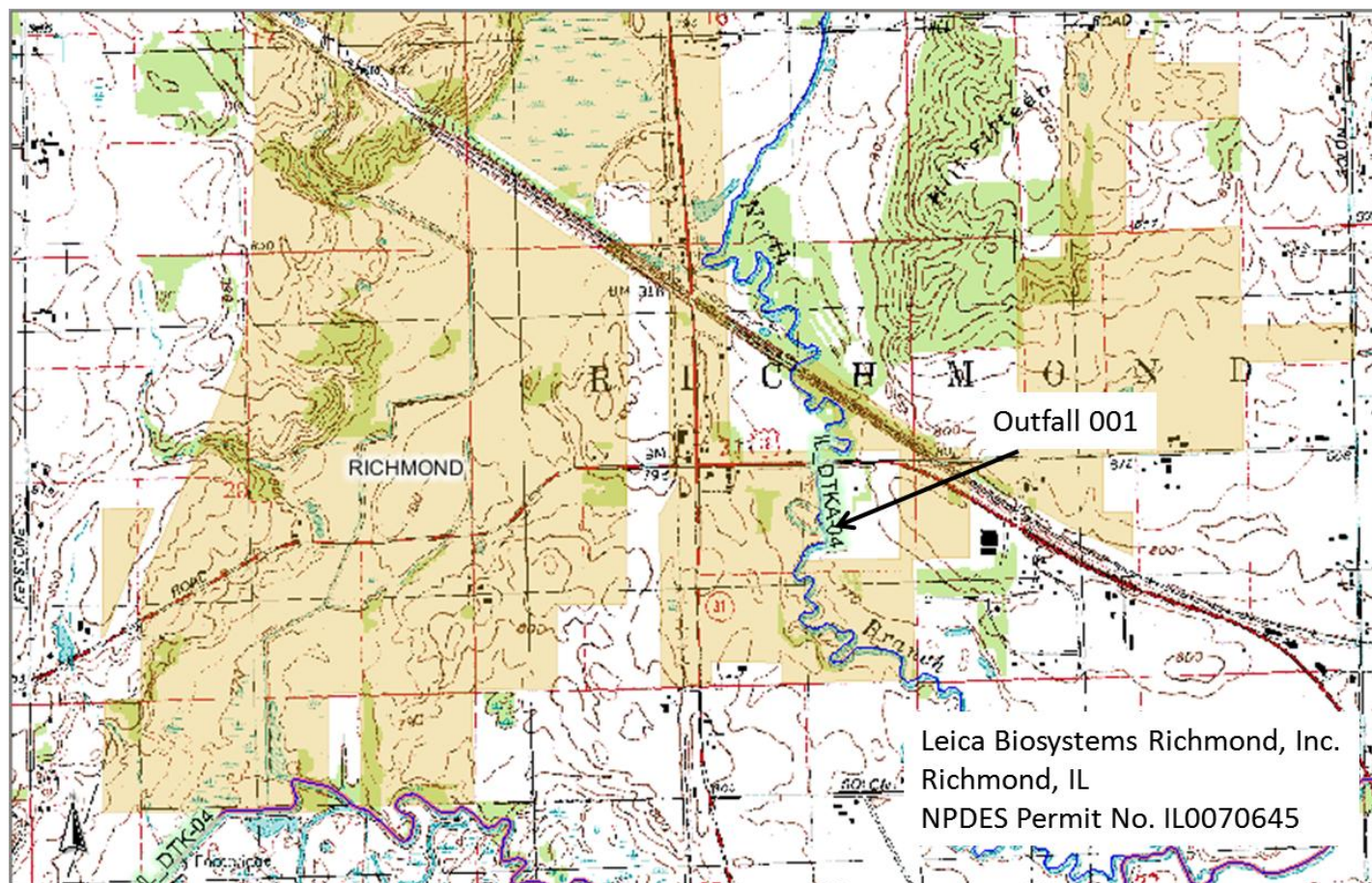
Application is made for the existing discharge(s) which are located in McHenry County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Wetlands tributary to North Branch Nippersink Creek	42° 27' 00" North	88° 18' 00" West	General Use	Not Rated

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

The wetlands receiving the discharge from outfall(s) 001 is not 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 stream segment, IL\_DTKA-04, receiving the discharge from the wetlands which receive the discharge from outfall(s) 001 is not on the 2012 303(d) list of impaired waters and is a biologically significant stream and was given an integrity rating of "D" on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.



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

Outfall(s): 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)				Monitor Only		
pH				Shall be within the range 6.0 – 9.0 s.u.		35 IAC 304.125
Temperature						35 IAC 302.211
Total Suspended Solids	7.5	22.5	35 IAC 304.124	15	30	35 IAC 304.124

Load Limit Calculations:

Load limit calculations for outfall 001 for the following pollutant parameters were based on an average flow of 0.06 MGD and a maximum flow of 0.09 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Total Suspended Solids.

The load limits appearing in the permit will be the more stringent of the State and Federal Guidelines.

The special conditions of this permit serve the purpose of clarifying requirements for flow, pH, temperature, monitoring location, and DMR submission.

NPDES Permit No. IL0070645

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:

Leica Biosystems Richmond, Inc.  
5205 Route 12  
Richmond, Illinois 60071

Facility Name and Address:

Leica Biosystems Richmond, Inc.  
5205 Route 12  
Richmond, Illinois 60071  
(McHenry County)

Discharge Number and Name:

001 Contact Cooling Water

Receiving Waters:

Wetlands tributary to North Branch Nippersink Creek

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. IL0070645

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 - Contact Cooling Water  
(DAF = 0.06 MGD; DMF = 0.09 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	Measurement
pH	See Special Condition 2				1/Month	Grab
Temperature	See Special Condition 3				1/Month	Single Reading
Total Suspended Solids	7.5	22.5	15	30	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 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 Outfall 001 is limited to Contact cooling water generated from glass grinding and polishing operations, free from soaps, detergents, lubricants, and other wastewater discharges. In the event the permittee shall require the use of water treatment additives, the permittee shall request a modification of this permit in accordance with the Standard Conditions – Attachment H.

**SPECIAL CONDITION 8.** No effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must be reduced to below obvious levels.

Special Conditions

SPECIAL CONDITION 9. 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 10. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.