

NPDES Permit No. IL0024333
Notice No. JMC:12070201 IL0024333 Richardson Electronics.docx

Public Notice Beginning Date: **September 12, 2012**

Public Notice Ending Date: **October 12, 2012**

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:
Richardson Electronics, Ltd.
40 W 267 Keslinger Road
P.O. Box 393
LaFox, Illinois 60147-0393

Name and Address of Facility:
Richardson Electronics, Ltd.
40 W 267 Keslinger Road
P.O. Box 393
LaFox, Illinois 60147-0393
(Kane 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 James M. Cowles at 217/782-0610.

The applicant is engaged in distributing and marketing electronic industrial apparatus and designs, and manufactures and markets industrial electronic tubes (SIC 3629 & 3671). Waste water is generated from sanitary facilities, glass washing and coating, non-contact cooling water and storm water. Plant operation results in an average discharge of 0.0045 MGD of treated sanitary and glass washing and coating wastewater from outfall 001 and intermittent discharge of non-contact cooling water and storm water from outfalls 002 and 003.

Application is made for existing discharges which are located in Kane County, Illinois.

The following information identifies the discharge point, receiving stream and stream classifications:

Outfall	Receiving Stream	Latitude		Longitude		Stream Classification	Integrity rating
001, 002 and 003	Unnamed tributary of Mill Creek	41° 52' 44"	North	88° 24' 07"	West	General Use	Not Rated

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

The stream segment (DTZL-02) receiving the discharge from outfall(s) 001 is not on the draft 2010 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 discharge(s) from the facility shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day* DAF (DMF)			Regulation	CONCENTRATION LIMITS mg/L			Regulation
	Monthly Average	Weekly Average	Daily Maximum		Monthly Average	Weekly Average	Daily Maximum	
Outfall: 001								
pH								35 IAC 304.125
BOD ₅	0.37		0.73	35 IAC 304.120	10		20	35 IAC 304.120
Total Suspended Solids	0.44		0.88	35 IAC 304.120	12		24	35 IAC 304.120
Fecal Coliform								35 IAC 304.121
Total Residual Chlorine			0.002	35 IAC 302.208			0.05	35 IAC 302.208
Ammonia Nitrogen (as N)				35 IAC 302.212 355 & 309.143				35 IAC 302.212 & 355
Spring/Fall	0.006	0.150	0.255		1.6	4.0	6.8	
Summer	0.051	0.128	0.209		1.4	3.5	5.7	
Winter	0.150	--	0.225		4.0	--	6.0	
Outfalls 002 & 003								
pH								35 IAC 304.125
Temperature								35 IAC 302.211

Load Limit Calculations:

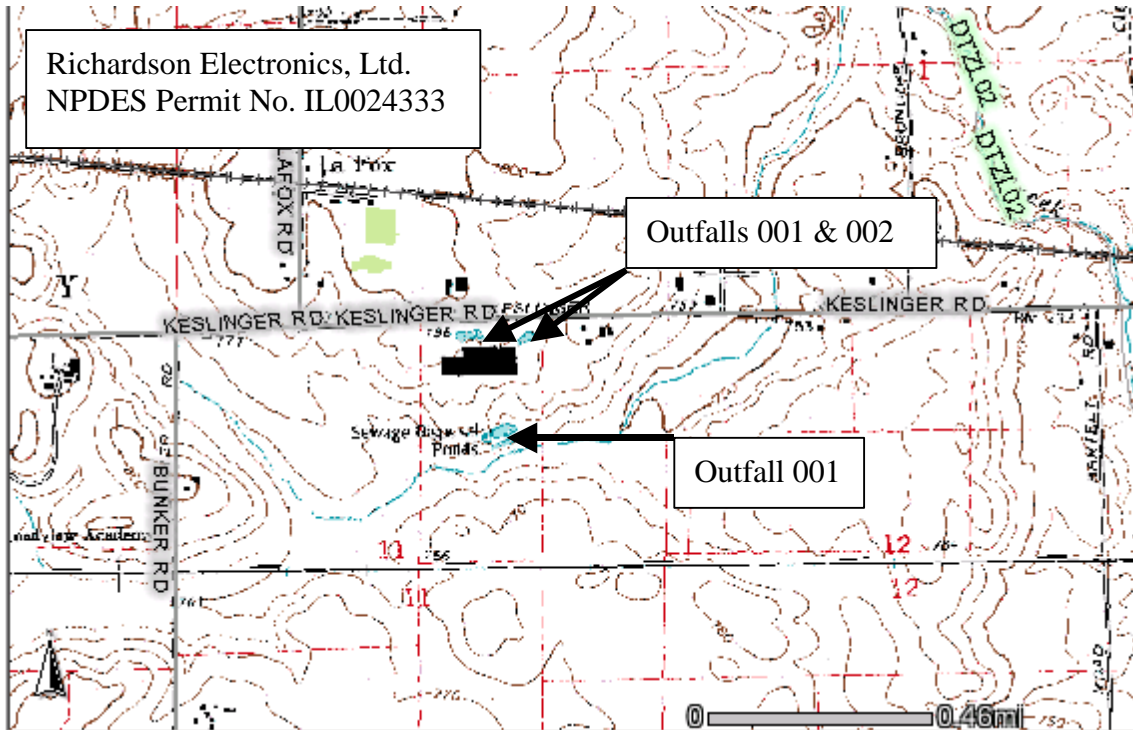
Load limit calculations for the following pollutant parameters were based on an average flow of 0.0045 MGD and a maximum flow of 0.0045 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Ammonia Nitrogen (as N).

Load limit calculations for the following pollutant parameters were based on an average flow of 0.0073 MGD and a maximum flow of 0.0073 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): BOD₅, Total Suspended Solids.

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

The following explain the conditions of the proposed permit:

Cooling water is circulated between the facility and two cooling ponds. Discharge from these ponds only occur intermittently when enough storm water is received to cause overflow. The storm water does not come into contact with an industrial activity so the storm water will not be regulated by requiring a storm water pollution prevention plan. Discharge flow for all outfalls will be monitored and reported. Monitoring and limitation for outfall 001 is typical for a sanitary waste water discharge. All samples will be grab samples because of the high detention time associated with the discharges.



NPDES Permit No. IL0024333

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:
Richardson Electronics, Ltd.
40 W 267 Keslinger Road
P.O. Box 393
LaFox, Illinois 60147-0393

Facility Name and Address:
Richardson Electronics, Ltd.
40 W 267 Keslinger Road
P.O. Box 393
LaFox, Illinois 60147-0393

Discharge Number and Name:
001 Treated Sanitary and Glass Washing and Coating
Waste Water

Receiving Waters:
Unnamed Tributary of Mill Creek

002 & 003 Non-contact Cooling Water and Stormwater

Unnamed Tributary of Mill 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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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:

Parameter	LOAD LIMITS lbs/day DAF (DMF)			CONCENTRATION LIMITS MG/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Outfall: 001*								
Flow (MGD)							1/Week	Single Reading
BOD ₅	0.37		0.73	10		20	1/Week	Grab
Total Suspended Solids	0.44		0.88	12		24	1/Week	Grab
Fecal Coliform	See Special Condition 1						1/Week	Grab
pH	See Special Condition 2						1/Week	Grab
Total Residual Chlorine			0.002			0.05	1/Week	Grab
Ammonia Nitrogen as (N)								
Spring/Fall	0.060	0.150	0.255	1.6	4.0	6.8	1/Week	Grab
Summer	0.051	0.128	0.209	1.4	3.5	5.7	1/Week	Grab
Winter	0.150		0.225	4.0		6.0	1/Week	Grab
*See Special Condition 3								
Outfalls: 002* and 003*								
Flow (MGD)							1/Month	Single Reading
pH	See Special Condition 2						1/Month	Grab
Temperature	See Special Condition 4						1/Month	Grab
*See Special Condition 5								

Special Conditions

SPECIAL CONDITION 1. The daily maximum fecal coliform count shall not exceed 400 per 100 ml.

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. For the purpose of this permit, the discharge from outfall 001 is limited to treated sanitary and glass washing and coating wastewater, free from other wastewater discharges. 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 4. 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 the 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 5. For the purpose of this permit, the discharge from outfalls 002 and 003 is limited to non-contact cooling water and stormwater, 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. 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. 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. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 8. 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.

Special Conditions

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 9. Flow shall be reported in units of Million Gallons per Day (MGD) as a monthly average and daily maximum value.

SPECIAL CONDITION 10. The Storm water portion of this permit has been identified as not being associated with industrial activity. Should the facility layout or operations change in such a manner that would expose an industrial activity to stormwaters with discharge, the permittee must submit an appropriate storm water permit application 180 days in advance of the anticipated change.