

NPDES Permit No. IL0004065
Notice No. 13072801bwc.docx

Public Notice Beginning Date: **August 26, 2013**

Public Notice Ending Date: **September 25, 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 Permittee:

Rain CII Carbon, LLC
12187 East 950th Street
Robinson, Illinois 62454

Name and Address of Facility:

Rain CII Carbon, LLC
Robinson Coke Plant
12187 East 950th Street
Robinson, Illinois 62454
(Crawford 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 Permittee. 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 W. Cox at 217/782-0610.

The applicant is engaged in the production of calcinated petroleum coke by means of processing green petroleum coke through two rotary kilns (SIC 2999). Wastewater is generated from the operation of an evaporative cooler, from cleaning waters, and from stormwater runoff including coke storage pile runoff. Plant operation results in an average discharge of 0.288 MGD of treated stormwater runoff, cooling water overflow, and area washdown from outfall 001 and an intermittent discharge of emergency bypass wastewater from outfall B01.

Wastewater treatment at this facility consists of settling which occurs in a three stage settling pond and then the water passes through a rock filter prior to discharging to outfall 001. During emergency events generally caused by excessive precipitation, water is discharged directly from the second cell of the settling pond to outfall B01, thereby by-passing the polishing cell and rock filter.

The following modifications are proposed:

Outfall A01 has been eliminated. The facility now discharges sanitary wastewater to the City of Robinson STP. Therefore, the

requirement to monitor fecal coliform and BOD₅ has been removed from the permit. Additionally, limits found at 35 IAC 304.120 are no longer applicable, so the Total Suspended Solids permit limits have been changed to those found at 35 IAC 304.124.

The facility has made upgrades to the treatment and collection system including two rock filter dams in the main collection ditch and modifying the size and shape of Ponds 1 and 2 to maximize settling time, and replacing the pump to Pond 3 with a larger capacity pump to minimize emergency overflow discharges. These WWTP modifications were permitted under IEPA Permit No. 2010-EN-3105 and did not require any modifications to the NPDES Permit.

Outfall 002 has been renamed outfall B01. Effluent from the emergency bypass combines with the effluent from outfall 001 prior to entering the receiving stream. Therefore, the emergency bypass discharge has been renamed outfall B01 in order to identify that it is an internal outfall. In addition, a condition has been added which provides an equation to determine compliance with permit limitations during discharges from the emergency bypass.

A requirement to monitor metals and other parameters has been added to the permit to provide additional data to reassess whether there is a reasonable potential to exceed water quality standards.

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

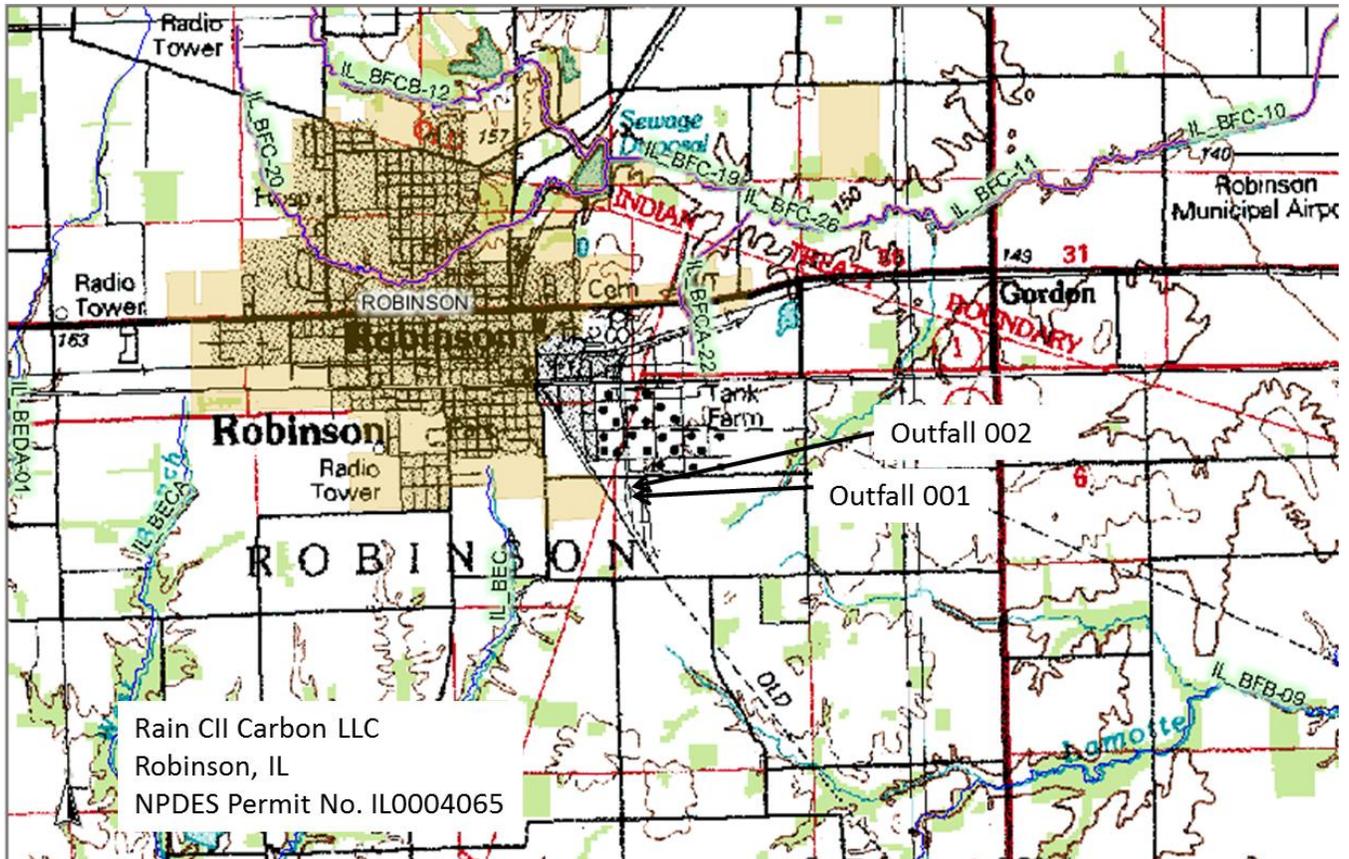
<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Marathon Creek tributary to Robinson Creek via a storm sewer	38° 59' 30" North	87° 43' 10" West	General Use	Not Rated
B01	Marathon Creek tributary to Robinson Creek via a storm sewer	38° 59' 32" North	87° 43' 10" West	General Use	Not Rated

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

The stream segment, IL_BFCA-22, receiving the discharges from outfall(s) 001 and 002 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	Cause Unknown



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)				Monitor Only		
pH				Shall be within range 6–9 s.u.		35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124

Outfall(s): B01

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 range 6–9 s.u.		35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124

The following explain the conditions of the proposed permit:

The special conditions of the permit serve the purpose of clarifying monitoring requirements, monitoring location, DMR submission, compliance during emergency bypass and operator certification requirements.

NPDES Permit No. IL0004065

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:

Rain CII Carbon, LLC
12187 East 950th Street
Robinson, Illinois 62454

Facility Name and Address:

Rain CII Carbon, LLC
Robinson Coke Plant
12187 East 950th Street
Robinson, Illinois 62454
(Crawford County)

Discharge Number and Name:

Outfall 001 – Treated Stormwater, Cooling Water Overflow, and
Area Washdown

Outfall B01 – Emergency Bypass

Receiving Waters:

Marathon Creek tributary to Robinson Creek via a storm sewer

Marathon Creek tributary to Robinson Creek via a storm sewer

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. IL0004065

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 – Treated Stormwater**, Cooling Water Overflow, and Area Washdown
(Average Flow = 0.288 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/Week*	Measurement
pH	See Special Condition 2				1/Week*	Grab
Total Suspended Solids			15	30	1/Week*	Composite

*Daily monitoring is required in accordance with Special Condition 6, when discharging from the Emergency Bypass, Outfall B01.

**See Special Condition 11 for additional stormwater requirements.

Outfall(s): B01 – Emergency Bypass*
(Intermittent Discharge)

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				Daily When Discharging*	Measurement
pH				Monitor Only	Daily When Discharging*	Grab
Total Suspended Solids				Monitor Only	Daily When Discharging*	Grab

*See Special Condition 6.

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. 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. 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 5. 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 6. For the purpose of this permit, the discharge from outfall B01 is limited to the emergency bypass of the third cell of the settling lagoon including the rock filter, during times of excessive rainfall which may otherwise flood, overload, or damage property. When a discharge is occurring from outfall B01, outfall 001 and outfall B01 flow shall be recorded on a daily basis and reported as specified in Special Condition 1 and the time, date, and duration of any such discharge shall be recorded and reported with the DMR. In addition, a grab sample shall be collected on a daily basis for outfall 001 and outfall B01 and analyzed for the following parameters: pH, TSS, and BOD₅. When discharging from outfall B01, compliance with the outfall 001 limits specified on page 2 of this permit shall be determined using the following equation:

$$[(C_{001} \times Q_{001}) + (C_{B01} \times Q_{B01})] / (Q_{001} + Q_{B01}) = C_{eff}, \text{ where}$$

C_{eff} = Concentration of the combined effluent for the purpose of compliance
 C_{001} = Concentration of outfall 001
 Q_{001} = Flow of outfall 001
 C_{B01} = Concentration of outfall B01
 Q_{B01} = Flow of outfall B01

SPECIAL CONDITION 7. 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 CONDITION 8. 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 9. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

Special Conditions

SPECIAL CONDITION 10. The Permittee shall conduct semi-annual monitoring of the effluent and report concentrations (in mg/l) of the following listed parameters. Monitoring shall begin three (3) months from the effective date of this permit. The sample shall be a grab sample and the results shall be submitted on Discharge Monitoring Report Forms to IEPA unless otherwise specified by the IEPA. The parameters to be sampled and the minimum reporting limits to be attained are as follows:

<u>STORET CODE</u>	<u>PARAMETER</u>	<u>Minimum reporting limit</u>
01002	Arsenic	0.05 mg/L
01007	Barium	0.5 mg/L
01027	Cadmium	0.001 mg/L
01032	Chromium (hexavalent)	0.01 mg/L
01034	Chromium (total)	0.05 mg/L
01042	Copper	0.005 mg/L
00718	Cyanide (available*** or amenable to chlorination)	5.0 ug/L
00720	Cyanide (total) (grab not to exceed 24 hours)	5.0 ug/L
00951	Fluoride	0.1 mg/L
01045	Iron (total)	0.5 mg/L
01046	Iron (Dissolved)	0.5 mg/L
01051	Lead	0.05 mg/L
01055	Manganese	0.5 mg/L
71900	Mercury**	1.0 ng/L*
01067	Nickel	0.005 mg/L
00556	Oil (hexane soluble or equivalent)	5.0 mg/L
32730	Phenols	0.005 mg/L
01147	Selenium	0.005 mg/L
01077	Silver (total)	0.003 mg/L
01092	Zinc	0.025 mg/L

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

*1.0 ng/L = 1 part per trillion.

**Utilize USEPA Method 1631E and the digestion procedure described in Section 11.1.1.2 of 1631E.

***US EPA Method OIA-1677.

SPECIAL CONDITION 11. The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.